FPM Remediations, Inc. Construction and Remediation Services

548 Phoenix Dr
Rome, NY 13441
315/336-7721
FAX 315/336-7722

FEB 11 2013

February 8, 2013

To: See Distribution List

RE: Final Completion Report
Sub-Slab Vapor Mitigation Systems
SD-052-02 Building 775 Site (Buildings 774 and 776) and SD-052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786)
Former Griffiss Air Force Base, Rome, New York
Project No. FA8903-04-D-8687-0017
FPM Project No. 1000-08-17
Revision 2.0
February 2013

Enclosed please find the Final Completion Report for the Sub-Slab Vapor Mitigation Systems at SD-052-02 Building 775 Site (Buildings 774 and 776) and SD-052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786), for your review. This report details the completion and initial performance evaluation of the respective sub-slab vapor mitigation systems at the former Griffiss Air Force Base in Rome, NY.

If you have any questions or require additional information, please contact me or Katrina Mattice by phone at 315-336-7721, or e-mail at d.baldyga@fpm-remediations.com or k.mattice@fpm-remediations.com.

Very truly yours,

Daniel Baldyga, CE
Senior Environmental Scientist

Enc. Distribution List

Distribution:

Ms. Heather Bishop
NYSDEC
Bureau of Eastern Remedial Action
Division of Hazardous Waste Remediation
625 Broadway, 11th floor
Albany, NY 12233-7015 (2 hard copies)

Mr. Robert Morse
USEPA Region II
Federal Facilities Section
290 Broadway, 18th Floor
New York, NY 10007-1866 (2 hard copies)

Ms. Kristin Kulow
NYSDOH
28 Hill Street, Suite 201
Oneonta, NY 13820-4700 (1 hard copy)

Mr. Sean Eldredge
AFCEE EXC
3515 S. General McMullen
San Antonio, TX 78226-9853 (1 hard copy)

Mr. Michael McDermott
AFCEE EXC Griffiss
428 Phoenix Drive, Building 770
Rome, NY 13441 (1 hard copy)

Mr. Gaby Atik
FPM Remediations, Inc.
584 Phoenix Drive
Rome, NY 13441 (1 hard copy)

FINAL COMPLETION REPORT

Sub-Slab Vapor Mitigation Systems

At Buildings 774, 776, 785 and 786
Former Griffiss Air Force Base
Rome, New York

through

Air Force Civil Engineer Center
2261 Hughes Avenue
Lackland AFB, TX 78236-9853

Prepared by:

FPM Remediation, Inc.
584 Phoenix Drive
Rome, NY 13441

Project No. FA8903-04-D-8687
Delivery No. 0017

Revision 2.0
February 2013

This page is intentionally left blank.

TABLE OF CONTENTS

SECTION **PAGE**

1 INTRODUCTION 1-1
1.1 Description of Sub-Slab Vapor Mitigation 1-1
2 SITE INFORMATION 2-1
2.1 Buildings 774 and 776 Site Location and History 2-1
2.1.1 Groundwater Investigation 2-1
2.1.2 2006 Soil Vapor Intrusion Evaluation 2-2
2.1.3 Building 774 Soil Vapor Intrusion Results 2008 2-3
2.1.4 Building 776 Soil Vapor Intrusion Results 2008 2-3
2.2 Buildings 785 and 786 Site Location and History 2-3
2.2.1 Groundwater Investigation 2-4
2.2.2 2006 Soil Vapor Intrusion Evaluation 2-4
2.2.3 Building 785 Soil Vapor Intrusion Results 2008 2-5
2.2.4 Building 786 Soil Vapor Intrusion Results 2008 2-5
3 INSTALLATION OF SSVM SYSTEMS 3-1
3.1 Buildings 774 and 776 System 3-1
3.1.1 Horizontal Wells 3-1
3.1.2 Blower and Accessories 3-2
3.1.3 Vapor Monitoring Points 3-3
3.1.4 Vapor Treatment 3-3
3.1.5 Site Restoration 3-3
3.2 Buildings 785 and 786 System 3-3
3.2.1 Horizontal Wells 3-4
3.2.2 Blower and Accessories 3-4
3.2.3 Vapor Monitoring Points 3-5
3.2.4 Vapor Treatment 3-5
4 PERFORMANCE EVALUATION 4-1
4.1 Buildings 774 and 776 System 4-1
4.1.1 Stepped Rate Test 4-1
4.1.2 Vacuum Radius of Influence Test 4-2
4.1.3 Vapor Monitoring Point Sub-Slab Sampling 4-3
4.1.4 Vapor Treatment Sampling 4-4
4.1.5 Long-Term Operation 4-5
4.2 Buildings 785 and 786 System 4-6
4.2.1 Stepped Rate Test 4-6
4.2.2 Vacuum Radius of Influence Test 4-6
4.2.3 Vapor Monitoring Point Sub-Slab Sampling 4-7
4.2.4 Vapor Treatment Sampling 4-8
4.2.5 Long-Term Operation 4-9
4.3 Conclusion and Recommendations 4-9

4.3.1 Operation and Maintenance 4-10
5 REFERENCES 5-1

LIST OF FIGURES

Figures

Figure 1-1 Buildings 785 and 786 Site Location Map
Figure 2-1 Buildings 774 and 776 Site Features
Figure 2-2 Buildings 785 and 786 Site Features
Figure 3-1 Buildings 774 and 776 SSVM System
Figure 3-2 Horizontal Well 774SSVM-1 Profile
Figure 3-3 Horizontal Well 774SSVM-2 Profile
Figure 3-4 Horizontal Well 776SSVM-1 Profile
Figure 3-5 Horizontal Well 774SSVM-3 Profile
Figure 3-6 Buildings 774 and 776 Blower System Schematic
Figure 3-7 Buildings 785 and 786 SSVM System
Figure 3-8 Horizontal Well 786SSVM-1 Profile
Figure 3-9 Horizontal Well 785SSVM-1 Profile
Figure 3-10 Buildings 785 and 786 Blower System Schematic
Figure 4-1 Stepped Rate Test 774SSVM-1, -2 and 776SSVM-1
Figure 4-2 Specific Capacity 774SSVM-1, -2 and 776SSVM-1
Figure 4-3 ROI Test on Building 774
Figure 4-4 ROI Test on Building 776
Figure 4-5 Trend Chart Sub-slab Sampling Results Buildings 774 and 776
Figure 4-6 Trend Chart Influent Results Buildings 774 and 776
Figure 4-7 774SSVM-1, -2 and 776SSVM-1 Long Term Operation Vacuum
Figure 4-8 774SSVM-1, -2 and 776SSVM-1 Long Term Operation Flow Rate
Figure 4-9 Stepped Rate Test 785SSVM-1 and 786SSVM-1
Figure 4-10 Specific Capacity 785SSVM-1 and 786SSVM-1
Figure 4-11 ROI Test on Building 785
Figure 4-12 ROI Test on Building 786
Figure 4-13 Trend Chart Sub-Slab Sampling Results Buildings 785 and 786
Figure 4-14 Trend Chart Influent Results Buildings 785 and 786
Figure 4-15 785SSVM-1 and 786SSVM-1 Long Term Operation Vacuum
Figure 4-16 785SSVM-1 and 786SSVM-1 Long Term Operation Flow

LIST OF TABLES

Tables

Table 1 SVI Results Table
Table 2 SSVM Performance Monitoring Results Table
Table 3 SSVM Systems Operation and Maintenance

LIST OF APPENDICES (electronic copy only)

Appendices

Appendix A	Photo Log
Appendix B	RWPCF Documentation
Appendix C	Field Forms
Appendix D	Raw Lab Data
Appendix E	Validated Data
Appendix F	Operation and Maintenance Field Forms and Manuals
Appendix G	Pilot Study Report

LIST OF ACRONYMS AND ABBREVIATIONS

acfm	actual cubic feet per minute
AF	Air Force
AFB	Air Force Base
AFCEC	Air Force Civil Engineer Center
AFRPA	Air Force Real Property Agency
bgs	below ground surface
BV	bioventing
COC	chain of custody
DCE	dichloroethylene
EEEPC	Ecology and Environment Engineering, P.C.
FPM	FPM Remediations, Inc.
ft	feet
GAC	granular activated carbon
in w.g.	inches of water gauge
µg/L	micrograms per liter
µg/m^3	micrograms per meter cubed
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethylene
PDI	pre-design investigation
PID	photoionization detector
PVC	poly-vinyl chloride
RAWP	remedial action work plan
ROD	record of decision
ROI	radius of influence
RWPCF	Rome Water Pollution Control Facility

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

scfm	standard cubic feet per minute
SSVM	Sub-Slab Vapor Mitigation
sq ft	square feet
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TCE	trichloroethylene
TCLP	toxicity characteristic leaching procedure
USACE	United States Army Corps of Engineers
USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VMP	Vapor Monitoring Point
VOC	Volatile Organic Compound
WP	Work Plan

This page is intentionally left blank.

1 INTRODUCTION

FPM Remediations, Inc. (FPM) has been contracted by the Air Force Civil Engineer Center (AFCEC) to perform Sub-Slab Vapor Mitigation (SSVM) at the former Griffiss Air Force Base (AFB) in Rome, NY. SSVM was performed at SD-52-02 Building 775 Site (Buildings 774 and 776) and SD-052-01 Apron 2 Chlorinated Plume Site (Buildings 785 and 786). These sites were investigated as part of the Soil Vapor Intrusion (SVI) Survey at the On-Base Groundwater Areas of Concern performed between October and December 2006 by Ecology and Environment Engineering P.C. (EEEPC). This SVI survey was reviewed by the Air Force, New York State Department of Environmental Conservation (NYSDEC), New York State Department of Health (NYSDOH) and United States Environmental Protection Agency (USEPA). During discussions among these parties, a plan for additional sampling was established. The additional sampling was conducted in April and May 2008 (FPM, April 2008).

Buildings 774, 776, 785 and 786 are shown in Figure 1-1. These sites are industrial/commercial and are not intended for future residential use. All current and future receptors at the sites are therefore industrial/commercial workers. The site use is currently restricted to industrial/commercial use through deed/lease restrictions.

1.1 Description of Sub-Slab Vapor Mitigation

SSVM addressed the SVI of chlorinated solvents at the sites. The SSVM was conducted in accordance with provisions of Contract # FA8903-04-D-8687, Delivery Order # 0017. The objectives, components and evaluation criteria of performance are as follows:

The objectives of the SSVM systems were:

- To envelope Buildings 774 and 776 sub-slabs with negative pressures using a horizontal system in order to create vapor barrier;
- To provide soil vapor extraction (SVE) for Buildings, 785 and 786 utilizing a horizontal SSVM system;
- To mitigate SVI sources at Buildings 774, 776, 785 and 786 through providing SSVM and to evaluate SSVM to protect potential future human receptors; and
- To evaluate chlorinated solvent mitigation due to the SSVM systems.

System designs and evaluation criteria were based on the Draft SSVM Design Work Plan (WP) (FPM, February 2011). The implementation and evaluation of the systems was also performed in consultation with the United States Army Corps of Engineers (USACE) Engineering Manual 1110-1-4001 (USACE, June 2002), specifically chapter 5 “Design of Full-Scale SVE and Bioventing (BV) Systems” and Assumptions and Screening Levels for SVI Evaluation (FPM, October 2007).

Components of the SSVM systems included:

- A horizontally-installed SSVM system at Buildings 774, 776, 785 and 786 with vacuum blower and associated piping and controls;
- Vapor treatment system using granular activated carbon (GAC); and
- Vapor monitoring points (VMPs) to evaluate the transport of chlorinated solvents resulting from SSVM systems operation.

Given the above objectives and components of the SSVM systems, the following performance evaluation criteria were used:

1. Design and performance of SSVM systems determined through stepped rate test.
2. Ability of SSVM systems to depressurize building slabs. Determined through vacuum radius of influence (ROI) test.
3. Understanding the transport and mitigation of chlorinated solvents. Determined through VMP sub-slab sampling and comparison to previous results from SVI evaluation.
4. Identifying the effectiveness of SVE and treatment. Determined through influent vapor sampling from the extraction wells and effluent vapor sampling after GAC treatment.

2 SITE INFORMATION

2.1 Buildings 774 and 776 Site Location and History

These two buildings are located between Phoenix Drive and Patrol Road on Strategic Air Command Hill at the former Griffiss AFB in Rome, NY and are associated with the Building 775 Site (SD-52-02) (Figure 2-1). Building 774 is a one-story, 18,990 square feet (sq ft) office building, currently occupied by a computer/security firm. The building is occupied on work days from 8 AM to 5 PM by approximately 45 people. Building 774 was built in 1959, but underwent major renovations in 2000. New windows and doors were installed, 36 new air handlers were installed, including new air ducts in ceilings and new cooling towers. The building is built on an 8-inch thick concrete slab, with no basement and most floors are covered with carpeting. Several floor drains exist in bathrooms, janitor closets and the boiler room.

Building 776 is a one-story, 27,410 sq ft office building, currently occupied by a software development firm. The building is occupied on work days from 7 AM to 6 PM by approximately 80 people. Building 776 was built in 1959, but underwent major renovations in 2002. New windows, which do not open, and doors were installed, the interior was refinished and most floors were covered with new carpeting. Heat and outdoor air are provided through 43 heat pumps. The building is built on a 3.5 to 6-inch thick concrete slab, with no basement. Several floor drains exist in bathrooms and one crack was observed in the concrete floor near the southeastern entrance door.

The Building 775 Site plume is located downgradient and south of former maintenance facilities in Buildings 774 and 776 and former fuel pump house Building 775. Although the source has not been identified, solvent use in Building 774 was thought to be a primary source of trichloroethylene (TCE) contamination. Solvent use was widespread in these facilities in the 1950s, 1960s, and early 1970s. The contaminated aquifer comprises silty sands with an average thickness extending from 60 ft below ground surface (bgs) to 120 ft bgs, where shale bedrock is encountered.

2.1.1 Groundwater Investigation

The primary contaminant exceeding NYSDEC Class GA Groundwater Standards is TCE, with minor detections of 1,1,1-trichloroethane (TCA) and perchloroethylene (PCE). Monitoring well 775VMW-5, located near the corner of Building 776, is the only well in the maintenance area that contains significant levels of TCE (99 micrograms per liter [µg/L] in September 2004). Most of the Building 775 plume appears to have migrated south toward Landfill 6. In September 2004, the maximum groundwater TCE concentration was 134 µg/L (detected at well 775-MW20, located near the leading edge of the plume near Perimeter Road). TCE was detected at 132 µg/L (in well 775VMW-10), which is also located near the leading edge of the plume near Perimeter Road. TCE in both of these wells was detected in the bottom half of the sandy aquifer in

screened intervals from 88 to 120 ft bgs. Nearby well LF6MW-1 is screened in the upper 10 ft of the aquifer and does not have detectable TCE concentrations (FPM, February 2005). Based on the current TCE distribution, it appears that the TCE was likely spilled in the vicinity of Building 774 and has migrated southward and downward in the aquifer.

Additional sampling was performed by E&E and FPM in 2006 as part of the feasibility study for the Building 775 Site. EEEPC performed pre-design investigation (PDI) activities at the Building 775 Site starting in September 2006. First, two monitoring wells were installed (775MW-27 and -28). The wells were developed and sampled at the end of October into the beginning of November 2006. Results showed that the primary contaminant exceeding NYSDEC Class GA Groundwater Standards is TCE, with minor detections of 1,1,1-TCA and PCE. FPM performed sampling at several other monitoring wells at the Building 775 Site in order to create a complete understanding of current site conditions. The results and conclusions were reported in the Final PDI Report (EEEPC, February 2007).

A remedial action was selected through the On-base Groundwater Record of Decision (ROD) [Air Force Real Property Agency (AFRPA), December 2008] and described in the Remedial Action Work Plan (RAWP) [Parsons, July 2008]. The SVI in Buildings 774 and 776 is being managed as a separate operable unit and therefore is not included in the On-base Groundwater ROD. The remedial action is a groundwater extraction system with a discharge to an off-site treatment facility. The groundwater extraction system is designed to contain the contaminated plume and extract the contaminants from the aquifer. The start-up date of the groundwater extraction system was January 5, 2009. At this time, FPM also started sampling at Building 775 Site to monitor the performance of the installed remedy. The most recent performance monitoring sampling results have shown TCE detections up to 68 µg/L occurring in 775VMW-5 (FPM, December, 2011). This is a decrease from the September 2004 sampling event, where monitoring results from 775VMW-5 showed a TCE detection of 99 µg/L.

2.1.2 2006 Soil Vapor Intrusion Evaluation

EEEPC also performed an SVI evaluation during the PDI activities. Sub-slab sampling at the Building 775 Site indicated that chloroform and TCE were present in the sub-slab vapor at Buildings 774 and 776 at concentrations above the Air Force (AF) screening levels (FPM, October 2007). Indoor air sampling at both buildings indicated that these contaminants were present, but at concentrations below the AF screening levels. The TCE and chloroform detections were likely associated with the groundwater contamination plume located in the area. TCE has been detected in groundwater at concentrations above screening levels, while chloroform has been detected in groundwater at concentrations below screening levels. The SVI evaluation sample locations are shown on Figure 2-1 and corresponding results are provided in Table 1.

2.1.3 Building 774 Soil Vapor Intrusion Results 2008

The indoor air TCE concentrations, reported for Building 774 during the April 2008 sampling round, were two orders of magnitude higher than those reported in the 2006 sampling round. The Building 774 point of contact (Dave Perella) confirmed that renovations, performed in Building 774 between December 2007 and May 2008, included carpet glue removal through solvent use. Indoor and outdoor air samples were recollected in May 2008 in Building 774. The recollected results show that indoor air TCE concentrations were similar to levels reported in 2006 (Table 2-1). Sub-slab vapor results for Building 774 slightly decreased in comparison to 2006 results. The highest sub-slab vapor result reported in 2006 was 1,700 micrograms per cubic meter (µg/m^3) at location 774SSV-1. The highest result reported in 2008 was 590 µg/m^3 at location 774SSV-2.

In Building 774, the 2008 indoor air concentrations were within an acceptable range and did not pose any unacceptable risk to building occupants. 2008 sub-slab vapor concentrations in Building 774 exceeded AF screening levels.

2.1.4 Building 776 Soil Vapor Intrusion Results 2008

The indoor air TCE concentrations reported for Building 776 during the April 2008 sampling round were comparable to levels reported in 2006. Sub-slab vapor results for Building 776 were lower compared to 2006 results. The highest sub-slab vapor result reported in 2006 was 3,000 µg/m^3 at location 776SSV-1. The highest result reported in 2008 was 110 µg/m^3 at location 774SSV-2.

In Building 776, the 2008 indoor air concentrations were within an acceptable range and did not pose any unacceptable risk to building occupants. 2006 sub-slab vapor concentrations in Building 776 exceeded AF screening levels, however concentrations in 2008 were below screening levels.

2.2 Buildings 785 and 786 Site Location and History

Buildings 785 and 786 are located on the Apron 2 Chlorinated Plume Site (SD-52-01) at the former Griffiss AFB in Rome, NY (Figure 2-2). Buildings 785 and 786 are 28,251 sq ft, unheated airplane hangars. The buildings are used for storage by the Griffiss International Airport. The buildings are largely open with several first and second floor offices in the southwest corners of the buildings. Building 785 and 786 were built in 1959 and were taken out of service in 1995 after the former Griffiss AFB was closed. The buildings are built on a 13.5 to 14-inch thick, unsealed concrete slab comprised of numerous concrete pads installed together with areas of caulked expansion gaps. Large visible cracks in the concrete floors were repaired. Two large trenches exist in the buildings; one along the large aircraft bay doors on the southeast side of the building and a smaller trench along the overhead door on the northwest side of the

buildings. These trenches may contain several cracks that act as conduits. All heating and air handling equipment is in a state of disrepair and assumed inoperable. The buildings are poorly sealed due to broken windows, doors left ajar and holes observed in the sheet metal outer covering of the building. According to drilling logs from the site, silty sand and gravelly sands are the predominant lithology encountered. Groundwater monitoring wells are currently present in Building 785 and outside in the vicinity of both buildings.

2.2.1 Groundwater Investigation

An extensive groundwater investigation has occurred surrounding Buildings 785 and 786, which is now in the performance monitoring phase. There are three primary contaminants in the plumes that exceed NYSDEC Class GA Groundwater Standards: TCE and its breakdown products cis-1,2-dichloroethylene (DCE) and vinyl chloride (VC). The southern plume is commingled with several petroleum fuel plumes originating from Apron 2 fueling system. At locations where chlorinated solvents and fuel contaminants are commingled, significant reductive dechlorination is occurring; therefore the selected remedy is monitored natural attenuation, as stated in the On-base Groundwater ROD (AFRPA, December 2008). The SVI in Buildings 785 and 786 is being managed as a separate operable unit and therefore is not included in the On-base Groundwater ROD. Monitored natural attenuation was initiated on September 24, 2008. The most recent groundwater sampling results have shown TCE detections up to 34.8 µg/L at monitoring well 782VMW-105B, cis-1-2-DCE detections up to 43.4 µg/L at monitoring well 782VMW-78 and VC detections up to 39.5 µg/L at monitoring well 782VMW-84 (FPM, December 2011).

2.2.2 2006 Soil Vapor Intrusion Evaluation

EEEPC performed an SVI Evaluation in 2006 at the Apron 2 Chlorinated Plume Site. Buildings 782, 783, 784, 785, and 786 were evaluated. No detection exceeding screening levels was reported for Buildings 782, 783, and 784. The Nosedocks 1 and 2 ROD (AFRPA, July 2011) included the selected remedy of No Further SVI action or evaluation for these buildings. Sub-slab sampling at the Apron 2 Chlorinated Plume Site indicated that PCE, TCE and chloroform were present in the sub-slab vapor beneath Buildings 785 and 786 at concentrations above the AF screening levels. Indoor air sampling indicated that PCE and TCE were present, but at concentrations below the AF screening levels. No chloroform was reported in the indoor air. TCE was detected consistently in groundwater samples from wells within the groundwater contamination plume. PCE was never detected in groundwater. Chloroform exceedances of the NYSDEC Class GA Groundwater Standards were reported in the March 2009 sampling round in virtually all monitoring wells at Building 786. These exceedances were attributed to a reported water line break which discharged drinking water for a significant time at the site. The chloroform exceedances have shown a decreasing trend after the leak was repaired. SVI evaluation sample locations are shown on Figure 2-2 and corresponding results are provided in Table 1, SVI Results Table.

2.2.3 Building 785 Soil Vapor Intrusion Results 2008

Sub-slab sampling in 2006 and 2008 at the Apron 2 Chlorinated Plume Site indicated that chloroform and TCE were present in the sub-slab vapor beneath Building 785 at concentrations above the screening levels. Indoor air sampling indicated that these contaminants were present, but at concentrations below the screening levels.

Sub-slab vapor sampling results for the 2006 sampling event showed exceedances for TCE of 11,000 $\mu g/m^3$ at 785SSV-1. The April 2008 sampling round data were lower at this location (identical to two orders of magnitude lower) than those reported for the 2006 sampling round data. TCE exceedances of the sub-slab vapor screening levels were reported for sub-slab vapor locations 785SSV-2 and -6 at 430 and 2,200 $\mu g/m^3$, respectively.

2.2.4 Building 786 Soil Vapor Intrusion Results 2008

Sub-slab sampling in 2006 and 2008 at the Apron 2 Chlorinated Plume Site indicated that PCE, and TCE were present in the sub-slab vapor beneath Building 786 at concentrations above the screening levels; indoor air sampling indicated that these contaminants were present, but at concentrations below the screening levels.

TCE was detected beneath Building 786 at concentrations ranging from 4,700 to 81,000 $\mu g/m^3$ in 2006 and PCE was detected at 2,200 $\mu g/m^3$at location 786SSV-1. Sub-slab vapor sampling results for the April 2008 sampling round were lower but within the same order of magnitude as those reported for the 2006 sampling round. Only TCE exceeded the sub-slab vapor screening levels at sampling locations 1, 2, 5, and 6 locations for the 2008 sampling ranging from 1,500 to 19,000 $\mu g/m^3$. Generally, small petroleum detections were reported in all samples, but none exceeded the sub-slab screening levels.

This page is intentionally left blank.

3 INSTALLATION OF SSVM SYSTEMS

3.1 Buildings 774 and 776 System

The Buildings 774 and 776 system is composed of four horizontal wells with a total combined screen length of 360 ft performing at a flow rate of 1 actual cubic feet per minute (acfm) per foot of screen. Building 774 has three horizontal wells with a total combined screen length of 180 ft and Building 776 has one horizontal well with a screen length of 180 ft. This system is illustrated on Figure 3-1.

3.1.1 Horizontal Wells

Initially, for this SSVM design, three horizontal wells were installed. During installation of these horizontal wells, rod number (15 ft increments), depth and pitch were recorded to track the spatial location of the borehole. The tracker used was a DitchWitch® 752, which operates electronically with a beacon placed in the rod head of the downhole tooling. The tracker operator followed the borehole path and communicated with the drill rig operator to confirm correct spatial location. The tracker operator positioned himself directly above the beacon based on signal strength. The borehole path location was marked on the floor at the end of each rod for visual confirmation. Adjustments made by the drill rig operator to the downhole tooling included varying pitch and direction.

The two horizontal wells in Building 774 (774SSVM-1 and -2) were constructed of a 80 ft screen at a depth of 6 ft and 8 ft bgs, respectively, of 0.010-slot size, 4-inch diameter Schedule 80 poly vinyl chloride (PVC). The wells were installed March 14 through April 14, 2011, using a horizontal directional drilling pull method.

During the installation of 774SSVM-2, horizontal drilling mud was pushed through small cracks in the foundation of Building 774, where a former garage door had been removed and rebuilt as a structural wall. Pressurized drilling mud appeared to have followed a preferential pathway pushing vertically into the southern wall of Building 774, then quickly spilling into the room above the horizontal boring. Once building tenants were alerted to the presence of drilling mud, drilling was stopped immediately. Following identification of the drilling mud, cleanup began including removal of the drywall interior and cleanup of all drilling fluid within the room. Following cleanup, the room was restored to previous conditions including new drywall and painting. Also the cracks in the foundation were sealed using self-leveling polyurethane construction sealant. Additionally, during the installation of horizontal well 774SSVM-2, several drilling attempts were executed to navigate a straight borehole path. Additional attempts may have flooded the adjacent unused borings with large amounts of drilling mud. This loss of drilling mud to the formation may have negatively affected porosity. Both of these events influenced significant vacuum loss and underperformance of the horizontal well.

An additional horizontal well (774SSVM-3) was installed using a pneumatic bullet on October 14, 2011 to compensate for underperformance of 774SSVM-2, which was observed and documented in Section 4 – Evaluation of Performance. 774SSVM-3 was constructed of a 20 ft screen at a depth of 6 ft bgs, of 0.010-slot size, 2-inch diameter Schedule 40 PVC. 774SSVM-3 has an individual well valve that is installed offset with a tee fitting from 774SSVM-2. This smaller well (774SSVM-3) operates together with the larger well (774SSVM-2) to achieve maximum influence in the southwestern corner of Building 774 where insufficient well flow and sub-surface response had minimized system effectiveness.

The horizontal well in Building 776 (776SSVM-1) was constructed of a 180 ft screen at a depth of 7 ft bgs, of 0.010-slot size, 4-inch diameter Schedule 80 PVC. The well was installed March 14 through April 14, 2011, using directional drilling pull method. Figure 3-2, 3-3 and 3-4 show a cross sectional view of the borehole path of horizontal wells 774SSVM-1, -2 and 776SSVM-1, respectively. Figure 3-5 shows a presumed cross sectional view of 774SSVM-3.

Once installation was completed the wells were developed (except 774SSVM-3 which was a pneumatic installation) using high pressure water and a cleaning solution as described in the SSVM Design WP (FPM, February 2011). The volume of solution each well received was a mixture of 1,000 gallons of flush water and Bentonite Mud Remover. Approximately 2,400 gallons of development water was surface discharged at the site. Returned development water was surface discharged at the site location based on prior development water sampling results acquired at Buildings 785 and 786 which showed all chlorinated solvents below reporting limits. Prior sampling results reported all chlorinated solvents below reporting limit. Therefore approximately 2,400 gallons of development water was surfaced discharged. A photo log to document installation is located in Appendix A.

3.1.2 Blower and Accessories

The horizontal extraction wells (774SSVM-1, -2, -3 and 776SSVM-1) were connected in line with a regenerative blower, including all blower components. The blower model is capable of achieving a maximum flow rate of 600 standard cubic feet per minute (scfm) and a maximum vacuum of 106 inches of water gauge (in w.g.). Blower components included control panel, vacuum relief valve, air dilution valve with filter, vacuum and temperature gauges, flow meter, in line filter, muffler, and 50 gallon moisture knockout tank. The blower and accessories were built by Schrader Environmental Services, Inc. Additionally, FPM installed a heat exchanger in line with the blower system in order to cool the air below 100 degrees Fahrenheit (maximum optimal temperature for carbon adsorption). A schematic of the blower system is included as Figure 3-6.

3.1.3 Vapor Monitoring Points

The sub-slab VMPs were installed as described in the SSVM Design WP (FPM, February 2011), where they were strategically placed to monitor effective ROI and vapor transport and mitigation. In Building 774, three sub-slab VMPs were installed, 774VMP-1, -2, and -3 which contain one interval less than a foot beneath the sub-slab. 774VMP-1 is located 30 ft off axis of horizontal well 774SSVM-2 and approximately 25 ft off axis of horizontal well 774SSVM-3, at the beginning of the well screen. 774VMP-2 is located in-between horizontal well 774SSVM-1 and -2, at approximately 15 ft off axis, in the middle of the well screen. 774VMP-3 is located 45 ft off axis of horizontal well 774SSVM-1, at the end of the well screen. Building 776 also has three sub-slab VMPs, 776VMP-1, -2 and -3. These VMPs are located 30 ft off axis at the end of the well screen, 35 ft off axis in the middle of the well screen, and 45 ft off axis at the beginning of the well screen, respectively.

3.1.4 Vapor Treatment

The regenerative blower was connected in line with a vapor-after-treatment system consisting of 140 pounds of GAC containerized in an air purification canister. The GAC was used to remove chlorinated solvents in the vapor phase. The calculated life span of 140 pounds of GAC was 2,208 days as referenced in the SSVM Design WP (FPM, February 2011). This calculation was based on the flow rate of the SSVM system, the adsorption capacity of the GAC and the combined chlorinated solvent concentrations from the most contaminated locations in Buildings 774 and 776 during the April 2008 sampling round.

3.1.5 Site Restoration

Buildings 774 and 776 are office buildings located in the portion of the former Griffiss AFB which is now a technology park. Therefore adequate site restoration was required including backfill, grading and seeding of all disturbed areas, construction of a fence surrounding the blower housing, paving of destroyed asphalt parking areas and installation of manholes to cover the ends of the horizontal wells. Photo number 22 in Appendix A, photo log, illustrates the site after restoration.

3.2 Buildings 785 and 786 System

The Buildings 785 and 786 system is composed of two horizontal wells with a total combined screen length of 300 ft performing under a flow rate of 1 acfm per foot of screen. Building 785 has one horizontal well with a screen length of 140 ft and Building 786 has one horizontal well with a screen length of 160 ft. This system is illustrated on Figure 3-7.

3.2.1 Horizontal Wells

For this SSVM design, two horizontal wells were installed. The horizontal well in Building 786 (786SSVM-1) was constructed of a 160 ft screen at a depth of 10 ft bgs, of 0.010-slot size, 3-inch diameter Schedule 40 PVC. The well was installed November 15 through November 23, 2010, using directional drilling pull method. Horizontal well 786SSVM-1 was installed as part of the pilot study and was also discussed in the Pilot Study Report (FPM, May 2011), located in Appendix G. The horizontal well in Building 785 (785SSVM-1) was constructed of a 140 ft screen at a depth of 8 ft bgs, of 0.010-slot size, 3-inch diameter Schedule 40 PVC. The well was installed February 15 through 28, 2011, using directional drilling pull method.

During installation of both horizontal wells, rod number (15 ft increments), depth and pitch were recorded to track the spatial location of the borehole. The tracker used was a DitchWitch® 752, which operates electronically with a beacon placed in the rod head of the downhole tooling. The tracker operator followed the borehole path and communicated with the drill rig operator to confirm correct spatial location. The tracker operator positioned himself directly above the beacon based on signal strength. The borehole path location was marked on the floor at the end of each rod for visual confirmation. Adjustments made by the drill rig operator to the downhole tooling included varying pitch and direction. Figure 3-8 and 3-9 shows a cross sectional view of the borehole path of horizontal well 786SSVM-1 and 785SSVM-1, respectively.

Once installation was completed the wells were developed using high pressure water and a cleaning solution as described in the SSVM Design WP (FPM, February 2011). The returned development water was sampled for full list volatile organic compounds (VOCs). The result data attached in Appendix B shows all chlorinated solvent results below the reporting limit. Therefore, Rome Water Pollution Control Facility (RWPCF) was contacted to receive approval for discharge into the sanitary sewer system. The discharge event for 786SSVM-1 occurred over the course of 4 days (December 16, 17, 20, and 21, 2010) totaling 3,500 gallons of development water. The first discharge event for 785SSVM-1 occurred on February 23, 2011 totaling 300 gallons of development water. The second discharge event occurred on March 30, 2011 totaling 500 gallons of development water. The second discharge event occurred when horizontal well 785SSVM-1 was redeveloped. This well was under performing during the initial start-up. The underperformance is discussed below in Section 4 – Evaluation of Performance. A photo log to document installation is located in Appendix A.

3.2.2 Blower and Accessories

The horizontal extraction wells (785SSVM-1 and 786SSVM-1) were connected in line with a regenerative blower, including all blower components. The blower model is capable of achieving a maximum flow rate of 420 scfm and a maximum vacuum of 110 in w.g. Blower components included control panel, vacuum relief valve, air dilution valve with filter, vacuum and temperature gauges, flow meter, in line filter, muffler, and 60 gallon moisture knockout tank.

The blower and accessories were built by Air Energy, Incorporated. Additionally, FPM installed a heat exchanger in line with the blower system in order to cool the air below 100 degrees Fahrenheit (maximum optimal temperature for carbon adsorption). A schematic of the blower system is shown in Figure 3-10.

3.2.3 Vapor Monitoring Points

The VMPs for Building 786, installed during the pilot study and documented in the Pilot Study Report (FPM, May 2011) located in Appendix G, were strategically placed on January 13 through 14, 2011, to assist the ROI test, where 786VMP-1, -2 and -3 were respectively 15 ft, 30 ft and 45 ft off the 786SSVM-1 well axis with design placement considering the middle of the well screen, beginning of the well screen and end of the well screen, respectively. The VMPs contain three intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs) and a deep (10 to 10.5 ft bgs).

Building 785 utilized one existing VMP installed during the pilot study, 785VMP-2. This VMP is located 15 ft off axis at the beginning of the well screen. The VMP contains three intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs) and a deep (10 to 10.5 ft bgs). Two additional sub-slab VMPs were installed to assist the full scale SSVM design. 785VMP-4 and 785VMP-5 were installed 30 ft and 60 ft off axis, in the middle and the end of the well screen, respectively. The sub-slab VMPs contains one interval less than 1 foot beneath the sub-slab.

785VMP-5 was originally installed south of horizontal well 785SSVM-1. During baseline sampling in Building 785, retaining water was observed at this location. Sub-slab VMP installation utilized a 4-inch diameter concrete core saw to advance an open hole, where water was used as lubrication for the cutting. This water most likely retained in the hole and therefore the sampling location was undermined. A new location was installed north of the horizontal well. A baseline sample was not collected at 785VMP-5, and the original location was never sampled.

3.2.4 Vapor Treatment

The regenerative blower was connected in line with a vapor-after-treatment system comprising of two air purification canisters each containing 140 pounds of GAC. The GAC was used to remove chlorinated solvents in the vapor phase. The calculated life span of 280 pounds of GAC was 162 days as referenced in the SSVM Design WP (FPM, February 2011). This calculation was based on the flow rate of the SSVM system, the adsorption capacity of the GAC and the chlorinated solvent concentration from the influent sample collected on January 21, 2011 during the pilot study at Building 786 (FPM, May 2011).

This page is intentionally left blank.

4 PERFORMANCE EVALUATION

The SSVM design focused on the soil vapor pathway of chlorinated solvent contamination in the vicinity of Buildings 774, 776, 785 and 786 associated with the Building 775 Site (SD-52-02) and the Apron 2 Chlorinated Plume Site (SD-52-01). This section of the report evaluates the performance criteria used to meet the objectives of the SSVM design. The overall performance-based objective is to provide effective SSVM to eliminate potential harm to human health and the environment due to chlorinated solvent vapors.

4.1 Buildings 774 and 776 System

4.1.1 Stepped Rate Test

The stepped rate test was performed on June 3, 2011 and the field forms are attached in Appendix C. The stepped rate test was performed in accordance with procedures specified in the USACE, Engineering Manual 1110-1-4001 (USACE, June 2002). This test is performed to determine the relationship between applied vacuum and the resulting flow rate from an extraction well. This data assists in the design and performance of blower selection to establish the vacuum level needed to achieve subsurface flow.

The results from the stepped rate test are shown in the graph, Figure 4-1. The graph depicts the three horizontal wells' vacuum versus flow rate, where all three horizontal wells were tested simultaneously with fully opened valves. 774SSVM-1 minimum flow rate was 99 acfm with a vacuum of 11 in w.g. The minimum flow rate was obtainable when the air dilution valve was fully opened. The valve was then closed with 1/6 turn revolutions each step with a total of 1 complete turn. When the valve was fully closed the air flow rate directly from subsurface flow was the maximum achievable at 156.5 acfm, with a vacuum of 17 in w.g. 774SSVM-2 minimum and maximum flow rate was 0 acfm, with a minimum vacuum of 12 in w.g. and a maximum vacuum of 18 in w.g. 774SSVM-2 did not have an observed flow rate within the well. 776SSVM-1 minimum flow rate was 141.3 acfm with a minimum vacuum of 10 in w.g. The maximum flow rate was 210 acfm with a maximum vacuum of 16 in w.g.

Figure 4-2 depicts the specific capacity of 774SSVM-1, -2 and 776SSVM-1. The specific capacity evaluates well efficiencies at various vacuum/flow conditions. The flow rate was divided by the wellhead vacuum. The downward slope of the curve illustrated on Figure 4-2 depicts the frictional loss in the screen due to vapor velocity. The frictional loss is expected to become greater as vacuum increases.

Due to horizontal well 774SSVM-2 observed underperformance, additional development procedures were initiated. The first development procedure was to run 774SSVM-2 horizontal well alone. During this operation, the blower system removed over 16 gallons of development water through extraction. Eventually, the maximum vacuum of the blower system was unable to

remove additional development water. Development water in the horizontal well (observed through gurgling noise) was monitored to identify when normal system operation was achieved. Next, a vacuum truck was employed on two separate occasions in efforts to achieve a higher vacuum than what was capable of the blower system. The vacuum truck connected in line with a 2 inch diameter hose to the 4 inch diameter horizontal well with a maximum vacuum of 245 in w.g., which was unable to vacuum additional development water. As a result, an additional horizontal well 774SSVM-3 was installed, which is discussed in Section 3.1.1 – Horizontal Wells.

The stepped rate test was then re-performed with the additional horizontal well 774SSVM-3 on November 11, 2011. The results of the test are shown in the graph, Figure 4-1, which is coupled with the previous results from June 3, 2011, and field forms are located in Appendix C. The graph depicts the four horizontal wells' vacuum versus flow rate, where all four horizontal wells were tested simultaneously with fully opened valves. 774SSVM-1 minimum flow rate was 98.8 acfm with a vacuum of 17 in w.g., and the maximum flow rate was 182.8 acfm, with a vacuum of 28 in w.g. 774SSVM-2, and -3 minimum combined flow rate was 31.2 acfm, with a minimum vacuum of 12 in w.g. and a maximum combined flow rate of 69.2 acfm with a vacuum of 22 in w.g. 776SSVM-1 minimum flow rate was 120.8 acfm with a minimum vacuum of 19 in w.g., and the maximum flow rate was 188.5 acfm with a maximum vacuum of 31 in w.g. The results of the re-performed stepped rate test show an increase in vacuum for all wells, and an increase in flow rate for 774SSVM-1, as well as an increase in flow rate for 774SSVM-2 combined with the new horizontal well, 774SSVM-3. Horizontal well 776SSVM-1 showed a decrease in flow rate, likely attributed to a balanced total flow rate of the system. Figure 4-2 depicts the re-performed stepped rate test specific capacity of 774SSVM-1, -2, -3 and 776SSVM-1.

4.1.2 Vacuum Radius of Influence Test

The vacuum ROI test consisted of field measurements at varying locations throughout the buildings' sub-slab to determine the outer boundaries where sufficient vacuum could be observed. A typical guidance value used for determining sufficient vacuum is 0.1 in w.g, where this amount of vacuum will enhance volatilization and extraction of the contaminants in the soil. This guidance value is referenced in the USACE Engineering Manual 1110-1-4001 (USACE, June 2002).

The ROI test was performed on 774SSVM-1, -2 and 776SSVM-1 on June 6, 2011, and field forms are located in Appendix C. The ROI test was performed as a constant rate test. The constant rate was measured at each well head and recorded. Pre-determined constant rates (1 acfm per foot of well screen) were achieved by balancing valves (774SSVM-2 was completely opened due to underperformance, while the other two horizontal well valves were slightly closed). 774SSVM-1 had a flow rate of 97 acfm and a vacuum of 35 in w.g. 774SSVM-2 had a flow rate of 97 acfm and a vacuum of 34 in w.g. 776SSVM-1 had a flow rate of 168 acfm and a vacuum of 35 in w.g. The sub-slab VMPs were used as vacuum measurement points, where a

Magnehelic® gauge was used for vacuum readings. For each test the vacuum was measured incrementally with time. Figure 4-3 (Building 774) and Figure 4-4 (Building 776) depict the results from the ROI test.

ROI test in Building 774 does not show sufficient vacuum at 774VMP-1 and -3 (Figure 4-3). 774VMP-1 is located next to the underperforming well 774SSVM-2. After the additional well was installed (774SSVM-3) vacuum measurement were observed in 774VMP-1 at 0.2 in w.g., which is a sufficient vacuum. For 774VMP-3, it has been determined that vacuum measurements are insufficient at this point because it is the worst case scenario installed at the end of the 774SSVM-1 well screen with the greatest distant off axis. This point was reinstalled to ensure it was working properly. When the point was reinstalled, it was drilled 6 inches deeper. A vacuum measurement was recorded once the new point was completed at 0.05 in w.g. This measurement is half the recommended sufficient vacuum.

ROI test in Building 776 does not show sufficient vacuum at 776VMP-2 (Figure 4-4). This point is 35 ft off the middle of the well axis, and is not the worst case scenario. Therefore it is assumed that the structural foundation and/or preferential paths are restricting vacuum in this location.

4.1.3 Vapor Monitoring Point Sub-Slab Sampling

The SSVM Design WP (FPM, February 2011) specifies a set of sampling events to evaluate SSVM, which consist of a baseline event and quarterly monitoring. All results are located in Table 2, SSVM Performance Monitoring Results Table. A baseline sample was collected prior to system start-up at each newly installed VMP location. This baseline sample provides comparison data to the sampling events. The baseline sampling event was on May 4, 2011 with results of TCE above the sub-slab vapor screening level at 774VMP-1, -2, and 776VMP-3 (580 µg/m^3, 2,900 µg/m^3, and 830 µg/m^3, respectively). 774VMP-3, 776VMP-1 and -2 had results for TCE below sub-slab vapor screening levels (300 µg/m^3, 21 µg/m^3, and 360 µg/m^3).

In addition to sub-slab sampling, indoor and outdoor air quality samples were also collected. The indoor air results in Building 774 for TCE was 4.4 µg/m^3, and the indoor air results in Building 776 for TCE was 3.6 µg/m^3, where both results are below screening levels. One outdoor air sampled was collected between the two buildings where the result for TCE was 0.98 µg/m^3.

The 774SSVM-1, -2 and 776SSVM-1 extraction wells began consistent operation on June 6, 2011 following the ROI test. The system operated for three months and was turned off for sampling evaluation. The sampling event occurred on August 24, 2011 in Building 774 and on September 6, 2011 in Building 776. The results indicated a decreasing trend where the only VMP above screening level was 774VMP-1 for TCE at 410 µg/m^3. This VMP is located next to the underperforming well 774SSVM-2. The remaining VMPs were below screening levels,

774VMP-2 and -3 TCE concentrations were at 84 µg/m^3, and 11 µg/m^3, respectively, and 776VMP-1, -2 and -3 TCE concentrations were at 38 µg/m^3, 3.8 µg/m^3, and 10 µg/m^3, respectively.

Indoor and outdoor air quality sampling was also conducted on September 6, 2011. Building 774 was below TCE screening levels at 2.3 µg/m^3, and Building 776 was below TCE screening levels at 1.9 µg/m^3. The outdoor air quality sample collected between the two buildings had detection for TCE at 2.6 µg/m^3.

The system was shut down again after five months of operation and a sampling event took place on October 21, 2011 to evaluate the performance of the newly installed horizontal well (774SSVM-3), which had been in operation for one week, and to evaluate overall vapor mitigation at the site. This event resulted in all VMPs below screening levels. 774VMP-1, -2 and -3 had TCE concentrations at 3.7 µg/m^3, 11 µg/m^3, and 3.0 µg/m^3, respectively. 776VMP-1, -2, and -3 had TCE concentrations at non-detected, 3.7 µg/m^3, and 7.3 µg/m^3, respectively.

Indoor and outdoor air quality sampling was also conducted on October 21, 2011. Building 774 was below TCE screening levels at 0.87 µg/m^3, and Building 776 was below TCE screening levels at 0.98 µg/m^3. The outdoor air quality sample collected between the two buildings had detection for TCE at 0.60 F µg/m^3.

Figure 4-5 illustrates a decreasing trend from sub-slab sampling results. All sampling events were documented on soil gas sampling field forms and recorded on a Chain of Custody (COC) for tracking. The field forms are located in Appendix C, the raw lab data is located in Appendix D, and the validated data is located in Appendix E.

4.1.4 Vapor Treatment Sampling

The effectiveness of the horizontal extraction wells at removing soil gas vapors from the sub-surface and the ability to treat the soil gas vapors with GAC is evaluated based on influent and effluent sampling. An influent sample was collected during the initial startup of 774SSVM-1, -2 and 776SSVM-1 extraction wells, on June 6, 2011, where the sample was grabbed before GAC treatment. The influent resulted in a TCE concentration of 510 µg/m^3. An effluent sample was collected on the same date, where the sample was grabbed after GAC treatment. The analytical results indicated TCE detection at 47 µg/m^3. For the three month sampling event an influent and effluent sample were collected. The influent TCE concentration was 240 µg/m^3, and the effluent sampling concentration was 250 µg/m^3. Following this sampling event the GAC was replaced for continued vapor treatment.

Initially, the life span of 140 pounds of GAC was calculated as 2,208 days as referenced in the SSVM Design WP (FPM, February 2011). This calculation has proven to be inaccurate possibly based on varying influent concentrations and temperatures which effect adsorption rates.

Therefore as discussed in Section 4.3.1 – Operation and Maintenance, the GAC will be changed on a more frequent basis of every two months.

For disposal operations, the spent GAC is emptied into a 55-gallon drum from the air purification canister. The air purification canister is then filled with activated GAC. The 55-gallon drum containing the spent GAC is then stored for shipment to an approved GAC reactivation facility. Prior to shipment to the GAC reactivation facility, one composite sample of the spent GAC is collected and analyzed for total VOCs, toxicity characteristic leaching procedure (TCLP) VOCs, and ignitability of solids. Once the GAC reactivation facility approves the GAC sample results, the GAC is shipped to be reactivated by thermal reactivation. The documentation for GAC disposal is located in Appendix F, Operation and Maintenance Field Forms and Manuals.

After the installment of horizontal well 774SSVM-3, two influent samples were collected on October 14, 2011 to evaluate vapor extraction of the newly installed well. The first sample collected was without 774SSVM-3 influence (valve closed) and the second sample collected was with 774SSVM-3 influence. Detected TCE concentrations were 670 µg/m^3, and 1,200 µg/m^3, respectively. Sampling was also performed to see if the method used for horizontal well installment (pneumatic bullet with oil for lubrication) had any effect on vapor concentrations. Vapor concentrations which were higher than the previous sampling rounds included acetone (300 µg/m^3, and 440 µg/m^3, respectively), methyl ethyl ketone from PVC cement (300 µg/m^3, and 400 µg/m^3, respectively) and tetrahydrofuran from PVC cement (600 µg/m^3, and 770 µg/m^3, respectively).

After five months of system operation, sampling occurred on October 25, 2011. The influent sample TCE concentration was 650 µg/m^3, and the effluent sample TCE concentration was non-detect, showing adequate GAC treatment. Overall, the TCE influent concentration has remained stable through the initial, three month and five month sampling events, where Figure 4-6 illustrates this trend.

All sampling events were documented on soil gas sampling field forms and recorded on a COC for tracking. The field forms are located in Appendix C, the raw lab dated is located in Appendix D, and the validated data is located in Appendix E.

4.1.5 Long-Term Operation

As part of the SSVM System Operation and Maintenance as defined in the SSVM Design WP (FPM, February 2011), well head vacuum and flow rate readings were collected and recorded to illustrate that normal operating conditions were established within the SSVM system design criteria. The well head vacuum and flow rate has been plotted versus time and can be viewed in Figure 4-7 and Figure 4-8. In Figure 4-7, over time vacuum for all three horizontal wells show a slightly decreasing trend. In Figure 4-8, over time flow rate for all three horizontal wells varies, especially in horizontal well 774SSVM-2, where flow rate was observed at 0 acfm on June 14

and 21, 2011. Efforts to increase the flow rate in 774SSVM-2 included adjusting the individual well valves (774SSVM-2 fully opened while 774SSVM-1 and 776SSVM-2 were partially closed), running 774SSVM-2 alone, redevelopment of the well utilizing a vacuum truck and lastly installing horizontal well 774SSVM-3. The last measurement was recorded on October 17, 2011 including the newly installed horizontal well 774SSVM-3, which is incorporated with 774SSVM-2 measurement. The last measurement shows and overall decrease in vacuum and increase in flow rate which is likely attributed to the newly installed well.

4.2 Buildings 785 and 786 System

4.2.1 Stepped Rate Test

The stepped rate test was performed on May 18, 2011, and the field form is attached in Appendix C. The results from the stepped rate test are shown in Figure 4-9. The figure depicts the minimum flow rate of 785SSVM-1 at 80.4 acfm with a vacuum of 24 inch w.g. and the minimum flow rate of 786SSVM-1 at 80.9 acfm with a vacuum of 22 in w.g. This minimum flow rate was obtained when the air dilution valve on the SSVM system was completely opened. The valve was then closed with 1/2 turn revolutions each step with a total of 7 complete turns. When the valve was fully closed the air flow rate was the maximum achievable for 785SSVM-1 at 111.2 acfm with a vacuum of 43 in w.g. and for 786SSVM-1 at 124.6 acfm with a vacuum of 41 in w.g. Figure 4-10 depicts the specific capacity of 785SSVM-1 and 786SSVM-1. The downward slope of the curve is due to the frictional loss in the screen due to vapor velocity.

4.2.2 Vacuum Radius of Influence Test

The ROI test was performed on 785SSVM-1 and 786SSVM-1 initially on March 24, 2011 and then again May 19, 2011. The initial ROI test determined that horizontal well 785SSVM-1 was underperforming because the influence of the vacuum did not cover the entire sub-slab. This horizontal well was redeveloped on March 29 and 30, 2011.

The initial ROI test was performed as a constant rate test. The constant rate measured at the 785SSVM-1 well head was a flow rate of 93.5 acfm and a vacuum of 52 in w.g., and the constant rate measured at 786SSVM-1 was a flow rate of 135.0 acfm and a vacuum of 49 in w.g. The second ROI test was performed as a constant rate test. The constant rate measured at the 785SSVM-1 well head was a flow rate of 111.5 acfm and a vacuum of 40 in w.g. and the constant rate measured at 786SSVM-1 was a flow rate of 124.5 acfm and a vacuum of 42 in w.g. After the redevelopment of 785SSVM-1, vacuum decreased and the flow rate increased. The VMPs were used as vacuum measurement points, and a Magnehelic® gauge was used for vacuum readings. For each test the vacuum was measured incrementally with time. The figures, Figure 4-11 (Building 785) and Figure 4-12 (Building 786) depict the results from the ROI test.

Figure 4-11 shows the initial ROI test and the second ROI test grouped together for Building 785. The initial ROI test on Building 785 shows a vacuum at 785VMP-5 below the sufficient vacuum of 0.1 in w.g. This VMP is the worst case scenario installed at the end of the well screen off axis by 60 ft. The second ROI test shows a sufficient vacuum at all VMPs in Building 785.

Figure 4-12 depicts the ROI test performed for Building 786, where the initial ROI test and the second ROI test are grouped together. 786VMP-1 and -3 show sufficient vacuum for both tests. 786VMP-2, located at the beginning of the well screen, 30 ft off axis, did not show sufficient vacuum (0.05 in w.g.). This point also did not show sufficient vacuum during the pilot study as reported in the Pilot Study Report (FPM, May 2011), located in Appendix G. An additional point was installed next to 786VMP-2 using the method described for sub-slab VMPs in the SSVM Design WP (FPM, February 2011). The additional point did not show a sufficient vacuum measurement, therefore it has been determined that this portion of Building 786 sub-slab is not seeing sufficient vacuum influence due to structural constraints and/or preferential pathways.

It is believed that an appreciable amount of indoor air is being pulled into the subsurface via large cracks and possible unidentified conduits in the hangar floors of Building 785 and 786. These buildings are selected for refurbishment by the county and are expected to have the building floors completely refinished and sealed as part of the building restoration.

4.2.3 Vapor Monitoring Point Sub-Slab Sampling

The SSVM Design WP (FPM, February 2011) specifies a set of sampling events to evaluate SSVM, which consist of a baseline event and quarterly monitoring. All results are located in Table 2, SSVM Performance Monitoring Results Table. A baseline sample was collected prior to system start-up at each newly installed VMP location. This baseline sample provides comparison data to the sampling events. The baseline sampling event in Building 785 was on March 18, 2011 and the baseline sampling event in Building 786 was on January 18, 2011 (part of the pilot study). In Building 785 there was a TCE exceedance in 785VMP-4 at 720 $\mu g/m^3$. 785VMP-5 was not sampled due to water observed in the point. In Building 786 there were TCE exceedances in 786VMP-1, -2 and -3 at 4,900 $\mu g/m^3$, 740 $\mu g/m^3$, and 2,200 $\mu g/m^3$, respectively. There was also a PCE exceedance in 786VMP-1 at 140 $\mu g/m^3$, and chloroform exccedances in 786VMP-2 and -3, at 620 $\mu g/m^3$, and 47 $\mu g/m^3$, respectively.

The 785SSVM-1 and 786SSVM-1 began consistent operation on May 19, 2011. After three months of the SSVM system operating, the system was shut off and the second sampling event occurred on August 24 and 25, 2011. The only TCE exceedance observed in both buildings was at 785VMP-5 (610 $\mu g/m^3$). All other points show a decreasing TCE trend and were below screening levels. The only other exceedance was observed in 786VMP-2 for chloroform at 100 $\mu g/m^3$.

Indoor and outdoor air quality sampling was also conducted on August 24, 2011. Building 785 was below TCE screening levels at 1.1 µg/m^3, and Building 786 was below TCE screening levels at 2.5 µg/m^3. The outdoor air quality sampled collected between the two buildings TCE detection was at 0.82 µg/m^3.

The system was shut down again after five months of operation and a sampling event took place on October 24, 2011 where results showed all VMPs below TCE sub-slab screening levels. 785VMP-2, -4, and -5 TCE concentrations were 8.9 µg/m^3, 33 µg/m^3, and 140 µg/m^3, respectively. 786VMP-1, -2 and -3 TCE concentrations were 49 µg/m^3, 140 µg/m^3, and 23 µg/m^3, respectively. The only exceedance for all VMPs was located in 786VMP-2 for chloroform at 72 µg/m^3.

Indoor and outdoor air quality sampling was also conducted on October 24, 2011. TCE was not detected at either Building 785 or Building 786. The outdoor air quality sampled collected between the two buildings had a TCE detection at 0.82 µg/m^3.

Figure 4-13 shows a decreasing trend from sub-slab sampling results. All sampling events were documented on soil gas sampling field forms and recorded on a COC for tracking. The field forms are located in Appendix C, the raw lab data is located in Appendix D, and the validated data is located in Appendix E.

4.2.4 Vapor Treatment Sampling

An influent sample was collected during the initial startup of 785SSVM-1 and 786SSVM-2 extraction wells, on May 19, 2011, where the sample was grabbed before GAC treatment. The influent resulted in a TCE concentration of 3,500 µg/m^3. An effluent sample was collected on the same date, where the sample was grabbed after GAC treatment. The analytical results indicated TCE detection at 1.3 µg/m^3. For the three month sampling event an influent and effluent sample were collected. The influent TCE concentration was 520 µg/m^3, and the effluent sampling concentration was 570 µg/m^3. Following this sampling event the GAC was replaced for vapor treatment.

Initially, the two GAC drum life spans were calculated as 162 days, as referenced in the SSVM Design WP (FPM, February 2011). This calculation has proven to be inaccurate possibly based on varying influent concentrations and temperatures which effect adsorption rates. Therefore as discussed in Section 4.3.1 – Operation and Maintenance, the GAC drum will be changed on a more frequent basis of every two months.

After five months of system operation, sampling occurred on October 25, 2011 where TCE influent concentration was 740 µg/m^3, and the effluent TCE concentration was 0.66 F µg/m^3, showing adequate treatment with GAC. Overall the influent TCE concentration has shown a

decreasing trend from the initial to the three month sampling event, and then a stable trend from the three month to the five month sampling event, which is depicted in Figure 4-14.

All sampling events were documented on soil gas sampling field forms and recorded on a COC for tracking. The field forms are located in Appendix C, the raw lab dated is located in Appendix D, and the validated data is located in Appendix E.

4.2.5 Long-Term Operation

As part of the SSVM System Operation and Maintenance as defined in the SSVM Design WP (FPM, February 2011), well head vacuum and flow rate readings were collected and recorded to illustrate that normal operating conditions were established within the SSVM system design criteria. The well head vacuum and flow rate has been plotted versus time and can be viewed in Figure 4-15 and Figure 4-16. In Figure 4-15, vacuum for the two horizontal wells show a stable trend over time. In Figure 4-16, flow rate for the two horizontal wells show a stable trend over time.

4.3 Conclusion and Recommendations

The effectiveness of the SSVM Systems Completion has been evaluated based on the design performance, ability to depressurize building slabs, transport and mitigation of chlorinated solvent vapors and SVE and treatment. Each criterion has been met except for the ability to depressurize the building slabs and SVE and treatment. The target vacuum was 0.1 in w.g., where the following VMPs did not observe this target vacuum; 774VMP-3 with a vacuum of 0.025 in w.g., 776VMP-2 with a vacuum of 0.05 in w.g. and 786VMP-2 with a vacuum of 0.05 in w.g. However, through the evaluation of transport and mitigation of chlorinated solvent vapors, each of these points showed decreasing TCE trends from the baseline to the three month sampling event. At the point of the five month sampling event, all sampling locations showed TCE concentrations below sub-slab screening levels.

The effectiveness of SVE and treatment was determined through influent vapor sampling from the extraction wells and effluent vapor sampling after GAC treatment. Through influent sampling it has been proven that the SSVM systems at both Buildings 774 and 776 and Buildings 785 and 786 have effectively extracted chlorinated solvent vapors. Treatment was effective during the initial startup and five month sampling event at both Buildings 774 and 776 and Buildings 785 and 786. Treatment was not effective during the three month sampling event at both Buildings 774 and 776 and Buildings 785 and 786. Treatment was not effective because initial GAC life span calculations were proven to be incorrect through influent and effluent sampling. These calculations were inaccurate based on varying influent concentrations and temperatures which effect adsorption rates. The problem has been corrected by changing the GAC on a more frequent basis.

Overall, the performance of the SSVM systems at both Buildings 774 and 776 and Buildings 785 and 786 has demonstrated effective mitigation of SVI. This data will be used for the SVI remedy selection.

4.3.1 Operation and Maintenance

The Buildings 774, 776, 785 and 786 sites are going to continue SSVM under the Performance Based Remediation Task Order for the former Griffiss AFB, Contract # FA8903-10-D-8595, Delivery Order # 0014. The SSVM systems will be operated and maintained as long as site conditions necessitate SSVM. Operation and Maintenance tasks are provided in Table 3, Buildings SSVM Systems Operation and Maintenance. The Operation and Maintenance forms and individual equipment manuals are provided in Appendix F. During the first year of long term operation, the operation and maintenance schedule for indoor, outdoor, sub-slab and influent sampling will occur semi-annually, during the cooling and heating seasons (summer and winter). Effluent sampling will occur monthly to ensure proper treatment. Based on monthly sampling results an accurate schedule for GAC replacement can be made. During this period, all system operation and maintenance data will be submitted quarterly. If all sampling results from the first year of long-term operation are below screening levels, then the systems' Operation and Maintenance will be re-evaluated.

5 REFERENCES

Air Force Real Property Agency, *Final Record of Decision for Nosedocks 1 and 2,* Former Griffiss Air Force Base, Rome, New York, July 2011.

Air Force Institute for Operational Health, *Guide for the Assessment of the Vapor Intrusion Pathway,* IOH-RS-BR-SR-2206-0001, February 2006.

Air Force Real Property Agency, *Final Record of Decision for the On-base Groundwater AOC (SD-52),* Former Griffiss Air Force Base, Rome, New York, December 2008.

Ecology & Environment, Inc., *Final Soil Vapor Intrusion Survey Data Summary Report for Apron 2, Building 817/WSA, Building 775, and AOC 9,* Former Griffiss Air Force Base, Rome, New York, August 2007.

FPM Remediations, Inc., *Draft-Final Work Plan for Sub-Slab Vapor Mitigation Pilot Study,* Former Griffiss Air Force Base, Revision 1.0, October 2010.

FPM Remediations, Inc., *Draft Report Sub-Slab Vapor Mitigation Pilot Study,* Former Griffiss Air Force Base, Revision 0.0, May 2011.

FPM Remediations, Inc., *Draft Work Plan for Sub-Slab Vapor Mitigation Design,* Former Griffiss Air Force Base, Revision 0.0, February 2011.

FPM Group Ltd, *Assumptions and Screening Levels for Soil Vapor Intrusion Evaluation, Industrial/Commercial Scenario,* Revision 0.1, October 2007.

FPM Group Ltd, *Final Work Plan for Soil Vapor Intrusion Sampling at Multiple Sites*, former Griffiss Air Force Base, Revision 0.0, April 2008.

FPM Group Ltd, *Draft Soil Vapor Intrusion Evaluation, Soil Vapor Intrusion Sampling Buildings 774, 776, 785, 786 and 817,* Former Griffiss Air Force Base, Revision 0.0, July 2008.

FPM Group Ltd., *Field Sampling Plan,* Long Term monitoring Program, former Griffiss Air Force Base, Revision 3.0, March 2005.

FPM Group Ltd., *Final Spring 2010 Annual Report Performance Monitoring at On-Base Groundwater Area of Concern,* Former Griffiss Air Force Base, Rome, NY, December 2011.

New York State Department of Health, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public, Final*, October 2006.

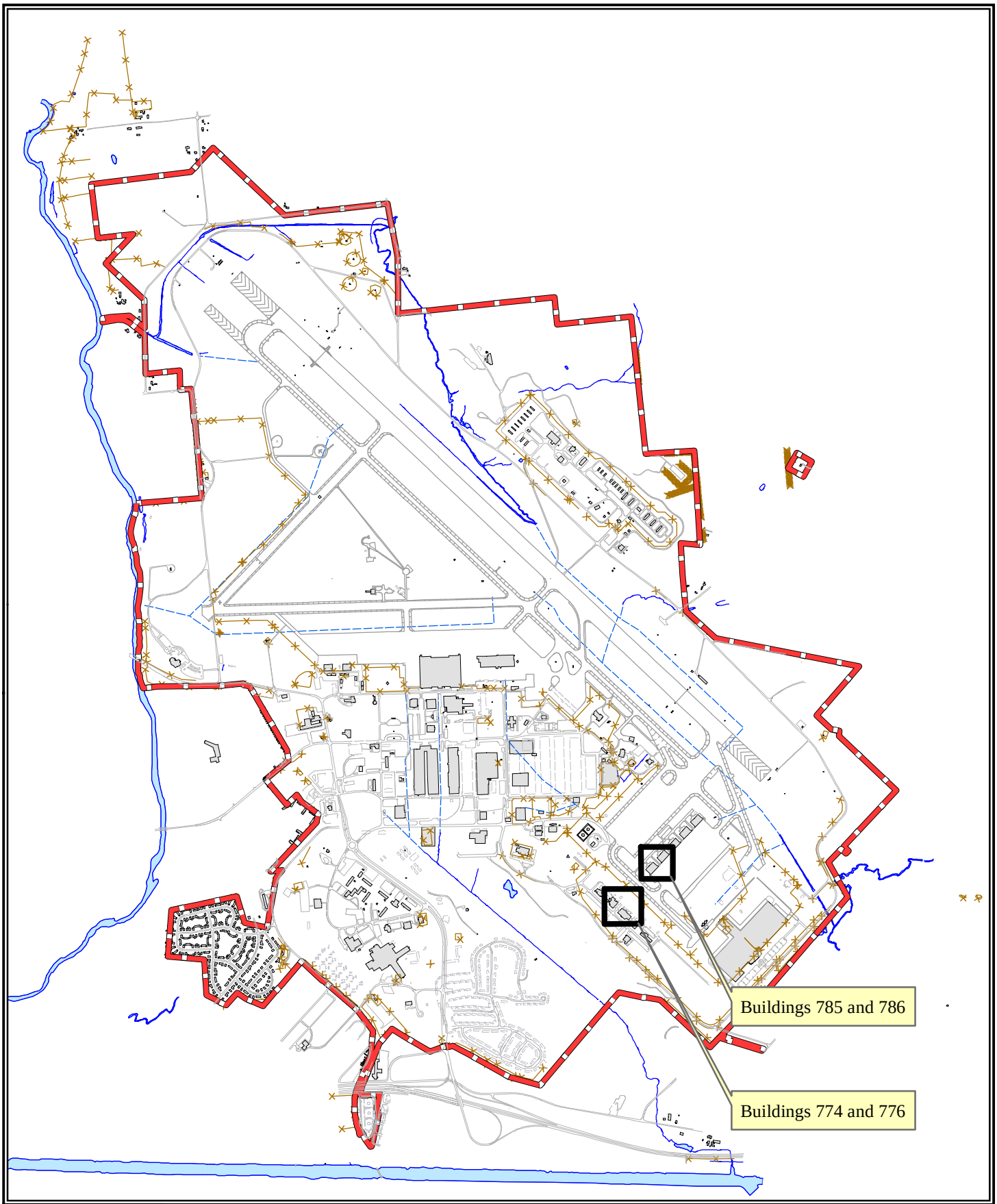
Parsons, Final Remedial Action Work Plan (RAWP), On-Base Groundwater Remediation Work Plan, Former Griffiss Air Force Base, Rome, NY, July 2008.

United States Environmental Protection Agency, *How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites: A Guide for Corrective Action Plan Reviewers*, October 1994.

United States Environmental Protection Agency, *Soil Vapor Extraction Technology: Reference Handbook.* Cincinnati, OH: Office of Research and Development. EPA/540/2-91/003, 1991.

United States Army Corps of Engineers, *Soil Vapor Extraction and Bioventing Engineer Manual (EM-1110-1-4001)*, 3 June 2002.

Figures



Site Location

Key to Features

- Road
- Airfield
- Storm Drain
- Surface Water
- Fenceline
- Base Boundary
- Demolished Facilities
- Existing Facilities

1,200 600 0 1,200 2,400
Feet

FIGURE 1-1
SSVM Site Location Map

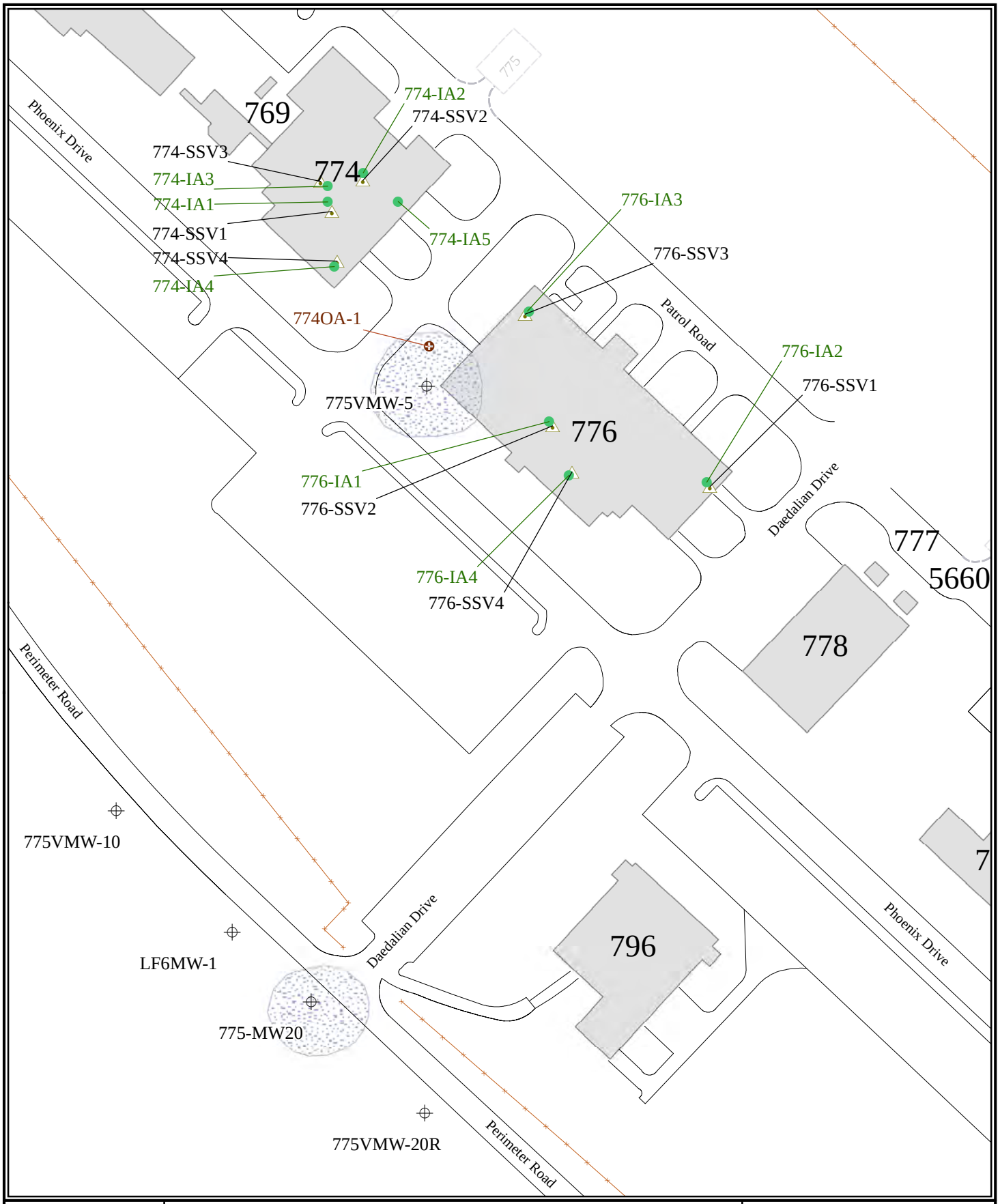
N

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

February 22, 2011

FPM

Y:\GIS_Projects\Griffiss\Projects\40-07-45\Conc_Design\Fig_1_2_SSVM_SiteLocMap.mxd



Site Location

Key to Features

- Indoor Air Sample Location
- Outdoor Air Sample Location
- Sub-Slab Vapor
- Monitoring Well
- Existing Road
- Demolished Road
- TCE 50 µg/L October 2010
- Demolished Facility
- Existing Facility

FIGURE 2-1
Buildings 774 and 776
Site Features

0 50 100 200
Feet

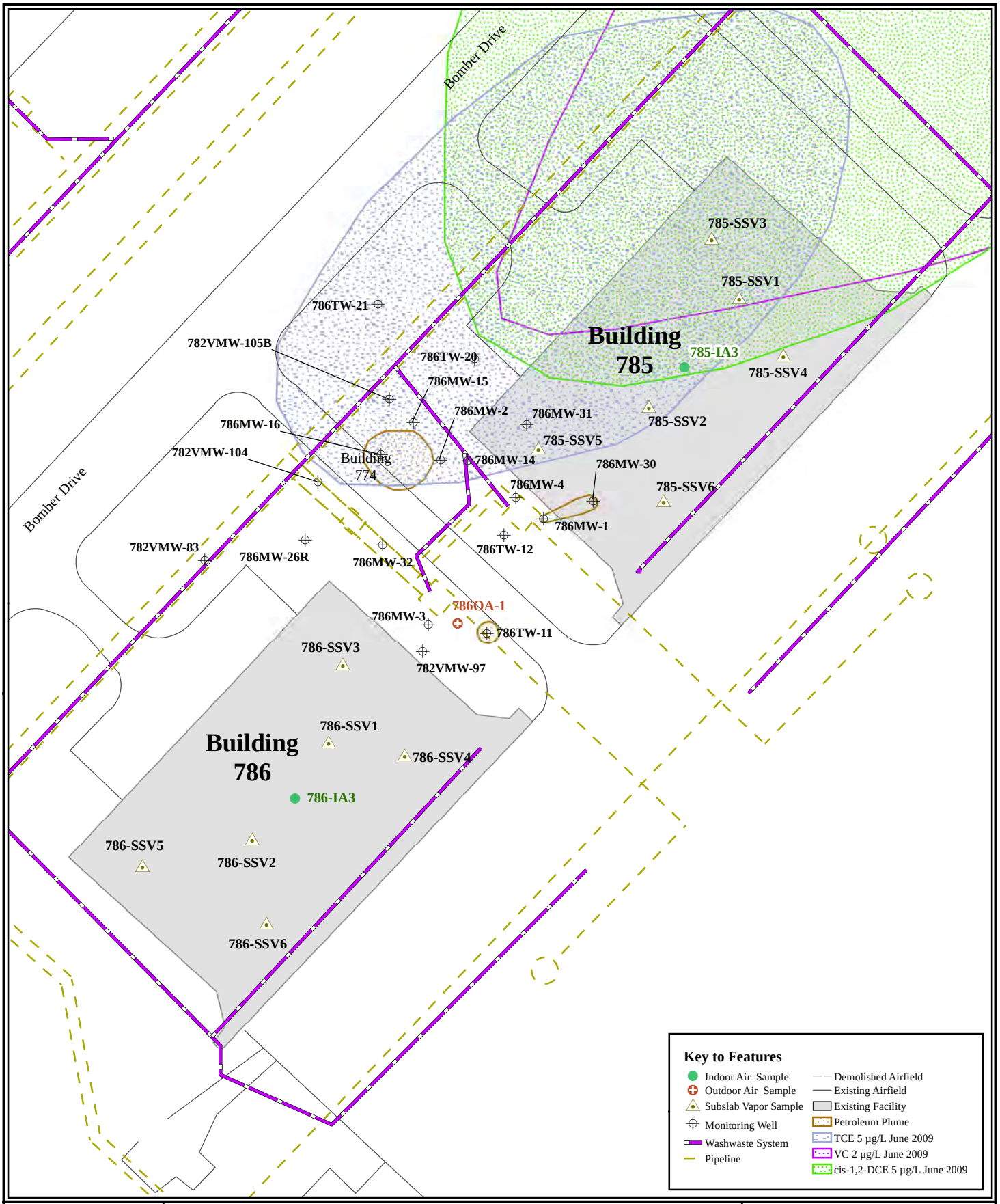
N

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

October, 2011

FPM

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Full_Scale_WP\Report\Fig_2_1_774_776_Site_Features.mxd



Site Location

FIGURE 2-2
BUILDING 785 & 786
SITE FEATURES

0 25 50 100 150
Feet

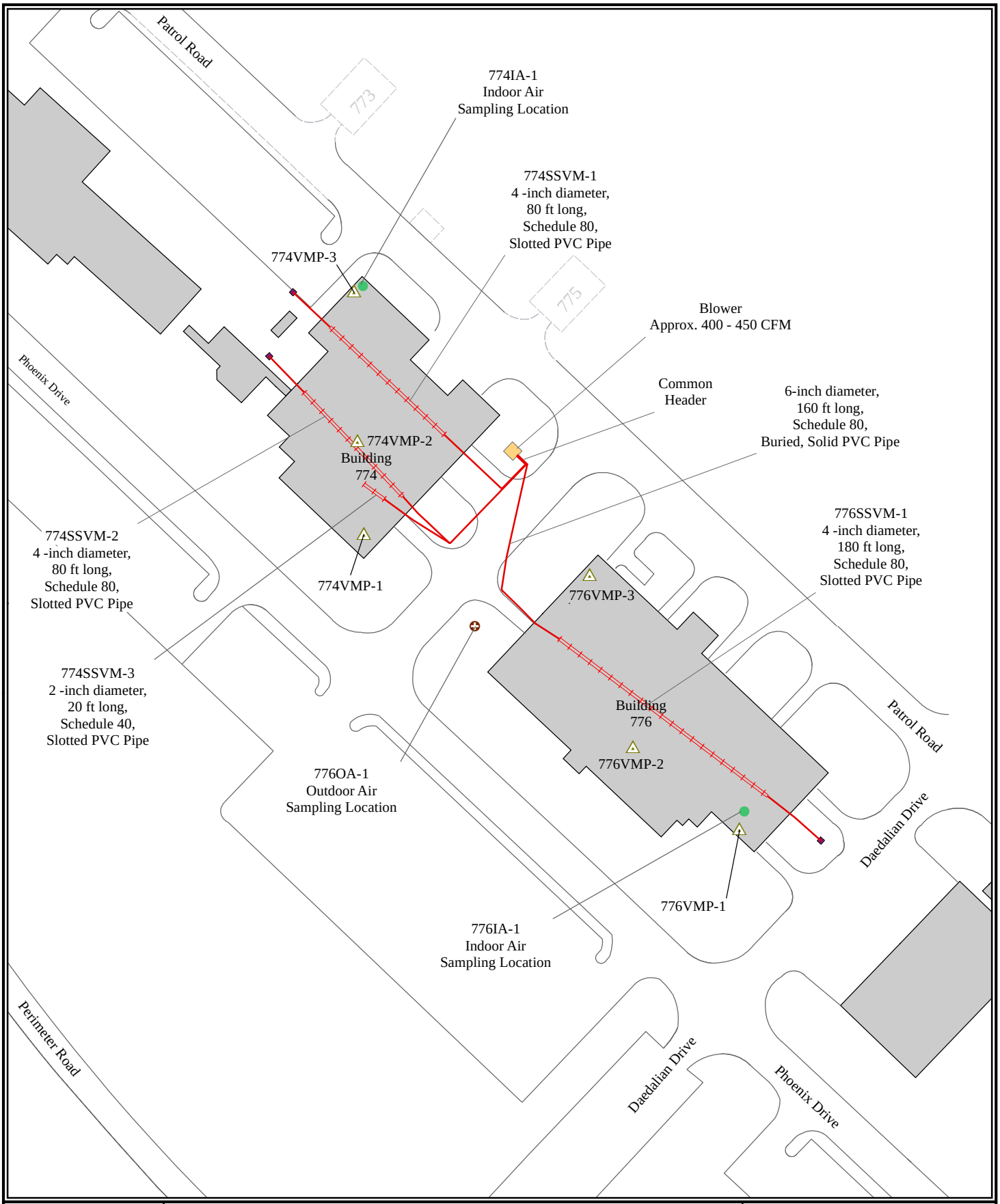
N

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

October, 2011

FPM

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Full_Scale_WP\Report\Fig_2_2_785_786_Site_Features.mxd



Site Location

Key to Features

- Indoor
- Outdoor
- SubSlab Vapor
- Horizontal Well Screen
- Horizontal Well Riser
- Demolished Road
- Existing Road
- SVE System
- Entrance/Exit Pit
- Demolished Facility
- Existing Facility

FIGURE 3-1
Buildings 774 and 776
SSVM Systems

0 50 100 200
Feet

N

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

October, 2011

FPM

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Full_Scale_WP\Report\Fig_3_1_B774_B776_SSVM.mxd

Figure 3-2 - Horizontal Well 774SSVM-1 Profile

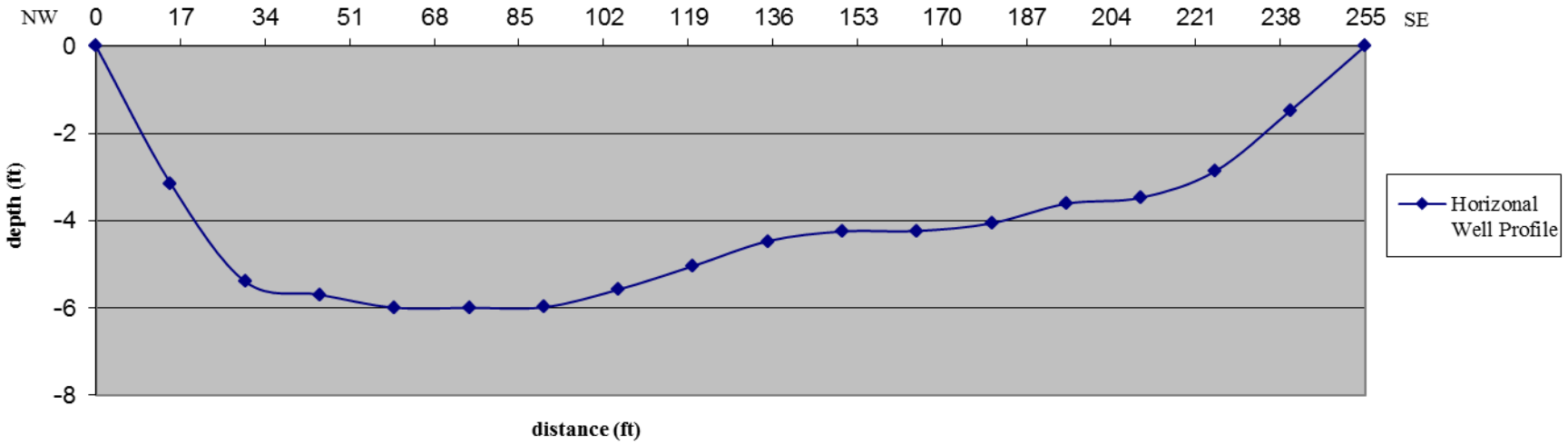


Figure 3-3 - Horizontal Well 774SSVM-2 Profile

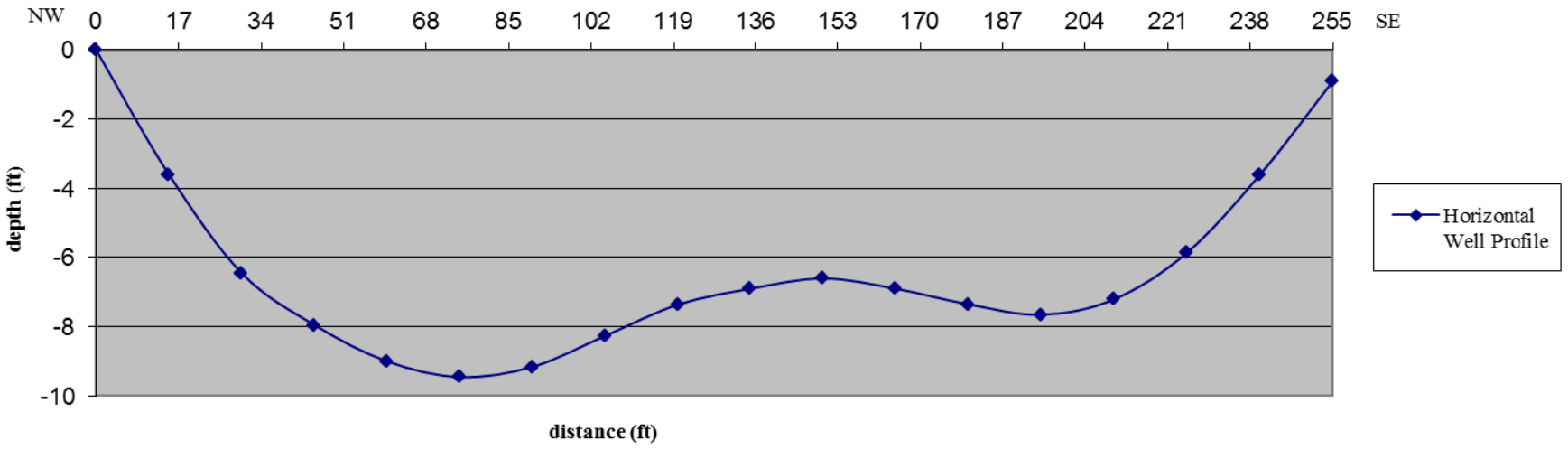


Figure 3-4 - Horizontal Well 776SSVM-1 Profile

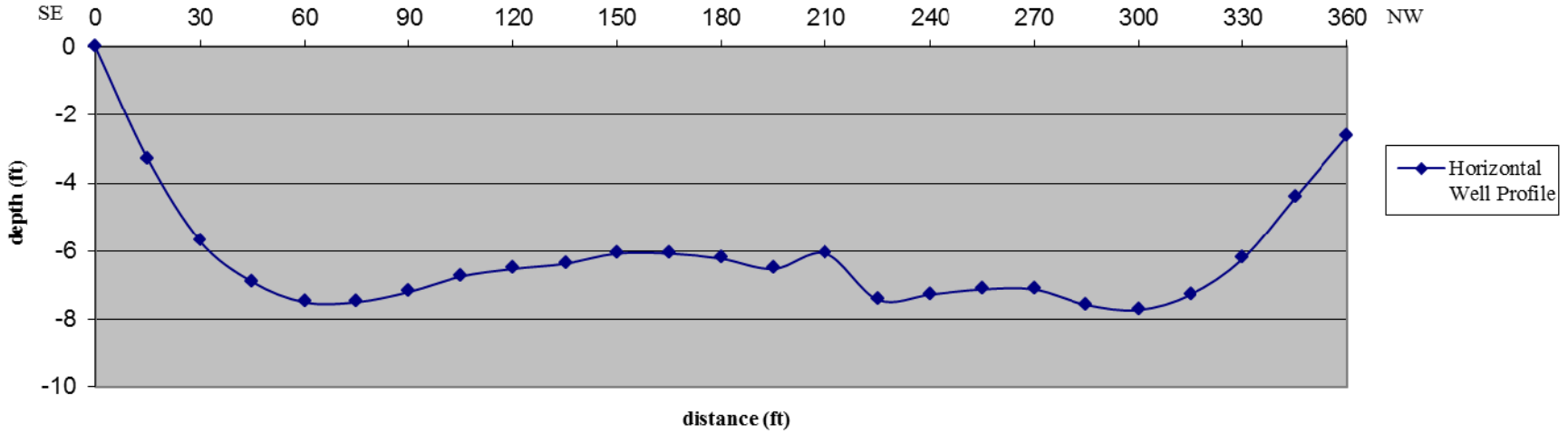
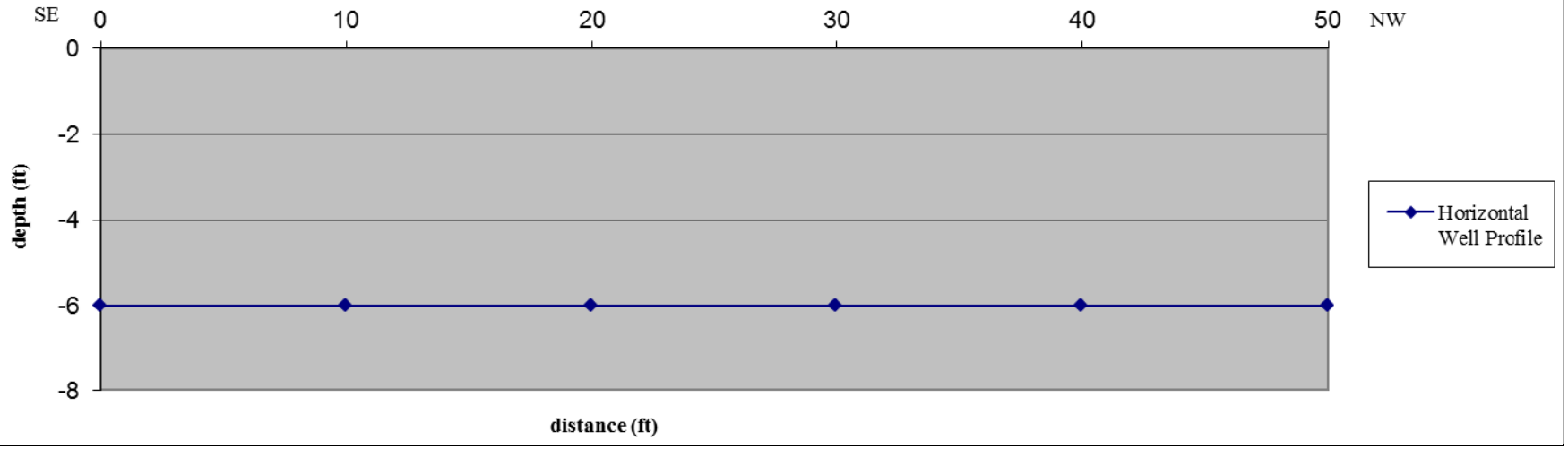
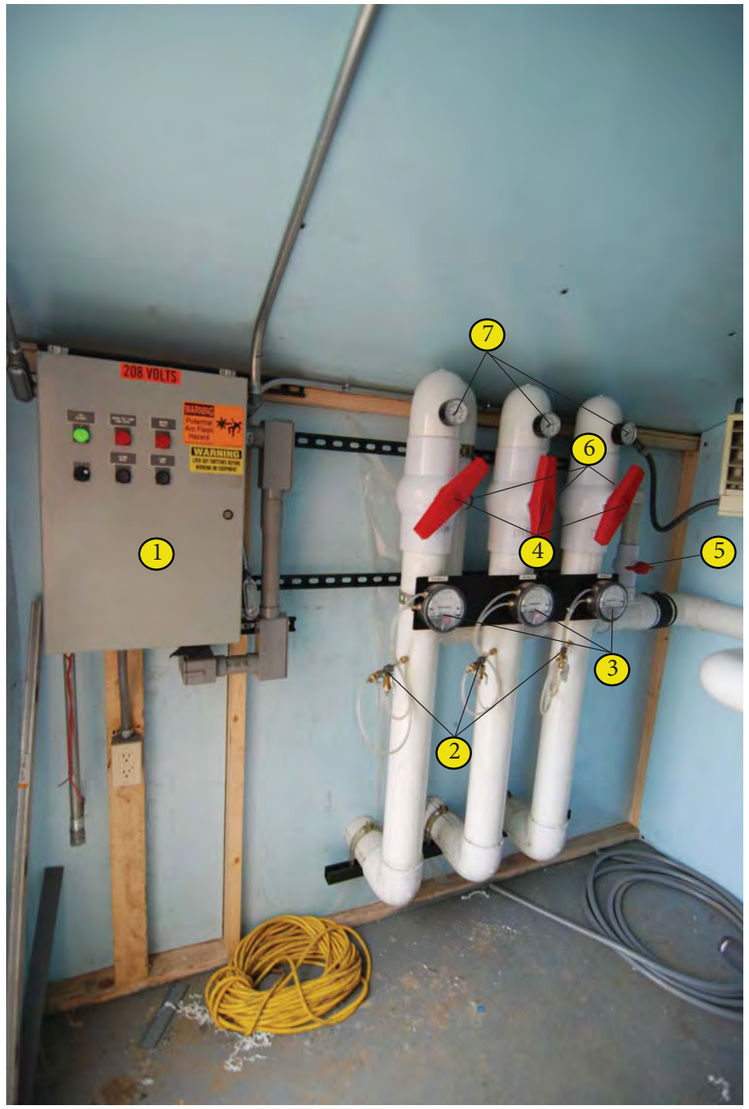


Figure 3-5 - Horizontal Well 774SSVM-3 Profile





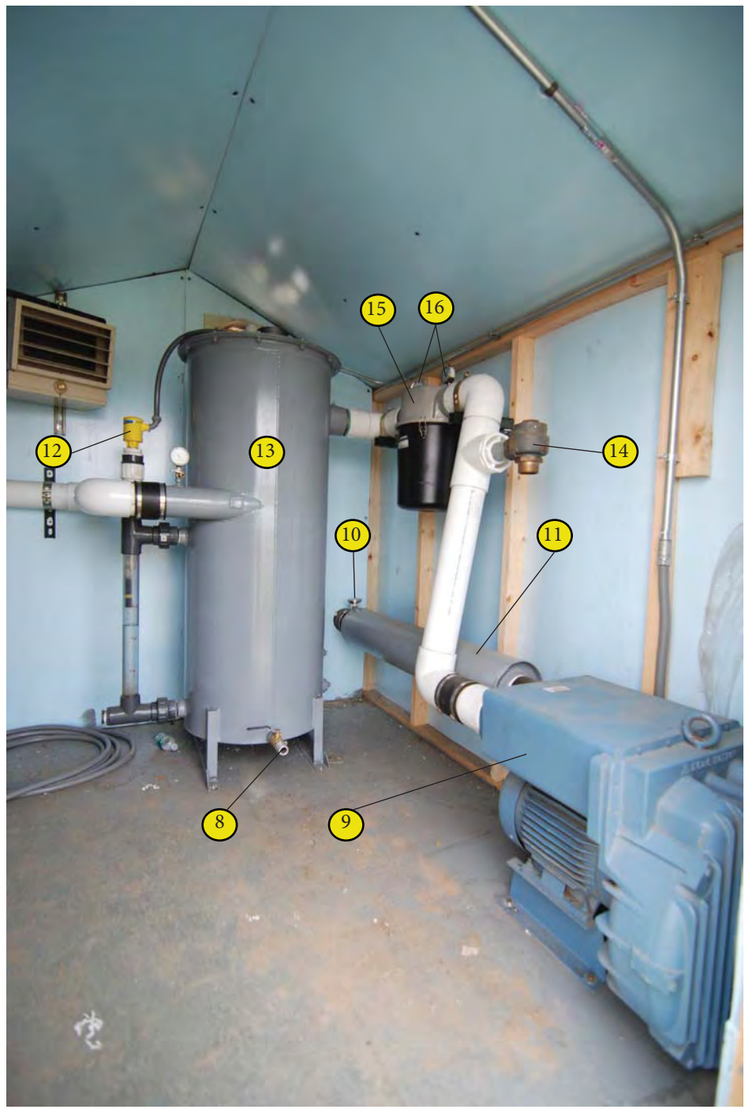
Inside Left View

1.- Control Panel (208 Volts 3 Phase 60 Hz)
2.- Pitot Tube (Series DS-300 Flow Sensors)
3.- Magnehelic® Differential Pressure Gauge (0 - 3 in W.G.)
4.- 4 Inch Ball Valve
5.- Air Dilution Ball Valve (Dilution Filter 0.010 inch slotted PVC)
6.- Analog Dial Bimetal Thermometers (2BM25, 0 - 250° F) (Hidden by Valve Handle)
7.- Wika Low Vacuum Gauges (0 - 100 in W.G.)



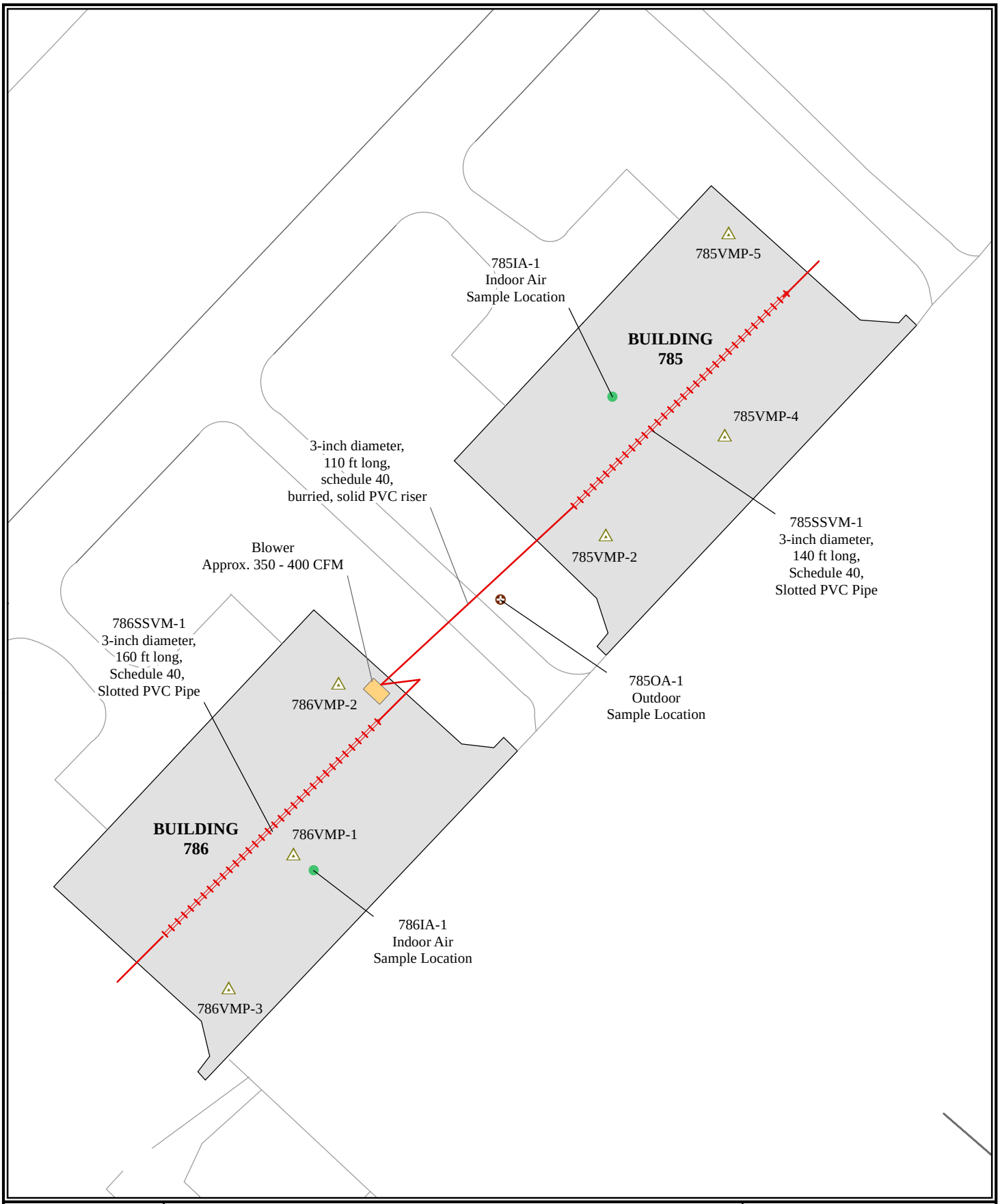
Figure 3-6

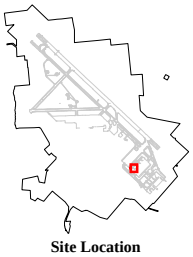
Buildings 774 and 776
Blower System Schematic



Inside Right View

8.- 3/4 Inch Drain Port
9.- Rotron DR909 Regenerative Blower
(15 HP 208-230/460/3/60 TEFC Motor)
10.- Analog Dial Bimetal Thermometer (3BM25, 0 - 250° F)
11.- Discharge Silencer (Universal Silencer Model #U5-4)
12.- High Level Control Switch with Sight Tube (FlowLine LC05)
13.- 60 Gallon Moisture Knockout Vessel
14.- Vacuum Relief Valve (Kunkle Model 215V)
15.- Inline Particulate Filter (Solberg CT-235P 4" NPT)
16.- Wika Low Vacuum Gauges (0 - 3 in Hg) (Before and After Filter)





Site Location

Key to Features

- Indoor Air Sample
- Outdoor Air Sample
- Subslab Sample
- Horizontal Well Screen
- Horizontal Well Riser
- Demolished Road
- Existing Road
- Airfield
- Existing Facility
- SVE System
- Entrance/Exit Pit

FIGURE 3-7
Buildings 785 and 786
SSVM System

N

0 25 50 100 150

Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

October, 2011

FPM

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Full_Scale_WP\Report\Fig_3_6_B785_B786_SSVM.mxd

Figure 3-8 - Horizontal Well 786SSVM-1 Profile

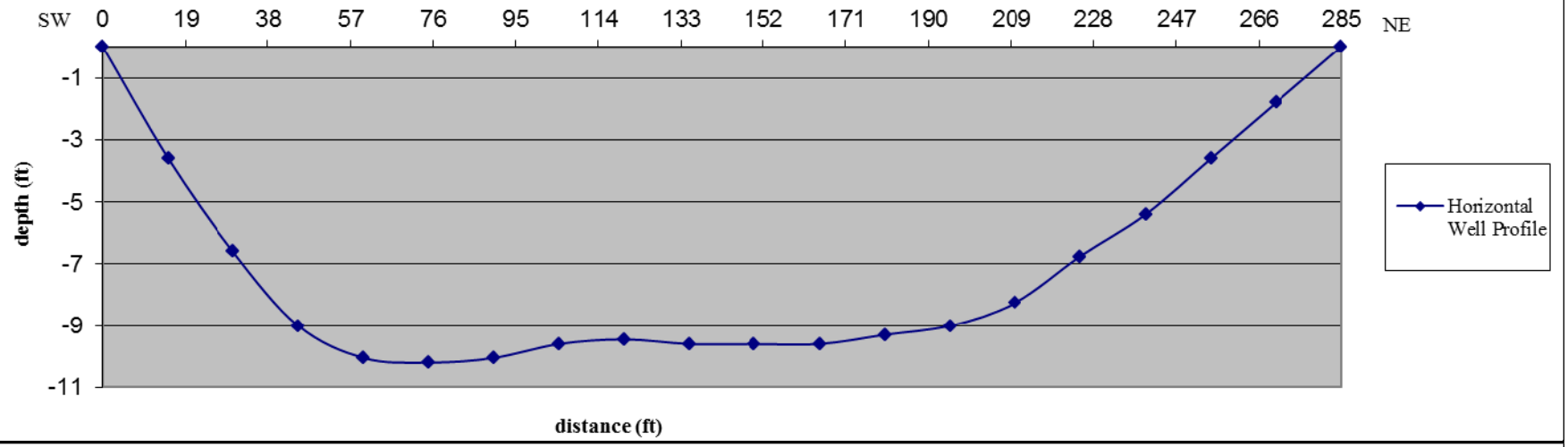
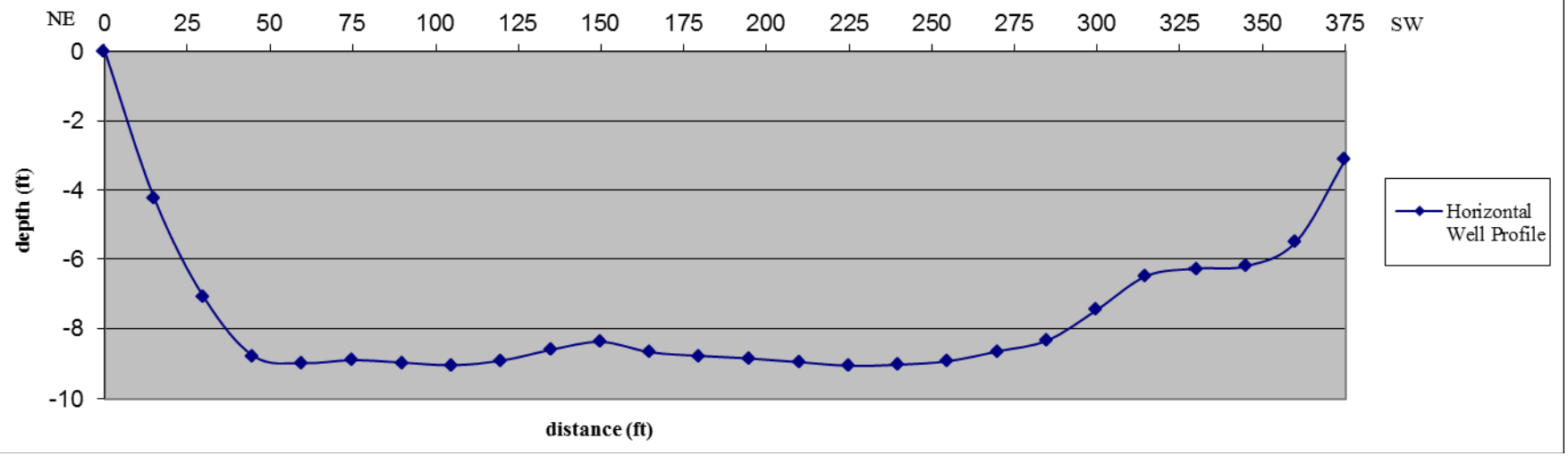
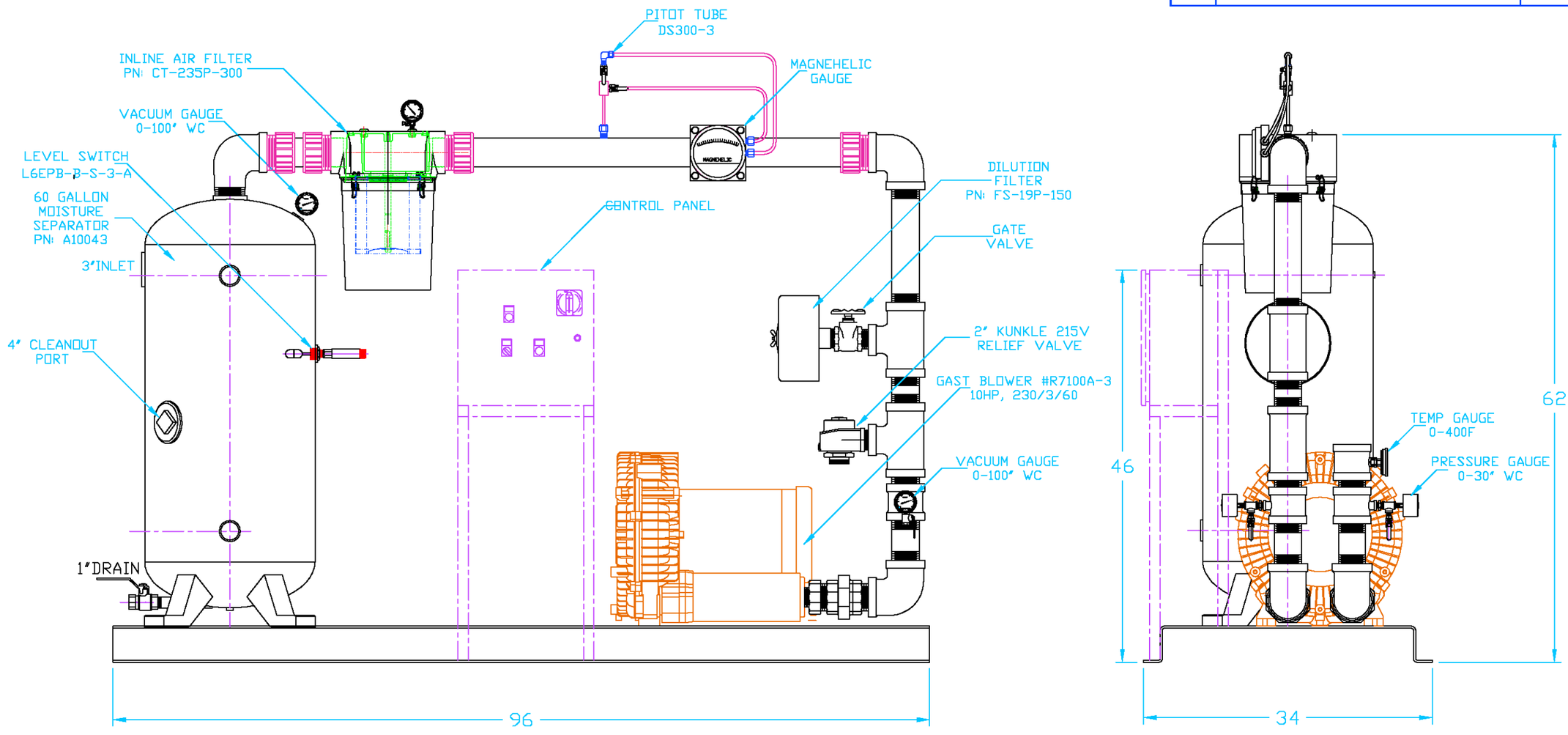


Figure 3-9 - Horizontal Well 785SSVM-1 Profile



REVISIONS			
REV.	DESCRIPTION	DATE	APPR.



CONFIDENTIALITY NOTE:
The information contained in this drawing is intended for use only by Air Energy, Inc. information is confidential and any copying, distribution or dissemination without the consent of Air Energy, Inc. is strictly prohibited.

AIR ENERGY, INCORPORATED
6 NORFOLK AVE. SOUTH EASTON, MA

DRWN BY: AGP	DATE: 11/29/10	TITLE: Figure 3-10 Building 785 and 786 Blower System Schematic				
CHK BY	DATE	FPM Remediations, Inc.			JOB NO.	
APPR BY	DATE	SCALE	SIZE	DWG NO.	SHEET 1 OF 1	REV 1

Figure 4-1 Stepped Rate Test
774SSVM-1, -2, -3 and 776SSVM-1

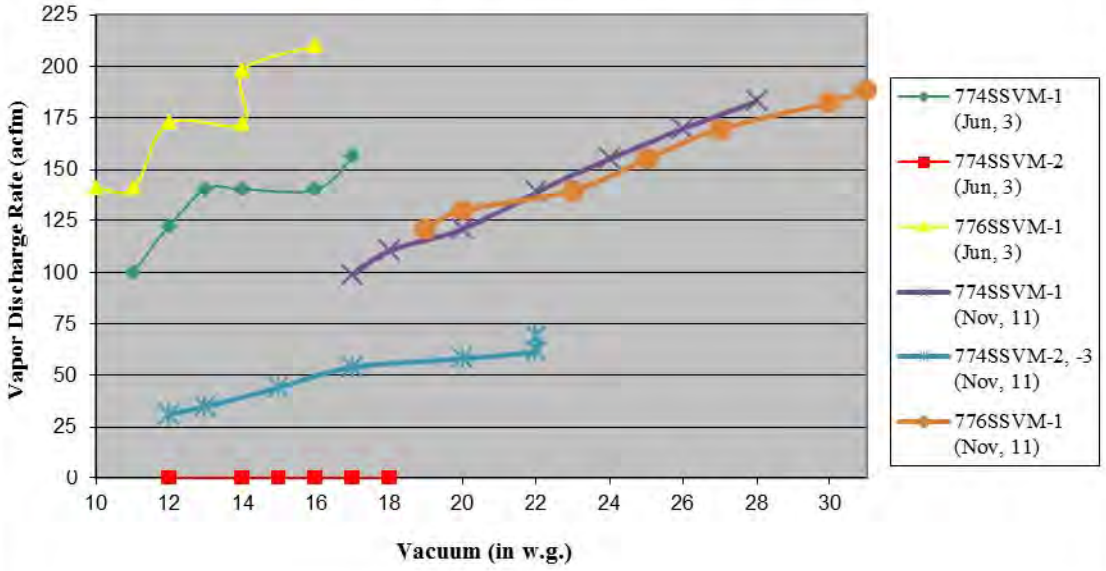


Figure 4-2 Specific Capacity
774SSVM-1, -2, -3 and 776SSVM-1

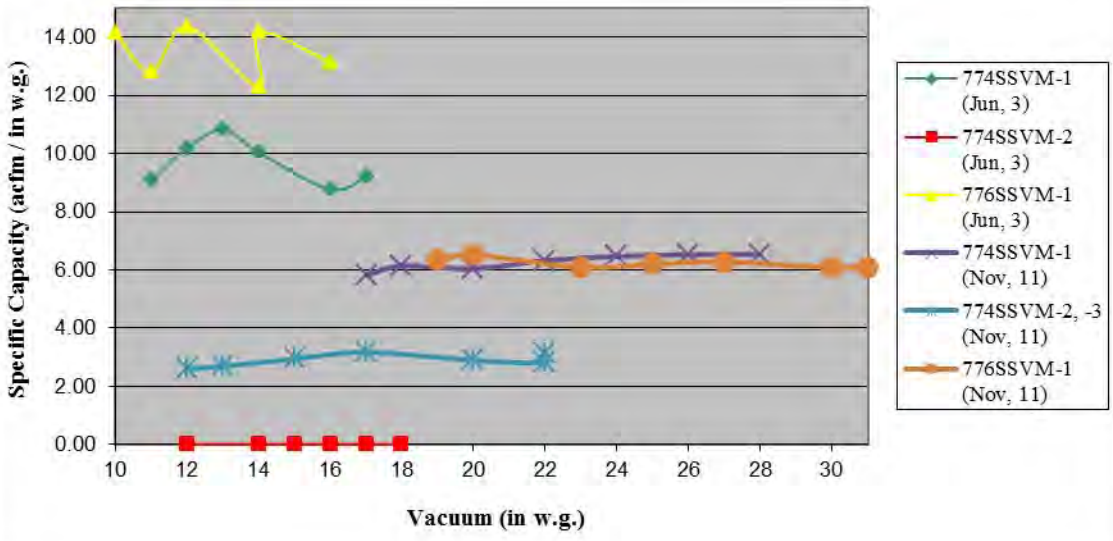


Figure 4-3 - ROI Test in Building 774

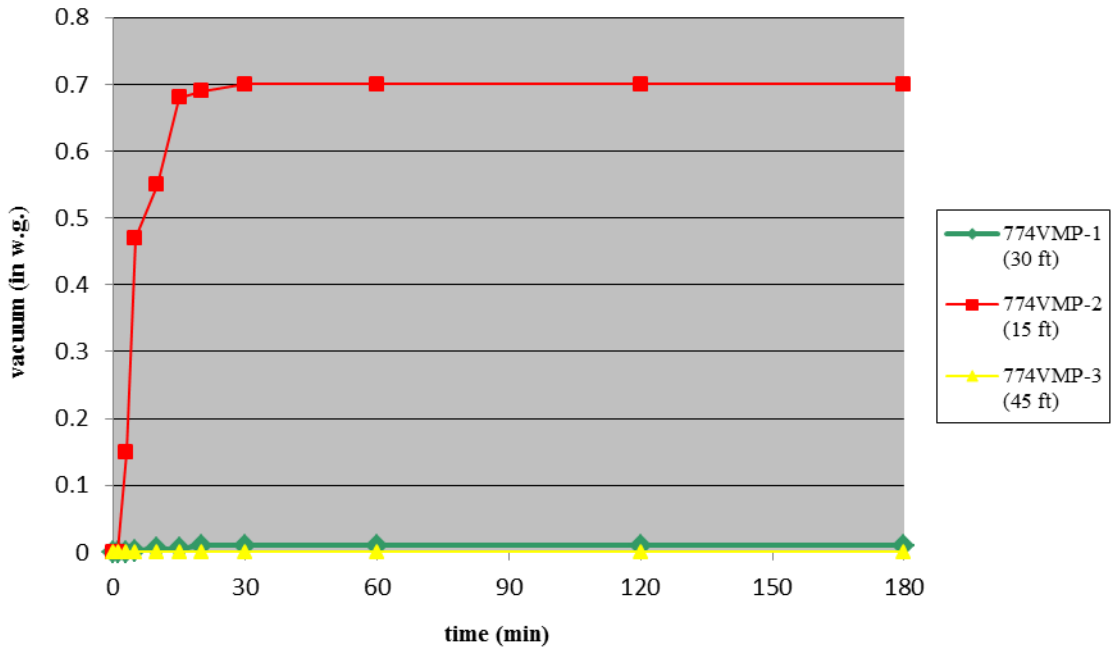


Figure 4-4 - ROI Test in Building 776

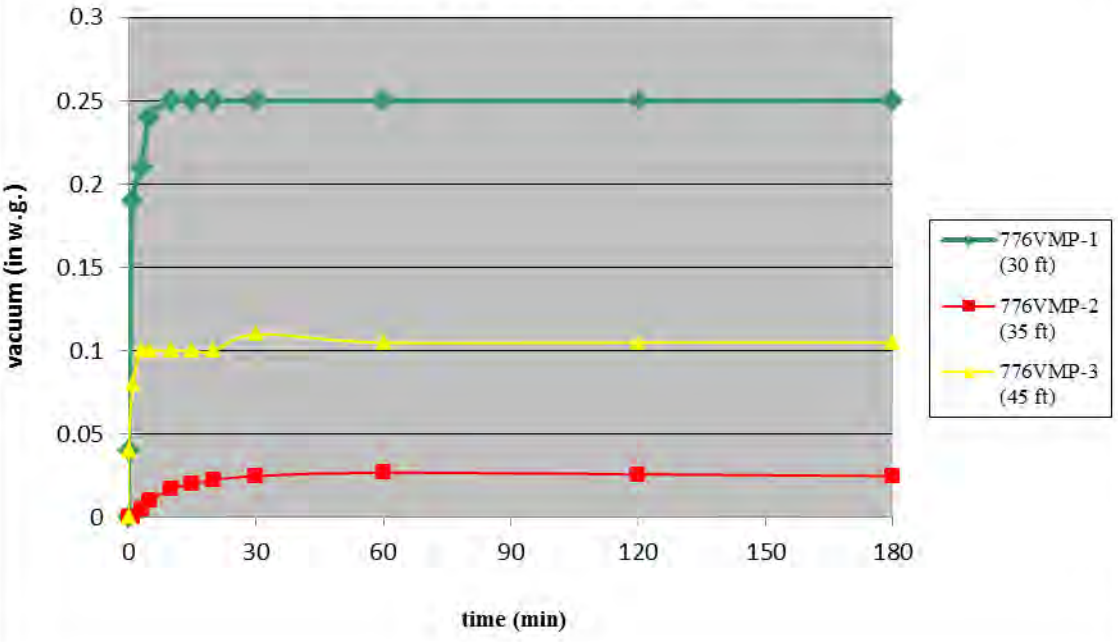


Figure 4-5
Trend Chart Sub-slab Sampling Results Building 774 and 776

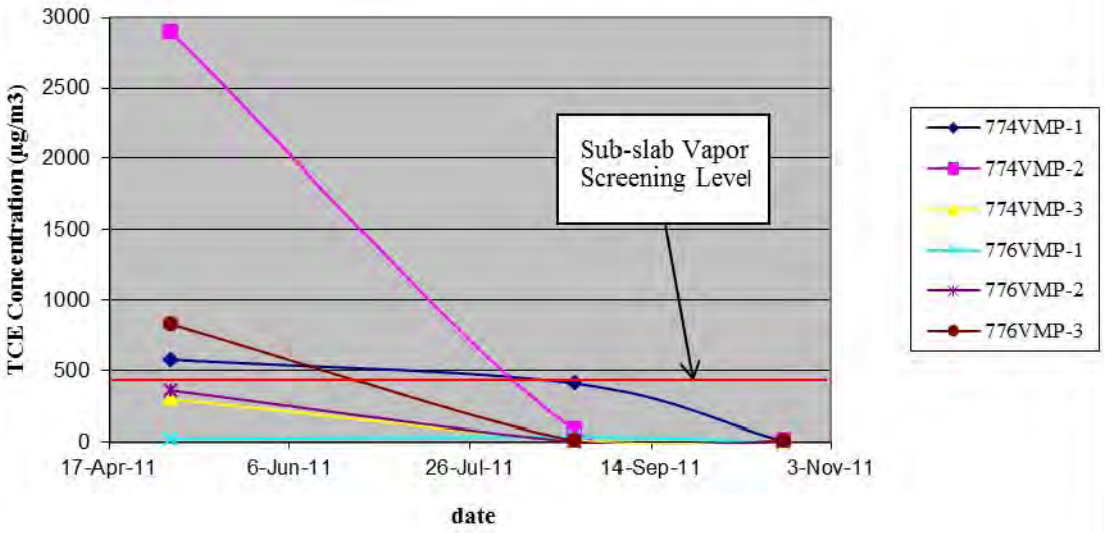


Figure 4-6
Trend Chart Influent Sampling Building 774 and 776

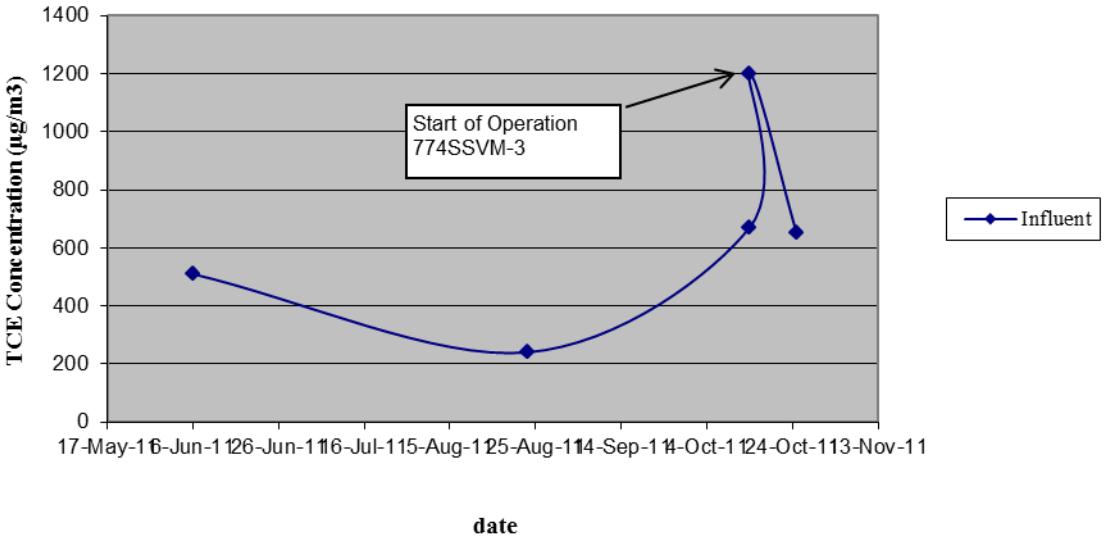


Figure 4-7 - 774SSVM-1, -2 and 776SSVM-1
Long Term Operation Vacuum

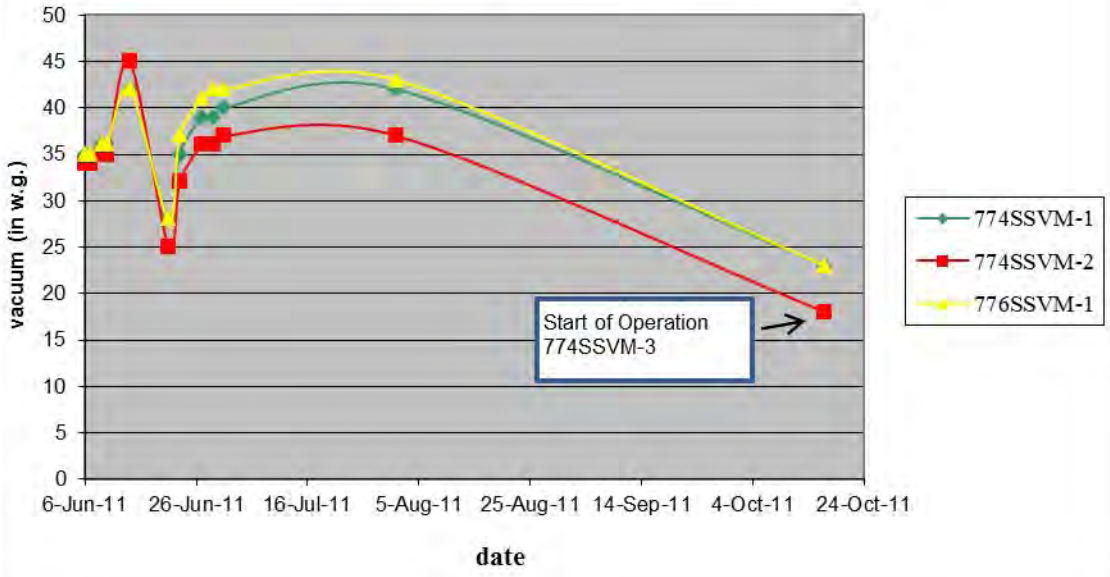


Figure 4-8- 774SSVM-1, -2 and 776SSVM-1
Long Term Operation Flow Rate

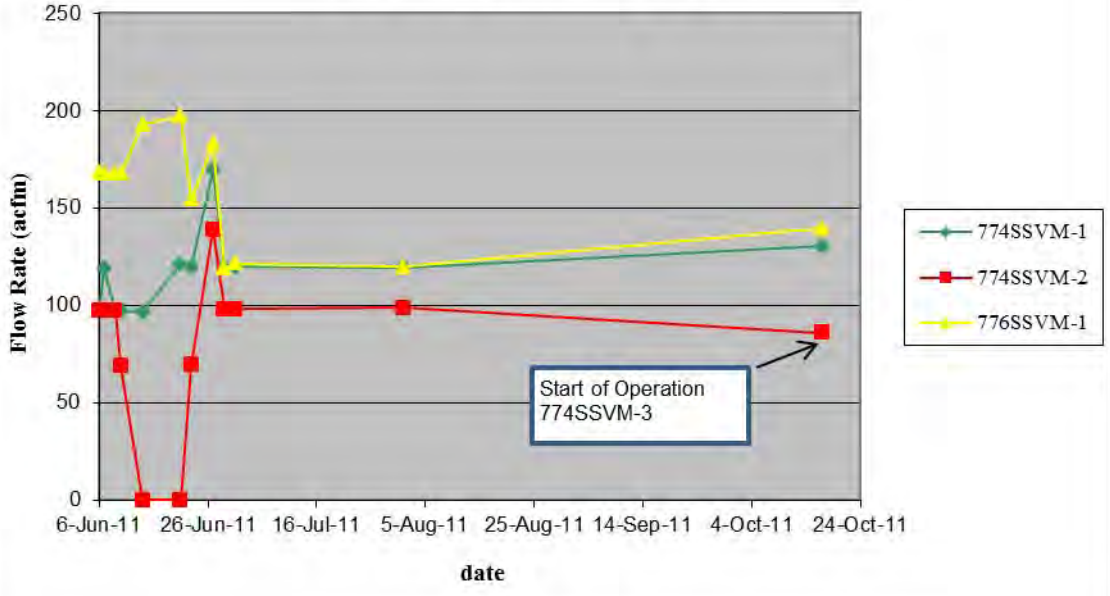


Figure 4-9 - Stepped Rate Test
785SSVM-1 and 786SSVM-1

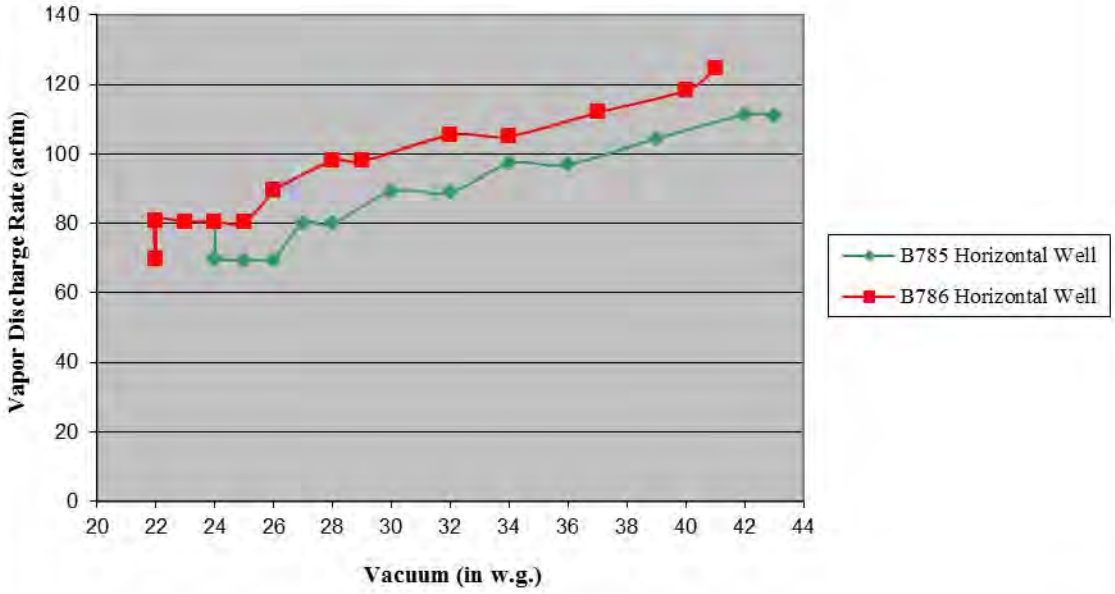


Figure 4-10 - Specific Capacity
785SSVM-1 and 786SSVM-1

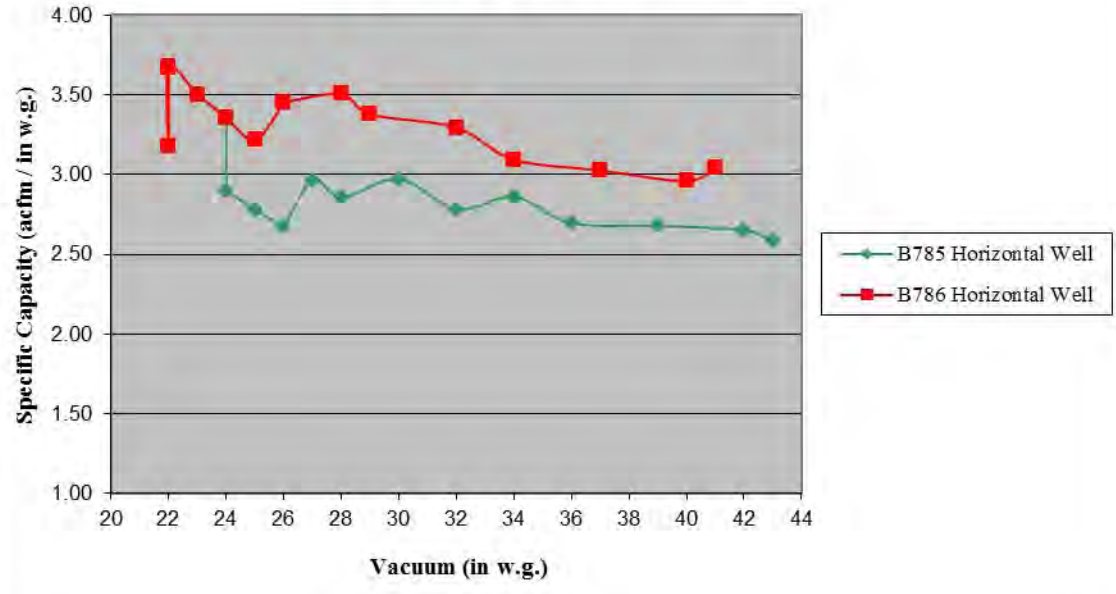


Figure 4-11 - ROI Test on Building 785

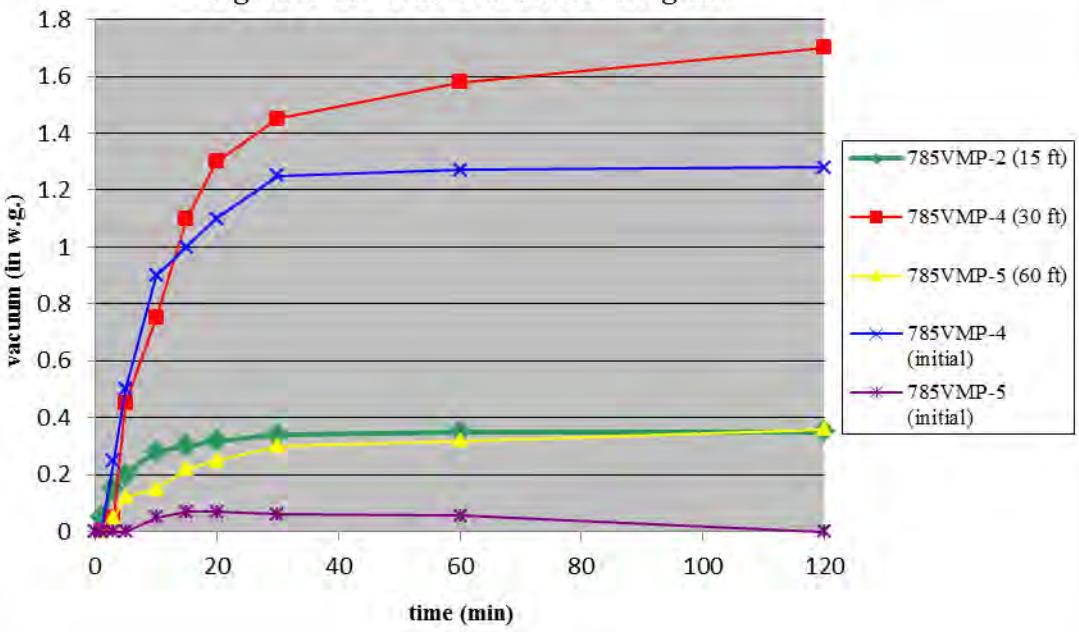


Figure 4-12 - ROI Test on Building 786

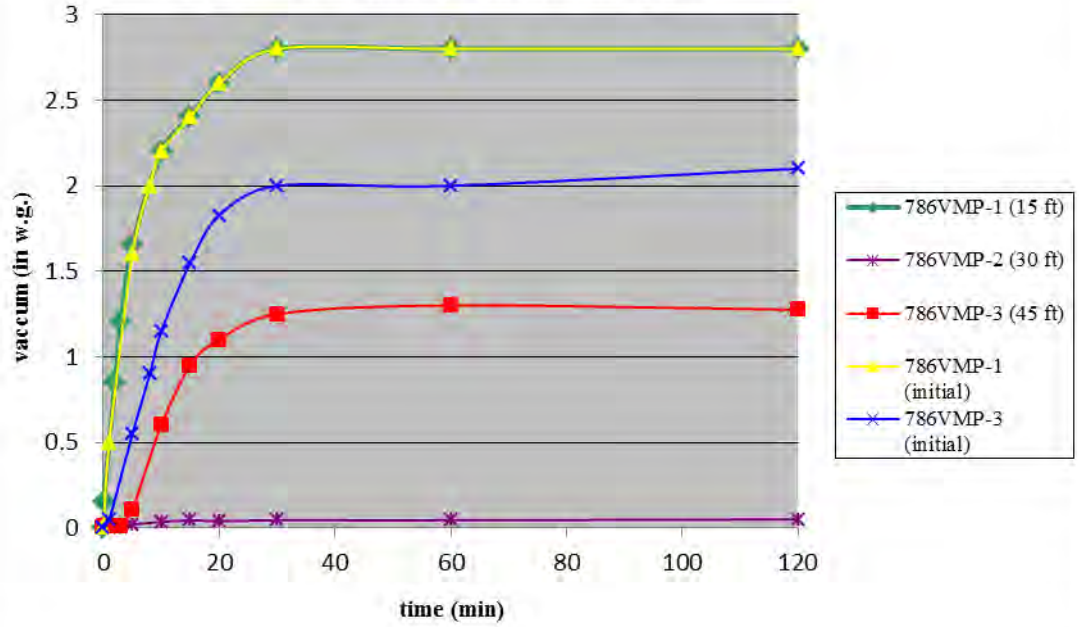


Figure 4-13
Trend Chart Sub-slab Sampling Results Building 785 and 786

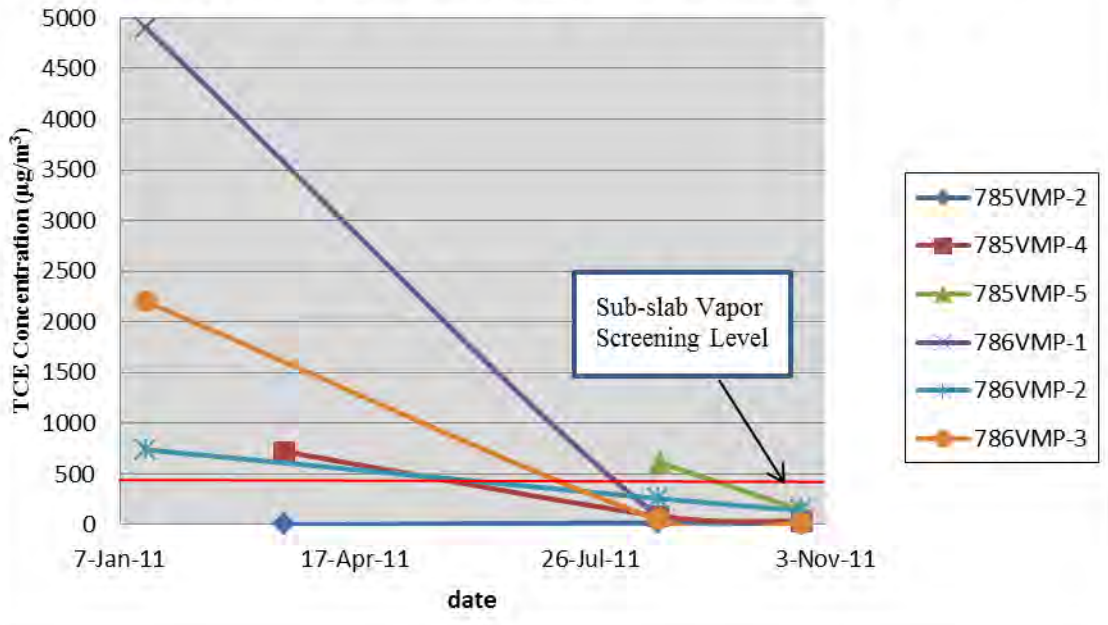


Figure 4-14
Trend Chart Influent Sampling Results Building 785 and 786

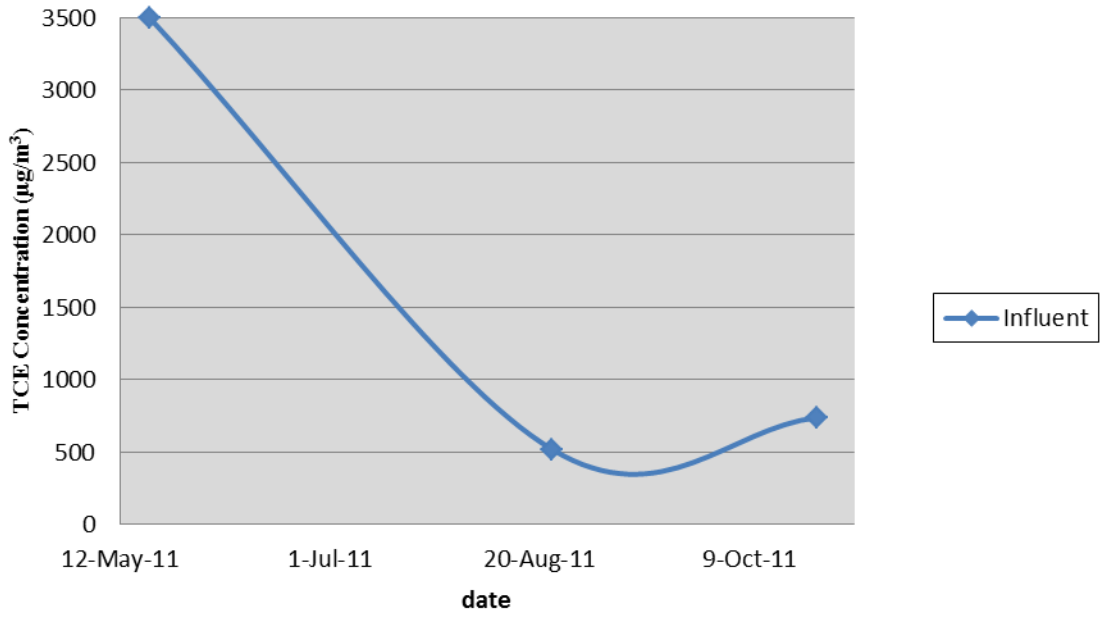


Figure 4-15 - 785SSVM-1 and 786SSVM-1
Long Term Operation Vacuum

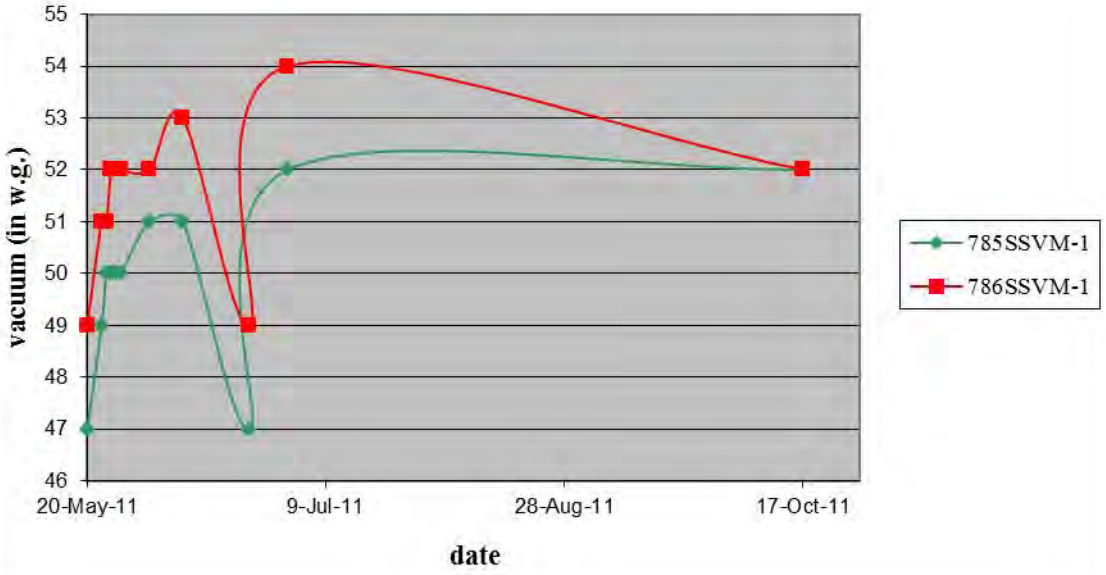
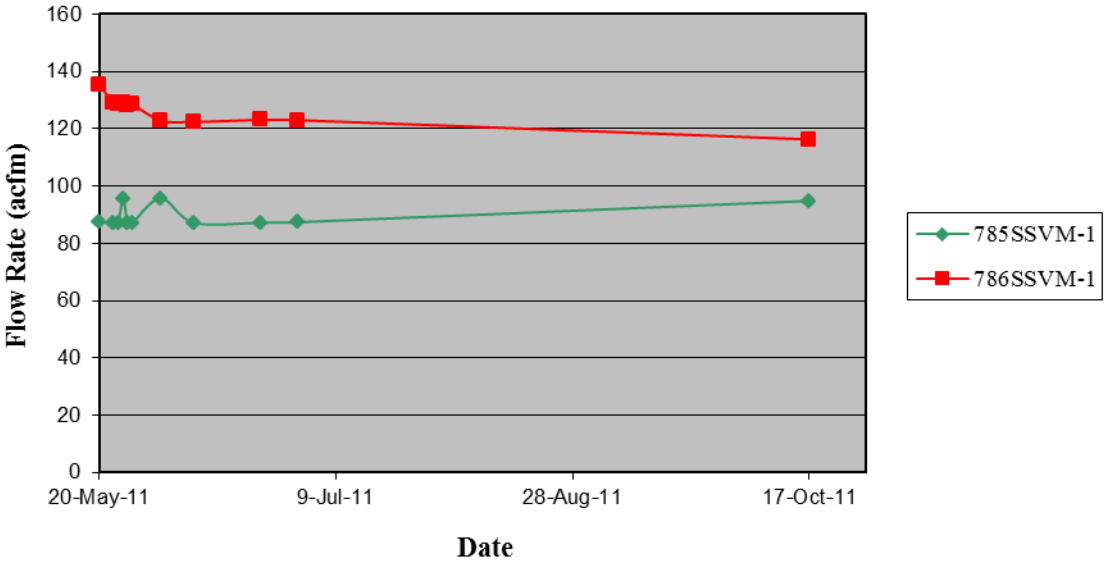


Figure 4-16 - 785SSVM-1 and 786SSVM-1
Long Term Operation Flow Rate



Tables

Table 1 - Building 774/776 AOC Short List Indoor and Outdoor Analytical Results
December 2006/April 2008

Sample Location		**774IA-1**			**774IA-2**			**774IA-3**	
Sample ID		**774-IA1**	**774IA1BB**	**774IA1CA**	**774-IA2**	**774IA2BB**	**774IA2CA**	**774IA3BB**	**774IA3CA**
Sample Type	**Indoor Air Screening**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date		**20-Dec-2006**	**15-Apr-2008**	**29-May-2008**	**20-Dec-2006**	**15-Apr-2008**	**29-May-2008**	**15-Apr-2008**	**29-May-2008**
Sample Depth (ft above ground)	**Level (µg/m^3)**	**5**	**5**	**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)	**12**	**8**	**12**	**12**	**8**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m^3									
cis-1,2-dichloroethene	102	U	1.57	0.685	U	U	U	U	U
trichloroethylene (tce)	41	2.4	347	3.99	3.4	559	4.21	389	4.7
vinyl chloride	186	U	0.13	U	U	U	U	U	U

Notes:
U - Not detected.
µg/m^3: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 1 - Building 774/776 AOC Short List Indoor and Outdoor Analytical Results
December 2006/April 2008

Sample Location	**Indoor Air Screening Level (µg/m^3)**	**774IA-4**		**774IA-5**	**774OA-1**		
Sample ID		**774IA4BB**	**774IA4CA**	**774IA5CA**	**774-OA1**	**774OA1BB**	**774OA1CA**
Sample Type		**Indoor**	**Indoor**	**Indoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date		**15-Apr-2008**	**29-May-2008**	**29-May-2008**	**20-Dec-2006**	**15-Apr-2008**	**29-May-2008**
Sample Depth (ft above ground)		**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)	**12**	**12**	**12**	**12**	**8**	**8**	**8**
Volatiles (TO-15) in µg/m^3							
cis-1,2-dichloroethene	102	U	U	U	U	U	U
trichloroethylene (tce)	41	236	2.13	6.61	U	0.492	U
vinyl chloride	186	U	U	U	U	U	U

Notes:
U - Not detected.
µg/m^3: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 1 - Building 774/776 AOC Short List Indoor and Outdoor Analytical Results
December 2006/April 2008

Sample Location	**Indoor Air Screening Level ($\mu g/m^3$)**	**776IA-1**		**776IA-2**		**776IA-3**	**776IA-4**
Sample ID		**776-IA1**	**776IA1BB**	**776-IA2**	**776IA2BB**	**776IA3BB**	**776IA4BB**
Sample Type		**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**	**Indoor**
Sample Date		**20-Dec-2006**	**15-Apr-2008**	**20-Dec-2006**	**15-Apr-2008**	**15-Apr-2008**	**20-Dec-2006**
Sample Depth (ft above ground)		**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$							
cis-1,2-dichloroethene	102	U	U	U	U	U	U
trichloroethylene (tce)	41	4.4	3.28	2.9	2.35	2.51	2.62
vinyl chloride	186	U	U	U	U	U	U

Notes:

U - Not detected.

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 1 - Building 774/776 AOC Detected Sub-slab Vapor Analytical Results
October 2006/April 2008

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**774SSV-1**		**774SSV-2**		**774SSV-3**	**774SSV-4**
Sample ID		**774-SSV1**	**774SSV1BB**	**774-SSV2**	**774SSV2BB**	**774SSV3BB**	**774SSV4BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**15-Apr-2008**	**24-Oct-2006**	**15-Apr-2008**	**15-Apr-2008**	**15-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$							
cis-1,2-dichloroethene	1,022	U	U	U	U	0.64	0.60
trichloroethylene (tce)	409	1,700	490	810	590	66	69
vinyl chloride	186	U	U	U	U	U	U

Notes:

U: Not detected.

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the cancer screening value.

Table 1 - Building 774/776 AOC Detected Sub-slab Vapor Analytical Results
October 2006/April 2008

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**776SSV-1**		**776SSV-2**		**776SSV-3**	**776SSV-4**
Sample ID		**776-SSV1**	**776SSV1BB**	**776-SSV2**	**776SSV2BB**	**776SSV3BB**	**776SSV4BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**15-Apr-2008**	**24-Oct-2006**	**15-Apr-2008**	**15-Apr-2008**	**15-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$							
cis-1,2-dichloroethene	1,022	U	U	U	U	0.64	U
trichloroethylene (tce)	409	3,000	6.9	700	110	120	230
vinyl chloride	186	U	U	U	U	U	U

Notes:

U: Not detected.

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the cancer screening value.

Table 1 - Building 785/786 AOC Short List Indoor and Outdoor Analytical Results
December 2006/April 2008

Sample Location	**Indoor Air Screening Level ($\mu g/m^3$)**	**785IA-1**	**785IA-2**	**785IA-3**
Sample ID		**785-IA1**	**785-IA2**	**785IA3BB**
Sample Type		**Indoor**	**Indoor**	**Indoor**
Sample Date		**20-Dec-2006**	**20-Dec-2006**	**17-Apr-2008**
Sample Depth (ft above ground)		**5**	**5**	**5**
Sample Collection Duration (hr)	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$				
1,2,4-trimethylbenzene	NA	NA	NA	1.30
1,3,5-trimethylbenzene	NA	NA	NA	0.650 F
benzene	88	1.1	1.1	0.617
carbon disulfide	NA	U	U	U
carbon tetrachloride	NA	U	U	U
ethylbenzene	743	NA	NA	0.441 F
freon 11	NA	U	U	U
freon 113	NA	U	U	U
freon 12	NA	U	U	U
isopropyl alcohol	NA	U	U	U
m,p-xylene (sum of isomers)	292	NA	NA	1.28 F
methyl ethyl ketone	NA	U	U	U
methylene chloride	NA	U	U	U
Naphthalene	NA	NA	NA	1.33
o-xylene	292	NA	NA	0.485 F
tetrachloroethylene (pce)	102	U	U	U
toluene	NA	NA	NA	2.72
trichloroethylene (tce)	41	U	U	0.655
vinyl chloride	186	U	U	U

Notes:

U - Not detected.

F - The result was detected between the MDL and RL.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Table 1 - Building 786 AOC Short List Indoor and Outdoor Analytical Results
December 2006/April 2008

Sample Location	**Indoor Air Screening Level ($\mu g/m^3$)**	**786IA-1**	**786IA-2**	**786IA-3**	**786OA-1**	
Sample ID		**786-IA1**	**786-IA2**	**786IA3BB**	**786-OA1**	**786OA1BB**
Sample Type		**Indoor**	**Indoor**	**Indoor**	**Outdoor**	**Outdoor**
Sample Date		**20-Dec-2006**	**20-Dec-2006**	**18-Apr-2008**	**20-Dec-2006**	**18-Apr-2008**
Sample Depth (ft above ground)		**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)	**12**	**8**	**8**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$						
1,2,4-trimethylbenzene	NA	NA	U	0.749	U	0.949
1,3,5-trimethylbenzene	NA	NA	U	U	U	U
benzene	88	1.2	1.2	0.747	0.96	0.617
cis-1,2-dichloroethene	102	U	U	U	U	U
ethylbenzene	743	NA	NA	U	NA	U
m,p-xylene (sum of isomers)	292	NA	NA	0.750 J	NA	0.883 J
Naphthalene	NA	NA	NA	1.01	NA	U
o-xylene	292	NA	NA	U	NA	0.441 J
tetrachloroethylene (pce)	102	U	0.896 F	U	U	U
toluene	NA	NA	NA	1.92	NA	1.49
trichloroethylene (tce)	41	0.43 J	U	U	U	U
vinyl chloride	186	U	U	U	U	U

Notes:

U - Not detected.

F - The result was detected between the MDL and RL.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Table 1 - Building 785/786 AOC Detected Sub-slab Vapor Analytical Results
October 2006/April 2008

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**785SSV-1**		**785SSV-2**		**785SSV-3**	**785SSV-4**	**785SSV-5**	**785SSV-6**
Sample ID		**B785-SSV1**	**785SSV1BB**	**B785-SSV2**	**785SSV2BB**	**785SSV3BB**	**785SSV4BB**	**785SSV5BB**	**785SSV6BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**17-Apr-2008**	**24-Oct-2006**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$									
1,1,1-trichloroethane	146,000	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	175	NA	1.9	NA	2.3	2.9	4.0	3.4	9.0
1,3,5-trimethylbenzene	175	U	0.70 J	U	0.90	1.1	1.6	1.6	3.5
acetone	NA	U	U	U	U	U	U	U	U
allyl chloride (3-chloropropene)	29	U	U	U	U	U	U	U	U
benzene	105	U	10	15	3.5	17	19	14	20
carbon disulfide	20,440	U	U	U	U	U	U	U	U
carbon tetrachloride	55	U	U	U	U	U	U	U	U
chloroform	36	U	U	U	U	U	U	U	U
chloromethane	818	U	U	U	U	U	U	U	U
cis-1,2-dichloroethene	1,022	75	13	U	0.69	0.48 J	14	0.52 J	56.00
cyclohexane	175,200	U	U	U	U	U	U	U	U
ethylbenzene	743	U	1.0	U	1.9	1.8	2.4	3.0	4.0
freon 11	20,440	U	U	U	U	U	U	U	U
freon 113	876,000	U	U	U	U	U	U	U	U
freon 12	5,840	U	U	U	U	U	U	U	U
m,p-xylene (sum of isomers)	2,920	U	2.7	U	4.4	6.3	8.8	10	12 J
methyl ethyl ketone	146,000	U	U	U	U	U	U	U	U
methylene chloride	1,740	U	U	U	U	U	U	U	U
Naphthalene	NA	NA	1.2	NA	1.9	1.2	1.4	1.8	1.6
o-xylene	2,920	U	1.1	U	1.6	1.9	2.8	4.9	3.3
tetrachloroethylene (pce)	139	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	U	U	U	U	U	U	U	U
toluene	146,000	60	5.5	13	5.1	12	18	64	28
trans-1,2-dichloroethene	NA	U	U		U	U	U	U	U
trichloroethylene (tce)	409	11,000	110	2,300	430	220	11	180	2200
vinyl chloride	186	U	U	U	U	U	U	U	U

Notes:

U - Not detected.

F- The result was detected between the MDL and RL.

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 1 - Building 785/786 AOC Detected Sub-slab Vapor Analytical Results
October 2006/April 2008

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**786SSV-1**		**786SSV-2**		**786SSV-3**	**786SSV-4**	**786SSV-5**	**786SSV-6**
Sample ID		**B786-SSV1**	**786SSV1BB**	**B786-SSV2**	**786SSV2BB**	**786SSV3BB**	**786SSV4BB**	**786SSV5BB**	**786SSV6BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**18-Apr-2008**	**24-Oct-2006**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$									
1,2,4-trimethylbenzene	175	NA	3.9	NA	4.8	4.5	4.2	170	4.8
benzene	105	U	29	24 J	21	21	35	36	16
cis-1,2-dichloroethene	1,022	480	230	U	12	1.2	U	3.1	5.4
ethylbenzene	743	U	2.3	U	3.1	2.3	2.9	29	2.3
m,p-xylene (sum of isomers)	2,920	U	9.0	U	8.4	8.9	8.4	91	9.2
Naphthalene	NA	NA	1.3	NA	2.1	2.6	1.2	27	1.5
o-xylene	2,920	U	3.0	U	3.9	2.8	3.8	57	3.0
tetrachloroethylene (pce)	139	2200	70	U	0.97	U	U	57	23
toluene	146,000	U	21	U	14	12	20	75	15
trichloroethylene (tce)	409	81,000	19,000	4,700 J	1,500	69	320	3,600	6,500
vinyl chloride	186	U	U	U	U	U	U	U	U

Notes:

U - Not detected.

F- The result was detected between the MDL and RL.

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 774 SSVM Performance Monitoring Results Table

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$) [1]**	**774VMP-1**			**774VMP-2**			**774VMP-3**			**Indoor Air Screening Level ($\mu g/m^3$) [1]**	**774-IA**		
Sample ID		**774VMP0101AA**	**774VMP0101AB**	**774VMP0101AC**	**774VMP0201AA**	**774VMP0201AB**	**774VMP0201AC**	**774VMP0301AA**	**774VMP0301AB**	**774VMP0301AC**		**774IA1AD**	**774IA1AE**	**774IA1AF**
Sample Type		**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**		**Indoor**	**Indoor**	**Indoor**
Sample Date		**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**	**4-May-2011**	**24-Aug-2011**	**21-Oct-2011**		**5-May-2011**	**6-Sep-2011**	**21-Oct-2011**
Sample Depth (ft bgs / ags)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**		**5**	**5**	**5**
Sample Collection Duration (hr)		**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**		**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$														
1,1,1-trichloroethane	146,000	59	8.3	U	85	2.4	U	12	0.67 F	U	14600	U	U	U
1,1-dichloroethane	NA	0.53 F	U	U	U	U	U	U	U	U	NA	U	U	U
1,2,4-trimethylbenzene	175	6.7	3.2	U	12	4	0.65 F	6.3	4.1	0.95	18	2.7	1.6	0.65 F
1,3,5-trimethylbenzene	175	2.5	0.9	U	3.9	2	U	2.2	1.8	U	18	U	U	U
2,2,4-trimethylpentane	NA	U	1.9	U	U	2.2	U	U	2.3	U	NA	U	U	U
4-ethyltoluene	NA	4.6	1.2	U	8.5	1.5	U	4.2	1.6	U	NA	U	U	U
acetone	NA	54	31	18	53	U	11	17	19	12	NA	52	34	19
benzene	105	1.6	4.3	U	6	4.4	U	2.5	3.8	0.39 F	88	1.3	U	U
carbon disulfide	20,440	U	0.66	U	0.95	0.6	U	0.95	1.4	U	2044	0.66	U	U
carbon tetrachloride	55	1	0.70 F	U	1.4	0.70 F	U	0.45	U	U	55	0.51	0.90 F	U
chlorobenzene	NA	U	0.51 F	U	U	0.56 F	U	U	0.84	U	NA	0.7	U	U
chloroform	36	18	9.1	U	45	1.8	0.69 F	9.1	U	U	36	0.55 F	U	U
chloromethane	818	3.5	U	U	U	U	U	U	U	U	263	U	1.2	U
cis-1,2-dichloroethene	1,022	0.89	0.77	U	0.73	U	U	U	U	U	102	U	U	U
cyclohexane	175,200	4.8	7.8	2.4	5.9	10	3.5	6.2	11	4.8	17520	1.3	U	U
ethyl acetate	NA	U	U	0.77 F	U	0.62 F	U	U	U	U	9344	U	U	U
ethylbenzene	743	1.4	2.8	U	1.6	3.2	U	1.5	3.6	U	743	0.84	0.57 F	U
freon 11	20,440	31	19	2.0	400	22	2.2	630	120	9.5	2044	33	77	4.2
freon 113	876,000	U	0.78 F	U	0.86 F	0.78 F	U	0.86 F	0.78 F	U	87600	U	0.86 F	U
freon 12	5,840	2.1	2.8	2.5	2.8	2.8	2.1	U	2.6	2.4	584	U	2.8	2.4
heptane	NA	U	3.7	U	U	4.2	6.2	U	3.5	U	NA	1.7	U	U
hexane	20,440	U	7.9	U	U	8.2	U	U	7.5	U	2044	33	U	U
isopropyl alcohol	NA	U	U	2.8	4.4	15	2.4	U	U	U	NA	11	32	9.9
m,p-xylene (sum of isomers)	2,920	5.3	9	U	5.1	12	0.53 F	4.5	12	1.2 F	292	2.4	1.2 F	0.57 F
methyl ethyl ketone	146,000	1.7	4.9	1.7	4.3	3	U	U	U	U	14600	U	2.8	U
methylene chloride	1,740	U	0.99	0.46 F	U	U	U	U	U	U	1740	U	1.1	U
o-xylene	2,920	2.4	2.4	U	2.2	2.8	U	2.2	3.2	U	292	0.71	0.49 F	U
styrene	NA	U	U	U	U	U	U	U	1.4	U	2920	0.78	0.56 F	U
tetrachloroethylene (pce)	139	0.97 F	1	U	2.8	U	U	U	U	U	102	U	U	U
tetrahydrofuran	NA	3.1	U	U	6.7	U	U	U	U	U	NA	U	U	U
toluene	146,000	1.6	17	2.1	3.2	17	1.4	2.3	16	2.2	14600	5.1	2.5	1.3
trans-1,2-dichloroethene	NA	U	U	U	U	U	U	U	U	U	NA	U	U	U
trichloroethylene (tce)	409	580	410	3.7	2900	84	11	300	11	3.0	41	4.4	2.3	0.87
vinyl chloride	186	U	U	U	U	U	U	U	U	U	186	U	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 776 SSVM Performance Monitoring Results Table

Sample Location	Sub-slab Vapor Screening Level (µg/m^3) [1]	776VMP-1			776VMP-2			776VMP-3			Indoor Air Screening Level (µg/m^3) [1]	776-IA			776-OA		
Sample ID		**776VMP0101AA**	**776VMP0101AB**	**776VMP0101AC**	**776VMP0201AA**	**776VMP0201AB**	**776VMP0201AC**	**776VMP0301AA**	**776VMP0301AB**	**776VMP0301AC**		**776IA1CA**	**776IA1DA**	**776IA1EA**	**776OA1DA**	**776OA1EA**	**774776OA1FA**
Sample Type		**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**		**Indoor**	**Indoor**	**Indoor**	**Outdoor**	**Outdoor**	**Outdoor**
Sample Date		**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**		**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**	**4-May-2011**	**6-Sep-2011**	**21-Oct-2011**
Sample Depth (ft bgs / ags)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**		**5**	**5**	**5**	**5**	**5**	**5**
Sample Collection Duration (hr)		**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**		**12**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m^3																	
1,1,1-trichloroethane	146,000	4.5	U	U	8.7	U	U	18	U	U	14600	U	U	U	U	U	U
1,2,4-trimethylbenzene	175	9.0	3.5	U	9.1	3.3	0.65 F	11	2.1	0.50 F	18	1.2	1.7	0.85	U	1.7	0.60 F
1,2-dichloroethane	9	U	0.45 F	U	U	0.49 F	U	U	0.62	U	31	U	0.53 F	U	U	U	U
1,3,5-trimethylbenzene	175	3.8	1.6	U	2.8	1.2	U	2.7	0.70 F	U	18	U	U	U	U	U	U
2,2,4-trimethylpentane	NA	U	U	0.47 F	U	U	U	U	U	U	NA	U	U	U	U	U	U
4-ethyltoluene	NA	7.2	0.9	U	5.1	1.0	U	5.2	0.65 F	U	NA	U	U	U	U	U	U
acetone	NA	25	39	39	17	39	45	20	30	58	NA	54	47	30	18	53	6.8
benzene	105	1.0	0.55	1.3	1.1	0.45 F	1.5	2	0.39 F	1.0	88	0.49	0.36 F	1.4	U	0.39 F	U
carbon disulfide	20,440	1.2	0.57	0.44 F	0.98	0.79	0.38 F	0.95	0.95	0.63	2044	0.41 F	0.82	U	0.6	0.35 F	U
carbon tetrachloride	55	0.77	0.77 F	U	0.77	0.77 F	0.70 F	0.38	0.83 F	0.70 F	55	0.51	0.77 F	U	0.51	0.90 F	U
chloroform	36	11	0.79	U	8.3	U	U	16	U	0.74	36	U	U	0.55 F	U	U	U
chloromethane	818	U	1.1	U	U	1.2	U	U	0.97	U	263	1.8	1.5	U	U	1.1	0.76
cis-1,2-dichloroethene	1,022	U	9.70	U	U	U	U	U	U	U	102	U	U	U	U	0.48 F	U
cyclohexane	175,200	6.8	1.6	3.0	4.5	7.3	8.5	5.4	3.5	4.8	17520	U	U	U	U	U	U
ethyl acetate	NA	U	U	U	U	1.9	U	U	U	U	9344	5.8	3.3	U	U	U	U
ethylbenzene	743	1.6	0.79	1.6	0.66	0.88	1.4	1.1	0.66	1.2	743	0.71	0.93	1.3	U	U	1.1
freon 11	20,440	1.7	2.5	1.3	2.5	1.8	1.6	4.6	1.7	1.5	2044	1.4	1.7	1.3	1.3	1.7	1.3
freon 113	876,000	8.6	0.86 F	U	6.8	1.0 F	U	1.6	0.93 F	U	87600	U	0.93 F	U	U	0.86 F	U
freon 12	5,840	6.6	2.9	2.2	11.0	3.0	2.6	21	2.9	2.6	584	3.6	3.1	2.2	U	2.9	2.5
heptane	NA	U	U	1.0	0.67	1.3	U	U	U	U	NA	3.2	1.3	U	1.2	U	U
hexane	20,440	U	U	1.9	U	U	U	U	U	U	2044	2.3	U	U	0.9	U	U
isopropyl alcohol	NA	U	21	21	U	68	31	U	12	21	NA	50	50	35	U	U	1.2
m,p-xylene (sum of isomers)	2,920	5.4	1.9	4.0	2.1	2.4	3.4	3.8	1.7	2.7	292	1.2 F	2.1	2.9	U	1.1 F	2.7
methyl ethyl ketone	146,000	2.9	2.7	1.9	1.7	U	3.9	2.8	2.0	2.2	14600	3.3	4.1	U	U	8.7 F	U
methyl isobutyl ketone	NA	2.2	U	U	U	U	U	U	U	U	8760	U	U	U	U	U	U
methylene chloride	1,740	U	13	0.46 F	U	0.53	U	U	0.95	U	1740	U	1.3	U	U	0.92	0.56
o-xylene	2,920	2.5	0.97	1.1	1.1	0.93	0.97	1.6	0.66	0.71	292	0.44 F	0.75	0.88	U	0.44 F	0.97
styrene	NA	1.1	1.1	0.56 F	0.78	1.0	0.65	0.78	0.69	0.56 F	2920	1.1	1.0	0.82	U	U	U
tetrachloroethylene (pce)	139	U	2.7	U	1.4	U	7.4	0.83 F	U	U	102	U	U	U	U	U	U
tetrahydrofuran	NA	4.8	1.1	U	1.6	4.3	U	11	1.8	U	NA	U	U	U	U	1.3	U
toluene	146,000	5.6	4.1	6.1	3.2	4.5	6.9	4.4	3.1	2.5	14600	4.4	3.2	3.9	1	5.8	3.5
trans-1,2-dichloroethene	NA	U	U	U	U	U	U	U	U	U	NA	U	U	U	U	U	U
trichloroethylene (tce)	409	21	38	U	360	3.8	3.7	830	10	7.3	41	3.6	1.9	0.98	0.98	2.6	0.60 F
vinyl chloride	186	U	0.81	U	U	U	U	U	U	U	186	U	U	U	U	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
µg/m^3: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 785 SSVM Performance Monitoring Results Table

Sample Location	Sub-slab Vapor Screening Level (µg/m^3) [1]	785VMP-2			785VMP-4			785VMP-5		Indoor Air Screening Level (µg/m^3) [1]	785-IA		785-OA	
Sample ID		**785VMP0202AD**	**785VMP0202AE**	**785VMP0202AF**	**785VMP0401AA**	**785VMP0401AB**	**785VMP0401AC**	**785VMP0501AA**	**785VMP0501AB**		**785IA05**	**785IA06**	**785OA01**	**785786OA02**
Sample Type		**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**		**Indoor**	**Indoor**	**Outdoor**	**Outdoor**
Sample Date		**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**18-Mar-2011**	**24-Aug-2011**	**24-Oct-2011**	**25-Aug-2011**	**24-Oct-2011**		**24-Aug-2011**	**24-Oct-2011**	**24-Aug-2011**	**24-Oct-2011**
Sample Depth (ft bgs / ags)		**2.5**	**2.5**	**2.5**	**1**	**1**	**1**	**1**	**1**		**5**	**5**	**5**	**5**
Sample Collection Duration (hr)		**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**	**0.08**		**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m^3														
1,1,1-trichloroethane	146,000	U	U	U	1.7	0.72 F	U	4.8	1.8	14600	U	U	U	U
1,2,4-trimethylbenzene	175	1.5	1.4	U	0.95	6.7	1.8	2.2	1.4	18	1.7	1.4	1.3	2.6
1,3,5-trimethylbenzene	175	U	U	U	U	2.1	0.50 F	0.85	U	18	U	U	U	U
1,4-dichlorobenzene	NA	U	1.5	U	U	U	U	U	U	2336	U	U	U	U
2,2,4-trimethylpentane	NA	U	U	1.2	U	1.5	3.9	U	1.4	NA	U	0.52 F	U	0.76
4-ethyltoluene	NA	0.65 F	U	U	U	2.7	0.85	0.50 F	U	NA	U	U	U	0.65 F
acetone	NA	10	17	3.2	15	16	U	21	4.3	NA	35	11	39	12
benzene	105	2.9	0.65	2.2	4.9	4.2	8.4	0.39 F	2.6	88	U	1.3	0.39 F	1.8
bromodichloromethane	NA	U	U	U	2.6	U	U	U	U	NA	U	U	U	U
carbon disulfide	20,440	0.82	0.63	U	4.8	13	9.2	0.38 F	U	2044	U	U	U	U
carbon tetrachloride	55	U	U	0.70 F	U	U	U	U	U	55	U	U	U	U
chlorobenzene	NA	U	U	U	U	0.66 F	U	U	U	NA	U	U	U	U
chloroform	36	1.5	U	U	91	0.79	U	2.8	0.74	36	U	4.7	U	U
chloromethane	818	1.4	1.1	U	U	U	U	U	U	263	U	U	U	U
cis-1,2-dichloroethene	1,022	U	U	U	2.3	U	U	2.1	U	102	U	U	U	U
cyclohexane	175,200	1.3	0.94	1.9	6.2	9.4	8.0	U	2.9	17520	U	U	0.77	U
ethylbenzene	743	1.5	U	0.75	1.1	6.1	4.9	2.3	1.6	743	U	0.75	U	1.3
freon 11	20,440	1	1.8	1.5	0.86	1.7	1.3	2.2	2.3	2044	1.7	1.3	1.7	1.4
freon 113	876,000	U	0.78 F	U	1.1 F	0.86 F	U	0.86 F	U	87600	U	U	U	U
freon 12	5,840	2.8	3.1	2.6	2.9	2.8	2.5	2.9	2.5	584	2.8	2.3	2.9	2.2
heptane	NA	2.1	U	1.8	3.6	5.3	8.2	U	1.9	NA	U	0.71	U	1.2
hexane	20,440	6.9	U	6.1	8.2	7.9	13	U	U	2044	U	2.3	U	3.8
isopropyl alcohol	NA	U	U	U	U	U	0.62	8.2	U	NA	24	U	15	2.2
m,p-xylene (sum of isomers)	2,920	4.7	0.93 F	2.3	2.7	14	14	8.2	5.8	292	1.0 F	2.4	0.75 F	4.3
methyl ethyl ketone	146,000	3	4.1	U	2.3	2.7	U	2	U	14600	3.2	U	3.4	U
methylene chloride	1,740	1.4	U	U	0.95	U	U	3.7	U	1740	0.85	U	1.1	1.3
o-xylene	2,920	1.3	U	0.71	0.84	5.1	2.8	3	1.5	292	U	0.75	U	1.3
tetrachloroethylene (pce)	139	U	U	U	U	U	1.0	2.2	U	102	U	21	U	U
tetrahydrofuran	NA	8.2	11	U	U	U	U	U	U	NA	U	U	U	U
toluene	146,000	15	3.3	6.2	26	23	42	2.1	7.4	14600	4.2	4.0	2.3	7.2
trans-1,2-dichloroethene	NA	23	U	U	U	U	U	U	U	NA	U	U	U	U
trichloroethylene (tce)	409	U	19	8.9	720	88	33	610	140	41	1.1	U	0.82	0.82
vinyl chloride	186	U	U	U	U	U	U	U	U	186	U	U	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
µg/m^3: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 786 SSVM Performance Monitoring Results Table

Sample Location	Sub-slab Vapor Screening Level (µg/m^3)	786VMP-1			786VMP-2			786VMP-3			Indoor Air Screening Level (µg/m^3) [1]	786-IA	
Sample ID		786VMP0102AA	786VMP0102AB	786VMP0102AC	786VMP0202AA	786VMP0202AB	786VMP0202AC	786VMP0302AA	786VMP0302AB	786VMP0302AC		786IA04	786IA05
Sample Type		VMP	VMP	VMP	VMP	VMP	VMP	VMP	VMP	VMP		Indoor	Indoor
Sample Date		18-Jan-2011	24-Aug-2011	24-Oct-2011	18-Jan-2011	24-Aug-2011	24-Oct-2011	18-Jan-2011	24-Aug-2011	24-Oct-2011		24-Aug-2011	24-Oct-2011
Sample Depth (ft bgs / ags)		2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5	2.5		5	5
Sample Collection Duration (hr)		0	0.08	0.08	0	0.08	0.08	0	0.08	0.08		12	12
Volatiles (TO-15) in µg/m^3													
1,1,1-trichloroethane	146,000	12	U	U	15	4.2	3.7	16	U	U	14600	U	U
1,1-dichloroethane	NA	U	U	U	U	U	U	1.4	U	U	NA	U	U
1,2,4-trimethylbenzene	175	7.5	6.9	1.2	4.5	7.5	1.6	13	2.4	0.8	18	5.1	1.9
1,3,5-trimethylbenzene	175	5.2	1.9	U	1.7	3.1	0.55 F	9.9	0.65 F	U	18	2.6	U
2,2,4-trimethylpentane	NA	19	0.95	3.8	1.8	U	1.3	U	U	1.4	NA	0.81	U
4-ethyltoluene	NA	3.2	2.7	0.65 F	0.95	2	0.55 F	8.1	0.60 F	U	NA	1.2	0.60 F
acetone	NA	31	20	U	49	25	U	50	24	4.3	NA	49	12
benzene	105	19	3.1	9.1	4.6	0.32 F	2.2	4.7	0.32 F	4.2	88	0.91	1.3
bromodichloromethane	NA	4.0	U	U	7.4	3.2	1.7	2.9	U	U	NA	U	U
carbon disulfide	20,440	15	0.63	U	5.3	1.4	0.41 F	3.1	0.95	U	2044	U	U
carbon tetrachloride	55	U	U	0.70 F	U	U	U	U	U	0.64 F	55	U	U
chloroform	36	30	0.84	U	620	100	72	47	U	U	36	U	U
cis-1,2-dichloroethene	1,022	9.7	U	U	1.4	U	U	1.1	U	U	102	0.64	U
cyclohexane	175,200	U	2.5	5.7	U	U	U	U	U	U	17520	U	1.7
ethyl acetate	NA	U	U	U	U	1.1	U	U	U	U	9344	U	U
ethylbenzene	743	6.6	4.6	3.1	1.5	8.8	2.7	9.8	1.6	1.1	743	3	1.8
freon 11	20,440	3.0	1.8	2.6	2.7	1.7	1.4	3.2	1.7	1.5	2044	1.7	1.1
freon 113	876,000	U	0.86 F	0.78 F	3.7	1.1 F	1.1 F	3.4	0.78 F	U	87600	0.78 F	U
freon 12	5,840	3.8	2.9	U	3.5	2.8	2.3	U	2.8	2.6	584	2.8	2.0
heptane	NA	25	3.4	8.1	5.8	U	1.7	4.7	1.2	1.9	NA	1.7	0.96
hexane	20,440	52	4.9	16	U	U	U	U	U	6.8	2044	U	2.6
isopropyl alcohol	NA	U	14	U	U	U	U	U	11	U	NA	8.2	3.0
m,p-xylene (sum of isomers)	2,920	17	19	11	4.8	32	9.9	16	5.3	3.4	292	11	6.2
methyl butyl ketone	NA	U	U	U	9.2	8.7 F	U	7.6	U	U	NA	U	U
methyl ethyl ketone	146,000	U	2.3	U	15	U	U	19	6.3 F	U	14600	5.9	U
methyl isobutyl ketone	NA	U	U	U	6.7	U	U	U	U	U	8760	U	U
methylene chloride	1,740	3.8	U	U	1.4	23	2.5	U	U	U	1740	2.7	U
o-xylene	2,920	7.5	4.9	2.0	2.2	6.6	2.1	6.2 F	1.5	0.84	292	2.7	1.7
styrene	NA	U	U	U	U	2.2	U	4.8	0.95	U	2920	1.8	U
tetrachloroethylene (pce)	139	140	3.7	2.0	11	0.83 F	2.9	85	2.6	1.5	102	U	U
tetrahydrofuran	NA	U	U	U	16	U	U	36	U	U	NA	U	U
toluene	146,000	35	15	29	6.7	16	11	16	5.2	7.7	14600	8.8	9.4
trichloroethylene (tce)	409	4,900	84	49	740	260	140	2,200	51	23	41	2.5	U
vinyl chloride	186	U	U	U	U	U	U	U	U	U	186	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
µg/m^3: microgram per cubic meter
Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 774 and 776 Influent / Effluent SSVM Performance Monitoring Results Table

Sample Location	**774776- Influent**					**774776-Effluent**		
Sample ID	**774776CA01AA**	**774776CA01AB**	**774776CA01AC**	**774776CA01AD**	**774776CA01AE**	**774776CA02AA**	**774776CA02AB**	**774776CA02AC**
Sample Type	**Influent**	**Influent**	**Influent**	**Influent**	**Influent**	**Effluent**	**Effluent**	**Effluent**
Sample Date	**6-Jun-2011**	**23-Aug-2011**	**14-Oct-2011**	**14-Oct-2011**	**25-Oct-2011**	**6-Jun-2011**	**23-Aug-2011**	**25-Oct-2011**
Sample Depth (ft bgs / ags)	**na**	**na**	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3								
1,1,1-trichloroethane	6.6	4.0	6.9	6.1	6.5	U	8.8	U
1,2,4-trimethylbenzene	9.5	3.1	U	U	1.7	31	0.95	U
1,3,5-trimethylbenzene	4.7	2.2	U	U	0.55 F	9.4	U	U
2,2,4-trimethylpentane	U	U	U	U	U	0.66 F	U	U
4-ethyltoluene	6.9	1.0	U	U	U	11	U	U
acetone	50	30	300	440	27	150	4.4	11
benzene	0.45 F	4.1	0.42 F	0.7	0.97	0.71	U	U
carbon disulfide	0.73	U	U	U	U	0.82	U	U
carbon tetrachloride	U	U	U	U	0.96	U	U	U
chloroform	15	4.3	3.6	5.0	4.6	1.9	4.0	U
cis-1,2-dichloroethene	1.80	U	U	U	U	4.8	U	U
ethylbenzene	0.62 F	0.93	U	U	0.79	3.2	0.53 F	U
freon 11	50	130	83	59	49	1.8	49	26
freon 113	U	1.9	1.1 F	1.0 F	U	U	U	U
freon 12	3.7	16	6.1	6.1	6.4	U	6.0	7.3
heptane	0.83	12	U	U	0.87	4.4	U	U
m,p-xylene (sum of isomers)	1.3 F	3.3	U	U	2.4	4.1	2.3	1.0 F
methyl ethyl ketone	14	4.4	300	400	15	26	U	13
methylene chloride	2.2	U	U	U	U	25	U	U
o-xylene	0.84	1.8	U	U	1.0	2.6	0.71	U
tetrachloroethylene (pce)	3.4	2.4	2.3	12	3.5	1.5	U	U
tetrahydrofuran	120	6.0	600	770	5.2	U	8.1	U
toluene	1.8	2.2	0.96	1.4	2.2	15	0.46 F	1.0
trichloroethylene (tce)	510	240	670	1,200	650	47	250	U
vinyl chloride	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
µg/m^3: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark.

Table 2
Building 785 and 786 Influent / Effluent SSVM Performance Monitoring Results Table

Sample Location	**785786-Influent**			**785786-Effluent**		
Sample ID	**785786CA0100AA**	**785786CA01AB**	**785786CA01AC**	**785786CA0200AA**	**785786CA02AB**	**785786CA02AC**
Sample Type	**Influent**	**Influent**	**Influent**	**Effluent**	**Effluent**	**Effluent**
Sample Date	**19-May-2011**	**23-Aug-2011**	**25-Oct-2011**	**19-May-2011**	**23-Aug-2011**	**25-Oct-2011**
Sample Depth (ft bgs)	**na**	**na**	**na**	**na**	**na**	**na**
Sample Collection Duration (hr)	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**	**quick grab**
Volatiles (TO-15) in µg/m^3						
1,1,1-trichloroethane	4.8	1.4	1.6	U	1.8	U
1,2,4-trimethylbenzene	6.9	1.7	2.8	0.55 F	0.9	1.4
1,3,5-trimethylbenzene	6.3	1.5	U	U	U	U
2,2,4-trimethylpentane	300	31	33	U	U	U
4-ethyltoluene	U	0.75	U	U	U	U
acetone	180	5.1	U	5.3	8.5	U
benzene	1.9	0.81	U	U	0.49	U
bromodichloromethane	U	U	U	U	U	U
carbon disulfide	6.9	0.79	U	0.32 F	0.57	U
chloroform	59	8.1	7.8	0.74	8.9	U
cis-1,2-dichloroethene	17	4.5	3.0	0.97	5.1	U
cyclohexane	180	28	U	U	17	U
ethylbenzene	5.9	2.9	1.7	U	U	0.79
freon 11	1.4	1.8	1.5	U	1.7	1.0
freon 113	0.78 F	0.78 F	U	U	U	U
freon 12	2.4	2.7	U	1.4	2.9	U
heptane	130	30	26	U	U	U
hexane	150	13	U	U	U	U
m,p-xylene (sum of isomers)	16	6.3	6.0	0.53 F	0.75 F	2.6
methyl ethyl ketone	20	U	U	0.87	U	U
methylene chloride	1.4	U	U	U	U	U
o-xylene	6.5	3.4	1.9	U	U	0.75
tetrachloroethylene (pce)	250	52	72	U	U	U
tetrahydrofuran	510	U	U	19	11	U
toluene	5.6	3.4	3.8	0.46 F	0.8	1.9
trichloroethylene (tce)	3500	520	740	1.3	570	0.66 F
vinyl chloride	U	U	U	U	U	U

Notes:

U - Not detected.

F- Analyte detectd at or below quantitation limits

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

µg/m^3: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 3
SSVM Systems Operation and Maintenance

Field Activities	Rationale	Location	Parameters
System Component Readings	Weekly recording of system temperature, flow, vacuum and motor status to determine proper operation.	Building 774 / 776 Blower Shed and Building 785 / 786 Blower Shed	None
VMP Vacuum Measurements	Weekly recording to support sub-slab depressurization.	VMPs inside buildings as shown on Figure 3-1 and 3-6	None
Granular Activated Carbon Replacement	Predicted schedule is every two months to adsorb extracted chlorinated solvent vapors (value may changed based on effluent results from monthly sampling).	Building 774 / 776 Blower Shed and Building 785 / 786 Blower Shed	None
Indoor Air Sampling	Semi-Annually to evaluate current human exposure and to obtain site specific attenuation factors for risk assessment (ratio of indoor air to sub-slab vapor concentrations).	One sample per building as shown on Figure 3-1 and 3-6	VOC: Method TO-15 Full List
Outdoor Air Sampling	Semi-Annually to occur simultaneously with indoor air sampling to evaluate potential influence of outdoor air on indoor air sampled.	One sample per site as shown on Figure 3-1 and 3-6	VOC: Method TO-15 Full List
Sub-Slab Vapor Sampling	Semi-Annually to occur simultaneously with indoor air sampling to evaluate chlorinated solvent transport and mitigation and to obtain site specific attenuation factors for risk assessment (ratio of indoor air to sub-slab vapor concentrations).	VMPs inside buildings as shown on Figure 3-1 and 3-6	VOC: Method TO-15 Full List
Influent Sampling	Semi-Annually prior to sub-slab sampling to determine SVE.	SSVM System's exhaust stack before carbon treatment	VOC: Method TO-15 Full List
Effluent Sampling	Monthly to accurately predict schedule for GAC replacement (once an accurate prediction is obtained then effluent will not be sampled)	SSVM System's exhaust stack after carbon treatment	None

Appendix A
Photo Log

SSVM Systems Completion Report Site Photo Log

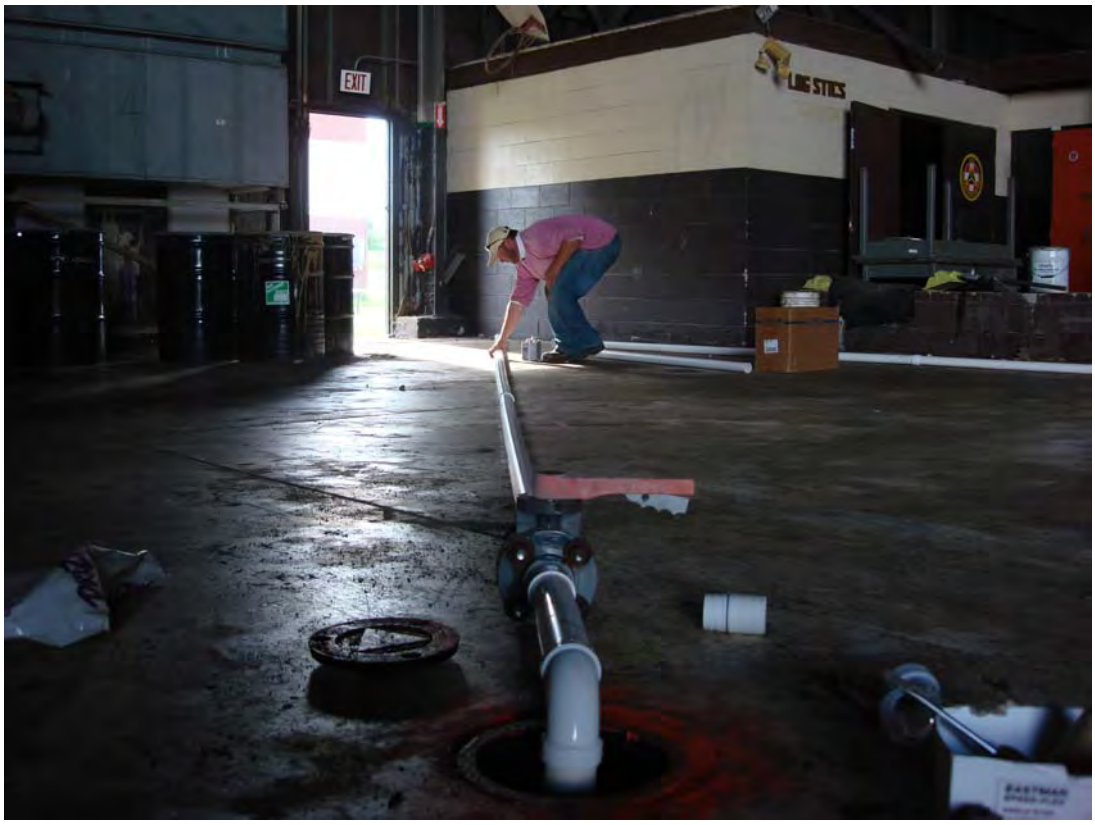
Photo No. 1	
Description: Installation of vertical extraction well, blower piping, and Building 785 pilot study vacuum monitoring points. **Facing compass direction: W**	
Photo No. 2	
Description: Baseline sampling of points using Summa canisters prior to installation of horizontal wells and vacuum systems. **Facing compass direction: W**	

Photo No. 3	
Description: Prior to drilling at Building 786 and other sites, dig safe permit is reviewed. Following site review, sensing unit and drilling bit are calibrated to establish direction, offset and distance readings. **Facing compass direction: E**	
Photo No. 4	
Description: Beginning directional bore of Building 776 horizontal well. Typical horizontal drilling setup on the southern side of Building 776 site. Picture shows directional drilling rig, drilling mud supply truck and vacuum tank to store drilling mud in background. **Facing compass direction: N**	

Photo No. 05	

Description:

Following drilling beneath Building 776, the directional drill bit is pushed upward and out of 776SSVM-1 bore.

Facing compass direction: W



Photo No. 06	

Description:

Following drilling beneath Building 776, a reamer is attached with a swivel followed by a bell housing welded to the HDPE casing with a PVC well inside.

Facing compass direction: W



Photo No. 07	

Description:

The end of the HDPE carrying casing is pulled off as well 776SSVM-1 stays in place. Note the grout tremie pipe attached to casing that is pulled into boring.

Facing compass direction: S



Photo No. 08	

Description:

Additional horizontal wells are installed by pulling well riser and screen into bore following primary boring.

Facing compass direction: N



Photo No. 09	
Description: Following installation of all PVC wells and removal of the HDPE casing from 776SSVM-1, concrete and bentonite grout is mixed and injected into the grout pipes using the tremie method. **Facing compass direction: N**	
Photo No. 10	
Description: Following installation of the PVC well and partial backfill, concrete and bentonite grout is injected into buried tremie pipes. The tremie method backfills the boring with grout to isolate the screened areas beneath the building. **Facing compass direction: E**	

Photo No. 11	
Description: Following grouting of boring annulus, area is excavated and 4" SSVM well is attached to the 6" HDPE riser drilled beneath road surface. **Facing compass direction: E**	
Photo No. 12	
Description: Location of vacuum blower shed is excavated and prepared for concrete pad. **Facing compass direction: W**	

Photo No. 13	
Description: Crushed stone is graded and compacted, followed by completion of a concrete pad for the blower shed installation. **Facing compass direction: E**	
Photo No. 14	
Description: Blower shed is delivered and placed onto new concrete pad. **Facing compass direction: S**	

Photo No. 15	
Description: Power supply (2” PVC) and both 774SSVM-1 and -2 horizontal wells (4” PVC) are backfilled with site soils and compacted. **Facing compass direction: W**	

Photo No. 16	
Description: Horizontal wells and electric power are connected to blower shed **Facing compass direction: S**	

Photo No. 17	
Description: Pneumatic bullet is used to install well 774SSVM-3 beneath Building 774. **Facing compass direction: W**	
Photo No. 18	
Description: Horizontal well 774SSVM-3 is installed and grouted beneath building's footer. **Facing compass direction: N**	

Photo No. 19	
Description: 2” Horizontal Well 774SSVM-3 is installed and connected to existing 4” well 774SSVM-2. Picture shows both wells prior to backfilling. **Facing compass direction: S**	
Photo No. 20	
Description: Following grouting and connection of 774SSVM-3 to existing 774SSVM-2 is backfilled following piping installation. **Facing compass direction: SE**	

Photo No. 21	
Description: All horizontal wells were buried to avoid freezing. 785SSVM-1 and 786SSVM-1 wells were buried in shallow excavations due to existing site utilities. **Facing compass direction: S**	
Photo No. 22	
Description: Picture shows exterior of building 774 following connection of all horizontal wells to blower units. Site restoration included backfill, grading and seeding excavated areas. **Facing compass direction: W**	

Appendix B
RWPCF Documentation

FPM remediations — Engineering and Environmental Science

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: December 13, 2010

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Request at Building 786 (nosedock 5) Griffiss Business and Technology Park, Rome, New York.

FPM is requesting the temporary discharge of drilling development water from the Building 786 horizontal well installment to the sewer system on Griffiss Business and Technology Park that connects to the City of Rome Water Pollution Control Facility. The horizontal well was installed at 10 feet below grade, as part of a soil vapor extraction system. This site has been monitored for over 10 years, and the known contaminant in the groundwater (approximately 16 ft below grade) is trichloroethylene. There was no reported contamination in the soil.

The proposed discharge will be conducted using a trash pump/frac tank system. Drilling development water was pumped into the frac tank to serve as a settling basin for suspended solids including bentonite (used as drilling mud). Proposed, the water then will be pumped into a sewer system manhole. An estimated 3,500 gallons of development water is planned on being discharged in one event. If necessary, a silt bag can be utilized to eliminate all suspended solids.

Attached are raw lab data for full list VOCs (8260) and sampling chain of custody. Also included is a figure showing the Building 786 location including the proposed sewer manhole.

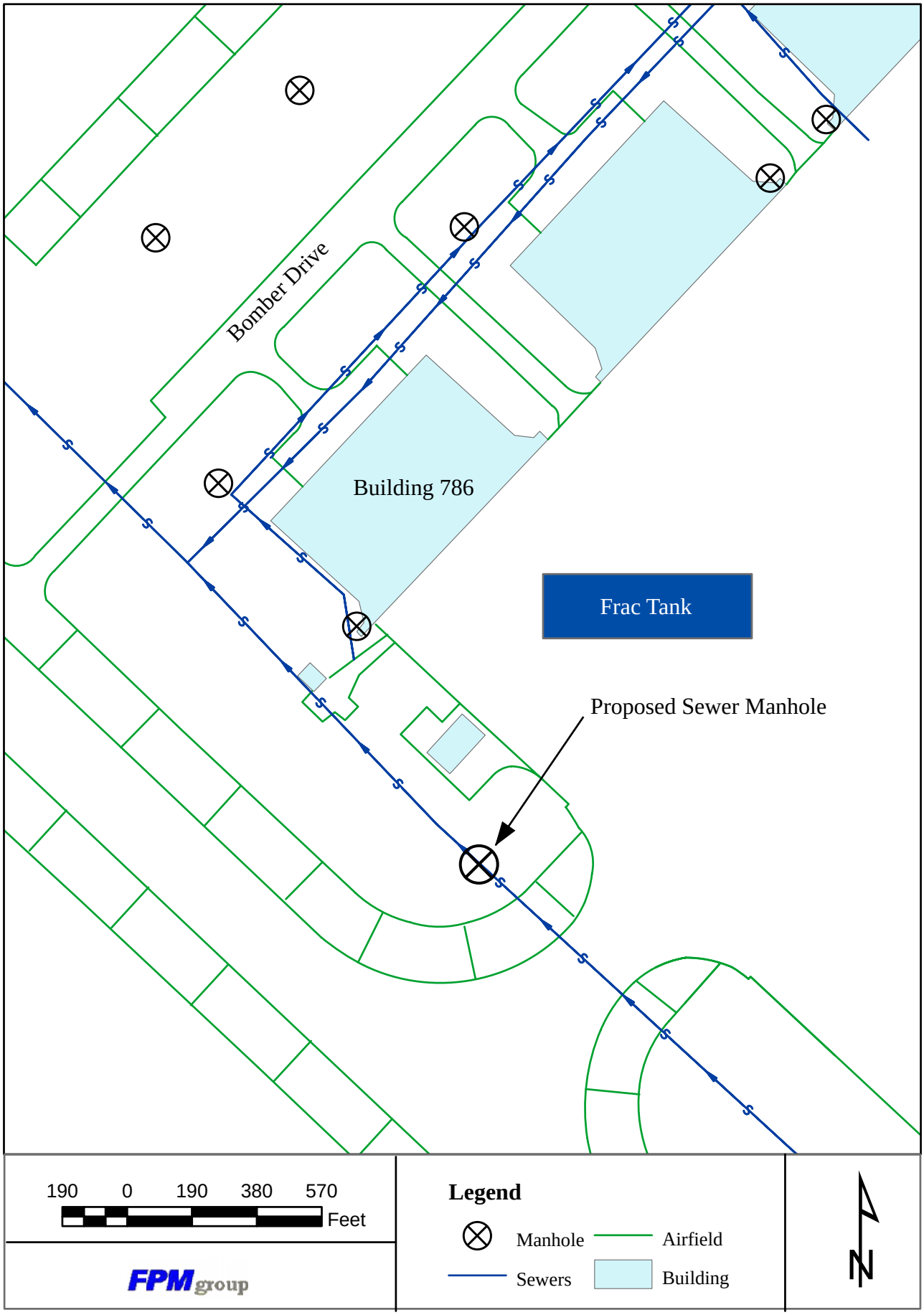
If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina J. Mattice

Katrina Mattice
Associate Engineer

Enc.
Building 786 Site / Sewer System Location Map
Lab Data Results and Chain of Custody


Bomber Drive
Building 786
Frac Tank
Proposed Sewer Manhole
190 0 190 380 570
Feet
FPM group
Legend
Manhole
Airfield
Sewers
Building
N

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	7.71	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	32.4	1		
Benzene	0.100	0.500	0.100	1		U
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.320	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		UQ
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.100	1		U
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	6.02	1		
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.150	1		F
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.480	1		F
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	91	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	95	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	497142	279816 - 1119262	
Chlorobenzene-d5	710433	446709 - 1786836	
Fluorobenzene	1903450	1180998 - 4723990	

Comments:

CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 Tel: 315-445-1105 ext.274	Project Name: Griffiss AFB B786 (1000-08-17) Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441 Phone: (315) 336-7721 Ext. 212
Carrier: LSL courier.	Sampler Signature:	

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2010	Time	MATRIX	SMCODE	SBD/SED	SACODE	No. of Containers	VOCs Note 1 40 mL glass vial (HCL)	Comments
B786DW01AA	B786-DW	12/02	1358	WG	G	0/0	N	3	3	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Note 1: VOCs: method SW 8260 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 12/3/2010	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1000	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 12/1/2010	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1000	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike

JAMES F. BROWN
MAYOR

WILLIAM BAYNES
CHIEF OPERATOR

DAVID MARINO
WORKING SUPERVISOR

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK ST.
ROME, NEW YORK 13440-6255
(315) 339-7775 FAX (315) 339-7828
www.romenewyork.com

December 14, 2010

Ms. Katrina Mattice
FPM Group
Rome, New York 13441.

RE: Permission to discharge FRAC tank water. Con tract # 1000-0817

Dear Ms. Mattice,

After a review of sampling date submitted by email on December 13, 2010, permission is herby granted to discharge this wastewater water under the following conditions:

1. Water is discharged to designated manhole south, of FRAC tank, and you inform the POTW of time of discharge.

2. Provision is made so that grit, rocks, sand, or silt is not pumped into sanitary sewer.

3. Cost to discharge is $0.04 per gallon.

4. Permission may be rescinded at any time if the POTW determines discharge may affect treatment plant process, violates any sewer use ordinance, EPA or DEC regulations.

If you have any questions please or comments please call 315-339-7775 ext 222, or email me at bclifford@romecitygov.com

Sincerely,

Bruce Clifford
IPP Coordinator

Cc: Special request/Hdrive

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: December 27, 2010

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Amount at Building 786 (nosedock 5) Griffiss Business and Technology Park, Rome, New York.

FPM discharged a total amount of 3,500 gallons of development water. The event was over a course of 4 days (December 16, 17, 20 and 21). The invoice PO number is 1000-08-17. The invoice can be sent directly to Katrina Mattice at the above address.

Attached for convenience are raw lab data for full list VOCs (8260) and sampling chain of custody.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina Mattice
Associate Engineer

Enc.
Lab Data Results and Chain of Custody

JAMES F. BROWN
MAYOR

WILLIAM BAYNES
CHIEF OPERATOR

DAVID MARINO
WORKING SUPERVISOR

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK ST.
ROME, NEW YORK 13440-6255
(315) 339-7775 FAX (315) 339-7828
www.romenewyork.com

December 28, 2010

Ms. Katrina Mattice
FPM Group
Rome, New York 13441.

RE: FRAC tank water discharge. PO # 1000-08-17

Dear Ms. Mattice,

Letter dated December 27, 2010 reported a discharge of 3,500 gallons of development water from FRAC tank located near building 786 or nose dock # 5. The discharge event occurred on 12/16, 17, 20, and 21, 2010.

The cost to discharge is $0.04 per gallon for a total of $140.00.

Enclosed is invoice in the amount of $140.00.

If you have any questions please or comments please call 315-339-7775 ext 222, or email me at bclifford@romecitygov.com

Sincerely,

Bruce Clifford
IPP Coordinator

Cc: Special request/Hdrive

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: February 22, 2011

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Request at Building 785 (nosedock 5) Griffiss Business and Technology Park, Rome, New York.

FPM is requesting the temporary discharge of drilling development water from the Building 785 horizontal well installment to the sewer system on Griffiss Business and Technology Park that connects to the City of Rome Water Pollution Control Facility. The horizontal well was installed at 8 feet below grade, as part of a soil vapor extraction system. This site has been monitored for over 10 years, and the known contaminant in the groundwater (approximately 16 ft below grade) is trichloroethylene. There was no reported contamination in the soil.

The proposed discharge will be conducted using a vacuum truck where the water will be pumped into a sewer system manhole (site location map). An estimated 3,500 gallons of development water is planned on being discharged over the course of a week. If necessary, a silt bag can be utilized to eliminate all suspended solids.

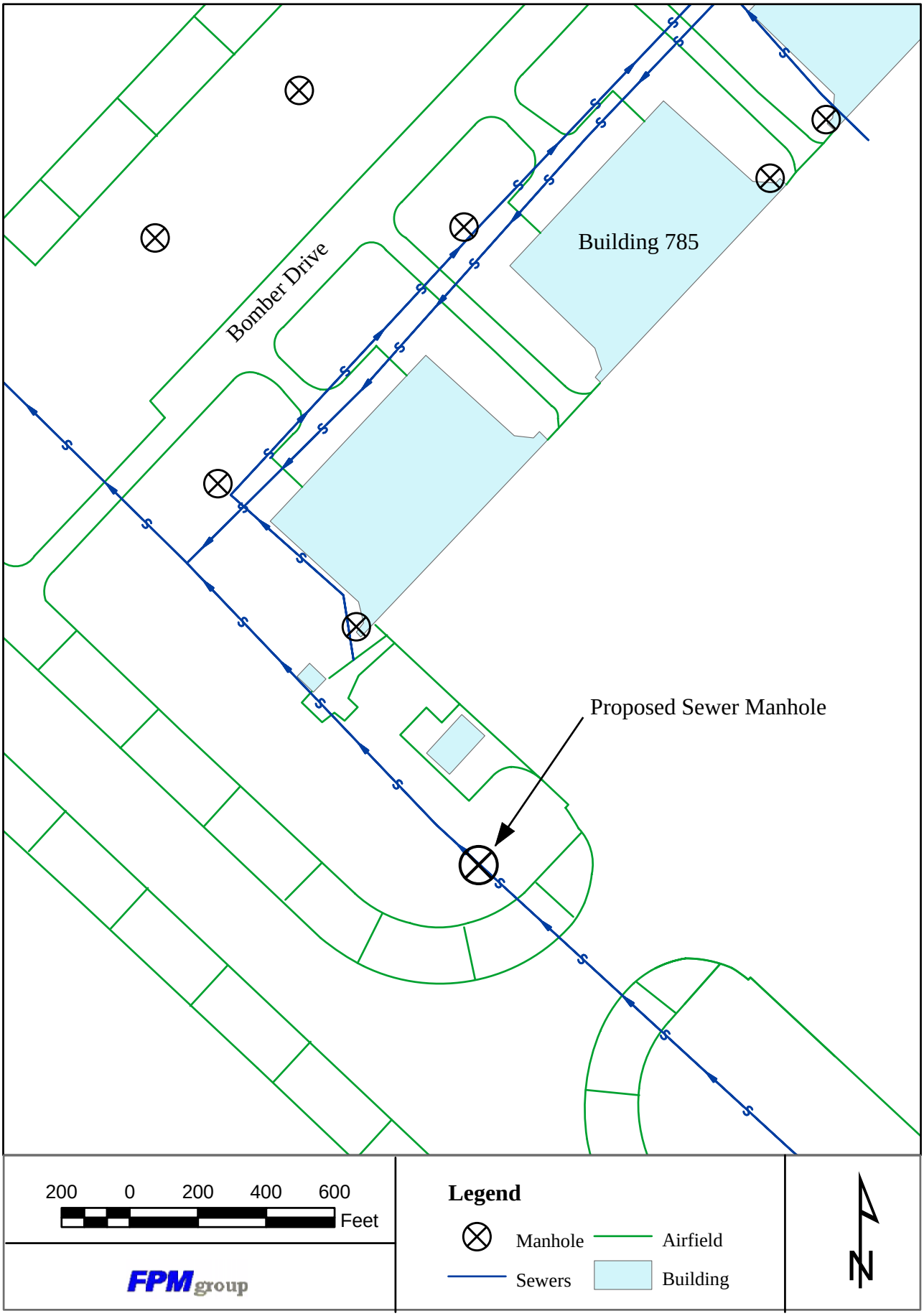
Attached are raw lab data for full list VOCs (8260) and sampling chain of custody. Also included is a figure showing the Building 785 location including the proposed sewer manhole.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina Mattice
Associate Engineer

Enc.
Building 785 Site / Sewer System Location Map
Lab Data Results and Chain of Custody


Bomber Drive
Building 785
Proposed Sewer Manhole
200 0 200 400 600
Feet
FPM group
Legend
Manhole
Airfield
Sewers
Building
N

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Friday, February 18, 2011

Katrina Mattice
FPM Group
584 Phoenix Drive
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - BLDG 786
RE: Analytical Results Order No.: K1102137

Dear Katrina Mattice:

Life Science Laboratories, Inc. received 1 sample(s) on 2/17/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

Pamela J. Titus
Project Manager

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo:

CLIENT	FPM Group	**Lab ID:**	**K1102137-001A**
Project:	Griffiss AFB - Bldg 786	**Client Sample ID:**	*789M10210A9A*
W Order:	K1102137	**Collection Date:**	02/17/11 10:00
Matrix:	GROUNDWATER	**Date Received:**	02/17/11 13:45
Inst. ID:	MS01_11 **Sample Size:** 10 mL	**PrepDate:**	
ColumnID	Rtx-VMS **%Moisture:**	**BatchNo:**	R21475
Revision:	02/18/11 11:33 **TestCode:** 8260WAF_40CA	**FileID:**	1-SAMP-T1407.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
(m+p)-Xylene	ND		4.00	0.400	µg/L	2	02/17/11 19:57
1,1,1,2-Tetrachloroethane	ND		1.00	0.320	µg/L	2	02/17/11 19:57
1,1,1-Trichloroethane	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,1,2,2-Tetrachloroethane	ND		1.00	0.200	µg/L	2	02/17/11 19:57
1,1,2-Trichloroethane	ND		2.00	0.320	µg/L	2	02/17/11 19:57
1,1-Dichloroethane	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,1-Dichloroethene	ND		2.00	0.320	µg/L	2	02/17/11 19:57
1,1-Dichloropropene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,2,3-Trichlorobenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,2,3-Trichloropropane	ND		4.00	0.660	µg/L	2	02/17/11 19:57
1,2,4-Trichlorobenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,2,4-Trimethylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,2-Dibromo-3-chloropropane	ND		10.0	2.00	µg/L	2	02/17/11 19:57
1,2-Dibromoethane	ND		2.00	0.320	µg/L	2	02/17/11 19:57
1,2-Dichlorobenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,2-Dichloroethane	ND		1.00	0.320	µg/L	2	02/17/11 19:57
1,2-Dichloropropane	ND		2.00	0.320	µg/L	2	02/17/11 19:57
1,3,5-Trimethylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,3-Dichlorobenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
1,3-Dichloropropane	ND		1.00	0.200	µg/L	2	02/17/11 19:57
1,4-Dichlorobenzene	ND		1.00	0.320	µg/L	2	02/17/11 19:57
1-Chlorohexane	ND		2.00	0.320	µg/L	2	02/17/11 19:57
2,2-Dichloropropane	ND		2.00	0.660	µg/L	2	02/17/11 19:57
2-Butanone	ND		20.0	2.00	µg/L	2	02/17/11 19:57
2-Chlorotoluene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
4-Chlorotoluene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
4-Methyl-2-pentanone	ND		20.0	2.00	µg/L	2	02/17/11 19:57
Acetone	9.94	J	20.0	2.00	µg/L	2	02/17/11 19:57
Benzene	0.340	J	1.00	0.200	µg/L	2	02/17/11 19:57
Bromobenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Bromochloromethane	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Bromodichloromethane	0.940	J	1.00	0.200	µg/L	2	02/17/11 19:57
Bromoform	ND		2.00	0.660	µg/L	2	02/17/11 19:57
Bromomethane	ND		6.00	0.660	µg/L	2	02/17/11 19:57

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo:

CLIENT	FPM Group	**Lab ID:**	**K1102137-001A**
Project:	Griffiss AFB - Bldg 786	**Client Sample ID:**	*789M10210A9A*
W Order:	K1102137	**Collection Date:**	02/17/11 10:00
Matrix:	GROUNDWATER	**Date Received:**	02/17/11 13:45
Inst. ID:	MS01_11 **Sample Size:** 10 mL	**PrepDate:**	
ColumnID	Rtx-VMS **%Moisture:**	**BatchNo:**	R21475
Revision:	02/18/11 11:33 **TestCode:** 8260WAF_40CA	**FileID:**	1-SAMP-T1407.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Carbon tetrachloride	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Chlorobenzene	ND		1.00	0.200	µg/L	2	02/17/11 19:57
Chloroethane	ND		2.00	0.660	µg/L	2	02/17/11 19:57
Chloroform	15.2		1.00	0.200	µg/L	2	02/17/11 19:57
Chloromethane	ND		2.00	0.660	µg/L	2	02/17/11 19:57
cis-1,2-Dichloroethene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
cis-1,3-Dichloropropene	ND		1.00	0.320	µg/L	2	02/17/11 19:57
Dibromochloromethane	ND		1.00	0.200	µg/L	2	02/17/11 19:57
Dibromomethane	ND		2.00	0.320	µg/L	2	02/17/11 19:57
Dichlorodifluoromethane	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Ethylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Hexachlorobutadiene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Isopropylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Methyl tert-butyl ether	ND		10.0	0.320	µg/L	2	02/17/11 19:57
Methylene chloride	0.620	J	2.00	0.320	µg/L	2	02/17/11 19:57
n-Butylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
n-Propylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Naphthalene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
o-Xylene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
p-Isopropyltoluene	ND		2.00	0.320	µg/L	2	02/17/11 19:57
sec-Butylbenzene	ND		2.00	0.320	µg/L	2	02/17/11 19:57
Styrene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
tert-Butylbenzene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Tetrachloroethene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Toluene	0.700	J	2.00	0.200	µg/L	2	02/17/11 19:57
trans-1,2-Dichloroethene	ND		2.00	0.200	µg/L	2	02/17/11 19:57
trans-1,3-Dichloropropene	ND		2.00	0.320	µg/L	2	02/17/11 19:57
Trichloroethene	1.54	J	2.00	0.200	µg/L	2	02/17/11 19:57
Trichlorofluoromethane	ND		2.00	0.200	µg/L	2	02/17/11 19:57
Vinyl chloride	ND		2.00	0.660	µg/L	2	02/17/11 19:57
Xylenes (total)	ND		4.00	0.600	µg/L	2	02/17/11 19:57
Surr: 1,2-Dichloroethane-d4	119		72-119	0.320	%REC	2	02/17/11 19:57
Surr: 4-Bromofluorobenzene	107		76-119	0.200	%REC	2	02/17/11 19:57
Surr: Toluene-d8	117		81-120	0.200	%REC	2	02/17/11 19:57

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 02/18/11 11:33 547902 **Project Supervisor:** Pamela J. Titus

CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 Tel: 315-445-1105 ext.274	Project Name: Griffiss AFB B786 (1000-08-17) Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441 Phone: (315) 336-7721 Ext. 212
Carrier: LSL courier.	Sampler Signature:	

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	No. of Containers	VOCs Note 1 40 mL glass vial (HCL)	Comments
B785DW01AA	B785-DW	2/17	1000	WG	G	0/0	N	3	3	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Note 1: VOCs: method SW 8260 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 2/17/2011	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1040	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 2/17/2011	#2 Received by: (Sig) Bill Donaldson	Date: 2-17-11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1000	Company Name: Life Science Labs	Time: 10:40	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 **(315) 445-1105**

Monday, February 28, 2011

Katrina Mattice
FPM Group
584 Phoenix Drive
Rome, NY 13441

TEL:

Project: GRIFFISS AFB - BLDG 786
RE: Analytical Results Order No.: K1102217

Dear Katrina Mattice:

Life Science Laboratories, Inc. received 1 sample(s) on 2/24/2011 for the analyses presented in the following report. Sample results relate only to the samples as received by the laboratory.

Very truly yours,
Life Science Laboratories, Inc.

Pamela J. Titus, P.M.

Pamela J. Titus
Project Manager

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo:

CLIENT	FPM Group	**Lab ID:**	**K1102217-001A**
Project:	Griffiss AFB - Bldg 786	**Client Sample ID:**	***785MUD2AA***
W Order:	K1102217	**Collection Date:**	02/22/11 0:00
Matrix:	GROUNDWATER	**Date Received:**	02/24/11 16:42
Inst. ID:	MS03_10 **Sample Size** 10 mL	**PrepDate:**	
ColumnID:	Rtx-502.2 **%Moisture:**	**BatchNo:**	R21514
Revision:	02/28/11 8:18 **TestCode:** 8260WAF_40CA	**FileID:**	1-SAMP-J2045.D
Col Type:			

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
(m+p)-Xylene	ND		2.00	0.200	µg/L	1	02/25/11 13:21
1,1,1,2-Tetrachloroethane	ND		0.500	0.160	µg/L	1	02/25/11 13:21
1,1,1-Trichloroethane	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,1,2,2-Tetrachloroethane	ND		0.500	0.100	µg/L	1	02/25/11 13:21
1,1,2-Trichloroethane	ND		1.00	0.160	µg/L	1	02/25/11 13:21
1,1-Dichloroethane	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,1-Dichloroethene	ND		1.00	0.160	µg/L	1	02/25/11 13:21
1,1-Dichloropropene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,2,3-Trichlorobenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,2,3-Trichloropropane	ND		2.00	0.330	µg/L	1	02/25/11 13:21
1,2,4-Trichlorobenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,2,4-Trimethylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,2-Dibromo-3-chloropropane	ND		5.00	1.00	µg/L	1	02/25/11 13:21
1,2-Dibromoethane	ND		1.00	0.160	µg/L	1	02/25/11 13:21
1,2-Dichlorobenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,2-Dichloroethane	ND		0.500	0.160	µg/L	1	02/25/11 13:21
1,2-Dichloropropane	ND		1.00	0.160	µg/L	1	02/25/11 13:21
1,3,5-Trimethylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,3-Dichlorobenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
1,3-Dichloropropane	ND		0.500	0.100	µg/L	1	02/25/11 13:21
1,4-Dichlorobenzene	ND		0.500	0.160	µg/L	1	02/25/11 13:21
1-Chlorohexane	ND		1.00	0.160	µg/L	1	02/25/11 13:21
2,2-Dichloropropane	ND		1.00	0.330	µg/L	1	02/25/11 13:21
2-Butanone	40.1		10.0	1.00	µg/L	1	02/25/11 13:21
2-Chlorotoluene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
4-Chlorotoluene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
4-Methyl-2-pentanone	ND		10.0	1.00	µg/L	1	02/25/11 13:21
Acetone	315	E	10.0	1.00	µg/L	1	02/25/11 13:21
Benzene	0.230	J	0.500	0.100	µg/L	1	02/25/11 13:21
Bromobenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Bromochloromethane	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Bromodichloromethane	1.61		0.500	0.100	µg/L	1	02/25/11 13:21
Bromoform	ND		1.00	0.330	µg/L	1	02/25/11 13:21
Bromomethane	ND		3.00	0.330	µg/L	1	02/25/11 13:21

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 02/28/11 8:29 548545 **roject Supervisor:** Pamela J. Titus

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105
StateCertNo:

Analytical Results

CLIENT	FPM Group			**Lab ID:**	**K1102217-001A**
Project:	Griffiss AFB - Bldg 786			**Client Sample ID:**	***785MUD2AA***
W Order:	K1102217			**Collection Date:**	02/22/11 0:00
Matrix:	GROUNDWATER			**Date Received:**	02/24/11 16:42
Inst. ID:	MS03_10	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-502.2	**%Moisture:**		**BatchNo:**	R21514
Revision:	02/28/11 8:18	**TestCode:**	8260WAF_40CA	**FileID:**	1-SAMP-J2045.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Carbon tetrachloride	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Chlorobenzene	ND		0.500	0.100	µg/L	1	02/25/11 13:21
Chloroethane	ND		1.00	0.330	µg/L	1	02/25/11 13:21
Chloroform	15.5		0.500	0.100	µg/L	1	02/25/11 13:21
Chloromethane	ND		1.00	0.330	µg/L	1	02/25/11 13:21
cis-1,2-Dichloroethene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
cis-1,3-Dichloropropene	ND		0.500	0.160	µg/L	1	02/25/11 13:21
Dibromochloromethane	ND		0.500	0.100	µg/L	1	02/25/11 13:21
Dibromomethane	ND		1.00	0.160	µg/L	1	02/25/11 13:21
Dichlorodifluoromethane	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Ethylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Hexachlorobutadiene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Isopropylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Methyl tert-butyl ether	ND		5.00	0.160	µg/L	1	02/25/11 13:21
Methylene chloride	1.47		1.00	0.160	µg/L	1	02/25/11 13:21
n-Butylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
n-Propylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Naphthalene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
o-Xylene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
p-Isopropyltoluene	ND		1.00	0.160	µg/L	1	02/25/11 13:21
sec-Butylbenzene	ND		1.00	0.160	µg/L	1	02/25/11 13:21
Styrene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
tert-Butylbenzene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Tetrachloroethene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Toluene	0.700	J	1.00	0.100	µg/L	1	02/25/11 13:21
trans-1,2-Dichloroethene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
trans-1,3-Dichloropropene	ND		1.00	0.160	µg/L	1	02/25/11 13:21
Trichloroethene	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Trichlorofluoromethane	ND		1.00	0.100	µg/L	1	02/25/11 13:21
Vinyl chloride	ND		1.00	0.330	µg/L	1	02/25/11 13:21
Xylenes (total)	ND		2.00	0.300	µg/L	1	02/25/11 13:21
Surr: 1,2-Dichloroethane-d4	112		72-119	0.160	%REC	1	02/25/11 13:21
Surr: 4-Bromofluorobenzene	101		76-119	0.100	%REC	1	02/25/11 13:21
Surr: Toluene-d8	110		81-120	0.100	%REC	1	02/25/11 13:21

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 02/28/11 8:29 548545 **roject Supervisor:** Pamela J. Titus

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo:

CLIENT	FPM Group			**Lab ID:**	**K1102217-001ADL**
Project:	Griffiss AFB - Bldg 786			**Client Sample ID:**	***785MUD2AA***
W Order:	K1102217			**Collection Date:**	02/22/11 0:00
Matrix:	GROUNDWATER			**Date Received:**	02/24/11 16:42
Inst. ID:	MS03_10	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-502.2	**%Moisture:**		**BatchNo:**	R21514
Revision:	02/28/11 8:18	**TestCode:**	8260WAF_40CA	**FileID:**	1-DL-J2047.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
(m+p)-Xylene	ND		20.0	2.00	µg/L	10	02/25/11 14:26
1,1,1,2-Tetrachloroethane	ND		5.00	1.60	µg/L	10	02/25/11 14:26
1,1,1-Trichloroethane	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,1,2,2-Tetrachloroethane	ND		5.00	1.00	µg/L	10	02/25/11 14:26
1,1,2-Trichloroethane	ND		10.0	1.60	µg/L	10	02/25/11 14:26
1,1-Dichloroethane	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,1-Dichloroethene	ND		10.0	1.60	µg/L	10	02/25/11 14:26
1,1-Dichloropropene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,2,3-Trichlorobenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,2,3-Trichloropropane	ND		20.0	3.30	µg/L	10	02/25/11 14:26
1,2,4-Trichlorobenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,2,4-Trimethylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,2-Dibromo-3-chloropropane	ND		50.0	10.0	µg/L	10	02/25/11 14:26
1,2-Dibromoethane	ND		10.0	1.60	µg/L	10	02/25/11 14:26
1,2-Dichlorobenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,2-Dichloroethane	ND		5.00	1.60	µg/L	10	02/25/11 14:26
1,2-Dichloropropane	ND		10.0	1.60	µg/L	10	02/25/11 14:26
1,3,5-Trimethylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,3-Dichlorobenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
1,3-Dichloropropane	ND		5.00	1.00	µg/L	10	02/25/11 14:26
1,4-Dichlorobenzene	ND		5.00	1.60	µg/L	10	02/25/11 14:26
1-Chlorohexane	ND		10.0	1.60	µg/L	10	02/25/11 14:26
2,2-Dichloropropane	ND		10.0	3.30	µg/L	10	02/25/11 14:26
2-Butanone	32.7	J	100	10.0	µg/L	10	02/25/11 14:26
2-Chlorotoluene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
4-Chlorotoluene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
4-Methyl-2-pentanone	ND		100	10.0	µg/L	10	02/25/11 14:26
Acetone	179		100	10.0	µg/L	10	02/25/11 14:26
Benzene	ND		5.00	1.00	µg/L	10	02/25/11 14:26
Bromobenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Bromochloromethane	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Bromodichloromethane	1.50	J	5.00	1.00	µg/L	10	02/25/11 14:26
Bromoform	ND		10.0	3.30	µg/L	10	02/25/11 14:26
Bromomethane	ND		30.0	3.30	µg/L	10	02/25/11 14:26

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 02/28/11 8:29 548546 **roject Supervisor:** Pamela J. Titus

Life Science Laboratories, Inc.
5854 Butternut Drive
East Syracuse, NY 13057 (315) 445-1105

Analytical Results

StateCertNo:

CLIENT	FPM Group			**Lab ID:**	K1102217-001ADL
Project:	Griffiss AFB - Bldg 786			**Client Sample ID:**	*785MUD2AA*
W Order:	K1102217			**Collection Date:**	02/22/11 0:00
Matrix:	GROUNDWATER			**Date Received:**	02/24/11 16:42
Inst. ID:	MS03_10	**Sample Size**	10 mL	**PrepDate:**	
ColumnID:	Rtx-502.2	**%Moisture:**		**BatchNo:**	R21514
Revision:	02/28/11 8:18	**TestCode:**	8260WAF_40CA	**FileID:**	1-DL-J2047.D
Col Type:					

Analyte	Result	Qual	PQL	MDL	Units	DF	Date Analyzed
VOLATILE ORGANIC COMPOUNDS BY GC/MS					**SW8260B**		
Carbon tetrachloride	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Chlorobenzene	ND		5.00	1.00	µg/L	10	02/25/11 14:26
Chloroethane	ND		10.0	3.30	µg/L	10	02/25/11 14:26
Chloroform	14.5		5.00	1.00	µg/L	10	02/25/11 14:26
Chloromethane	ND		10.0	3.30	µg/L	10	02/25/11 14:26
cis-1,2-Dichloroethene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
cis-1,3-Dichloropropene	ND		5.00	1.60	µg/L	10	02/25/11 14:26
Dibromochloromethane	ND		5.00	1.00	µg/L	10	02/25/11 14:26
Dibromomethane	ND		10.0	1.60	µg/L	10	02/25/11 14:26
Dichlorodifluoromethane	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Ethylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Hexachlorobutadiene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Isopropylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Methyl tert-butyl ether	ND		50.0	1.60	µg/L	10	02/25/11 14:26
Methylene chloride	ND		10.0	1.60	µg/L	10	02/25/11 14:26
n-Butylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
n-Propylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Naphthalene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
o-Xylene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
p-Isopropyltoluene	ND		10.0	1.60	µg/L	10	02/25/11 14:26
sec-Butylbenzene	ND		10.0	1.60	µg/L	10	02/25/11 14:26
Styrene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
tert-Butylbenzene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Tetrachloroethene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Toluene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
trans-1,2-Dichloroethene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
trans-1,3-Dichloropropene	ND		10.0	1.60	µg/L	10	02/25/11 14:26
Trichloroethene	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Trichlorofluoromethane	ND		10.0	1.00	µg/L	10	02/25/11 14:26
Vinyl chloride	ND		10.0	3.30	µg/L	10	02/25/11 14:26
Xylenes (total)	ND		20.0	3.00	µg/L	10	02/25/11 14:26
Surr: 1,2-Dichloroethane-d4	112		72-119	1.60	%REC	10	02/25/11 14:26
Surr: 4-Bromofluorobenzene	99		76-119	1.00	%REC	10	02/25/11 14:26
Surr: Toluene-d8	108		81-120	1.00	%REC	10	02/25/11 14:26

Qualifiers:

*	Value exceeds Maximum Contaminant Level	B	Analyte detected in the associated Method Blank
E	Value exceeds the instrument calibration range	H	Holding times for preparation or analysis exceeded
J	Analyte detected below the PQL	ND	Not Detected at the Practical Quantitation Limit (PQL)
P	Prim./Conf. column %D or RPD exceeds limit	S	Spike Recovery outside accepted recovery limits

Print Date: 02/28/11 8:29 548546 **roject Supervisor:** Pamela J. Titus

CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 Tel: 315-445-1105 ext.274	Project Name: Griffiss AFB B786 (1000-08-17) Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: LSL courier.	Sampler Signature: K. Mattice	Phone: (315) 336-7721 Ext. 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	No. of Containers	VOCs Note 1 40 mL glass vial (HCL)	Comments
785MUD2AA	785-MUD	2/22	1730	WG	G	0/0	N	3	3	Slight sheen.

Sample Condition Upon Receipt at Laboratory: Cooler temperature:
Note 1: VOCs: method SW 8260 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K Mattice	Date: 2/22/2011	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1630	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 2/22/2011	#2 Received by: (Sig)	Date:	#3 Received by: (Sig) R. Dunbar	Date: 02-24-11 16:42 IN
Company Name: FPM Remediations Inc	Time: 1000	Company Name:	Time:	Company Name: 0.4°C on ice	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike

Life Science Laboratories, Inc.

Sample Receipt Checklist

Client Name: **FPM**

Date and Time Received: **2/24/2011 4:42:00 PM**

Work Order Number: **K1102217**

Received by: rsd

Checklist completed by: _____ 2/25/11
Initials Date

Reviewed by: _____
Initials Date

Delivery Method: Hand Delivered

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shipping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Applicable ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	Yes ☑	No ☐	No VOA vials submitted ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☐	Not Applicable ☑

Comments:

Corrective Action:

JAMES F. BROWN
MAYOR

WILLIAM BAYNES
CHIEF OPERATOR

DAVID MARINO
WORKING SUPERVISOR

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK ST.
ROME, NEW YORK 13440-6255
(315) 339-7775 FAX (315) 339-7828
www.romenewyork.com

March 1, 2011

Ms. Katrina Mattice
FPM Group
Rome, New York 13441.

RE: Permission to discharge FRAC tank water.

Dear Ms. Mattice,

After a review of sampling date submitted by email on February 22, 2011, permission is herby granted to discharge this wastewater water under the following conditions:

1. Water is discharged to designated manhole south, of FRAC tank, and you inform the POTW of time of discharge.

2. Provision is made so that grit, rocks, sand, or silt is not pumped into sanitary sewer.

3. Cost to discharge is $0.04 per gallon.

4. Permission may be rescinded at any time if the POTW determines discharge may affect treatment plant process, violates any sewer use ordinance, EPA or DEC . regulations.

If you have any questions please or comments please call 315-339-7775 ext 222, or email me at bclifford@romecitygov.com

Sincerely,

Bruce Clifford
IPP Coordinator

Cc: Special request/Hdrive

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: March 15, 2011

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Amount at Building 785 (nosedock 4) Griffiss Business and Technology Park, Rome, New York.

FPM discharged a total amount of 300 gallons of development water. The event was over a course of 1 day. The invoice PO number is 1000-08-17. The invoice can be sent directly to Katrina Mattice at the above address.

Attached for convenience are raw lab data for full list VOCs (8260) and sampling chain of custody.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina J. Mattice

Katrina Mattice
Associate Engineer

Enc.
Lab Data Results and Chain of Custody

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: June 2, 2011

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Amount at Building 785 (nosedock 4) Griffiss Business and Technology Park, Rome, New York.

FPM discharged a total amount of 500 gallons of development water. The event was over a course of 1 day, on March 30, 2011. The invoice PO number is 1000-08-17. The invoice can be sent directly to Katrina Mattice at the above address.

Attached for convenience are raw lab data for full list VOCs (8260) and sampling chain of custody.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina Mattice
Associate Engineer

Enc.
Lab Data Results and Chain of Custody

Appendix C
Field Forms

Field Forms
Baseline Sampling Building 785 and 786
January 18, March 18 and May 19, 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/JP

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-2

Date (**LOGDATE**): 3/10/2011 Weather: SUN/50°

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1434	19.6	0.0	0.0

Sample Time: 1435 Sample ID: 785VMP020ZAD

Container # 368

Regulator # 186

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/JP

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-4

Date (**LOGDATE**): 3/18/2011 Weather: sun / 50°

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1440	18.5	0	123

Sample Time: 1442 Sample ID: 785VMP0401AA

Container # 349

Regulator # 145

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/JP

Location and Site Code (SITEID): B785

Well No. (LOCID): 785VMP-5

Date (LOGDATE): 3/18/2011 Weather: Sun / 50°

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
			57

Sample Time: _____ Sample ID: _____

Container # 95

Regulator # 155

No sample, water in-line

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: JP/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): B786VMP-01

Date (**LOGDATE**): 1/18/2011 Weather: 25°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1210	14.6	3.2	2,047

Sample Time: 1215 Sample ID: 786VMP0102AA

Container # 420

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: JP/KM

Location and Site Code (SITEID): B786

Well No. (LOCID): B786VMP-02

Date (LOGDATE): 1/18/2011 Weather: 25°F/ cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1230	20.5	0.0	279

Sample Time: 1235 Sample ID: 786VMP02O2AA

Container # 428

SOIL GAS SAMPLING FORM

Project: 1600-08-17 Sampled by: JP/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): B786VMP-03

Date (**LOGDATE**): 1/18/2011 Weather: 25°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1220	16.2	3.6	803

Sample Time: 1225 Sample ID: 786VMP0302AA

Container # 241

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/JW

Location and Site Code (**SITEID**): B785/786

Well No. (**LOCID**): TOTAL System INFluent

Date (**LOGDATE**): 5/19/11 Weather: Sun / 65°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1410	—	-	2,209

Sample Time: 1415 Sample ID: 785786CA02200AA

Container # 95

Background = 28ppb

INF Treatment w/ 1 drum = 136ppb

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: RM/JW

Location and Site Code (**SITEID**): B785/786

Well No. (**LOCID**): TOTAL System Effluent

Date (**LOGDATE**): 5/19/11 Weather: Sun / 65°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1420	—	—	28

background 28 ppb

Sample Time: 1425 Sample ID: 785786CA00AA

Container # 85

Field Forms
Stepped Rate Test Building 785 and 786
May 18, 2011

Start up 1307

Sub-Slab Vapor Mitigation Stepped-Rate Test

Patm = 30.04 in Hg

Date:	5/18/2011
conducted by:	km/JP
Extraction Wells:	785 SVM-1

Baseline –
vacuum wellhead = 0 in Hg
Temp = 62°F
ΔP = 0 in w.g.

	Test Number	Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)
1312	0 1	~~0.5~~ -24	56	0.4
1317	1/2 2	~~0.8~~ -24	56	0.3
1322	1 3	~~0.8~~ -24	56	0.3
1327	1 1/2 4	~~+.0~~ -25	56	0.3
1332	2 5	~~+.0~~ -26	56	0.3
1337	2 1/2 6	~~+.0~~ -26	56	0.3
1342	3 7	-27 in Hg	56	0.4
1347	3.5 8	-28	56	0.4
1352	4.0 9	-30	56	0.5
1357	4.5 10	-32	56	0.5
1402	5 11	-34	56	0.6
1407	5.5 12	-36	56	0.6
1412	6 13	-39	56	0.7
1417	6.5 14	-42	56	0.8
1422	7 15	-43	56	0.8
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			

Start up 1307

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	5/18/2011
conducted by:	KM / JP
Extraction Wells:	7865SVM-1

Patm = 30.04 in Hg
Baseline Vac well head = 0 in w.g.
temp = 66°F
ΔP = 0 in w.g.

Test Number		Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)
0	1	-22	60	0.4
1/2	2	-22	58	0.3
1	3	-22	58	0.4
1 1/2	4	-23	58	0.4
2	5	-24	58	0.4
2 1/2	6	-25	58	0.4
3	7	-26	58	0.5
3.5	8	-26	58	0.5
4	9	-28	58	0.6
4.5	10	-29	57	0.6
5	11	-32	57	0.7
5.5	12	-34	57	0.7
6	13	-37	56	6.8
6.5	14	-40	56	0.9
7	15	-41	56	1.0
	16			
	17			
	18			
	19			
	20			
	21			
	22			
	23			
	24			
	25			
	26			

closed

start up time 1307

Patm = 30.04 in Hg

Sub-Slab Vapor Mitigation Stepped-Rate Test

Baseline =
Vac blower = 1 in H.g.
Temp = 64°F, After 64°F
Δp = 0 in w.g.

Date:	5/18/2011
conducted by:	JP/Kim
Extraction Wells:	Total System

Test Number	Vacuum (~~well head~~ blower) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	After heat exchanger temperature (deg F)
0 2	3	~~105~~ 60/105	1.6	92
1/2 2	3.5	60/110	1.6	98
1 3	3.5	60/113	1.6	100
1.5 4	3.75	60/115	1.6	101
2.0 6	3.90	60/115	1.7	104
2.5 6	4.0	59/116	1.7	106
3.0 7	4.1	59/118	1.9	106
3.5 8	4.3	59/119	2.0	108
4.0 9	4.5	59/120	2.3	* 100 * TURN ON AFTER COOLER
4.5 10	~4.65	59/121	2.5	99
5.0 11	5.0	59/124	2.8	100
5.5 12	5.25	59/125	3.2	101
6.0 13	5.5	59/127	3.4	102
6.5 14	5.75	59/130	4.0	104
7.0 15	6.0	59/130	4.2	106
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Field Forms
ROI Test Building 785 and 786
March 24 and May 19, 2011

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	3/24			
conducted by:	JP/MG/KM			
Extraction Wells:	785SSVM-1		Paim (inch hg):	29.8
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Blower Temperature (Deg F)
well head	52	Well 1	0.6	40
before filter	—			
after filter	—			

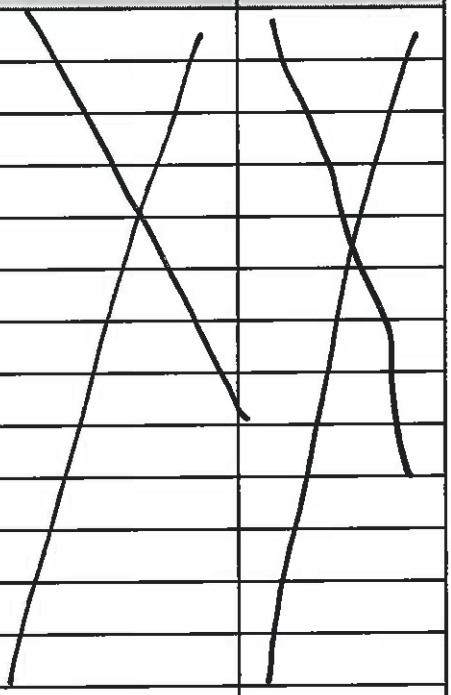
FLOW RATE = 93.46

Well ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
785VMP-4 30ft	Baseline	0		
	10:45 start up			
	1min	0		
	3min	.25		
	5	.50		
	10	.90		
	15	1.0		
	20	1.1		
	30	1.25		
	60	1.27		
	120	1.28		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	3/24			
conducted by:	JP/MG/KM			
Extraction Wells:	785 SSVM - 1		Patm (inch hg):	29.8
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Blower Temperature (Deg F)
well head	52	Well 1	0.6	40
before filter	—			
after filter	—			

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
785VMP-5	Baseline			
	start up			
	1 min	0		
	3 min	0		
~~15~~ 60 ft	5	0		
	10	.05		
	15	.07		
	20	.07		
	30	.06		
	60	.055		
	120	0		



Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	3/24			
conducted by:	JP/MG/KM			
Extraction Wells:	786 SSVM-1		Patm (inch hg):	29.8
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	~~Blower~~ Temperature (Deg F)
well head	49	Well 1	1.2	45
before filter	—			
after filter	—			

Well ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
	Baseline	0	0	0
	start up			
786VMP-~~3~~ 1	1 min	0.5	1.75	3.2
~~45ft~~	~~5~~ min	~~0.~~ 1.6	3.9	6.9
15ft	8	2.0	4.6	8.1
	10	2.2	5.0	8.6
	15	2.4	5.4	9.3
	20	2.6	4.7	9.7
	30	2.8	6.0	10.0
	60	2.8	6.1	10.0
	120	2.8	6.3	10

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	3/24			
conducted by:	JP/MG/KM			
Extraction Wells:	786SSVM-1		Patm (inch hg):	29.8
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	~~Blower~~ Temperature (Deg F) pipe
well head	49	Well 1	1.2	~~[illegible]~~ 45
before filter				
after filter				

FLOW RATE = 134.
135.0

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
W45, 786VMP-3 45ft	Baseline	0	0	0
	start up			
	1 min	.05	.085	.105
	5 min	0.55	0.6	0.75
	8	0.9	1.0	1.05
	10	1.15	1.25	1.30
	15	~~1.~~ 1.55	1.7	1.75
	20	1.825	1.975	2.0
	30	2.0	2.1	2.2
	60	2.0	2.2	2.3
	120	2.1	2.3	2.4

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/11
conducted by:	JW
Extraction Wells:	7855SVM-1

Vacuum Gauge	Vacuum (inch w.g.)	Magnehelic Gauge	Differential Pressure (inch w.g.)	Blower Temperature (Deg F)
well head		well 1		
before filter		well 2		
after filter		well 3		

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
7855VMP-2 15 ft	Baseline	0		
	start up	0		
	1 min	.05		
	3 min	.15		
	5	.20		
	10	.28		
	15	.30		
	20	.32		
	30	.34		
	60	.35		
	120	.35		
	180	0.35		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/16			
conducted by:	JW			
Extraction Wells:	785SSVM-1			
Vacuum Gauge	Vacuum (inch w.g.)	Magnehelic Gauge	Differential Pressure (inch w.g.)	Blower Temperature (Deg F)
well head		well 1		
before filter		well 2		
after filter		well 3		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
785VMP-4 30ft	Baseline	0		
	start up	0		
	1 min	.05		
	3	.45		
	5	.75		
	10	1.10		
	15	1.30		
	20	1.45		
	30	1.58		
	60	1.70		
	120	1.70		
	180	1.70		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/11
conducted by:	JW
Extraction Wells:	7855SVM-1

Vacuum Gauge	Vacuum (inch w.g.)	Magnehelic Gauge	Differential Pressure (inch w.g.)	~~Blower~~ Temperature (Deg F)
well head		well 1		
before filter		well 2		
after filter		well 3		

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
7855VMP-5 60ft	Baseline	0		
	start up	[redacted] 0		
	1 min	[redacted] .05		
	3	[redacted] .12		
	5	[redacted] .15		
	10	[redacted] .22		
	15	.25		
	20	.30		
	30	.32		
	60	.36		
	120	.36		
	180	0.35		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/11
conducted by:	KM
Extraction Wells:	786SSVM-1

Patm = 30.00 in Hg

Vacuum Gauge	Vacuum (inch w.g)	Magnehelic Gauge:	Differential Pressure (inch w g)	~~Blower~~ Temperature (Deg F)
785 well head	-39 to -40	785 well 1	0.8	57
~~786~~ before filter	-42	786 well 2	1.0	58
~~after filter~~		~~well 3~~		

11 min ck at 20 min ck at 60 min

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w g)	Deep Vacuum (inch w.g)
786VMP-1 15ft	Baseline	0		
	start up	0.15		
	2	0.95		
	3	1.20		
	5	1.65		
	10	2.2		
	15	2.4		
	20	2.6		
	30	2.8		
	60	2.8		
	120	2.8		
	180	2.8		

11 minute TOTAL system

ck at 20 min Vac = 5.5 in Hg

ck at 60 min ΔP = 4.3 in w.g. Temp = 60°F

11 min

~~After~~ blower temp = 124°F

After heat exchanger temp = 104°F

60 min = 130°F / 108°F

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/11
conducted by:	KM/JW
Extraction Wells:	786SSVM-1

Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Blower Temperature (Deg F)
well head		well 1		
before filter		well 2		
after filter		well 3		

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
786VMP-2 30ft	Baseline	0		
	start up	0		
	3	0		
	5	0.02		
	10	0.035		
	15	0.045		
	20	0.04		
	30	0.045		
	60	0.045		
	120	0.05		
	180	0.05		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	5/19/11
conducted by:	KM
Extraction Wells:	786SSVM-1

Vacuum Gauge	Vacuum (inch w g)	Magnehelic Gauge	Differential Pressure (inch w.g.)	~~Blower~~ Temperature (Deg F)
well head 1		well 1		
2 ~~before filter~~		well 2		
3 ~~after filter~~		well 3		

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w g)	Medium Vacuum (inch w g.)	Deep Vacuum (inch w g.)
786VMP-3 45ft	Baseline	0		
	start up	0.01		
	1	—		
	3	0.01		
	5	0.11		
	10	0.60		
	15	0.95		
	20	1.1		
	30	1.25		
	60	1.30		
	120	1.275		
	180	1.30		

Field Forms
3 Month Sampling 785 and 786
August 23, 24 and 25, 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-2

Date (**LOGDATE**): 8.24.11 Weather: Sun / 70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1530	20.9	0	0

Sample Time: 1555 Sample ID: 785VMP0202AE

Container # 479

REG# 395

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM / MG

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-4

Date (**LOGDATE**): 8.24.11 Weather: SUN / 70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1600	20.8	0	0

Sample Time: 1605 Sample ID: 785VMP0401AB

Container # ~~352~~ 4/5

REG# ~~087~~ 299

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: MG/KM

Location and Site Code (**SITEID**): 3785

Well No. (**LOCID**): 785VMP-5

Date (**LOGDATE**): 8.25.11 Weather: Cloudy / 70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1206	20.8	0	0

Sample Time: 1210 Sample ID: 785VMP0501AA

Container # 561

REG #124

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: MG/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-1

Date (**LOGDATE**): 8.24.11 Weather: Sun/70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1530	20.8	0	0

Sample Time: 1535 Sample ID: 786VMP0102AB

Container # 171

REG# 278

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-2

Date (**LOGDATE**): 8.24.11 Weather: Sun/70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1535	20.8	~~20~~ 0	0

Sample Time: 1540 Sample ID: 786VMP0202AB

Container # 236

REG# 346

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-3

Date (**LOGDATE**): 8.24.11 Weather: Sun/70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1520	20.9	0	Ø

Sample Time: 1525 Sample ID: 786VMP0302AB

Container # 546

Reg # 399

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): B785/786

Well No. (LOCID): 785786 CA - INFLUENT

Date (LOGDATE): 8/23/11 Weather: Sun/70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1100			742

Sample Time: 1105 Sample ID: 785786CA01AB

Container # 366

Temp = 151°F
After cooler

474 ppb:
INFLUENT 2

SOIL GAS SAMPLING FORM

Project: 1000-0817 Sampled by: KM/MG

Location and Site Code (SITEID): B785/786

Well No. (LOCID): 785786CA - EFFLUENT

Date (LOGDATE): 8/23/11 Weather: Sun/70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1110			352

Sample Time: 1112 Sample ID: 785786CA02AB

Container # 552

Field Forms
5 Month Sampling 785 and 786
October 24 and 25, 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-2

Date (**LOGDATE**): 10/24/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1035	20.9	0	—

Sample Time: 1040 Sample ID: 785VMP0202AF

Container # 325

RSG # 48

SOIL GAS SAMPLING FORM

Project: 1002-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785MW-4

Date (**LOGDATE**): 10/24/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1040	0.0	20.9	—

Sample Time: 1045 Sample ID: 785MP04101AC

Container # 201

Req # 404

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: RM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-5

Date (**LOGDATE**): 10/24/2014 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1050	20.9	0.0	—

Sample Time: 1055 Sample ID: 785VMP05 01AB

Container # 206

Reg# 51

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-~~2~~ 1

Date (**LOGDATE**): 10/24/2011 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1000	20.9	0	—

Sample Time: 1005 Sample ID: 786VMP0102AC

Container # ~~67~~ 420

Reg # 67

SOIL GAS SAMPLING FORM

Project: 100-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-02

Date (**LOGDATE**): 10/24/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1020	20.9	0.0	—

Sample Time: 1025 Sample ID: 786VMP0202AC

Container # 431

Reg# 78

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786VMP-3

Date (**LOGDATE**): 10/24/11 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1000	20.9	0	—

Sample Time: 1015 Sample ID: 786VMP0302AC

Container # 494

Reg # 60

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785-1A

Date (**LOGDATE**): 10/24/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1057	20.9	0	—

Sample Time: 1100 Sample ID: 785/A-06

Container # 335

Reg #143

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786-1A

Date (**LOGDATE**): 10/24/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1025	20.9	0	—

Sample Time: 1030 Sample ID: 786 1A 05

Container # 161

Reg # 452

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B785/786

Well No. (**LOCID**): 785 786-0A

Date (**LOGDATE**): 10/24/11 Weather: Sunny / 50's

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1105	20.9	0	—

Sample Time: 1110 Sample ID: 785 786 0A02

Container # 496

Reg # 438

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): Influent, 785/786

Date (**LOGDATE**): 10/25/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1500			

Sample Time: 1501 Sample ID: 785786CA01AC

Container # 457

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): Effluent, 785/786

Date (**LOGDATE**): 10/25/11 Weather: indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1505			

Sample Time: 1506 Sample ID: 785786CA02AC

Container # 471

Field Forms
Baseline Sampling Building 774 and 776
May 4, 2011 and June 6, 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): BAE - B774

Well No. (**LOCID**): 774 VMP-1

Date (**LOGDATE**): 5/4/2011 Weather: indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1152	18.2	2.6	501

Sample Time: 1155 Sample ID: 774VMP0101AA

Container # 131

Reg # 372

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): BAE - B774

Well No. (LOCID): 774VMP-2

Date (LOGDATE): 5/4/2011 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1213	19.3	0.2	1233

background 29 ppb

Sample Time: 1220 Sample ID: 774VMP0201AA

Container # 236

Req# 395

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: VM/MG

Location and Site Code (**SITEID**): BAE - B774

Well No. (**LOCID**): 774VMP-3

Date (**LOGDATE**): 5/4/2011 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH~~ PID (ppb) (ppm)
1232	20.9	0	14,500

background 28 ppb

Sample Time: 1240 Sample ID: 774VMP0301AA

Container # ~~542~~ 481

Reg# ~~152~~ 388

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): IT - B776

Well No. (LOCID): 776 VMP-1

Date (LOGDATE): 5/4/2011 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1320	20.9	0.0	556

background 6 ppb

Sample Time: 1325 Sample ID: 776VMP0101AA

Container # 129

Reg# 265

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): IT - B776

Well No. (**LOCID**): 776VMP-0201~~AA~~

Date (**LOGDATE**): 5/4/2011 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1310	20.9	0	439

background 11 ppb

Sample Time: 1315 Sample ID: 776VMP0201AA

Container # 222

Reg # 346

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): ITT - B776

Well No. (LOCID): 776VMP-3

Date (LOGDATE): May 4, 2011 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH~~ PID (ppb)
1330	20.9	0.0	793

background 9 ppb

Sample Time: 1335 Sample ID: 776VMP0301AA

Container # 284

Reg # 47

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: nm/mg

Location and Site Code (SITEID): BAE - B774

Well No. (LOCID): 774 IA - 1

Date (LOGDATE): 5/4/2011 Weather: indoors

FIELD MEASUREMENTS: PID (ppb)

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~
1200	20.9	0	0-14

Sample Time: 1201 Sample ID: 774IA1AD

Container # 88

Reg# 292

Resampled due to open window during initial collection.

Time 1532

container # 128

Reg # 306

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: km/mG

Location and Site Code (SITEID): B776 ITT

Well No. (LOCID): 776IA-1

Date (LOGDATE): 5/4/2011 Weather: indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1340	20.9	0.0	6

Sample Time: 1342 Sample ID: 776IA1CA

Container # 221

Reg# 178

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): B776 / B774

Well No. (LOCID): 7760A-1

Date (LOGDATE): May 4, 2011 Weather: Cloudy / 50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	~~TVH (ppm)~~ PID (ppb)
1345	20.9	0	0

Sample Time: 1348 Sample ID: 7760A1DA

Container # _____

Req #

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): INFluent

Date (**LOGDATE**): 6/6/11 Weather: 80°F/Sunny

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1415	—	—	3711

Sample Time: 1415 Sample ID: 774776CA01AA

Container # 350

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B774/776

Well No. (LOCID): Effluent

Date (LOGDATE): 6/6/11 Weather: 80°F/sunny

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1420	—	—	0

Sample Time: 1420 Sample ID: 774776CA02AA

Container # 357

Field Forms
Stepped Rate Test Building 774 and 776
June 3, 2011

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	6/3/2011
conducted by:	km
Extraction Wells:	7745SVM-1

baseline
Vac gauge = 0
ΔP = 0

Test Number		Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	CFM
open	1	-11	59	-0.2	99.9
1	2	-12	58	0.3	122.1
2	3	-13	58	0.4	140.8
3	4	-14	58	0.4	140.6
4	5	-16	58	0.4	140.3
5	6	-17	57	0.5	156.5
close	7	-17	57	0.5	156.5
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				
	25				
	26				

Fully OPEN Alone =
53 in wg 317 ACFM

Sub-Slab Vapor Mitigation Stepped-Rate Test

baseline vac gauge = 0
ΔP = 0

Date:	6/3/2011
conducted by:	KM
Extraction Wells:	1745SVM-2

Test Number	Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	CFM
open 1	-12	64	0	0
1 2	-12	63	0	
2 3	-14	63	0	
3 4	-15	62	0	
4 5	-16	62	0	
5 6	-17	61	0	
~~close~~ 7 close	-18	61	0	
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

FULLY OPEN ALONE =
92 in w.g. 130 ACFM

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	6/3/2011
conducted by:	km
Extraction Wells:	7765SVM-1

baseline vac gauge = 0

Test Number		Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	ΔP = 0 CFM
open	1	10"	58°	0.4	141.3
1	2	11"	56°	0.4	140.9
2	3	12"	56°	0.6	172.3
3	4	14"	56°	0.6	171.9
4	5	14"	56°	0.8	198.5
5	6	16"	56°	0.9	210.0
close	7	16"	56°	0.9	210.0
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				
	25				
	26				

FULLY OPEN ALONE =

41 in w.g. 335.4 ACFM

Field Forms
ROI Test Building 774 and 776
June 6, 2011

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	6/6/18			
conducted by:	~~6/6 774-1/-2~~ KM/DF			
Extraction Wells:	774-1/-2		Patm (inch hg):	30.08
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
10:43	Baseline	0		
	start up	0		
	1 min	0		
774VMP-1	3	0		
	5	0.0025		
	10	0.005		
30	15	0.005		
	20	0.01		
	30	0.01		
	60	0.01		
(offline)	120	0.01		
	180	0.01		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	6/6/11			
conducted by:	KM/DF			
Extraction Wells:	774 -1/- 2		Patm (inch hg):	30.08
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
776 well 1	35	well 1	0.6	58
774-1 well 2	35	well 2	0.2	58
774-2 well 3	34	well 3	0.2	59
Blower Temp (deg F)	124	After Cooler Temp (deg F)	120	

-168 ACFM
-97 ACFM
-97 ACFM

Well_ID. Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
774VMP-2 15 (Bathroom)	Baseline	0		
	start up	0		
	1 min	0.15		
	3	0.47		
	5	0.55		
	10	0.68		
	15	0.69		
	20	0.70		
	30	0.70		
	60	0.70		
	120	0.70		
	180	0.70		

TOTAL system vacuum = 68 in H20

From curve Flow Rate = 305 CFM

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	6/6/14			
conducted by:	DPT KM			
Extraction Wells:	774-1 / -2		Patm (inch hg)	30.08
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
774VMP-3 45	Baseline	0		
	start up	0		
	1	0		
	3	0		
	5	0		
	10	0		
	15	0		
	20	0		
	30	0		
	60	0		
	120	0		
	180	0		

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	6/6/11			
conducted by:	KM/DF			
Extraction Wells:	776-1		Patm (inch hg)	30.08
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
	Baseline			
	start up	0.04		
776 VMP-1	1 min	0.19		
	3	0.21		
30	5	0.24		
	10	0.25		
	15	0.25		
	20	0.25		
	30	0.25		
→	60	0.25		
	120	0.25		
	180	0.25		
(printer)				

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

closet

Date:	6-6-11			
conducted by:	M. Grifasi / D. Rorse			
Extraction Wells:	776 -1		Patm (inch hg):	30.08
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
closet 776VMP2 35ft	Baseline			
	start up	0		
	1	0		
	3	.005		
	5	.01		
	10	.0175		
	15	.02		
	20	.0225		
	30	.025		
	60	.027		
	120	.026		
	180	.025		

1113 = 30
1143 = 60
1243 = 120
1343 = 240

Sub-Slab Vapor Mitigation Vapor Monitoring Point Vacuum Measurements

Date:	6/6/11			
conducted by:	VM, DF			
Extraction Wells:	TH0-1, MW3		Patm (inch hg)	30.08
Vacuum Gauge.	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
776VMP-3. 45	Baseline			
	start up	0.09		
	1 min	0.08		
	3	0.10		
	5	0.10		
	10	0.10		
	15	0.10		
	20	0.10		
	30	0.11		
	60	0.105		
	120	0.105		
	180	0.105		

Field Forms
3 Month Sampling Building 774 and 776
August 23 and 24, September 6, 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774 VMP-1

Date (**LOGDATE**): 8-24-11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
~~1011~~ 1113	20.9	0	210

Sample Time: 1120 Sample ID: 774VMP010AB

Container # 542

Reg# 391A

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774VMP-2

Date (**LOGDATE**): 8.24.11 Weather: indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1000	20.9	0	83

Sample Time: 1005 Sample ID: 774VMP0201AB

Container # 157

Reg # 440

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774VMP-3

Date (**LOGDATE**): 8.24.11 Weather: indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1010	20.9	0	5232

Sample Time: 1015 Sample ID: 774VMP0301AB

Container # 141

Reg# 120

SOIL GAS SAMPLING FORM

Project: 1000-09-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776VMP-1 printer

Date (**LOGDATE**): 9/6/11 Weather: _____

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
0915	20.9	0	9

Sample Time: 0920 Sample ID: 776VMP0101AB

Container # 283

Reg # 436

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B-776

Well No. (**LOCID**): 776VMP-2 closet

Date (**LOGDATE**): 9/6/11 Weather: _____

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
0900	20.9	0	360

Sample Time: 0905 Sample ID: 776VMP0201AB

Container # 95

Reg # 304

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776VMP-3 office

Date (**LOGDATE**): 9/6/11 Weather: _____

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
0920	20.9	0	0

Sample Time: 0925 Sample ID: 776VMP0301AB

Container # 350

Req # 455

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776-1A Indoor Air

Date (**LOGDATE**): 9/6/11 Weather: _____

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
			120

Sample Time: 0930 Sample ID: 776IA1DA

Container # 317

Reg# 448

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): B774/776

Well No. (LOCID): 774776CA - INFLUENT

Date (LOGDATE): 8.23.11 Weather: Sun / 70°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1130			243

Sample Time: 1135 Sample ID: 774776CA01AB

Container # ~~06~~ 98

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/MG

Location and Site Code (SITEID): B774/776

Well No. (LOCID): 774776CA - Effluent

Date (LOGDATE): 8.23.11 Weather: Sun/70F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1140			0

Sample Time: 1145 Sample ID: 774776CA02AB

Container # 203

TEMP = 122°F

After cooler

Field Forms
5 Month Sampling Building 774 and 776
October 14, 21, and 25 2011

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774VMP-1

Date (**LOGDATE**): 10/21/11 Weather: ~~rain~~ indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1010	20.9	0	—

Sample Time: 1015 Sample ID: 774VMP0101AC

Container # 362

Reg # 82

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774VMP-2

Date (**LOGDATE**): 10/21/11 Weather: indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1020	20.8	0	—

Sample Time: 1025 Sample ID: 774VMP02-01AC

Container # 286

Req # 58

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774VMP-3

Date (**LOGDATE**): 10/21/11 Weather: Indoors

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1030	20.9	0	—

Sample Time: 1035 Sample ID: 774VMP030LAC

Container # 406

Reg # 68

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776vmp-1

Date (**LOGDATE**): 10/21/11 Weather: indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1320	20.9	0.0	—

Sample Time: 1325 Sample ID: 776vmp0101AC

Container # 371

Reg # 126

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776MP-2

Date (**LOGDATE**): 10/21/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1305	20.9	0	—

Sample Time: 1310 Sample ID: 776MP0201AL

Container # 367

Reg # 144

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776VMP-3

Date (**LOGDATE**): 10/21/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1330	20.9	0.0	—

Sample Time: 1335 Sample ID: 776VMP0301AC

Container # 358

Reg # 44

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774

Well No. (**LOCID**): 774-1A

Date (**LOGDATE**): 10/21 Weather: indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1037	20.9	0.0	———

Sample Time: 1048 Sample ID: 774IA1AF

Container # 174

Reg# 174

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B776

Well No. (**LOCID**): 776-IA

Date (**LOGDATE**): 10/21/11 Weather: Indoor

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1414	20.9	0.0	—

Sample Time: 1415 Sample ID: 776IA1EA

Container # 165

Reg# 394

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): 774776-0A

Date (**LOGDATE**): 10/21/11 Weather: 50°F / Cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1040	20.9	0.0	

Sample Time: 1045 Sample ID: 774776OA1FA

Container # 474

Reg# 310

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: km

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): INFluent w/o 774SVM3

Date (**LOGDATE**): 10/14/2011 Weather: P. Cloudy/60°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	TVH (ppm)

Sample Time: 1300 Sample ID: 774776CA01AC

Container # 86

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: km

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): INFLUENT w/ 774SSVM-3

Date (**LOGDATE**): 10/14/2011 Weather: P. Cloudy 160°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	TVH (ppm)

Sample Time: 1400 Sample ID: 774776CA07AD

Container # 333

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: PM

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): Influent - 774776

Date (**LOGDATE**): 10/25/11 Weather: 50°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1230			

Sample Time: 1231 Sample ID: 774776CA01AE

Container # 324

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM

Location and Site Code (**SITEID**): B774/776

Well No. (**LOCID**): 774776 - Effluent

Date (**LOGDATE**): 10/25/11 Weather: 50°F / P. Cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)

Sample Time: 1235 Sample ID: 774776CA02AC

Container # 136

Field Forms
Stepped Rate Test Building 774 and 776
November 11, 2011

Sub-Slab Vapor Mitigation Stepped-Rate Test

Patm = 29.7 in Hg

Date:	11/11/11
conducted by:	km
Extraction Wells:	77455VM-1

Test Number		Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	Flow Rate ACFM
open	1	-17	59	0.2	98.8
1	2	-18	59	0.25	110.4
2	3	-20	60	0.3	120.8
3	4	-22	60	0.4	139.1
4	5	-24	60	0.5	155.2
5	6	-26	60	0.6	169.6
close	7	-28	60	0.7	182.8
	8				
	9				
	10				
	11				
	12				
	13				
	14				
	15				
	16				
	17				
	18				
	19				
	20				
	21				
	22				
	23				
	24				
	25				
	26				

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	11/11/11
conducted by:	KM
Extraction Wells:	7745SVM-2.13

Test Number	Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	Flow RATE ACFM
open 1	-12	52	0.02	31.2
1 2	-13	53	0.025	34.9
2 3	-15	53	0.04	44.1
3 4	-17	53	0.06	53.8
4 5	-20	53	0.07	57.9
5 6	-22	53	0.08	61.8
close 7	-22	54	0.1	69.2
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	11/11/2011
conducted by:	KM
Extraction Wells:	7765SVM-1

Test Number	Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)	FLOW RATE ACFM
open 1	-19	59	0.3	120.8
1 2	-20	59	0.35	130.3
2 3	-23	60	0.4	140.0
3 4	-25	60	0.5	155.0
4 5	-27	60	0.6	169.4
5 6	-30	60	0.7	182.3
Close 7	-31	60	0.75	188.5
8				
9				
10				
11				
12				
13				
14				
15				
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Appendix D
Raw Lab Data

TO-15 Package Review Checklist

Client: FPM Group Project: B785SSUM SDG: C1101031

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		

Comments: *SEE CASE NARRATIVE

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: *SEE CASE NARRATIVE
NO MS/MSD

Sample Raw Data	Present and Complete			
	Spectra present for all samples			

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B785-SSVM SDG: C1101031

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 2/18/11

QC Supervisor: [signature] Date: 2/22/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Monday, January 31, 2011
Order No.: C1101031

RE: B785SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 6 sample(s) on 1/25/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *19-Feb-11*

CLIENT: FPM Group
Project: B785SSVM Sampling
Lab Order: C1101031

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2092] IS did not meet criteria.
See Corrective Action: [2093] LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 25-Jan-11 **Corrective Action Report ID:** 2092

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was high and did not meet criteria for samples C1101031-001 - 004. Based on the chromatographic evidence this is most likely due to matrix interference.

Description of Corrective Action: Samples were analyzed further as dilutions with results meeting criteria.

Performed By: Russell Pellegrino **Completion Date:** 28-Jan-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 30-Jan-11

QA Officer Approval: Nick Scala QA Date: 29-Jan-11

Last Updated BY russ2 Updated: 19-Feb-2011 11:54 AM Reported: 19-Feb-2011 11:54 A

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 27-Jan-11 **Corrective Action Report ID:** 2093

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-012711 did not meet criteria for RPD and % recoveries for several compounds. The LCSD did not reproduce. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 28-Jan-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 29-Jan-11

QA Officer Approval: Nick Scala QA Date: 29-Jan-11

Last Updated BY russ2 Updated: 19-Feb-2011 11:58 AM Reported: 19-Feb-2011 11:58 A

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina J. Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
786VMP0102AA	785VMP-01	1/18	1215	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 420, PID = 2,047 ppb
786VMP0202AA	785VMP-02	1/18	1235	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 428 PID = 279 ppb
786VMP0302AA	785VMP-03	1/18	1225	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 241 PID = 803 ppb
786CA0100AA	Carbon Influent	1/21	1615	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 429 PID = 8,348 ppb
786CA0200AA	Carbon Effluent	1/21	1620	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 360 PID = 41 ppb
Trip Blank	Trip Blank	1/21	1630	GS	AC	0/0	TB	-	Unf.	1	1	1	Canister # 407

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1101031

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) Katrina Mattice	Date: 1/24/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1715	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 12/30/10	#2 Received by: (Sig)	Date: 1/25/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1100	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

CENTEK LABORATORIES, LLC

Date: *19-Feb-11*

CLIENT: FPM Group
Project: B785SSVM Sampling
Lab Order: C1101031

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1101031-001A	786VMP0102AA	420,	1/18/2011	1/25/2011
C1101031-002A	786VMP0202AA	428	1/18/2011	1/25/2011
C1101031-003A	786VMP0302AA	241	1/18/2011	1/25/2011
C1101031-004A	786CA0100AA	429	1/18/2011	1/25/2011
C1101031-005A	786CA0200AA	360	1/18/2011	1/25/2011
C1101031-006A	Trip Blank	407	1/18/2011	1/25/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name FPM-ROME | Date and Time Receive 1/25/2011

Work Order Numbe C1101031 | Received by JDS

Checklist completed by [signature] Signature | 1/25/11 Date | Reviewed by [initials] Initials | 1/25/11 Date

Matrix: | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

SampleTrackingHistory 2/19/2011

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1101031-003A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-006A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-004A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-002A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-001A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-005A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-001A	Login	1/25/2011 1:28:35 PM	jans	Sample Log In
C1101031-006A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-005A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-004A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-003A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-002A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-006A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-005A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-004A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-001A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-003A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-002A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed

Centek Laboratories, LLC

19-Feb-11

Lab Order: C1101031
Client: FPM Group
Project: B785SSVM Sampling

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1101031-001A	786VMP0102AA	1/18/2011	Air	1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
C1101031-002A	786VMP0202AA			1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
C1101031-003A	786VMP0302AA			1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/27/2011
C1101031-004A	786CA0100AA			1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
C1101031-005A	786CA0200AA			1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
C1101031-006A	Trip Blank			1ug/M3 by Method TO15			1/27/2011

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2117

18-Feb-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 12/29/2010
VIA: FedEx
Due Date: 12/30/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	5

Can / Reg ID	Description
360	1L Mini-Can - 1309
241	1L Mini-Can - 1173
407	1L Mini-Can - 1329
420	1L Mini-Can - 1344
428	1L Mini-Can - 1355
429	1L Mini-Can - 1356

Comments: 4 1 L canisters with quick grabs, include a trip blank WAC12310E

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.2	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	4.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
4-ethyltoluene	0.65	0.15		ppbV	1	1/25/2011 7:18:00 PM
Acetone	13	12		ppbV	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Benzene	5.9	1.5		ppbV	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromodichloromethane	0.59	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Carbon disulfide	4.8	1.5		ppbV	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroform	6.0	6.0		ppbV	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
Freon 11	0.52	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 12	0.76	0.15		ppbV	1	1/25/2011 7:18:00 PM
Heptane	6.0	1.5		ppbV	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Hexane	15	1.5		ppbV	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
m&p-Xylene	3.9	3.0		ppbV	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Methylene chloride	1.1	0.15		ppbV	1	1/25/2011 7:18:00 PM
o-Xylene	1.7	1.5		ppbV	10	1/27/2011 4:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	20	1.5		ppbV	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Toluene	9.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Trichloroethene	900	120		ppbV	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:18:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	12	8.3		ug/m3	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	7.5	7.5		ug/m3	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	5.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	19	7.1		ug/m3	10	1/27/2011 4:56:00 PM
4-ethyltoluene	3.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Acetone	31	29		ug/m3	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:18:00 PM
Benzene	19	4.9		ug/m3	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:18:00 PM
Bromodichloromethane	4.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:18:00 PM
Carbon disulfide	15	4.7		ug/m3	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:18:00 PM
Chloroform	30	30		ug/m3	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
Ethylbenzene	6.6	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Freon 11	3.0	0.86		ug/m3	1	1/25/2011 7:18:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.8	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Heptane	25	6.2		ug/m3	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Hexane	52	5.4		ug/m3	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:18:00 PM
m&p-Xylene	17	13		ug/m3	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:18:00 PM
Methylene chloride	3.8	0.53		ug/m3	1	1/25/2011 7:18:00 PM
o-Xylene	7.5	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	140	10		ug/m3	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/25/2011 7:18:00 PM
Toluene	35	5.7		ug/m3	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Trichloroethene	4900	660		ug/m3	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.7	1.5		ppbV	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	0.91	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	0.37	0.15		ppbV	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	1/25/2011 7:50:00 PM
Acetone	20	3.0		ppbV	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromodichloromethane	1.1	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon disulfide	1.7	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroform	120	14		ppbV	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	0.35	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 11	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 113	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 12	0.69	0.15		ppbV	1	1/25/2011 7:50:00 PM
Heptane	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
m&p-Xylene	1.1	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	2.2	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Methylene chloride	0.40	0.15		ppbV	1	1/25/2011 7:50:00 PM
o-Xylene	0.50	0.15		ppbV	1	1/25/2011 7:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	1.6	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	5.2	1.5		ppbV	10	1/27/2011 6:01:00 PM
Toluene	1.8	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Trichloroethene	140	14		ppbV	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	15	8.3		ug/m3	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	4.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	1.8	0.71		ug/m3	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.95	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Acetone	49	7.2		ug/m3	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:50:00 PM
Benzene	4.6	0.49		ug/m3	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:50:00 PM
Bromodichloromethane	7.4	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:50:00 PM
Carbon disulfide	5.3	0.47		ug/m3	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:50:00 PM
Chloroform	620	69		ug/m3	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	1.4	0.60		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Freon 11	2.7	0.86		ug/m3	1	1/25/2011 7:50:00 PM
Freon 113	3.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Heptane	5.8	0.62		ug/m3	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:50:00 PM
m&p-Xylene	4.8	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	9.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	15	9.0		ug/m3	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:50:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	1/25/2011 7:50:00 PM
o-Xylene	2.2	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	11	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	16	4.5		ug/m3	10	1/27/2011 6:01:00 PM
Toluene	6.7	0.57		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Trichloroethene	740	76		ug/m3	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.8	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	0.33	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	2.7	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	2.0	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	1/25/2011 8:22:00 PM
Acetone	21	12		ppbV	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromodichloromethane	0.42	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon disulfide	0.97	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroform	9.4	1.5		ppbV	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.2	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 11	0.56	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 113	0.44	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Heptane	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
m&p-Xylene	3.6	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	1.8	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	6.3	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
o-Xylene	1.4	1.5	J	ppbV	10	1/27/2011 7:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Styrene	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	12	6.0		ppbV	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	12	1.5		ppbV	10	1/27/2011 7:03:00 PM
Toluene	4.1	1.5		ppbV	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Trichloroethene	400	120		ppbV	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Surr: Bromofluorobenzene	127	70-130		%REC	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Nnmber:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	16	8.3		ug/m3	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	1.4	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	13	7.5		ug/m3	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	9.9	0.75		ug/m3	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/25/2011 8:22:00 PM
4-ethyltoluene	8.1	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Acetone	50	29		ug/m3	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:22:00 PM
Benzene	4.7	0.49		ug/m3	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:22:00 PM
Bromodichloromethane	2.9	1.0		ug/m3	1	1/25/2011 8:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:22:00 PM
Carbon disulfide	3.1	0.47		ug/m3	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:22:00 PM
Chloroform	47	7.4		ug/m3	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
Ethylbenzene	9.8	0.66		ug/m3	1	1/25/2011 8:22:00 PM
Freon 11	3.2	0.86		ug/m3	1	1/25/2011 8:22:00 PM
Freon 113	3.4	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Heptane	4.7	0.62		ug/m3	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:22:00 PM
m&p-Xylene	16	13		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	7.6	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	19	9.0		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:22:00 PM
o-Xylene	6.2	6.6	J	ug/m3	10	1/27/2011 7:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:22:00 PM
Styrene	4.8	0.65		ug/m3	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	85	41		ug/m3	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	36	4.5		ug/m3	10	1/27/2011 7:03:00 PM
Toluene	16	5.7		ug/m3	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Trichloroethene	2200	660		ug/m3	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.2	1.5		ppbV	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	320	360	J	ppbV	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Acetone	12	3.0		ppbV	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzene	0.74	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroform	58	14		ppbV	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	16	1.5		ppbV	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.71	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 11	0.49	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 113	0.26	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 12	0.68	0.15		ppbV	1	1/25/2011 8:54:00 PM
Heptane	120	14		ppbV	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Hexane	180	14		ppbV	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
m&p-Xylene	2.1	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	86	14		ppbV	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	170	14		ppbV	90	1/27/2011 8:39:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Trichloroethene	5000	360		ppbV	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	34	8.3		ug/m3	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	1500	1700	J	ug/m3	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Acetone	30	7.2		ug/m3	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:54:00 PM
Benzene	2.4	0.49		ug/m3	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:54:00 PM
Chloroform	290	69		ug/m3	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	64	6.0		ug/m3	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
Ethylbenzene	3.1	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Freon 11	2.8	0.86		ug/m3	1	1/25/2011 8:54:00 PM
Freon 113	2.0	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	3.4	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Heptane	490	58		ug/m3	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Hexane	640	50		ug/m3	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:54:00 PM
m&p-Xylene	9.2	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	600	97		ug/m3	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	510	42		ug/m3	90	1/27/2011 8:39:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Trichloroethene	27000	2000		ug/m3	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.65	0.39		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Acetone	94	54		ppbV	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloromethane	2.0	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 12	0.90	0.15		ppbV	1	1/25/2011 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	2.8	1.5		ppbV	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	110	27		ppbV	180	1/28/2011 6:07:00 PM
Toluene	0.28	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Trichloroethene	5.3	0.75		ppbV	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	1.1	0.71		ug/m3	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Acetone	230	130		ug/m3	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/25/2011 9:26:00 PM
Chloromethane	4.1	0.31		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/25/2011 9:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	4.5	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	8.2	4.5		ug/m3	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 9:26:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	330	81		ug/m3	180	1/28/2011 6:07:00 PM
Toluene	1.1	0.57		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Trichloroethene	29	4.1		ug/m3	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.39	0.39		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Acetone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Acetone	< 0.72	0.72		ug/m3	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/27/2011 4:23:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/27/2011 4:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/27/2011 4:23:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/27/2011 4:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/27/2011 4:23:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 08-Feb-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-012511	113							
ALCS1UG-012711	111							
ALCS1UG-012811	112							
AMB1UG-012511	88.0							
AMB1UG-012711	90.0							
AMB1UG-012811	97.0							
C1101031-001A	122							
C1101031-002A	122							
C1101031-003A	127							
C1101031-004A	103							
C1101031-005A	120							
C1101031-006A	98.0							
LCS1UGD-012711	109							
LCS1UGD-012811	110							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012504.D
Tune Time : 25 Jan 2011 10:03 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012504.D

		(BFB)	(IS1)	(IS2)	(IS3)
			17855	48897	44931
File	Sample	Surrogate Recovery %	Internal Standard Responses		
AI012505.D	ALCS1UG-01251	113	18022	50948	46978
AI012506.D	AMB1UG-012511	88	16392	36302	28683
AI012519.D	C1101031-001A	122	21713	74225*	77776*
AI012520.D	C1101031-002A	122	20529	69329*	68796*
AI012521.D	C1101031-003A	127	20918	66726	68119*
AI012522.D	C1101031-004A	103	22139	89465*	83860*
AI012523.D	C1101031-005A	120	20993	68288	61731

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:51:13 2011 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012703.D
Tune Time : 27 Jan 2011 10:40 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012703.D

		(BFB)		(IS1)	(IS2)	(IS3)
				18641	57345	54753
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AI012704.D	ALCS1UG-01271	111		18733	52317	50239
AI012705.D	AMB1UG-012711	90		17220	43450	34689
AI012712.D	C1101031-006A	98		17451	41299	38982
AI012713.D	C1101031-001A	115	DL10x	18349	54249	50726
AI012714.D	C1101031-001A	94	DL40x	17353	42790	35099
AI012715.D	C1101031-002A	91	DL10x	17666	46549	40921
AI012717.D	C1101031-003A	93	DL10x	16838	43991	41856
AI012718.D	C1101031-003A	94	DL40x	17679	42833	34836
AI012719.D	C1101031-004A	118	DL10x	19064	64461	77463*
AI012720.D	C1101031-004A	94	DL40x	18851	62562	55244
AI012721.D	C1101031-005A	108	DL5x	17962	50601	46688
AI012728.D	LCS1UGD-01271	109		20088	68662	70738

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:52:48 2011 MSD #1/

GC/MS QA/QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012803.D
Tune Time : 28 Jan 2011 10:20 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012803.D

		(BFB)		(IS1)	(IS2)	(IS3)
				33200	96780	92339
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AI012804.D	ALCS1UG-01281	112		31472	90987	81922
AI012805.D	AMB1UG-012811	97		29774	82180	75429
AI012809.D	C1101031-001A	96	DL810x	30614	85882	76826
AI012810.D	C1101031-002A	97	DL90x	29161	78493	71639
AI012811.D	C1101031-003A	95	DL810x	28195	71974	66131
AI012812.D	C1101031-004A	94	DL2430x	28331	73869	69668
AI012813.D	C1101031-005A	98	DL180x	30092	79423	74372
AI012829.D	LCS1UGD-01281	110		25975	67394	64100

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:55:49 2011 MSD #1/

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.140	0.15	1	0	114	70	130				
Chlorobenzene	1.050	0.15	1	0	105	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				
Chloroform	1.200	0.15	1	0	120	70	130				
Chloromethane	1.230	0.15	1	0	123	70	130				
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.000	0.15	1	0	100	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.9000	0.25	1	0	90.0	70	130				
Ethylbenzene	1.020	0.15	1	0	102	70	130				
Freon 11	2.110	0.15	1	0	211	70	130				S
Freon 113	1.240	0.15	1	0	124	70	130				
Freon 114	1.140	0.15	1	0	114	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.050	0.15	1	0	105	70	130				
Hexachloro-1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
Hexane	1.060	0.15	1	0	106	70	130				
Isopropyl alcohol	1.150	0.15	1	0	115	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130				
Methylene chloride	1.150	0.15	1	0	115	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9900	0.15	1	0	99.0	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.110	0.15	1	0	111	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.160	0.15	1	0	116	70	130				

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130				
1,2-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130				
1,3,5-Trimethylbenzene	0.8100	0.15	1	0	81.0	70	130				
1,3-butadiene	1.170	0.15	1	0	117	70	130				
1,3-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130				
1,4-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130				
2,2,4-trimethylpentane	1.040	0.15	1	0	104	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012711	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.8600	0.30	1	0	86.0	70	130				
Allyl chloride	1.150	0.15	1	0	115	70	130				
Benzene	1.260	0.15	1	0	126	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.160	0.15	1	0	116	70	130				
Bromoform	1.000	0.15	1	0	100	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.130	0.15	1	0	113	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	1.140	0.15	1	0	114	70	130				
Chloroform	1.220	0.15	1	0	122	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130				
cis-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130				
Cyclohexane	1.130	0.15	1	0	113	70	130				
Dibromochloromethane	1.050	0.15	1	0	105	70	130				
Ethyl acetate	0.9400	0.25	1	0	94.0	70	130				
Ethylbenzene	1.000	0.15	1	0	100	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.260	0.15	1	0	126	70	130				
Freon 114	1.240	0.15	1	0	124	70	130				
Freon 12	1.190	0.15	1	0	119	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.7100	0.15	1	0	71.0	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.960	0.30	2	0	98.0	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Isobutyl Ketone	0.8500	0.30	1	0	85.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.260	0.15	1	0	126	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	1.080	0.15	1	0	108	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.130	0.15	1	0	113	70	130				
Tetrahydrofuran	1.000	0.15	1	0	100	70	130				
Toluene	1.100	0.15	1	0	110	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.030	0.15	1	0	103	70	130				
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130				
1,2-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012811	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	0.8200	0.30	1	0	82.0	70	130				
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	1.140	0.30	1	0	114	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.100	0.15	1	0	110	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.040	0.15	1	0	104	70	130				
Carbon disulfide	0.7500	0.15	1	0	75.0	70	130				
Carbon tetrachloride	1.010	0.15	1	0	101	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	1.120	0.15	1	0	112	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9900	0.15	1	0	99.0	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	0.7200	0.15	1	0	72.0	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.120	0.15	1	0	112	70	130				
Heptane	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012811	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130				
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.080	0.15	1	0	108	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.160	0.15	1	0	116	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8600	0.15	1	0	86.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9600	0.15	1	0	96.0	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				
Toluene	1.090	0.15	1	0	109	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	1.090	0.15	1	0	109	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **LCS1UGD-012711** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4196**
Client ID: **ZZZZZ** Batch ID: **R4196** TestNo: **TO-15** Analysis Date: **1/28/2011** SeqNo: **50392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.010	0.15	1	0	101	70	130	1.25	21.2	30	
1,1,2,2-Tetrachloroethane	0.7800	0.15	1	0	78.0	70	130	0.94	18.6	30	
1,1,2-Trichloroethane	1.010	0.15	1	0	101	70	130	1.18	15.5	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1-Dichloroethene	1.200	0.15	1	0	120	70	130	0.79	41.2	30	R
1,2,4-Trichlorobenzene	0.6100	0.15	1	0	61.0	70	130	0.73	17.9	30	S
1,2,4-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,2-Dibromoethane	0.8600	0.15	1	0	86.0	70	130	1.09	23.6	30	
1,2-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
1,2-Dichloroethane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130	1.22	12.2	30	
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.81	8.28	30	
1,3-butadiene	1.010	0.15	1	0	101	70	130	1.17	14.7	30	
1,3-Dichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
1,4-Dichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
1,4-Dioxane	0.3200	0.30	1	0	32.0	70	130	0.88	93.3	30	SR
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
4-ethyltoluene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Acetone	1.280	0.30	1	0	128	70	130	0.86	39.3	30	R
Allyl chloride	1.150	0.15	1	0	115	70	130	1.15	0	30	
Benzene	1.100	0.15	1	0	110	70	130	1.26	13.6	30	
Benzyl chloride	1.010	0.15	1	0	101	70	130	0.95	6.12	30	
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130	1.16	26.3	30	
Bromoform	0.7000	0.15	1	0	70.0	70	130	1	35.3	30	R
Bromomethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012711	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.050	0.15	1	0	105	70	130	1.13	7.34	30	
Carbon tetrachloride	0.7900	0.15	1	0	79.0	70	130	1.13	35.4	30	R
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30	
Chloroethane	1.100	0.15	1	0	110	70	130	1.14	3.57	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.22	4.18	30	
Chloromethane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
cis-1,2-Dichloroethene	1.270	0.15	1	0	127	70	130	1.16	9.05	30	
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130	1.19	17.4	30	
Cyclohexane	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Dibromochloromethane	0.7400	0.15	1	0	74.0	70	130	1.05	34.6	30	R
Ethyl acetate	1.040	0.25	1	0	104	70	130	0.94	10.1	30	
Ethylbenzene	1.230	0.15	1	0	123	70	130	1	20.6	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	30	
Freon 113	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.24	12.9	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.19	7.86	30	
Heptane	1.290	0.15	1	0	129	70	130	1	25.3	30	
Hexachloro-1,3-butadiene	0.5500	0.15	1	0	55.0	70	130	0.71	25.4	30	S
Hexane	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130	0.81	19.0	30	
m&p-Xylene	3.090	0.30	2	0	154	70	130	1.96	44.8	30	SR
Methyl Butyl Ketone	0.3900	0.30	1	0	39.0	70	130	0.85	74.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Methyl Isobutyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.85	44.6	30	SR
Methyl tert-butyl ether	1.240	0.15	1	0	124	70	130	1.26	1.60	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
o-Xylene	0.9400	0.15	1	0	94.0	70	130	0.84	11.2	30	
Propylene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Styrene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.13	19.4	30	
Tetrahydrofuran	1.090	0.15	1	0	109	70	130	1	8.61	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.380	0.15	1	0	238	70	130	1.1	73.6	30	SR
trans-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.13	2.69	30	
Trichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Vinyl acetate	1.170	0.15	1	0	117	70	130	1.06	9.87	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1.04	2.93	30	
Vinyl chloride	1.080	0.15	1	0	108	70	130	1.18	8.85	30	

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1-Dichloroethene	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
1,2,4-Trichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.89	18.4	30	
1,2,4-Trimethylbenzene	0.7400	0.15	1	0	74.0	70	130	0.82	10.3	30	
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130	1.03	5.66	30	
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
1,2-Dichloropropane	1.130	0.15	1	0	113	70	130	1.1	2.69	30	
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
1,3-butadiene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	30	
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.89	9.41	30	
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130	0.82	10.3	30	
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	1	9.42	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.250	0.30	1	0	125	70	130	1.14	9.21	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.94	16.1	30	
Benzene	1.050	0.15	1	0	105	70	130	1.1	4.65	30	
Benzyl chloride	0.9700	0.15	1	0	97.0	70	130	1.11	13.5	30	
Bromodichloromethane	1.150	0.15	1	0	115	70	130	1.05	9.09	30	
Bromoform	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
Bromomethane	1.090	0.15	1	0	109	70	130	1.04	4.69	30	
Carbon disulfide	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
Carbon tetrachloride	1.110	0.15	1	0	111	70	130	1.01	9.43	30	
Chlorobenzene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.12	0.889	30	
Chloroform	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Chloromethane	1.140	0.15	1	0	114	70	130	1.15	0.873	30	
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	1.1	13.6	30	
cis-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.01	8.25	30	
Dibromochloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130	0.97	26.9	30	
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.08	3.64	30	
Freon 113	1.160	0.15	1	0	116	70	130	0.72	46.8	30	R
Freon 114	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Heptane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.92	15.2	30	
Hexane	0.8500	0.15	1	0	85.0	70	130	1.05	21.1	30	
Isopropyl alcohol	0.8400	0.15	1	0	84.0	70	130	1.08	25.0	30	
m&p-Xylene	1.890	0.30	2	0	94.5	70	130	2.03	7.14	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.91	20.6	30	
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.99	28.9	30	
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130	0.72	2.82	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197		
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7700	0.15	1	0	77.0	70	130	1.16	40.4	30	R
Methylene chloride	1.080	0.15	1	0	108	70	130	0.86	22.7	30	
o-Xylene	0.8100	0.15	1	0	81.0	70	130	0.86	5.99	30	
Propylene	0.8200	0.15	1	0	82.0	70	130	0.95	14.7	30	
Styrene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	0.7600	0.15	1	0	76.0	70	130	0.86	12.3	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.1	18.9	30	
trans-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
Trichloroethene	1.080	0.15	1	0	108	70	130	0.98	9.71	30	
Vinyl acetate	0.8100	0.15	1	0	81.0	70	130	1.09	29.5	30	
Vinyl Bromide	1.030	0.15	1	0	103	70	130	1.01	1.96	30	
Vinyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	

Centek laboratories, LLC

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012811	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012811	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek laboratories, LLC

Centek Laboratories

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

IDL Study 1ug level

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.2	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	4.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
4-ethyltoluene	0.65	0.15		ppbV	1	1/25/2011 7:18:00 PM
Acetone	13	12		ppbV	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Benzene	5.9	1.5		ppbV	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromodichloromethane	0.59	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Carbon disulfide	4.8	1.5		ppbV	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroform	6.0	6.0		ppbV	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
Freon 11	0.52	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 12	0.76	0.15		ppbV	1	1/25/2011 7:18:00 PM
Heptane	6.0	1.5		ppbV	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Hexane	15	1.5		ppbV	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
m&p-Xylene	3.9	3.0		ppbV	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Methylene chloride	1.1	0.15		ppbV	1	1/25/2011 7:18:00 PM
o-Xylene	1.7	1.5		ppbV	10	1/27/2011 4:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	20	1.5		ppbV	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Toluene	9.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Trichloroethene	900	120		ppbV	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	12	8.3		ug/m3	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	7.5	7.5		ug/m3	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	5.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	19	7.1		ug/m3	10	1/27/2011 4:56:00 PM
4-ethyltoluene	3.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Acetone	31	29		ug/m3	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:18:00 PM
Benzene	19	4.9		ug/m3	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:18:00 PM
Bromodichloromethane	4.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:18:00 PM
Carbon disulfide	15	4.7		ug/m3	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:18:00 PM
Chloroform	30	30		ug/m3	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
Ethylbenzene	6.6	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Freon 11	3.0	0.86		ug/m3	1	1/25/2011 7:18:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.8	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Heptane	25	6.2		ug/m3	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Hexane	52	5.4		ug/m3	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:18:00 PM
m&p-Xylene	17	13		ug/m3	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:18:00 PM
Methylene chloride	3.8	0.53		ug/m3	1	1/25/2011 7:18:00 PM
o-Xylene	7.5	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	140	10		ug/m3	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/25/2011 7:18:00 PM
Toluene	35	5.7		ug/m3	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Trichloroethene	4900	660		ug/m3	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012519.D Vial: 2
Acq On : 25 Jan 2011 7:18 pm Operator: RJP
Sample : C1101031-001A Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 19:39:16 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

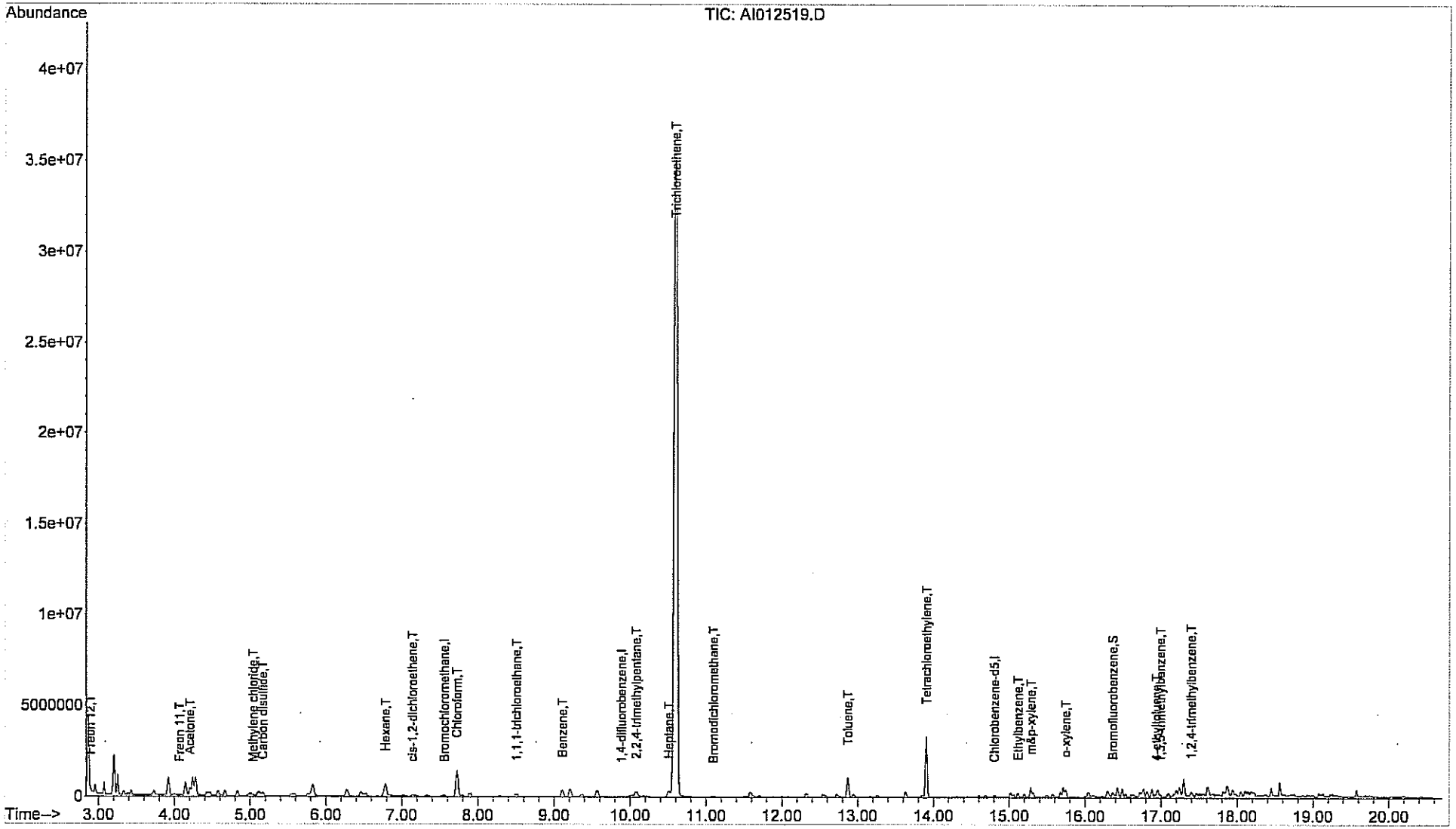
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	21713	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	74225	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	77776	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	48021m	1.22	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 122.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	48493	0.76	ppb		99
11) Freon 11	4.07	101	19290	0.52	ppb		97
12) Acetone	4.20	58	161813	27.63	ppb	#	70
16) Methylene chloride	5.05	84	19255	1.08	ppb		97
18) Carbon disulfide	5.16	76	283685	5.14	ppb		97
24) cis-1,2-dichloroethene	7.14	61	57608	2.73	ppb		93
25) Hexane	6.79	41	324427	21.76	ppb	#	49
27) Chloroform	7.73	83	1238946	27.14	ppb		100
31) 1,1,1-trichloroethane	8.50	97	106306	2.25	ppb		99
34) Benzene	9.11	78	410019	7.98	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	325309	5.88	ppb	#	51
37) Heptane	10.51	43	166341	9.04	ppb		93
38) Trichloroethene	10.60	130	19375728	594.60	ppb		95
40) Bromodichloromethane	11.10	83	34291	0.59	ppb		98
45) Toluene	12.87	92	460011	14.18	ppb		99
50) Tetrachloroethylene	13.91	164	730489	19.58	ppb		99
52) Ethylbenzene	15.12	91	156752	2.52	ppb		98
53) m&p-xylene	15.29	91	397569	7.81	ppb		97
56) o-xylene	15.74	91	182747	3.01	ppb		95
59) 4-ethyltoluene	16.93	105	36511m	0.65	ppb		
60) 1,3,5-trimethylbenzene	16.99	105	52080	1.05	ppb		97
61) 1,2,4-trimethylbenzene	17.40	105	104534	2.67	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

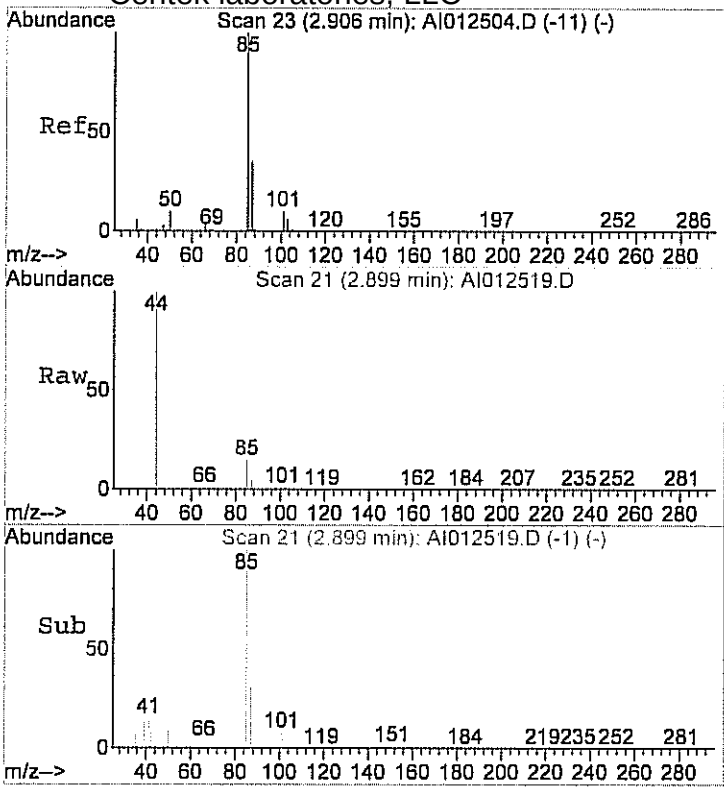
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012519.D Vial: 2
Acq On : 25 Jan 2011 7:18 pm Operator: RJP
Sample : C1101031-001A Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:13 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



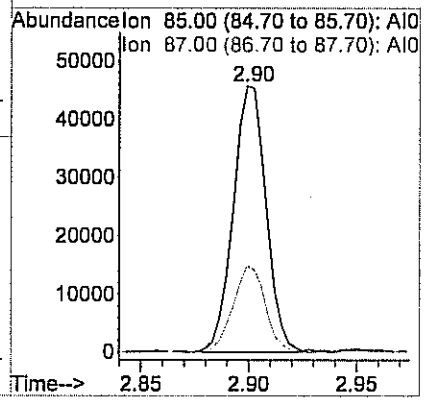
Centek laboratories, LLC

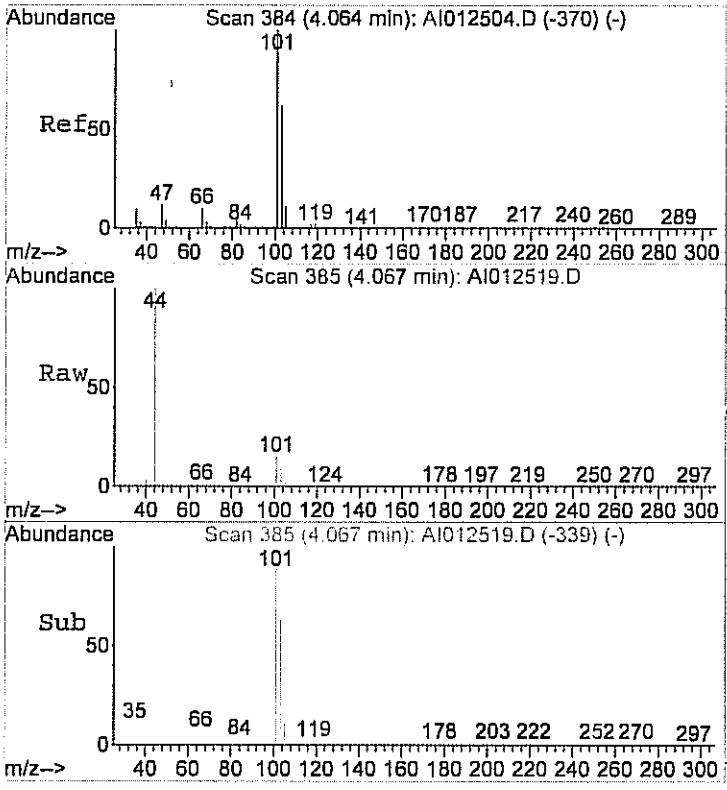


#3
Freon 12
Concen: 0.76 ppb
RT: 2.90 min Scan# 21
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 85 Resp: 48493

Ion	Ratio	Lower	Upper
85	100		
87	31.8	12.2	52.2

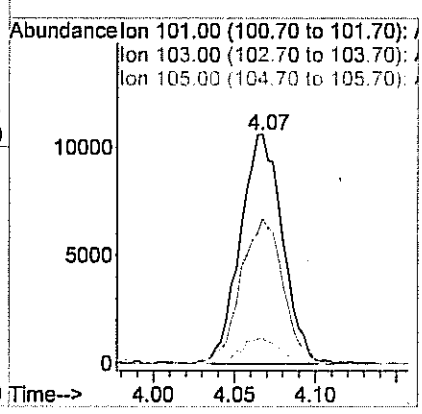


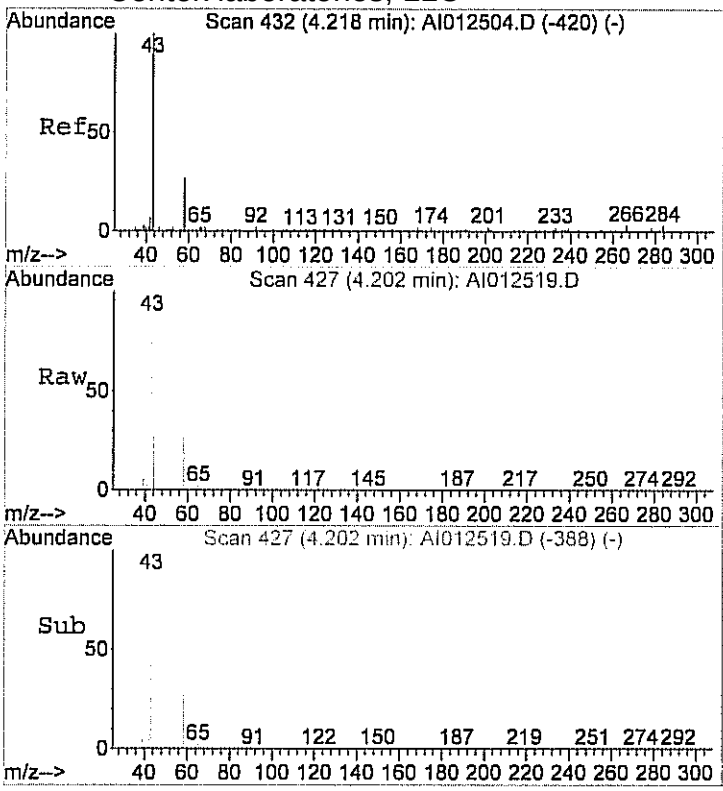


#11
Freon 11
Concen: 0.52 ppb
RT: 4.07 min Scan# 385
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:101 Resp: 19290

Ion	Ratio	Lower	Upper
101	100		
103	63.6	46.3	86.3
105	10.6	0.0	31.0

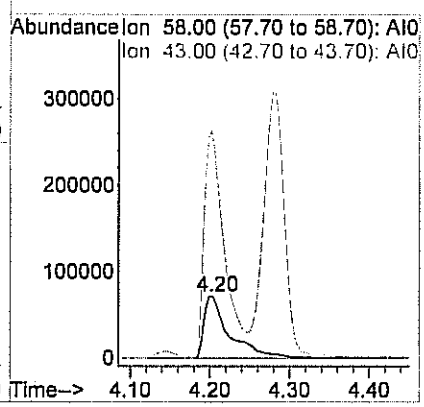


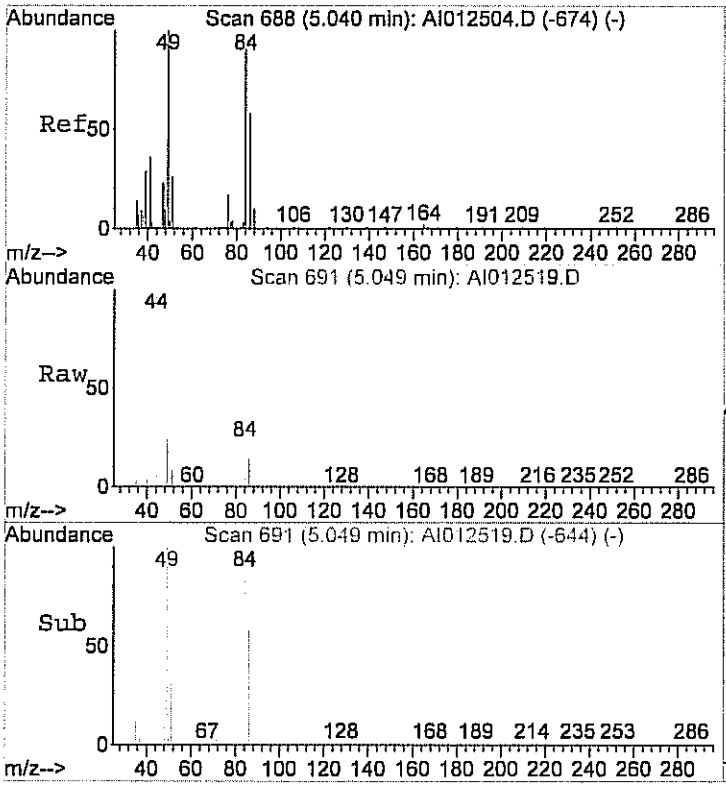


#12
Acetone
Concen: 27.63 ppb
RT: 4.20 min Scan# 427
Delta R.T. -0.03 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 58 Resp: 161813

Ion	Ratio	Lower	Upper
58	100		
43	292.6	329.0	389.0#

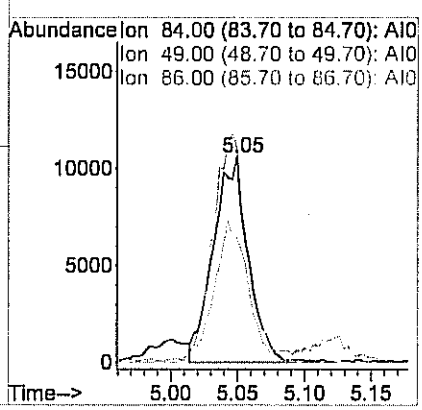


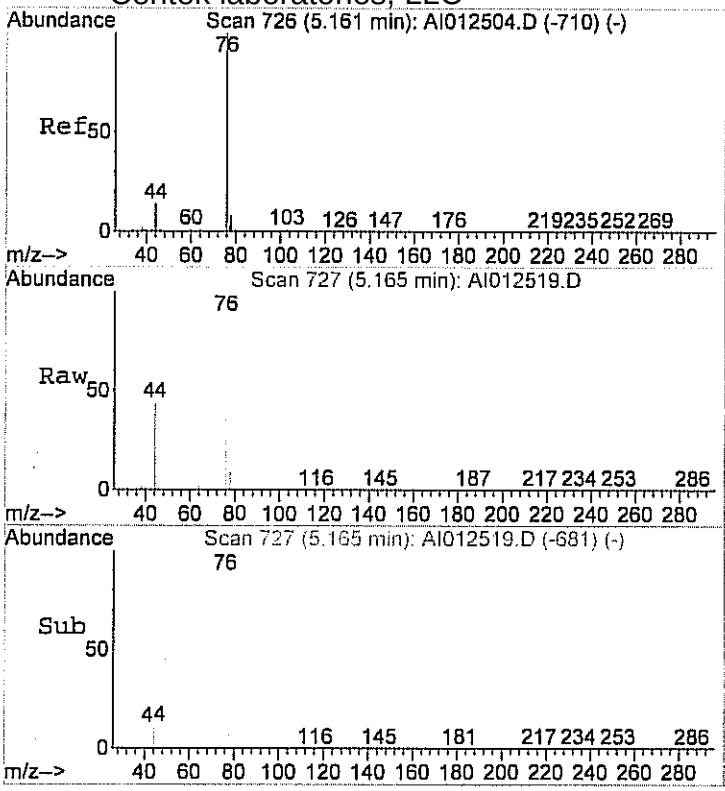


#16
Methylene chloride
Concen: 1.08 ppb
RT: 5.05 min Scan# 691
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 84 Resp: 19255

Ion	Ratio	Lower	Upper
84	100		
49	126.6	109.7	149.7
86	65.7	47.8	87.8

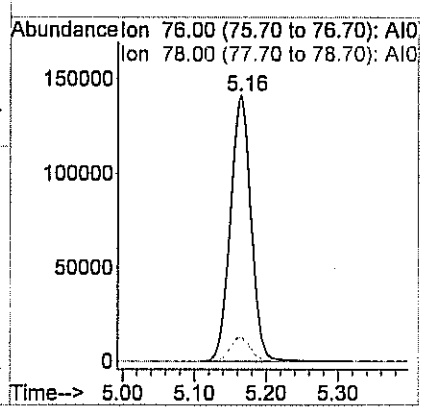


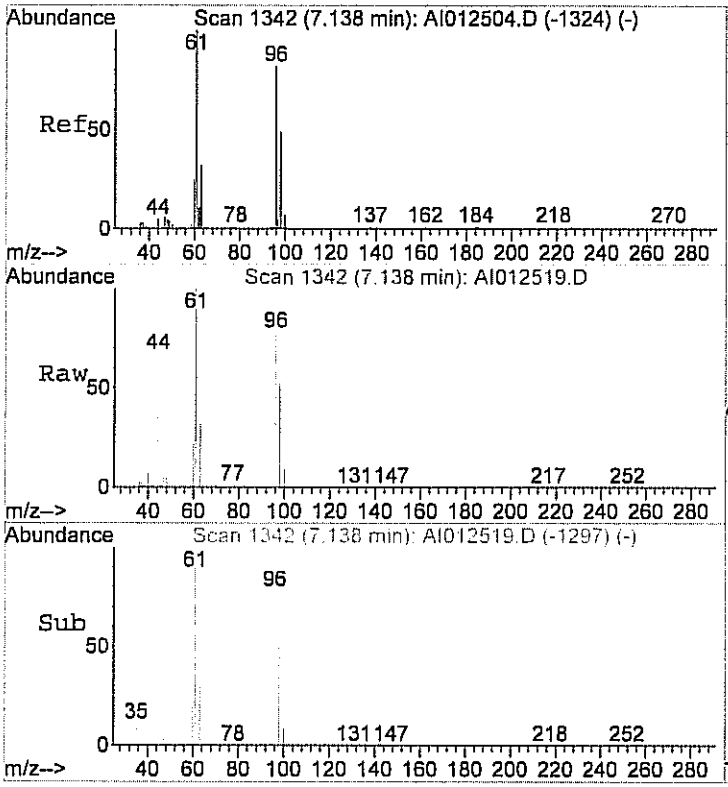


#18
Carbon disulfide
Concen: 5.14 ppb
RT: 5.16 min Scan# 727
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 76 Resp: 283685

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	30.1

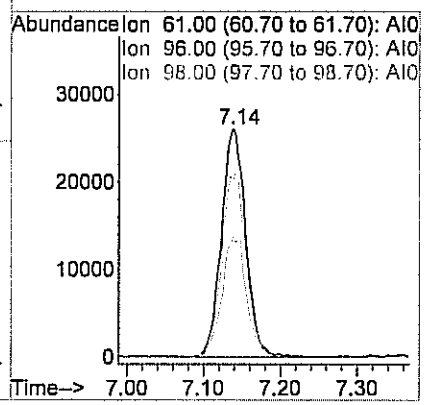


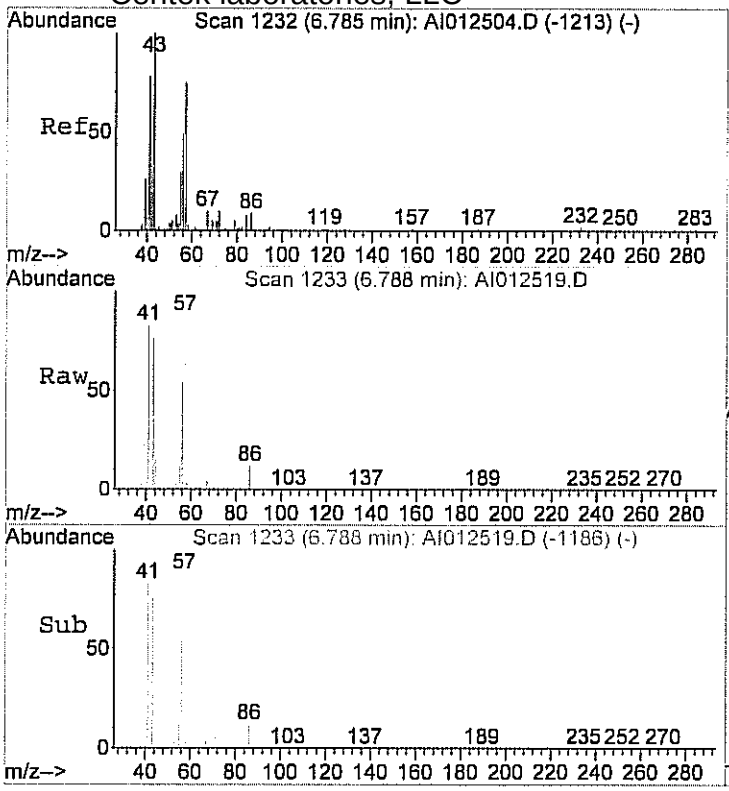


#24
cis-1,2-dichloroethene
Concen: 2.73 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 61 Resp: 57608

Ion	Ratio	Lower	Upper
61	100		
96	81.5	68.1	108.1
98	52.6	37.3	77.3

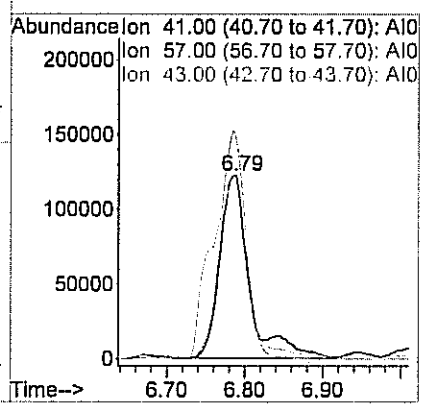


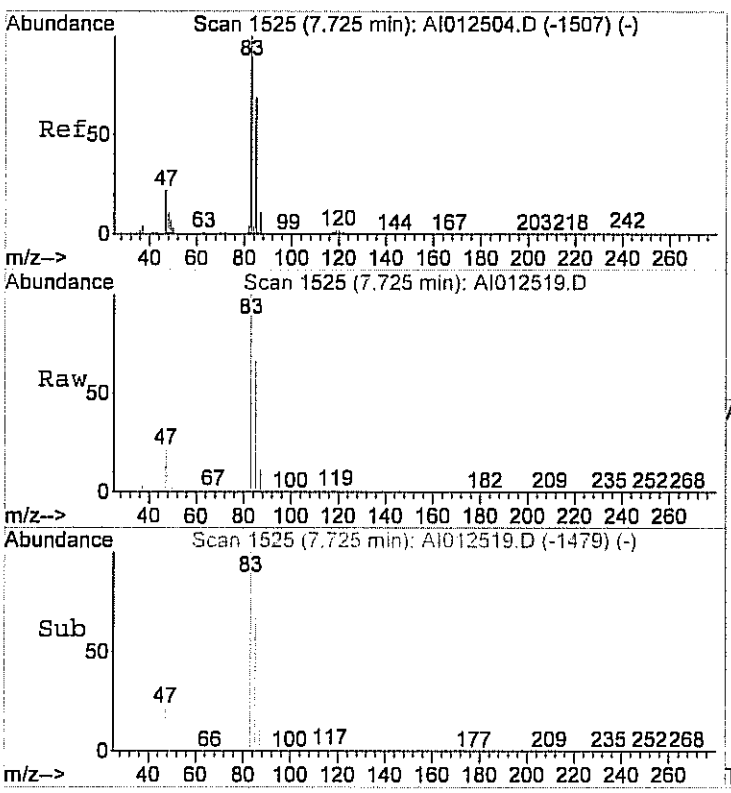


#25
Hexane
Concen: 21.76 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 41 Resp: 324427

Ion	Ratio	Lower	Upper
41	100		
57	107.9	114.8	154.8#
43	121.8	213.3	253.3#

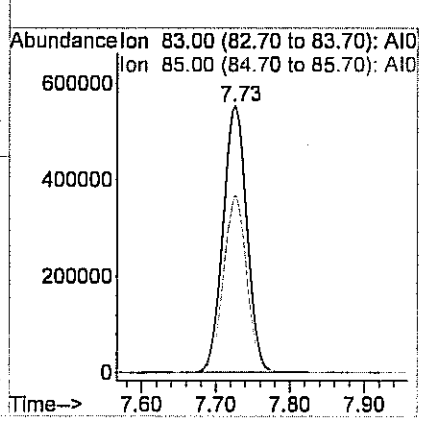


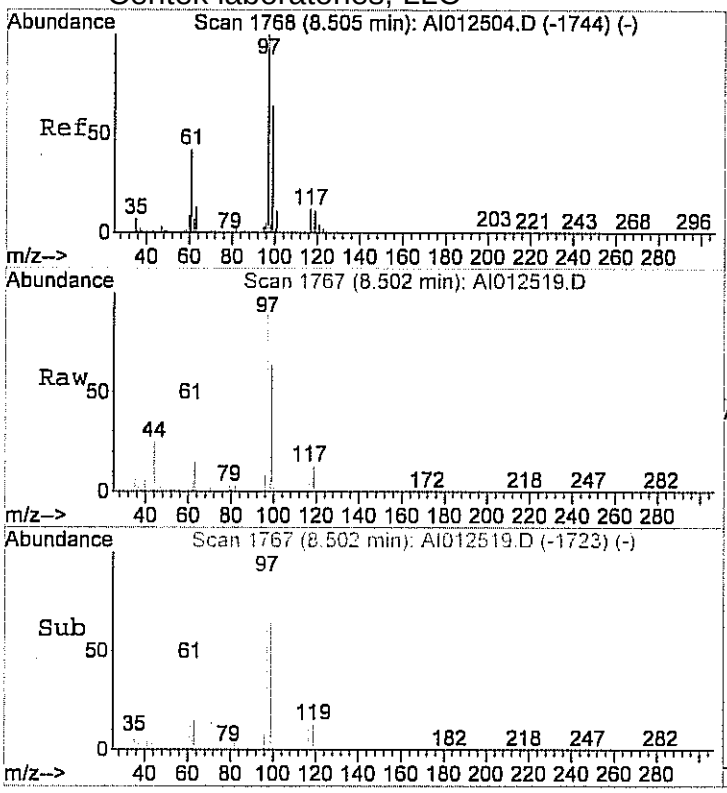


#27
Chloroform
Concen: 27.14 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 83 Resp: 1238946

Ion	Ratio	Lower	Upper
83	100		
85	66.3	46.5	86.5

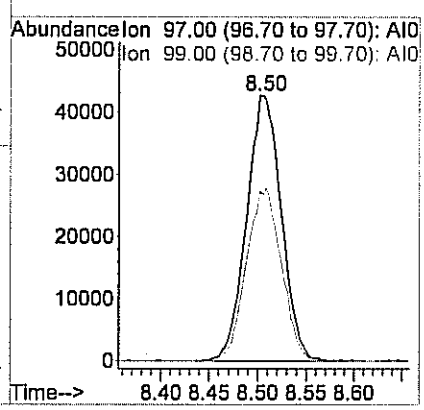


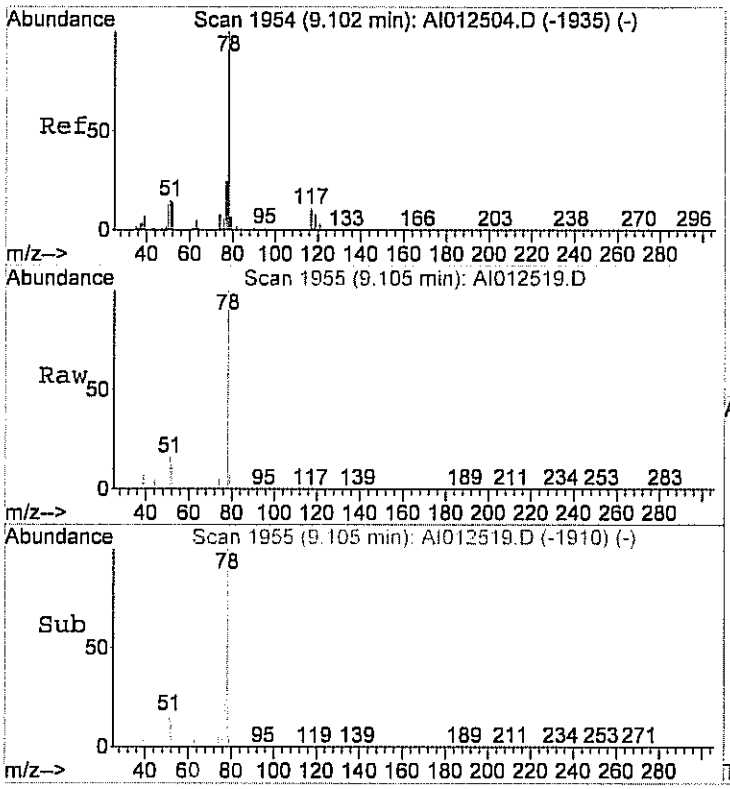


#31
1,1,1-trichloroethane
Concen: 2.25 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 97 Resp: 106306

Ion	Ratio	Lower	Upper
97	100		
99	65.8	45.4	85.4

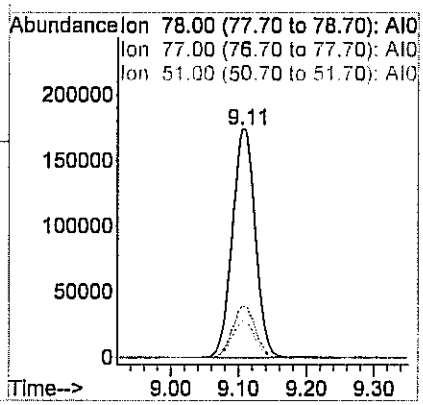


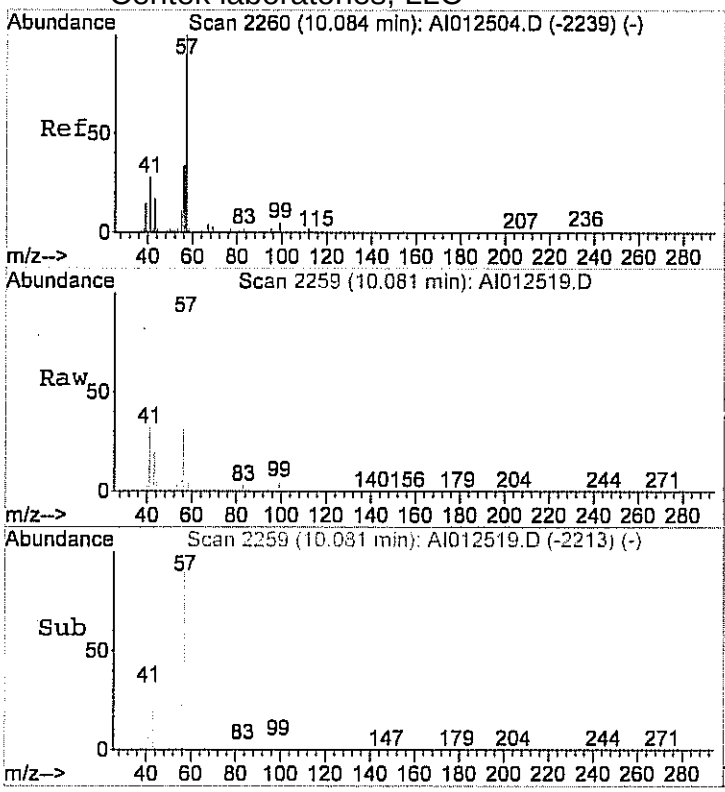


#34
Benzene
Concen: 7.98 ppb
RT: 9.11 min Scan# 1955
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 78 Resp: 410019

Ion	Ratio	Lower	Upper
78	100		
77	23.5	2.6	42.6
51	15.7	0.0	34.0

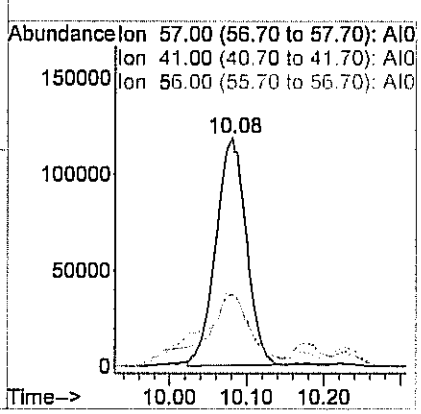


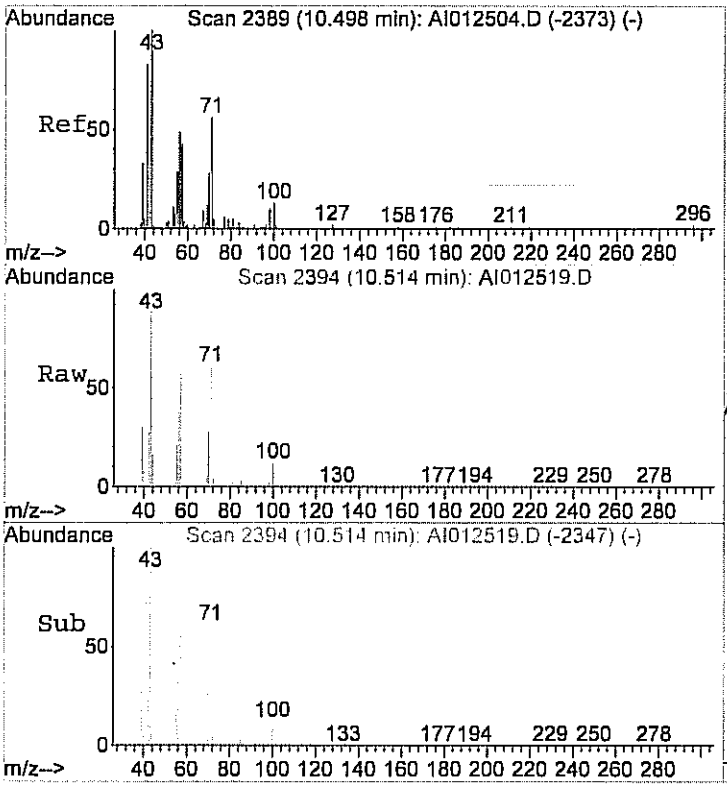


#36
2,2,4-trimethylpentane
Concen: 5.88 ppb
RT: 10.08 min Scan# 2259
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 57 Resp: 325309

Ion	Ratio	Lower	Upper
57	100		
41	59.6	12.1	52.1#
56	61.9	13.7	53.7#

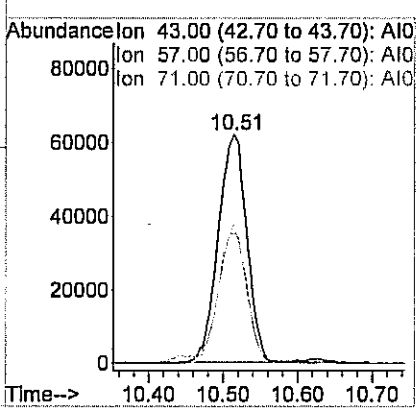


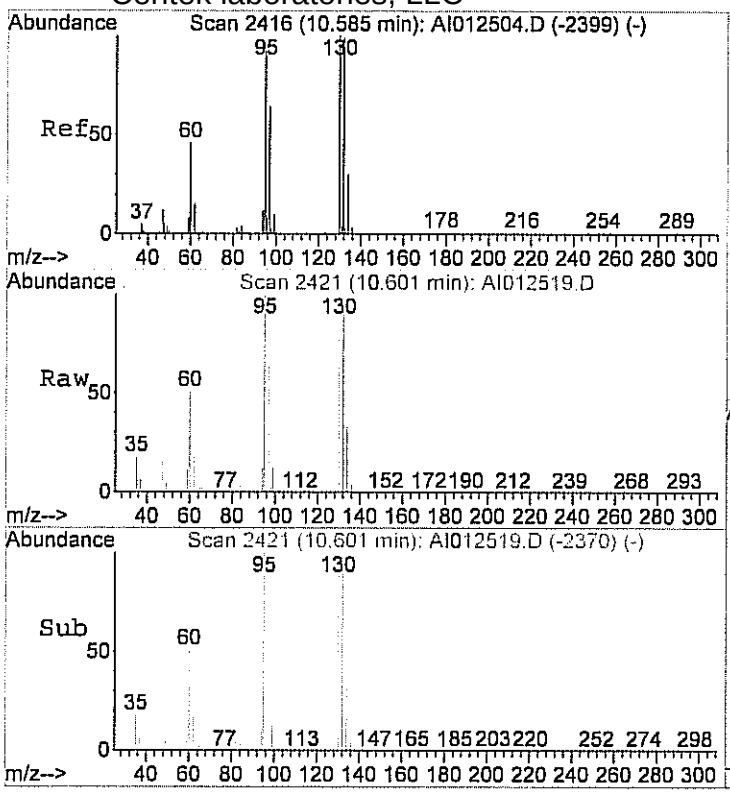


#37
Heptane
Concen: 9.04 ppb
RT: 10.51 min Scan# 2394
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 43 Resp: 166341

Ion	Ratio	Lower	Upper
43	100		
57	61.0	37.9	77.9
71	59.3	46.6	86.6

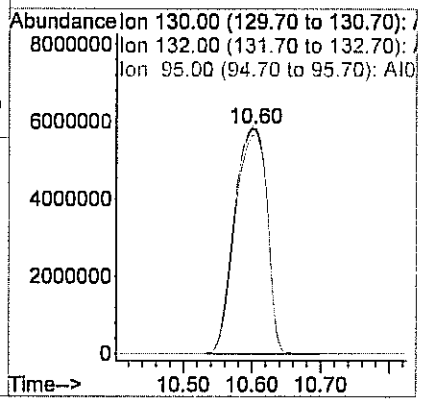


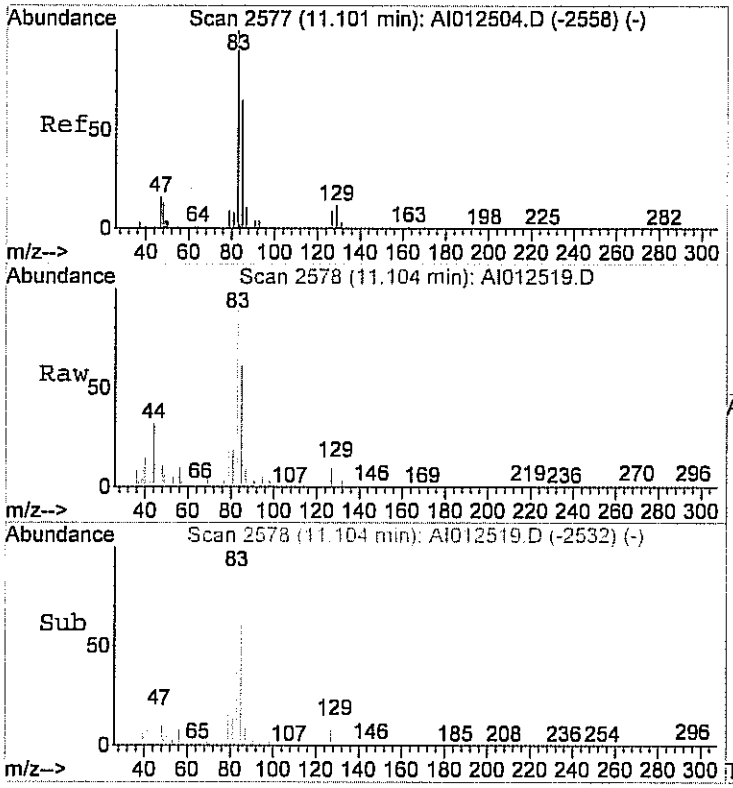


#38
Trichloroethene
Concen: 594.60 ppb
RT: 10.60 min Scan# 2421
Delta R.T. 0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:130 Resp:19375728

Ion	Ratio	Lower	Upper
130	100		
132	96.6	77.0	117.0
95	100.4	70.8	110.8

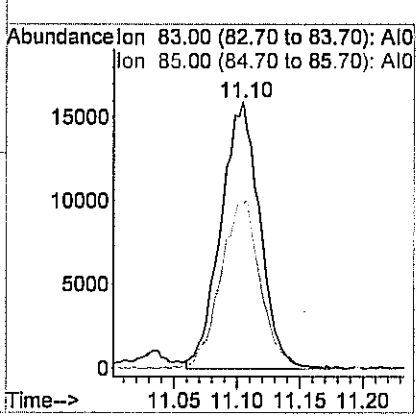


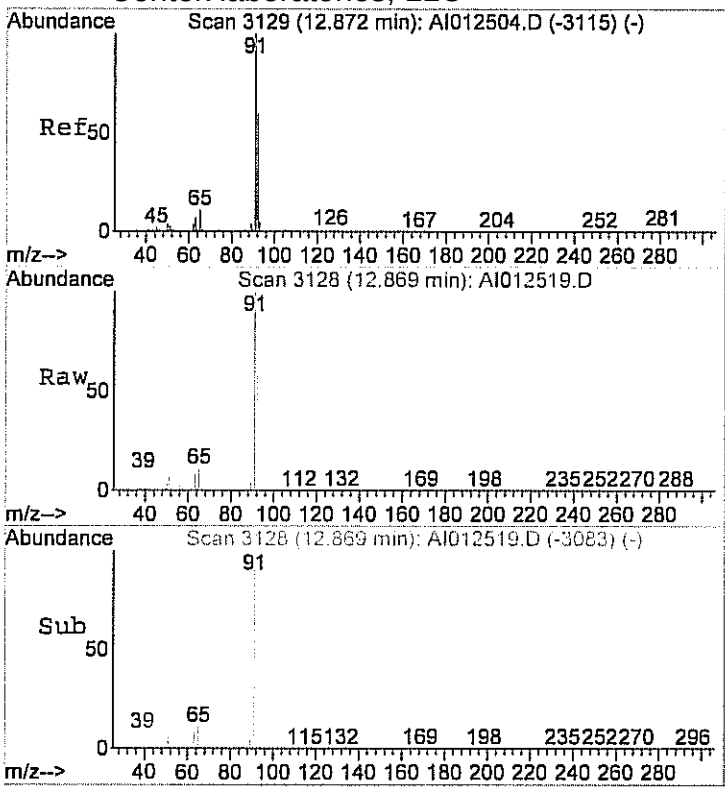


#40
Bromodichloromethane
Concen: 0.59 ppb
RT: 11.10 min Scan# 2578
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 83 Resp: 34291

Ion	Ratio	Lower	Upper
83	100		
85	64.1	45.7	85.7

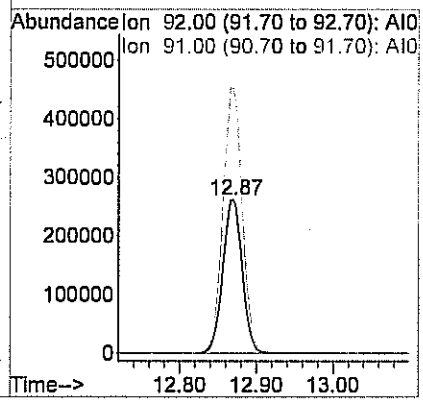


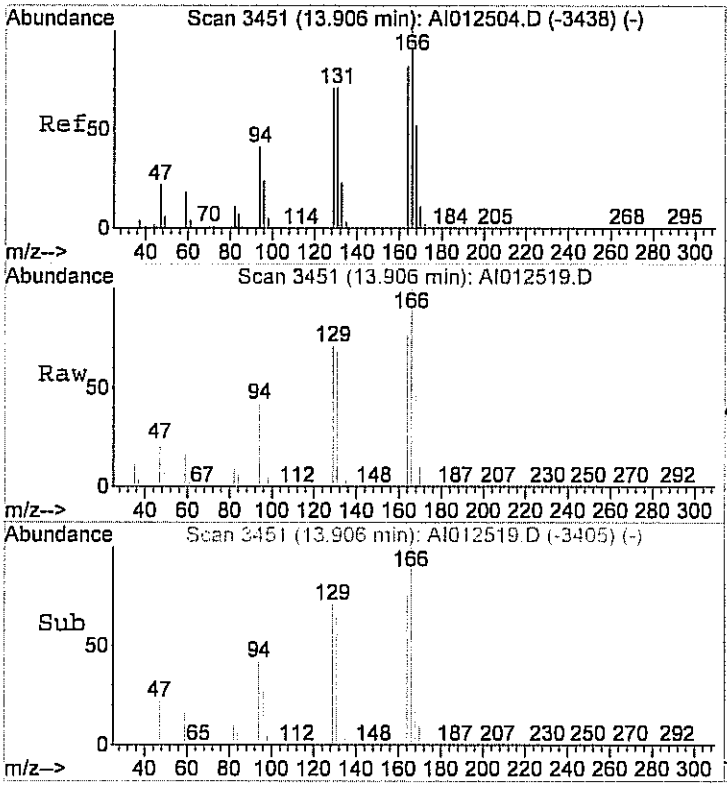


#45
Toluene
Concen: 14.18 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 92 Resp: 460011

Ion	Ratio	Lower	Upper
92	100		
91	172.0	150.0	190.0

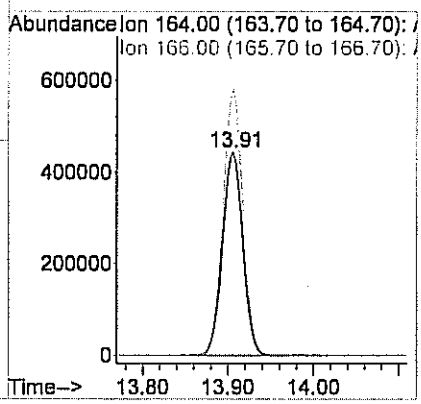


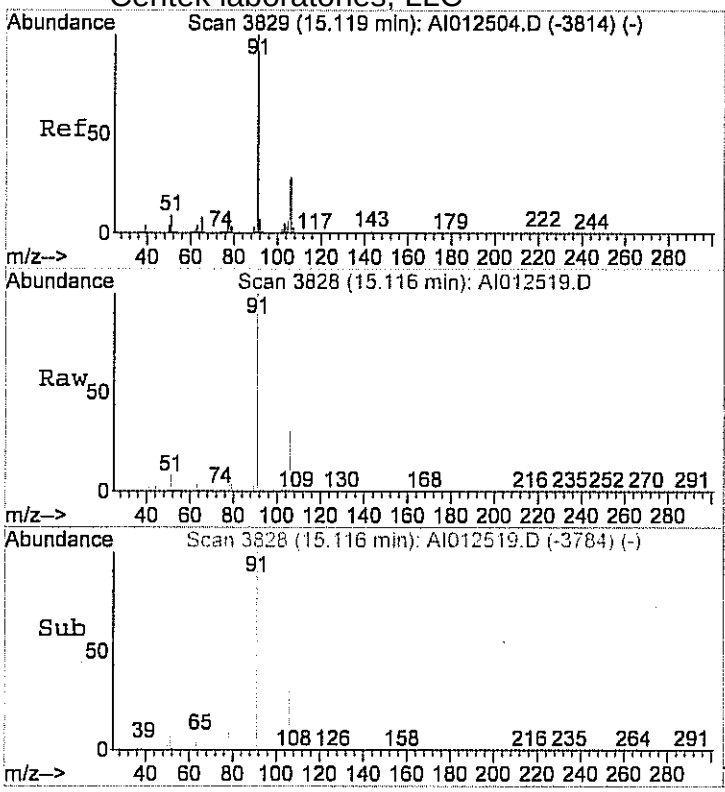


#50
Tetrachloroethylene
Concen: 19.58 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:164 Resp: 730489

Ion	Ratio	Lower	Upper
164	100		
166	128.4	109.0	149.0

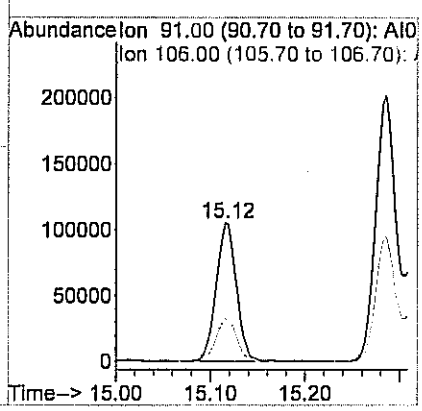


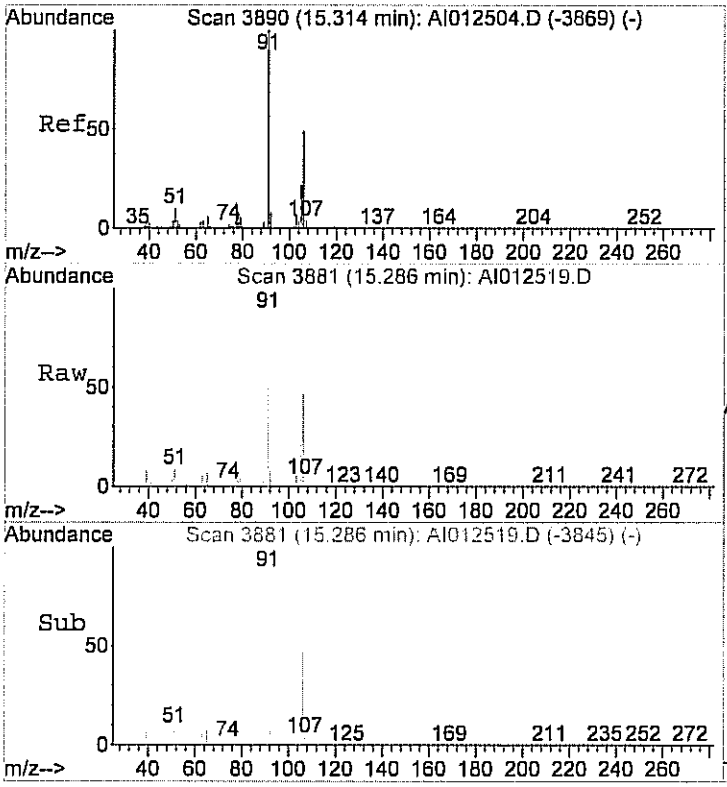


#52
Ethylbenzene
Concen: 2.52 ppb
RT: 15.12 min Scan# 3828
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 156752

Ion	Ratio	Lower	Upper
91	100		
106	31.7	12.9	52.9

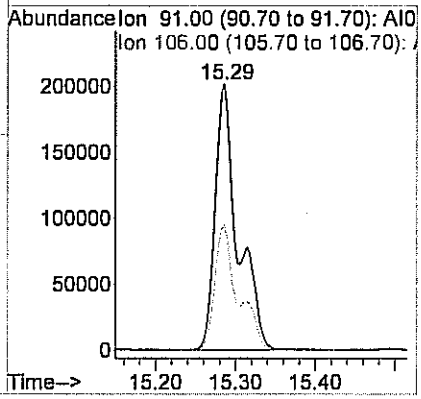


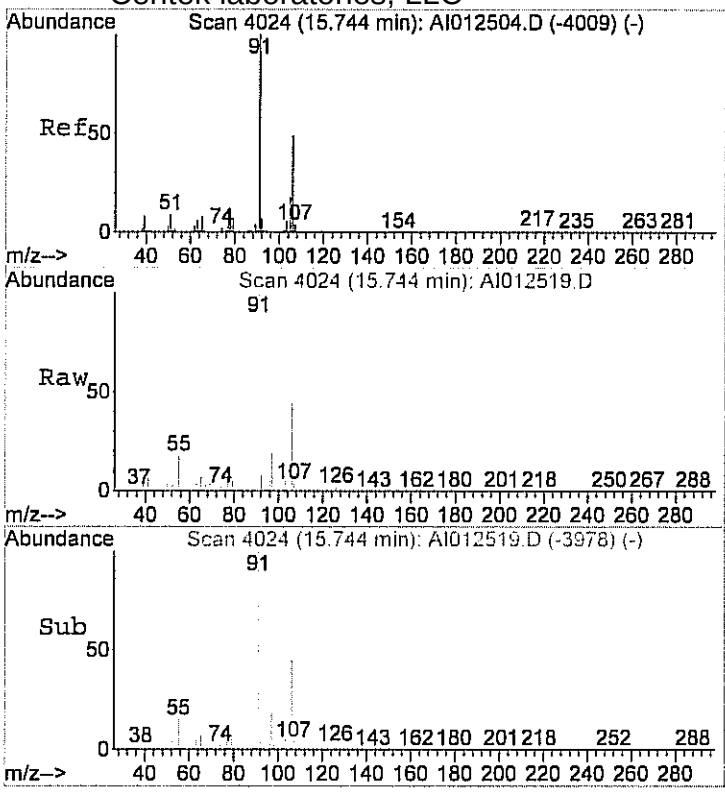


#53
m&p-xylene
Concen: 7.81 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 397569

Ion	Ratio	Lower	Upper
91	100		
106	47.9	29.9	69.9

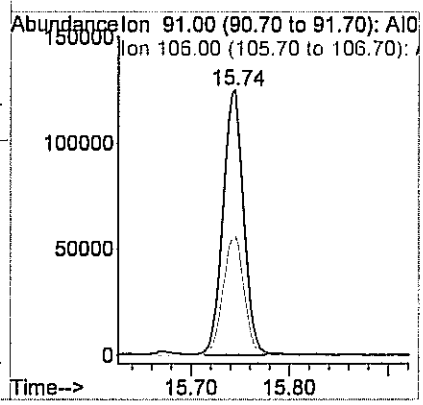


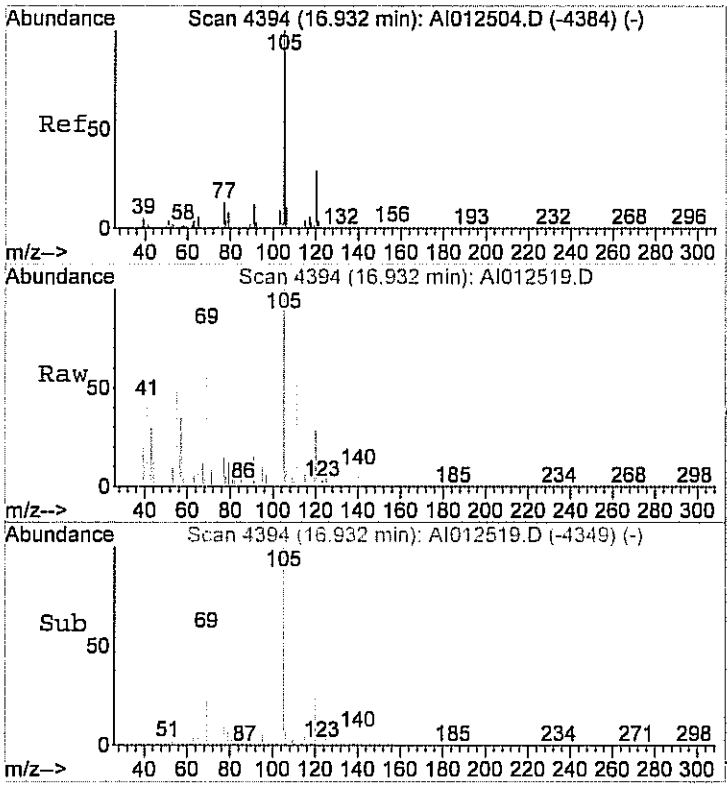


#56
o-xylene
Concen: 3.01 ppb
RT: 15.74 min Scan# 4024
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 182747

Ion	Ratio	Lower	Upper
91	100		
106	45.9	29.0	69.0

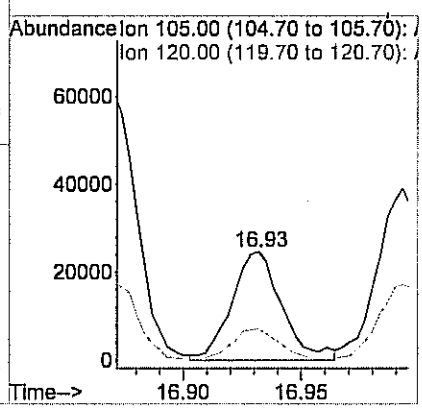


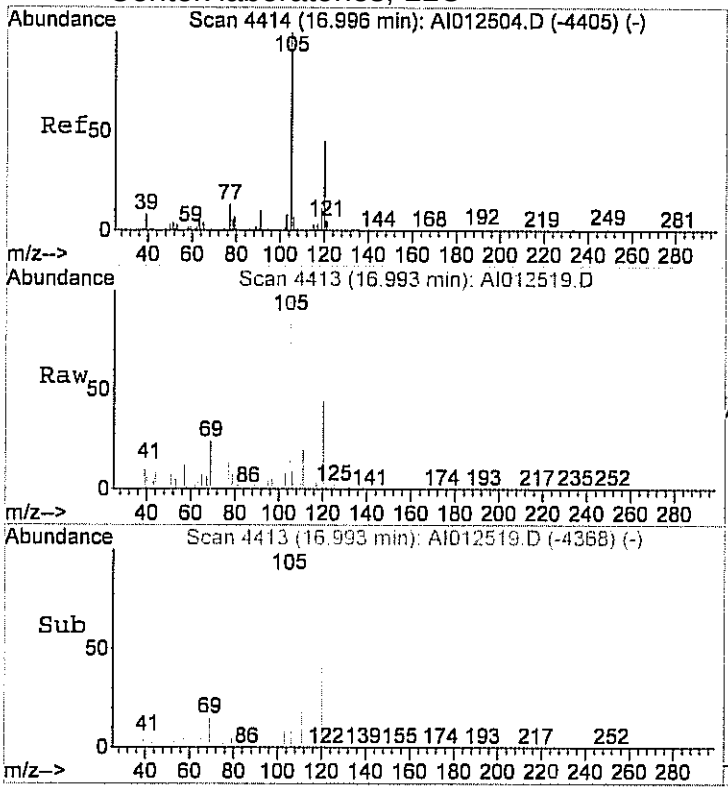


#59
4-ethyltoluene
Concen: 0.65 ppb m
RT: 16.93 min Scan# 4394
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 36511

Ion	Ratio	Lower	Upper
105	100		
120	27.8	10.3	50.3

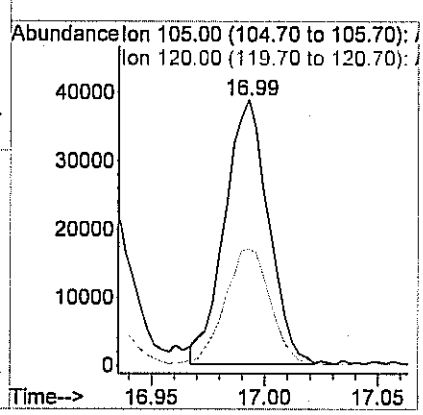


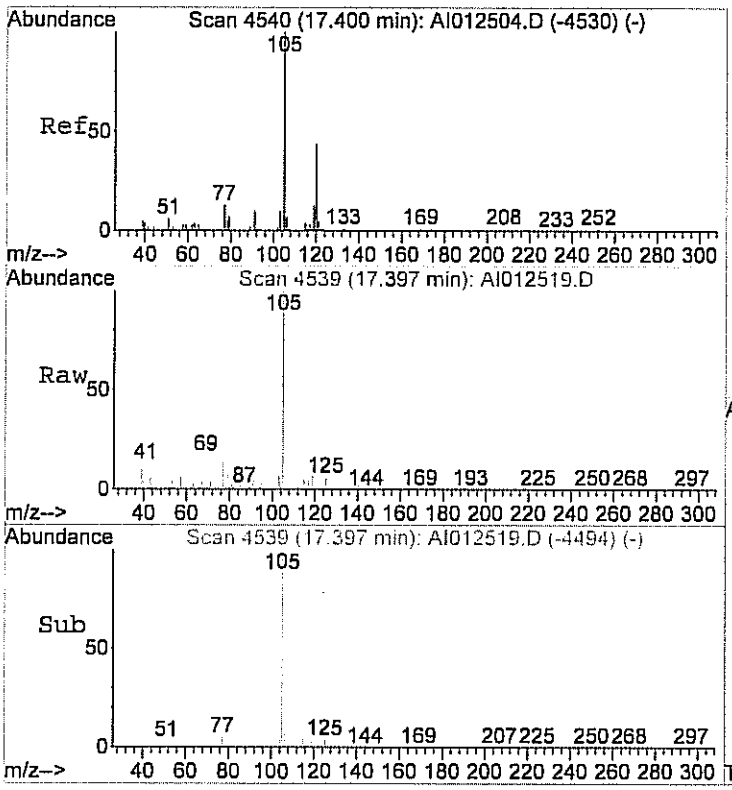


#60
1,3,5-trimethylbenzene
Concen: 1.05 ppb
RT: 16.99 min Scan# 4413
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 52080

Ion	Ratio	Lower	Upper
105	100		
120	46.7	28.6	68.6

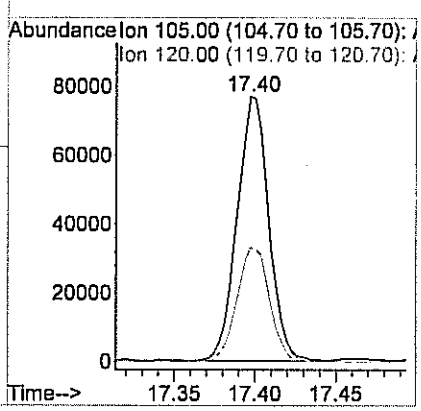




#61
1,2,4-trimethylbenzene
Concen: 2.67 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 104534

Ion	Ratio	Lower	Upper
105	100		
120	44.5	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012713.D Vial: 2
Acq On : 27 Jan 2011 4:56 pm Operator: RJP
Sample : C1101031-001A 10X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 17:17:42 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

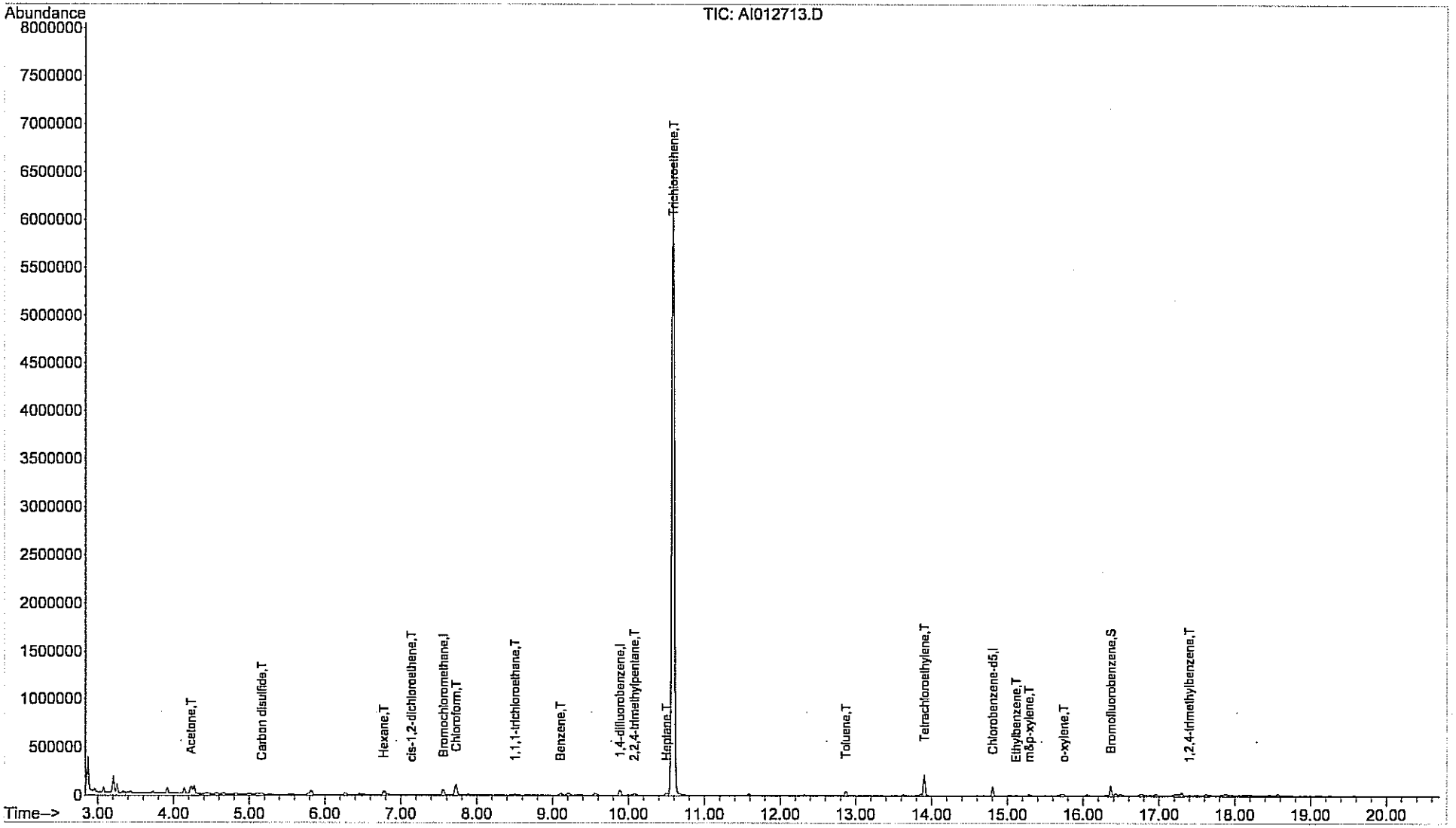
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	18349	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.89	114	54249	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	50726	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	29509	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
12) Acetone	4.22	58	12285m	2.48	ppb		
18) Carbon disulfide	5.17	76	22455	0.48	ppb		98
24) cis-1,2-dichloroethene	7.14	61	4260	0.24	ppb		87
25) Hexane	6.78	41	18415	1.46	ppb	#	43
27) Chloroform	7.73	83	95451	2.47	ppb		100
31) 1,1,1-trichloroethane	8.50	97	7778	0.22	ppb		93
34) Benzene	9.10	78	22206	0.59	ppb		97
36) 2,2,4-trimethylpentane	10.07	57	16418	0.41	ppb	#	76
37) Heptane	10.50	43	8010	0.60	ppb		95
38) Trichloroethene	10.58	130	2800653	117.59	ppb		96
45) Toluene	12.87	92	19305	0.91	ppb		97
50) Tetrachloroethylene	13.91	164	49979	2.05	ppb		98
52) Ethylbenzene	15.11	91	6093	0.15	ppb		99
53) m&p-xylene	15.29	91	13003	0.39	ppb		99
56) o-xylene	15.75	91	6797	0.17	ppb		96
61) 1,2,4-trimethylbenzene	17.40	105	3884m	0.15	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

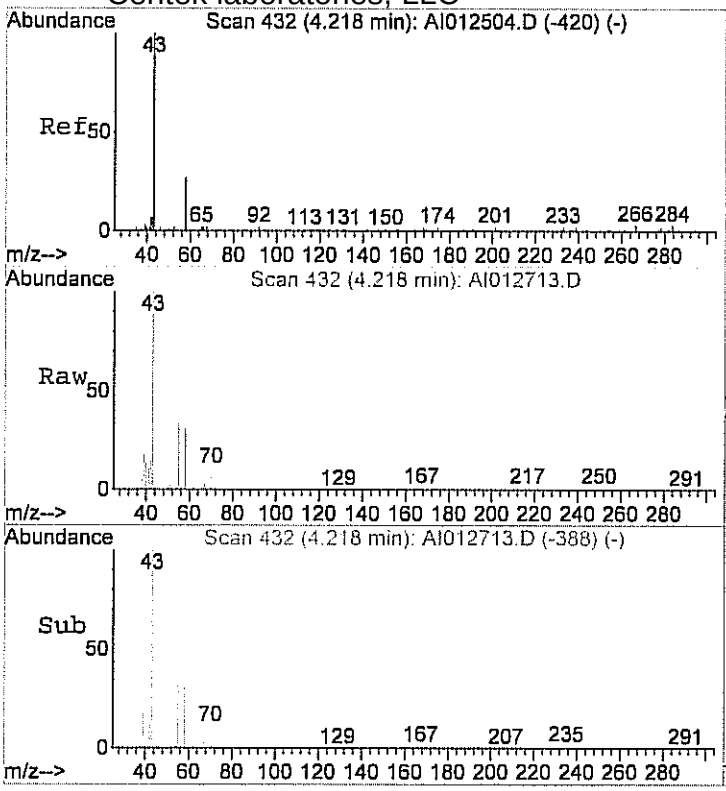
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012713.D Vial: 2
Acq On : 27 Jan 2011 4:56 pm Operator: RJP
Sample : C1101031-001A 10X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:03 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



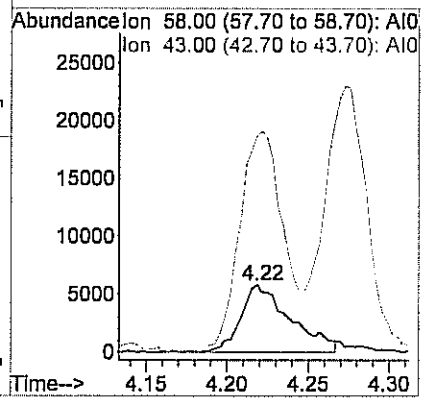
Centek laboratories, LLC

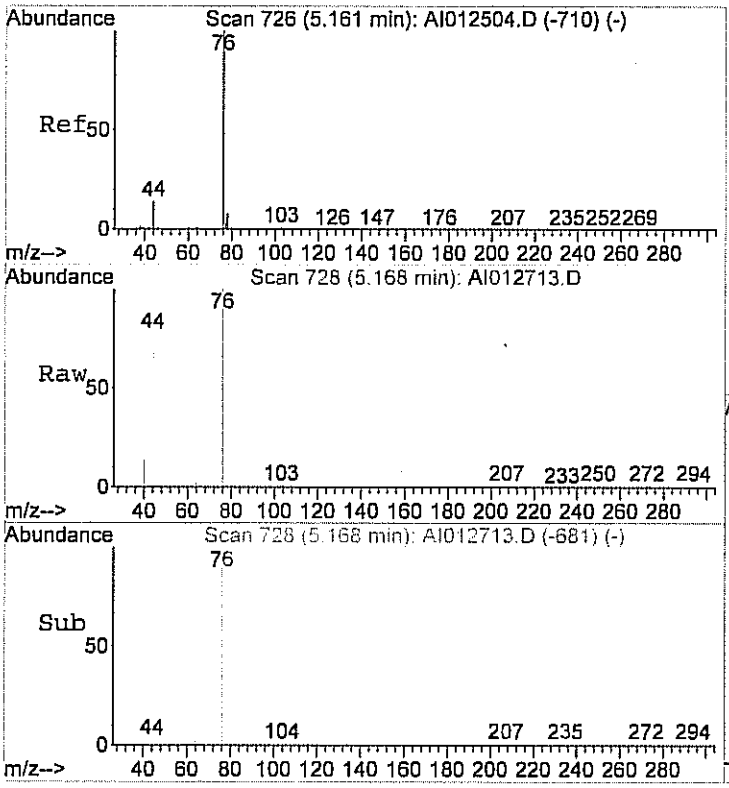


#12
Acetone
Concen: 2.48 ppb m
RT: 4.22 min Scan# 432
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 58 Resp: 12285

Ion	Ratio	Lower	Upper
58	100		
43	0.0	329.0	389.0#

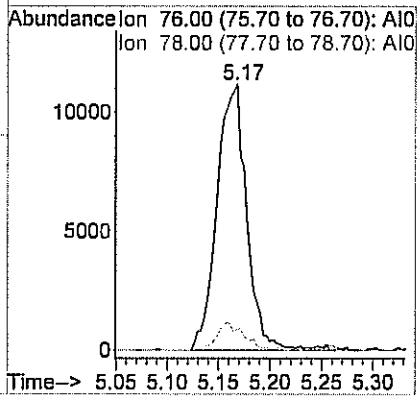


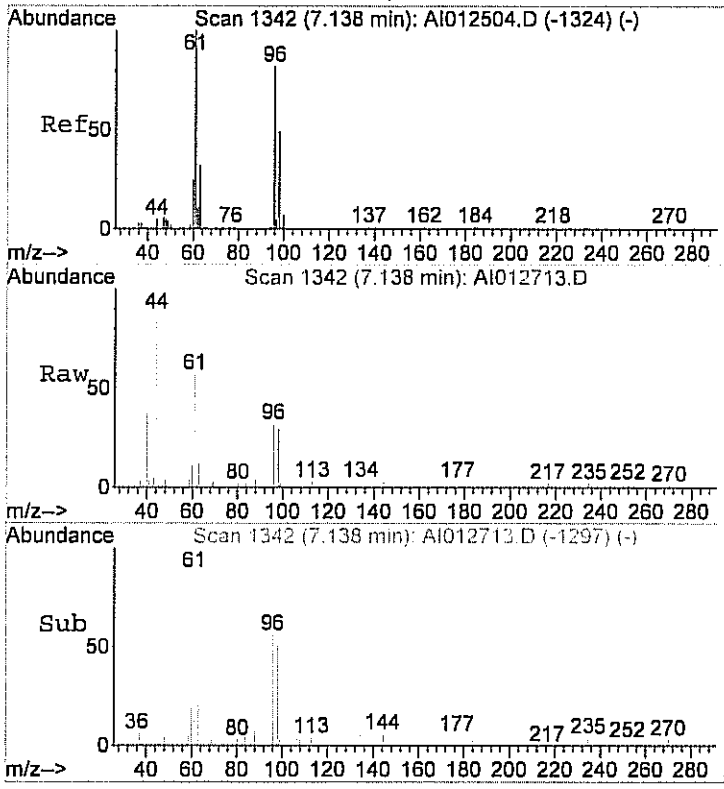


#18
Carbon disulfide
Concen: 0.48 ppb
RT: 5.17 min Scan# 728
Delta R.T. 0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 76 Resp: 22455

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	30.1

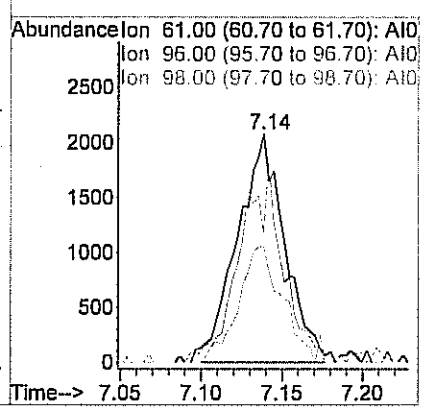


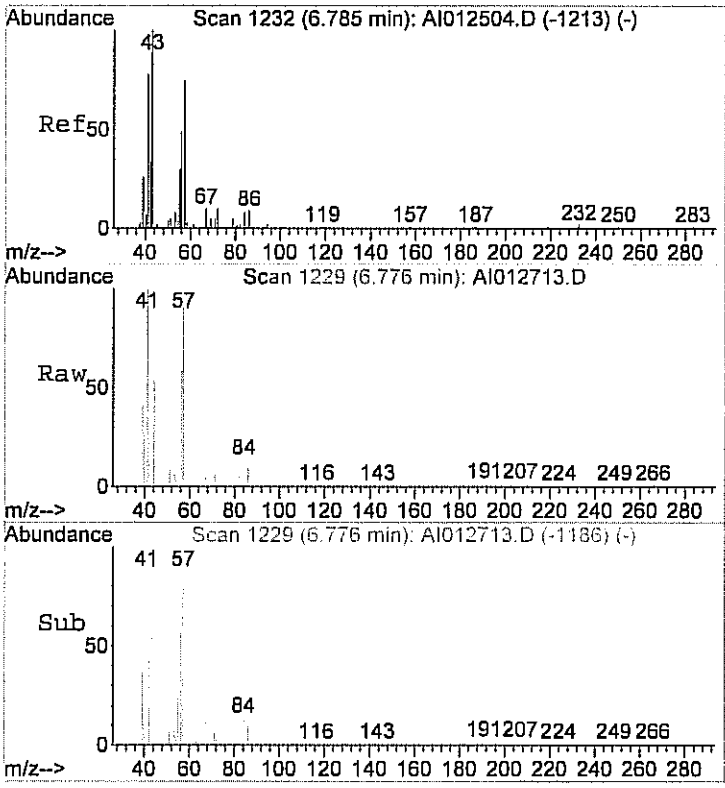


#24
cis-1,2-dichloroethene
Concen: 0.24 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 61 Resp: 4260

Ion	Ratio	Lower	Upper
61	100		
96	77.4	68.1	108.1
98	46.5	37.3	77.3

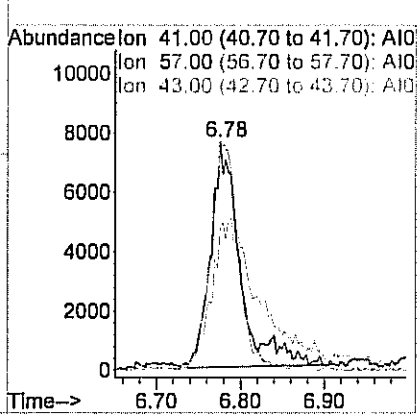


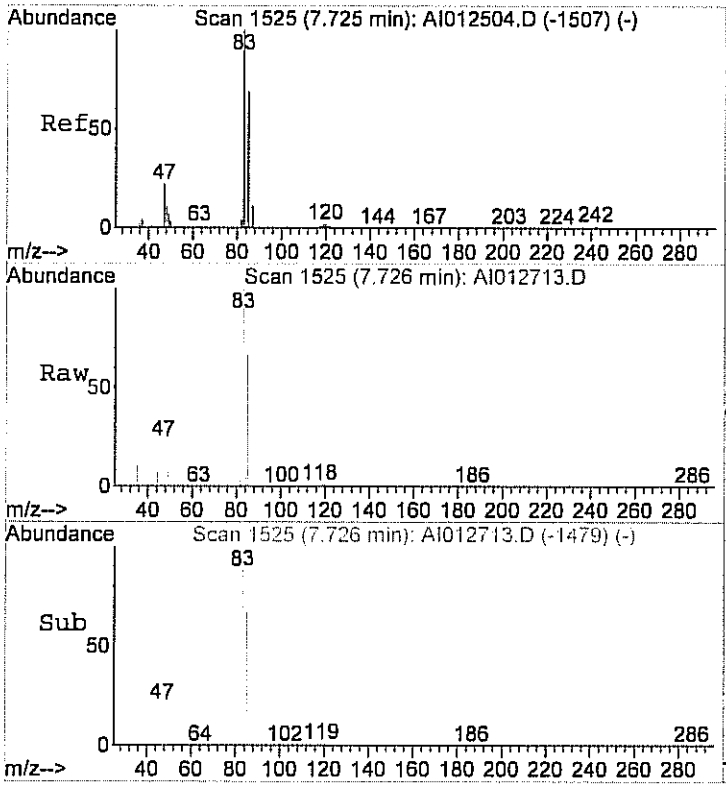


#25
Hexane
Concen: 1.46 ppb
RT: 6.78 min Scan# 1229
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 41 Resp: 18415

Ion	Ratio	Lower	Upper
41	100		
57	97.1	114.8	154.8#
43	113.2	213.3	253.3#

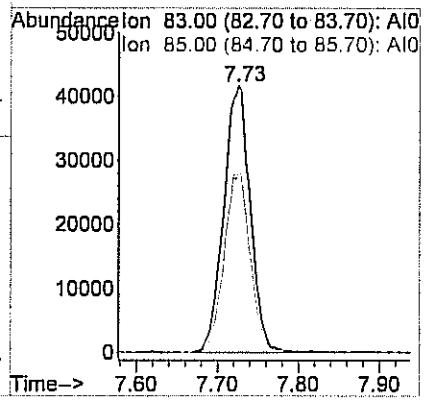


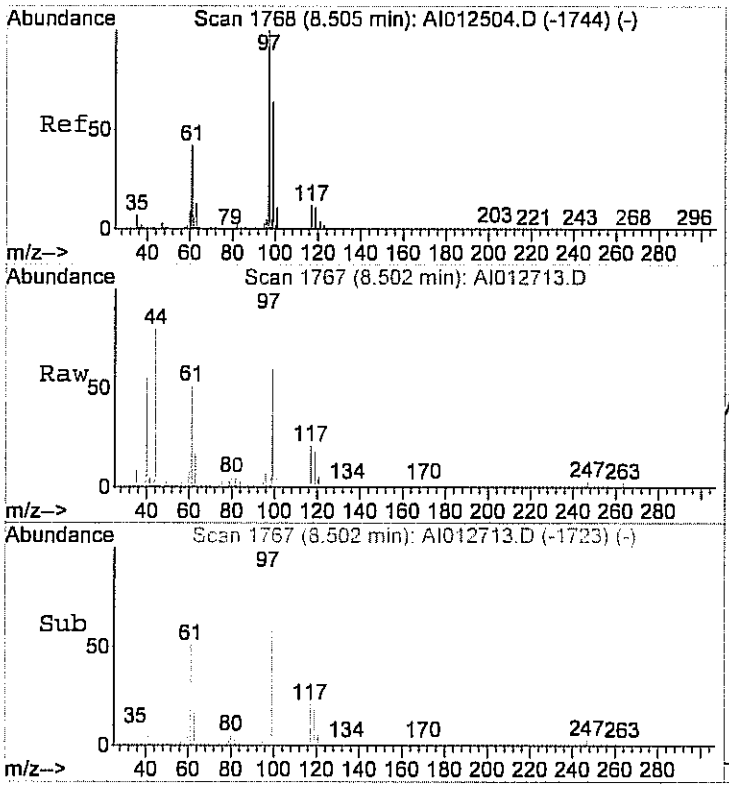


#27
Chloroform
Concen: 2.47 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 83 Resp: 95451

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5

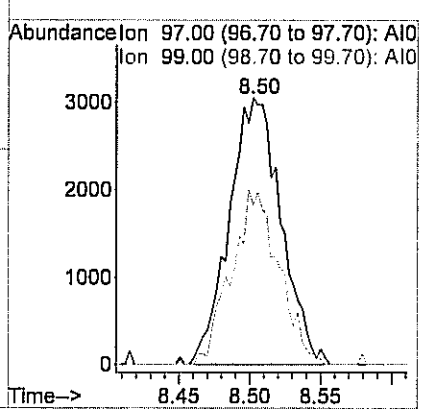


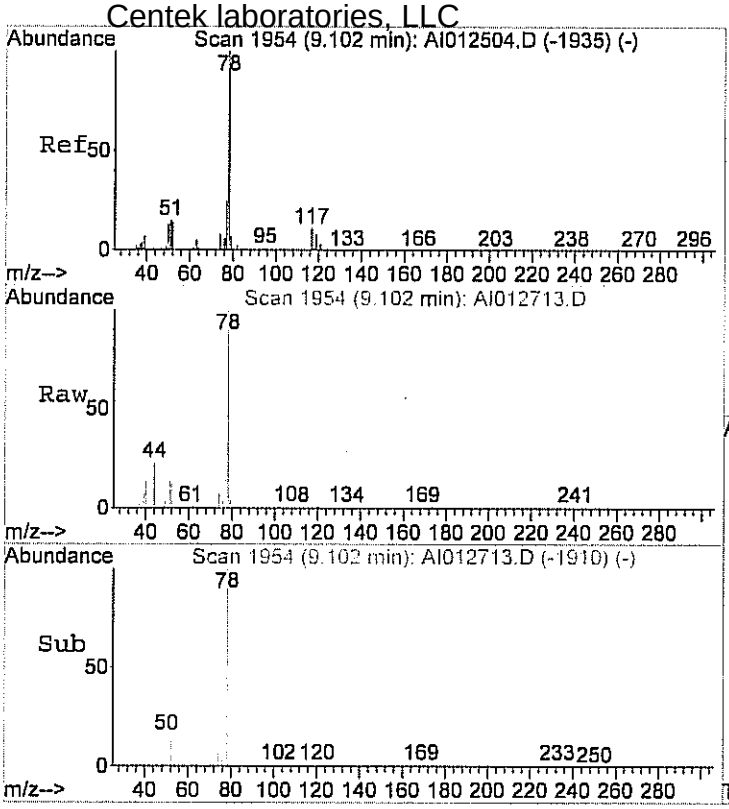


#31
1,1,1-trichloroethane
Concen: 0.22 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 97 Resp: 7778

Ion	Ratio	Lower	Upper
97	100		
99	60.2	45.4	85.4

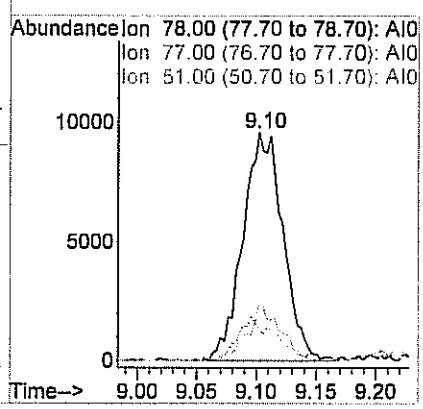


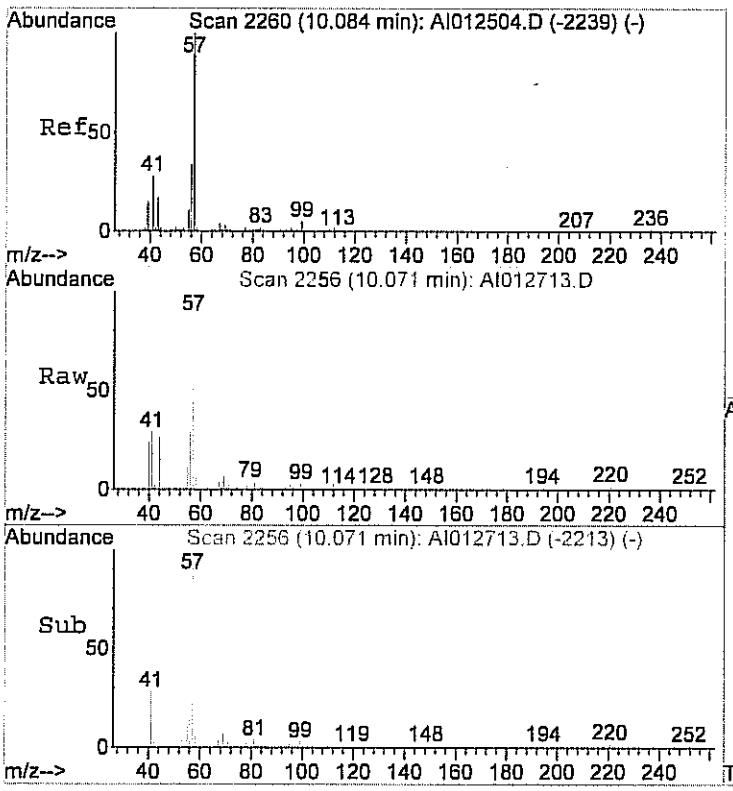


#34
Benzene
Concen: 0.59 ppb
RT: 9.10 min Scan# 1954
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 78 Resp: 22206

Ion	Ratio	Lower	Upper
78	100		
77	23.3	2.6	42.6
51	15.9	0.0	34.0

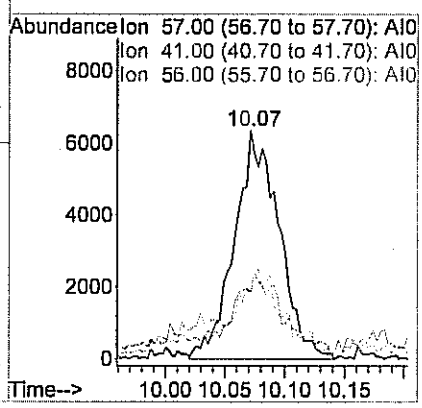


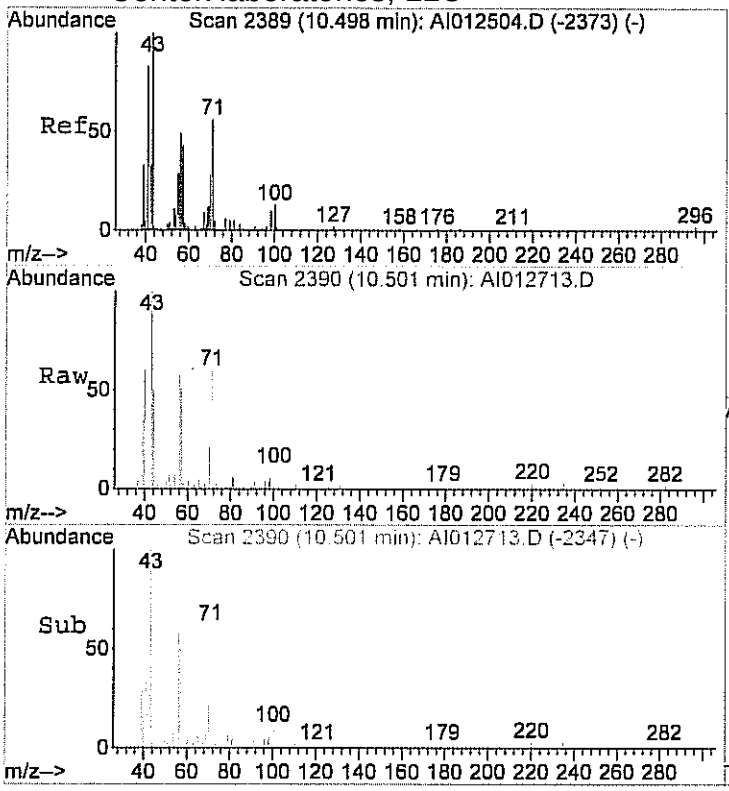


#36
2,2,4-trimethylpentane
Concen: 0.41 ppb
RT: 10.07 min Scan# 2256
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 57 Resp: 16418

Ion	Ratio	Lower	Upper
57	100		
41	58.9	12.1	52.1#
56	33.1	13.7	53.7

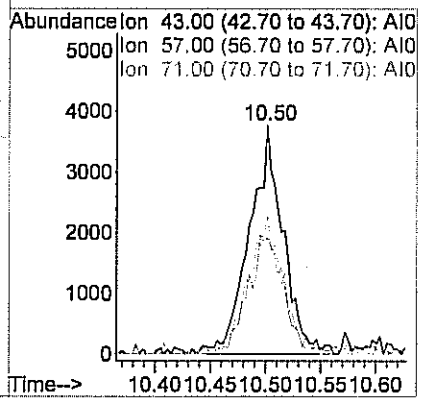


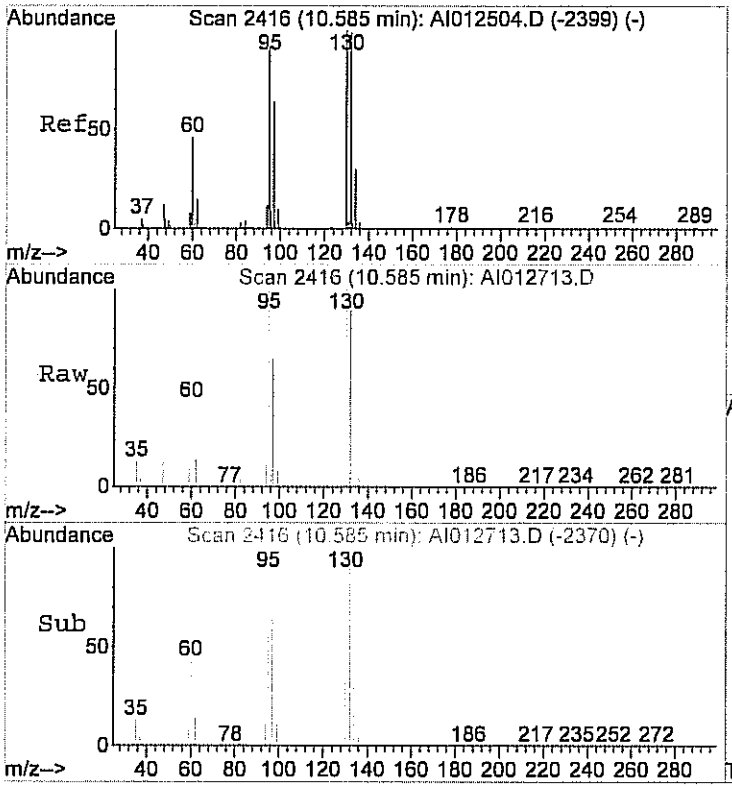


#37
Heptane
Concen: 0.60 ppb
RT: 10.50 min Scan# 2390
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 43 Resp: 8010

Ion	Ratio	Lower	Upper
43	100		
57	56.9	37.9	77.9
71	60.5	46.6	86.6

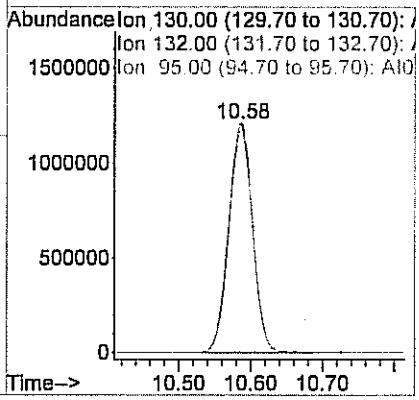


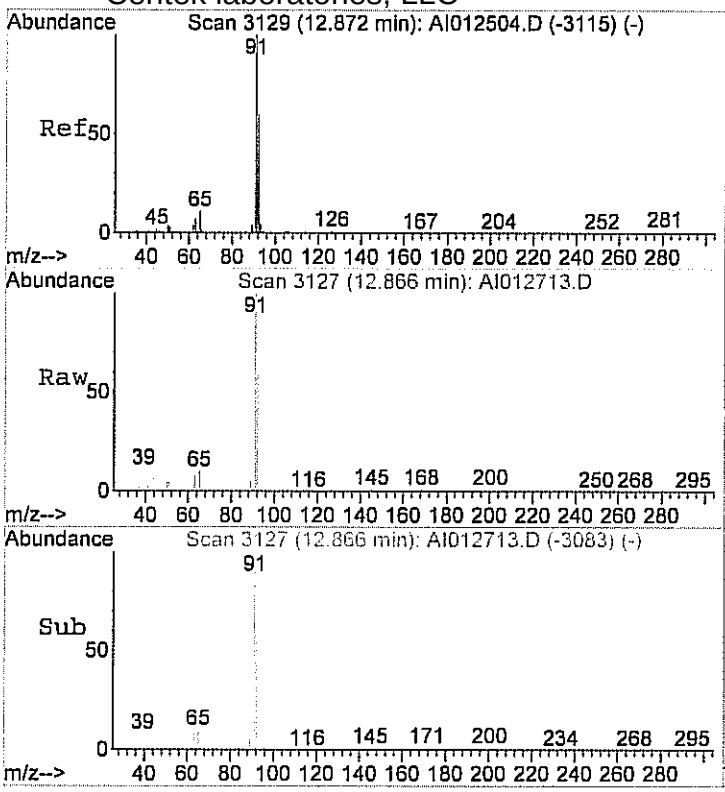


#38
Trichloroethene
Concen: 117.59 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:130 Resp: 2800653

Ion	Ratio	Lower	Upper
130	100		
132	96.9	77.0	117.0
95	99.4	70.8	110.8

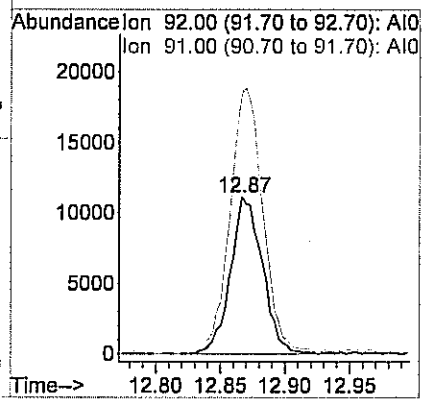


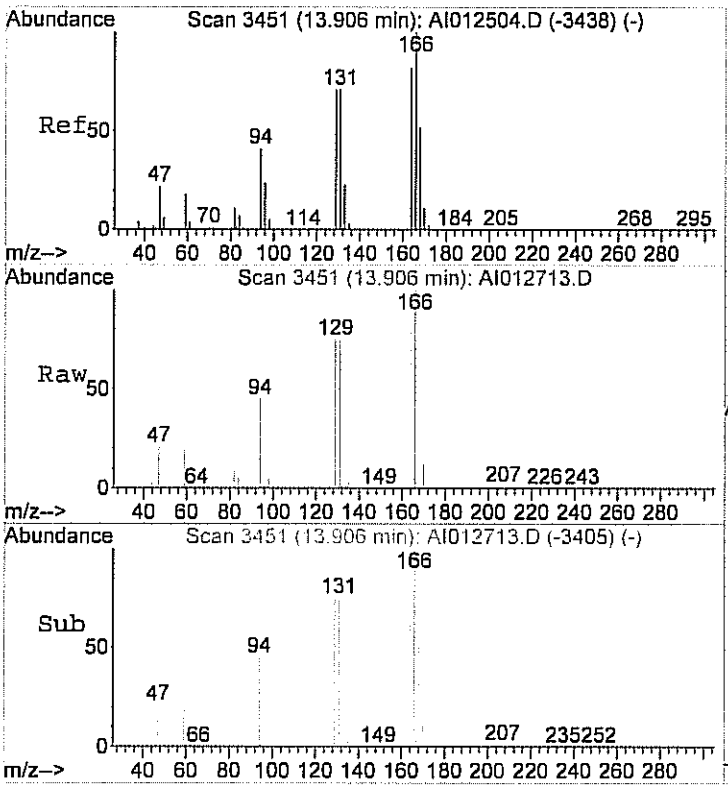


#45
Toluene
Concen: 0.91 ppb
RT: 12.87 min Scan# 3127
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 92 Resp: 19305

Ion	Ratio	Lower	Upper
92	100		
91	173.6	150.0	190.0

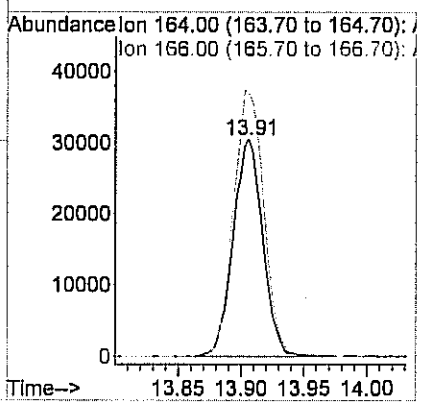


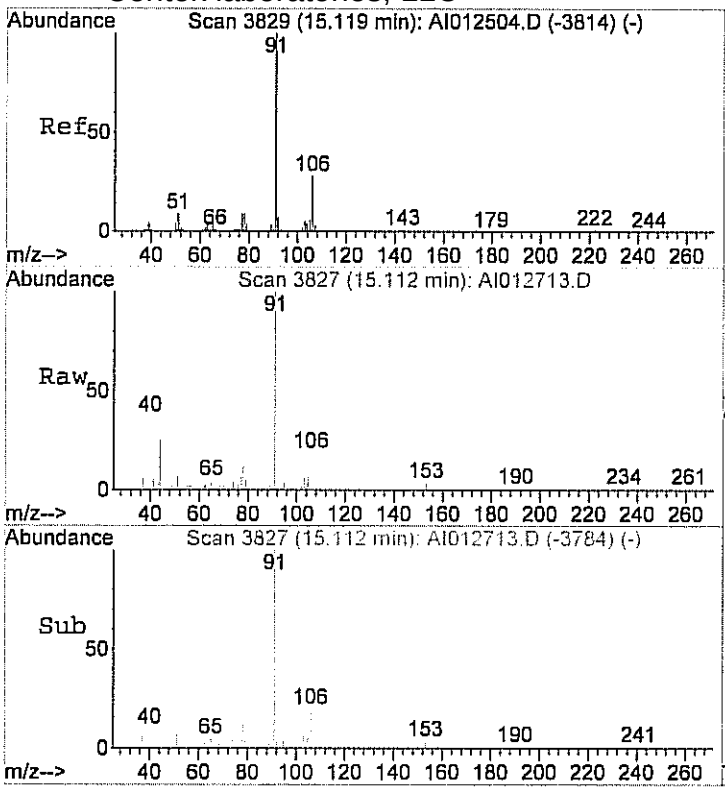


#50
Tetrachloroethylene
Concen: 2.05 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:164 Resp: 49979

Ion	Ratio	Lower	Upper
164	100		
166	126.2	109.0	149.0

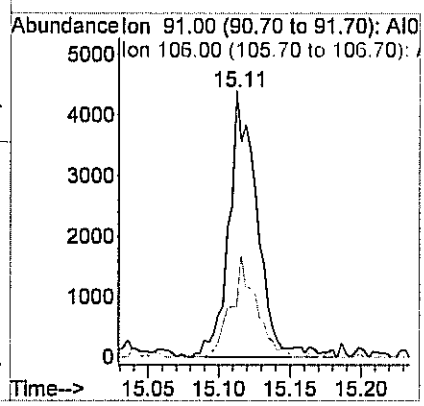


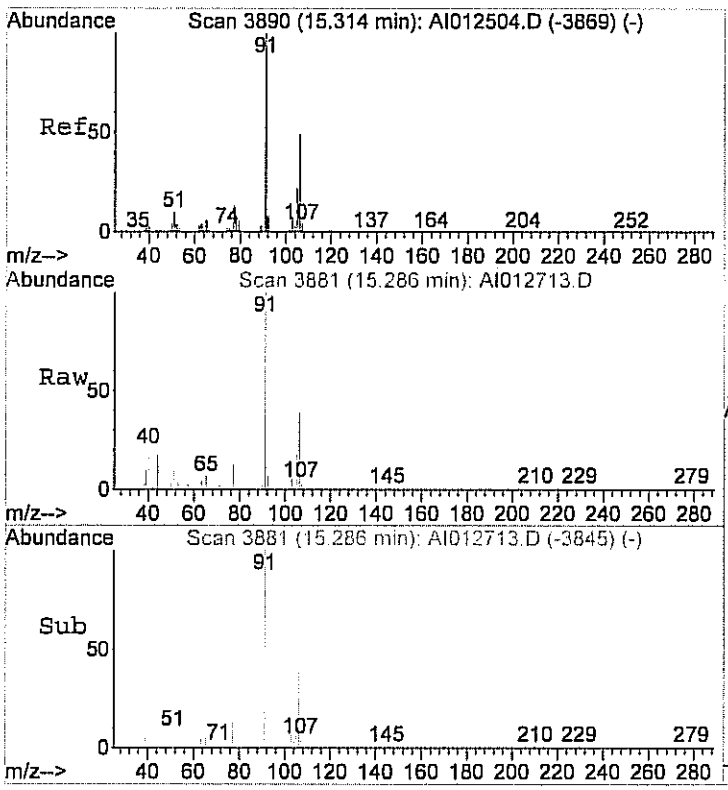


#52
Ethylbenzene
Concen: 0.15 ppb
RT: 15.11 min Scan# 3827
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 6093

Ion	Ratio	Lower	Upper
91	100		
106	33.5	12.9	52.9

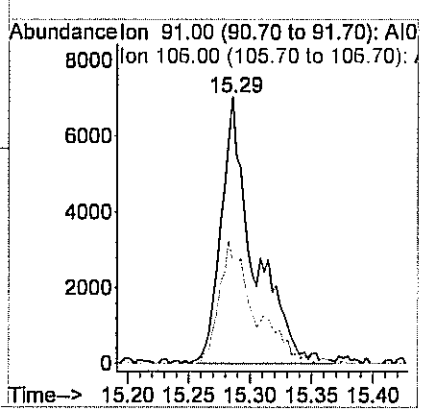


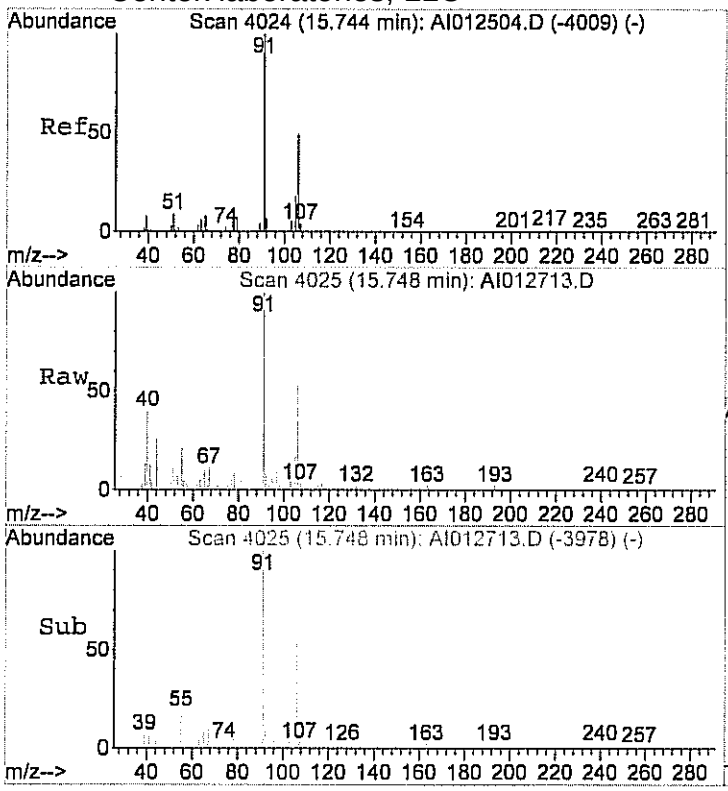


#53
m&p-xylene
Concen: 0.39 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 13003

Ion	Ratio	Lower	Upper
91	100		
106	49.1	29.9	69.9

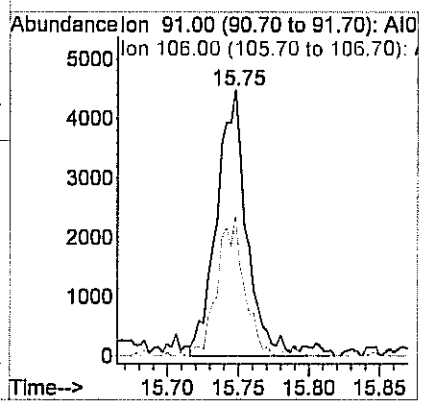


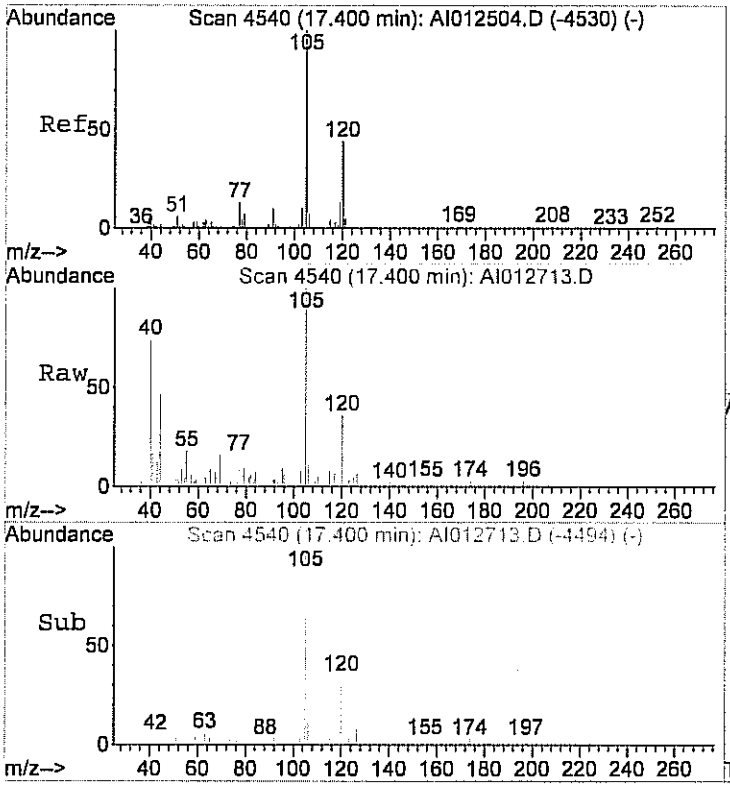


#56
o-xylene
Concen: 0.17 ppb
RT: 15.75 min Scan# 4025
Delta R.T. 0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 6797

Ion	Ratio	Lower	Upper
91	100		
106	45.9	29.0	69.0

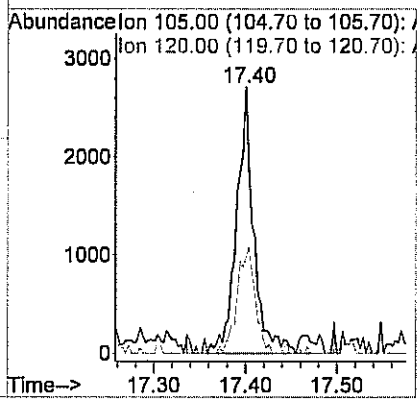




#61
1,2,4-trimethylbenzene
Concen: 0.15 ppb m
RT: 17.40 min Scan# 4540
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:105 Resp: 3884

Ion	Ratio	Lower	Upper
105	100		
120	37.9	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012714.D Vial: 3
Acq On : 27 Jan 2011 5:29 pm Operator: RJP
Sample : C1101031-001A 40X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 17:49:58 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

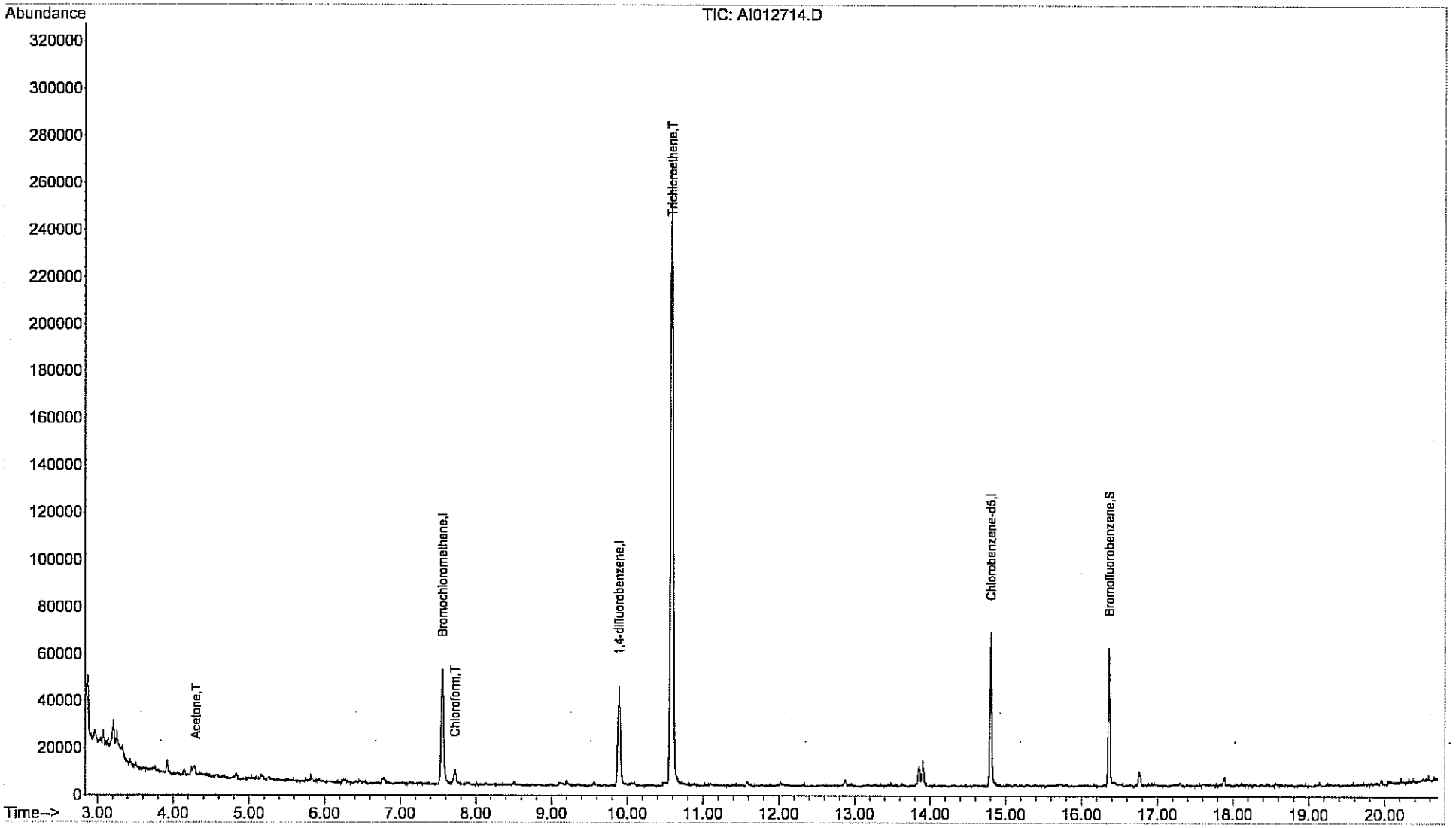
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17353	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	42790	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	35099	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	16599	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
12) Acetone	4.31	58	1497m N	0.32	ppb	
27) Chloroform	7.73	83	5317	0.15	ppb	99
38) Trichloroethene	10.59	130	112961	6.01	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012714.D A106_1UG.M Tue Feb 08 15:45:01 2011 MSD1 Page 1

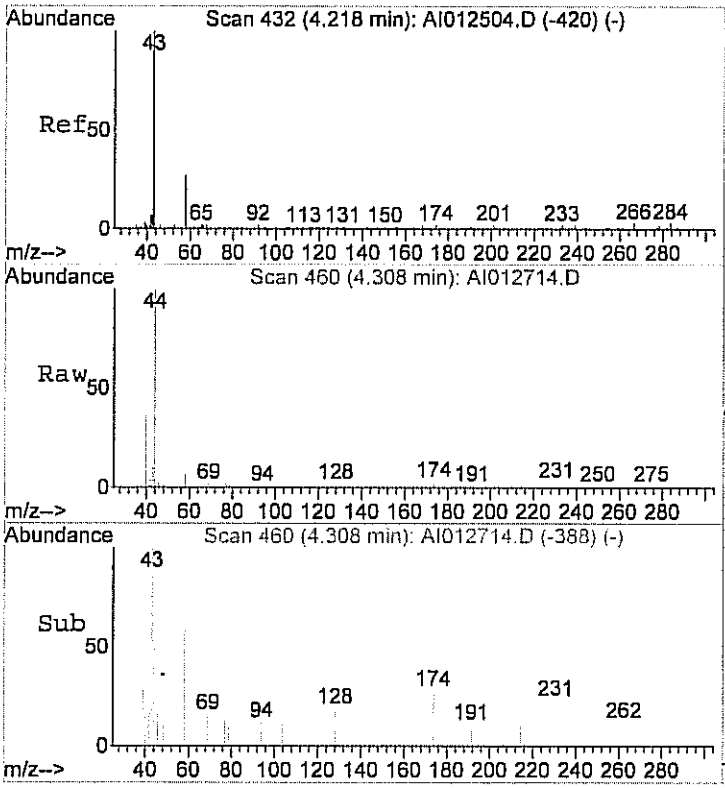
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012714.D Vial: 3
Acq On : 27 Jan 2011 5:29 pm Operator: RJP
Sample : C1101031-001A 40X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:03 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



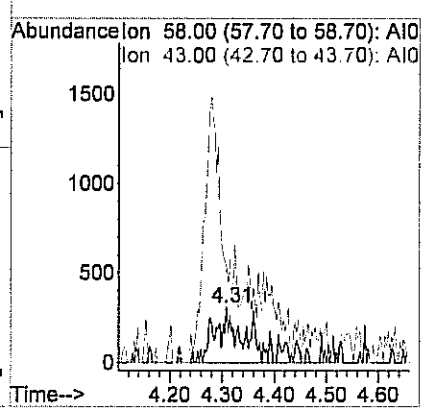
Centek laboratories, LLC

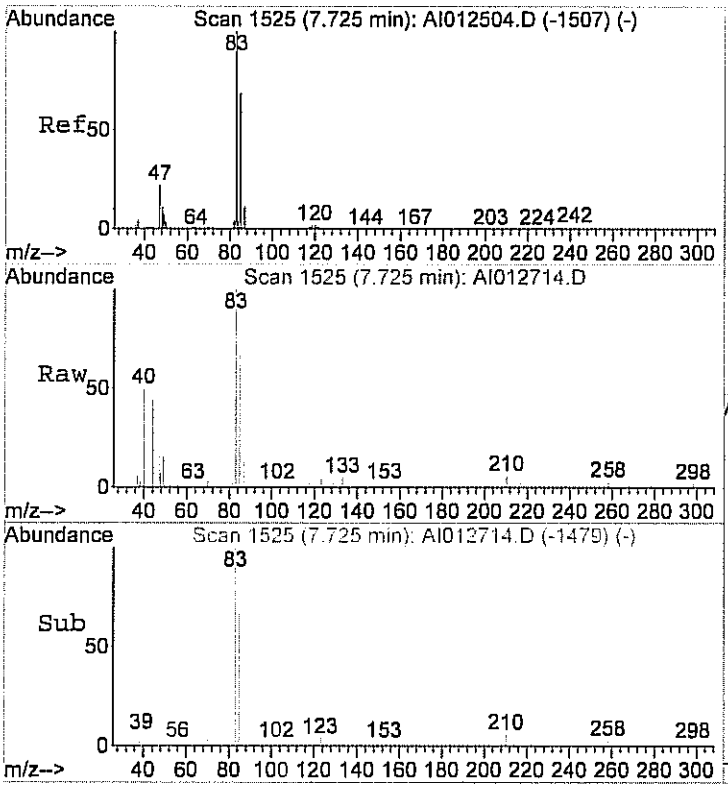


#12
Acetone
Concen: 0.32 ppb m
RT: 4.31 min Scan# 460
Delta R.T. 0.08 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion: 58 Resp: 1497

Ion	Ratio	Lower	Upper
58	100		
43	0.0	329.0	389.0#

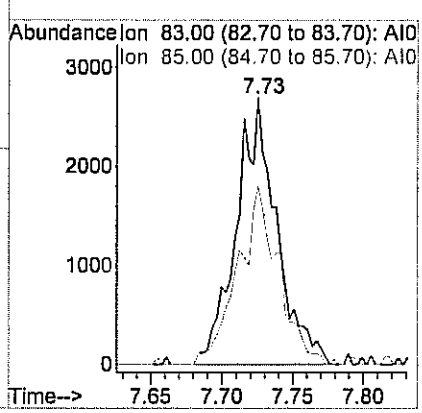


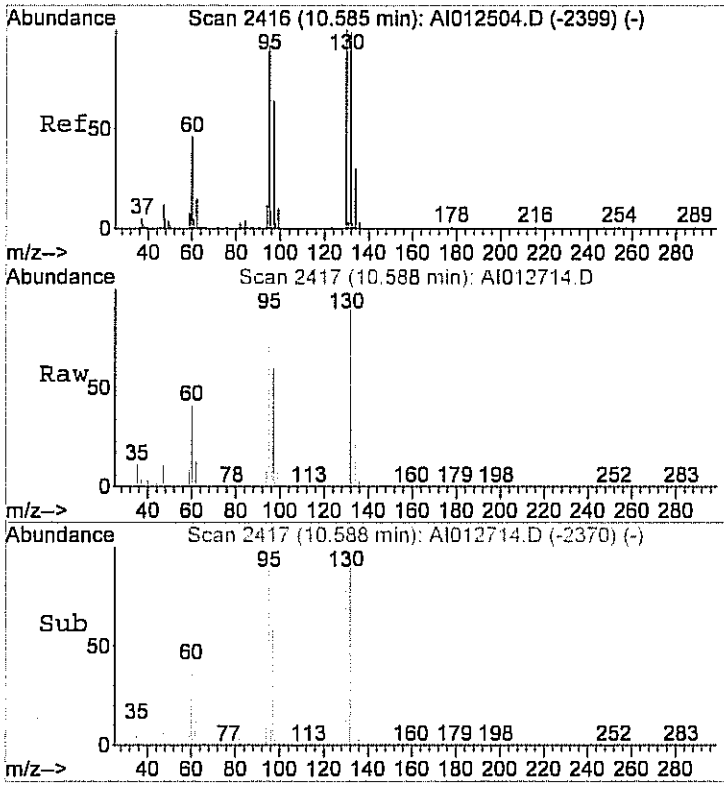


#27
Chloroform
Concen: 0.15 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion: 83 Resp: 5317

Ion	Ratio	Lower	Upper
83	100		
85	67.4	46.5	86.5

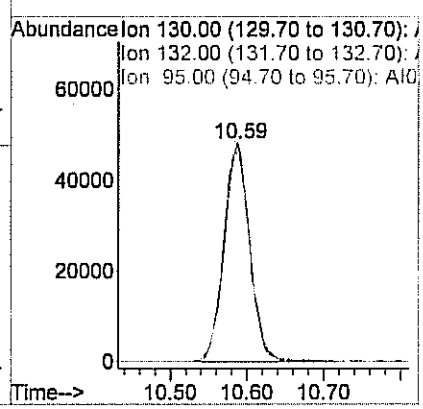




#38
Trichloroethene
Concen: 6.01 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion:130 Resp: 112961

Ion	Ratio	Lower	Upper
130	100		
132	97.6	77.0	117.0
95	102.5	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012809.D Vial: 1
Acq On : 28 Jan 2011 3:50 pm Operator: RJP
Sample : C1101031-001A 810X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 16:11:09 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

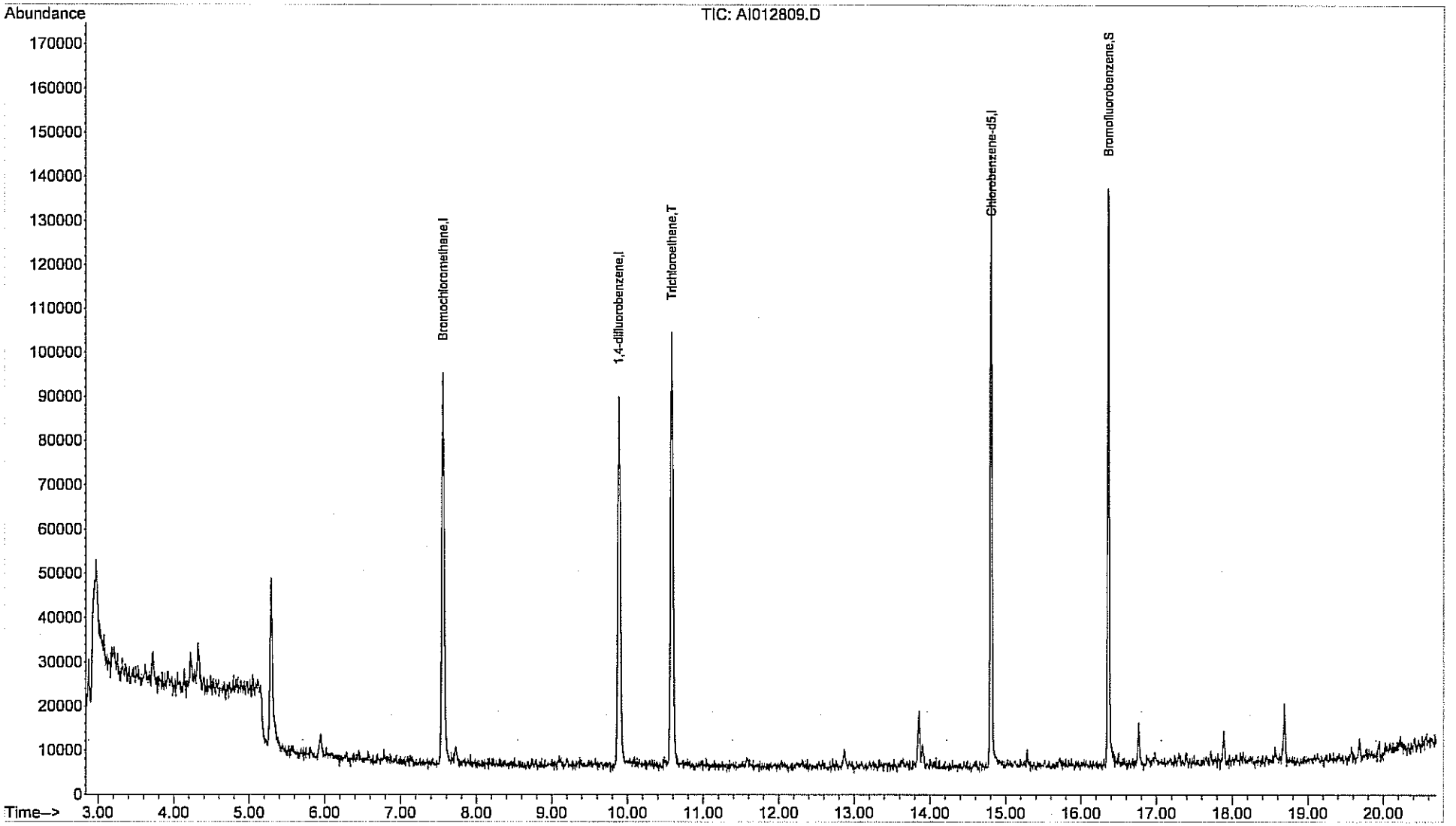
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	30614	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	85882	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	76826	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	37242	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.58	130	41986	1.11	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012809.D A106_1UG.M Tue Feb 08 15:45:36 2011 MSD1 Page 1

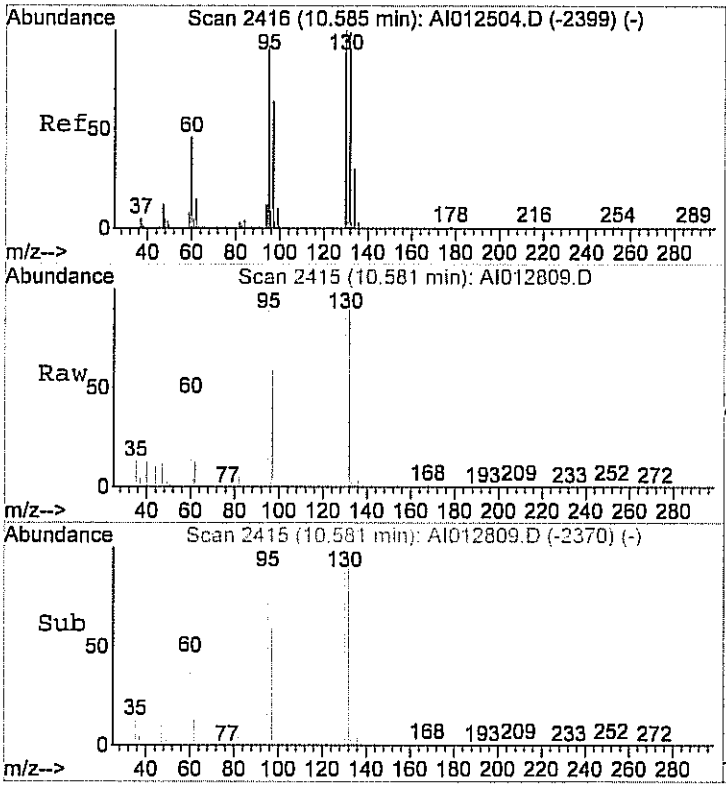
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012809.D Vial: 1
Acq On : 28 Jan 2011 3:50 pm Operator: RJP
Sample : C1101031-001A 810X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:04 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



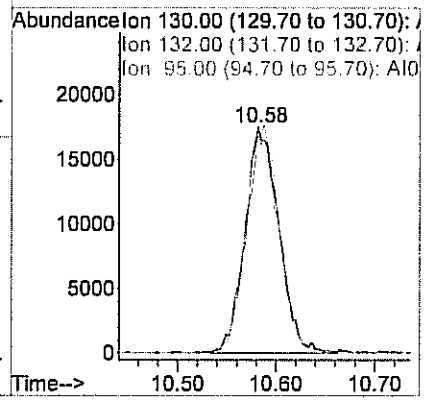
Centek laboratories, LLC



#38
Trichloroethene
Concen: 1.11 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012809.D
Acq: 28 Jan 2011 3:50 pm

Tgt Ion:130 Resp: 41986

Ion	Ratio	Lower	Upper
130	100		
132	95.2	77.0	117.0
95	102.4	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.7	1.5		ppbV	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	0.91	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	0.37	0.15		ppbV	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	1/25/2011 7:50:00 PM
Acetone	20	3.0		ppbV	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromodichloromethane	1.1	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon disulfide	1.7	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroform	120	14		ppbV	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	0.35	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 11	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 113	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 12	0.69	0.15		ppbV	1	1/25/2011 7:50:00 PM
Heptane	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
m&p-Xylene	1.1	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	2.2	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Methylene chloride	0.40	0.15		ppbV	1	1/25/2011 7:50:00 PM
o-Xylene	0.50	0.15		ppbV	1	1/25/2011 7:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	1.6	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	5.2	1.5		ppbV	10	1/27/2011 6:01:00 PM
Toluene	1.8	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Trichloroethene	140	14		ppbV	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	15	8.3		ug/m3	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	4.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	1.8	0.71		ug/m3	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.95	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Acetone	49	7.2		ug/m3	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:50:00 PM
Benzene	4.6	0.49		ug/m3	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:50:00 PM
Bromodichloromethane	7.4	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:50:00 PM
Carbon disulfide	5.3	0.47		ug/m3	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:50:00 PM
Chloroform	620	69		ug/m3	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	1.4	0.60		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Freon 11	2.7	0.86		ug/m3	1	1/25/2011 7:50:00 PM
Freon 113	3.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Heptane	5.8	0.62		ug/m3	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:50:00 PM
m&p-Xylene	4.8	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	9.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	15	9.0		ug/m3	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:50:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	1/25/2011 7:50:00 PM
o-Xylene	2.2	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	11	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	16	4.5		ug/m3	10	1/27/2011 6:01:00 PM
Toluene	6.7	0.57		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Trichloroethene	740	76		ug/m3	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012520.D Vial: 3
Acq On : 25 Jan 2011 7:50 pm Operator: RJP
Sample : C1101031-002A Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 20:11:13 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20529	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	69329	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	68796	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	42289	1.22	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 122.00%				
Target Compounds							Qvalue
3) Freon 12	2.91	85	41628	0.69	ppb		97
11) Freon 11	4.07	101	16509	0.47	ppb		100
12) Acetone	4.20	58	176640	31.90	ppb	#	68
15) Freon 113	4.82	101	18941	0.47	ppb		93
16) Methylene chloride	5.04	84	6784	0.40	ppb		94
18) Carbon disulfide	5.16	76	86416	1.66	ppb		98
23) Methyl Ethyl Ketone	6.75	43	297632	10.06	ppb	#	67
24) cis-1,2-dichloroethene	7.13	61	7004	0.35	ppb		94
27) Chloroform	7.72	83	3879690	89.90	ppb		99
28) Tetrahydrofuran	7.91	42	71414	7.91	ppb		89
31) 1,1,1-trichloroethane	8.50	97	103482	2.34	ppb		100
34) Benzene	9.10	78	68254	1.42	ppb		98
36) 2,2,4-trimethylpentane	10.07	57	19199	0.37	ppb	#	1
37) Heptane	10.50	43	24102	1.40	ppb	#	73
38) Trichloroethene	10.58	130	2986027	98.11	ppb		95
40) Bromodichloromethane	11.10	83	58337	1.08	ppb		100
45) Toluene	12.87	92	50272	1.75	ppb		94
46) Methyl Isobutyl Ketone	11.99	43	34112	1.62	ppb		95
48) Methyl Butyl Ketone	13.38	43	39435	2.20	ppb		96
50) Tetrachloroethylene	13.91	164	53788	1.63	ppb		98
52) Ethylbenzene	15.12	91	18851	0.34	ppb		99
53) m&p-xylene	15.28	91	49037	1.09	ppb		95
56) o-xylene	15.74	91	26642	0.50	ppb		94
59) 4-ethyltoluene	16.93	105	9565	0.19	ppb		97
60) 1,3,5-trimethylbenzene	16.99	105	14815	0.34	ppb		93
61) 1,2,4-trimethylbenzene	17.40	105	31357	0.91	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

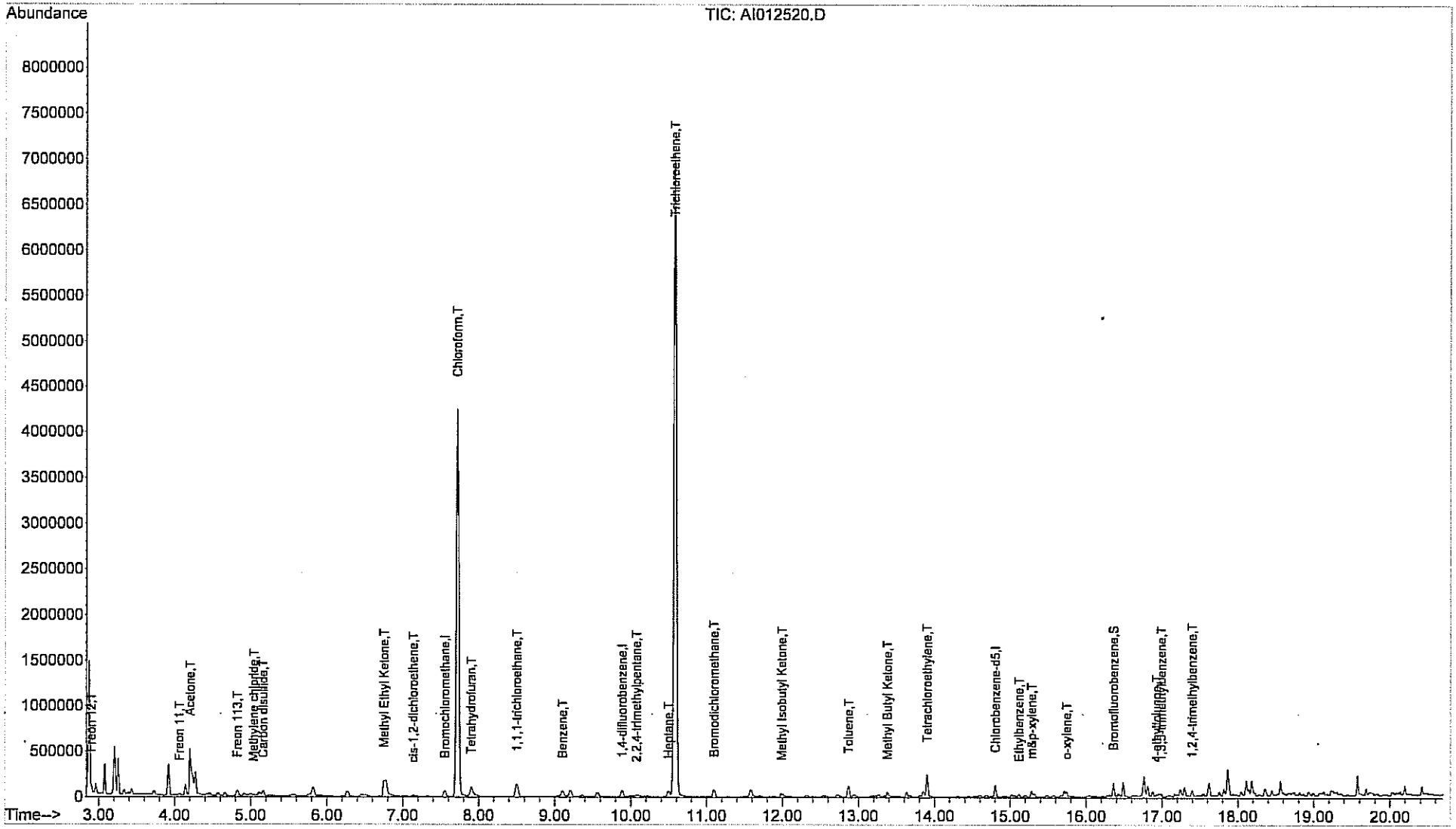
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012520.D
Acq On : 25 Jan 2011 7:50 pm
Sample : C1101031-002A
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:14 2011

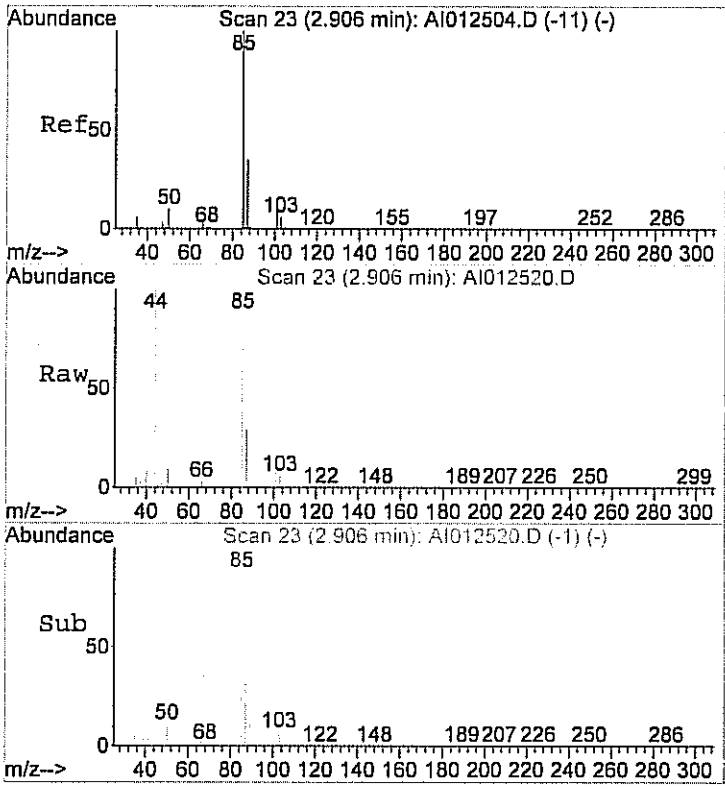
Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



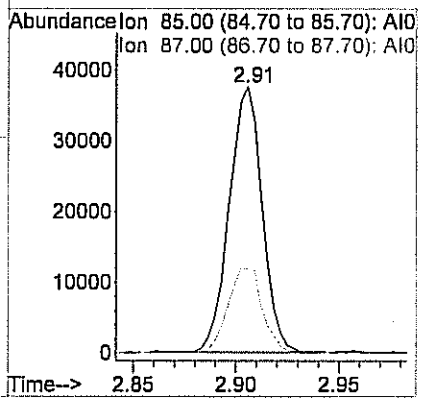
Centek laboratories, LLC

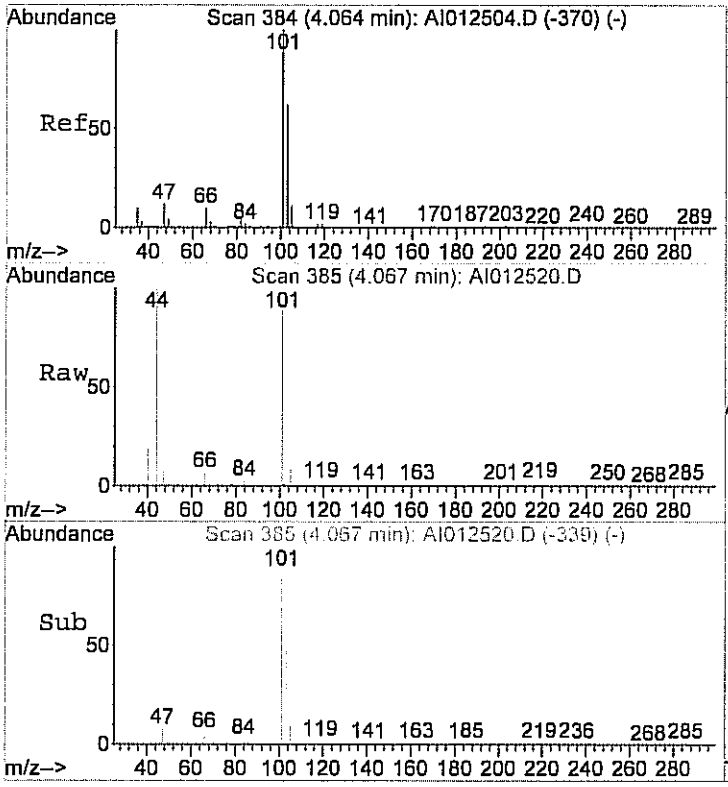


#3
Freon 12
Concen: 0.69 ppb
RT: 2.91 min Scan# 23
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 85 Resp: 41628

Ion	Ratio	Lower	Upper
85	100		
87	33.7	12.2	52.2

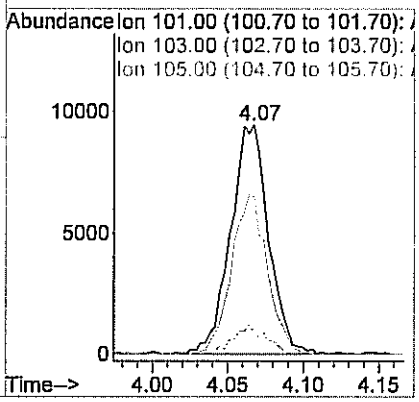


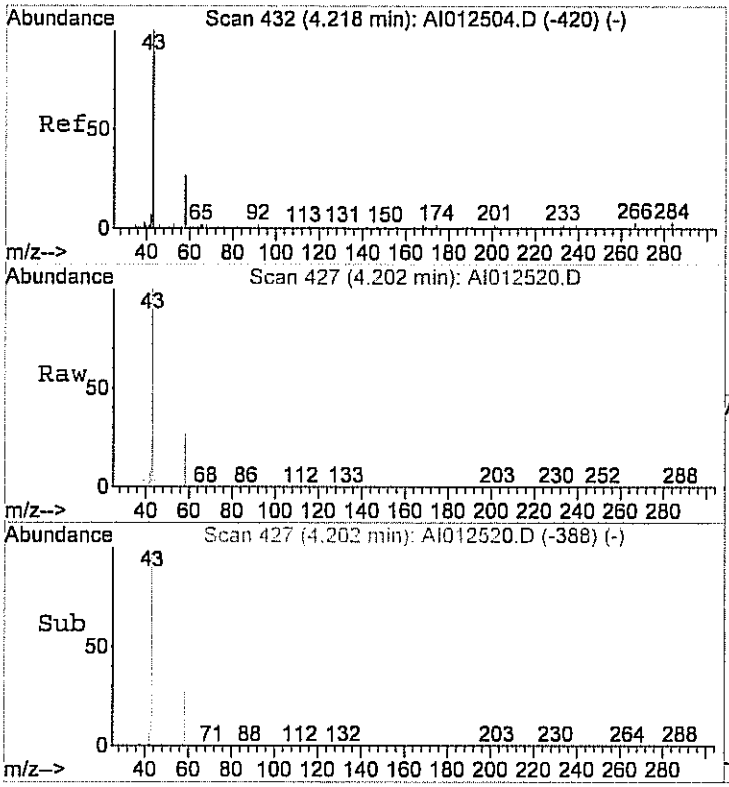


#11
Freon 11
Concen: 0.47 ppb
RT: 4.07 min Scan# 385
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:101 Resp: 16509

Ion	Ratio	Lower	Upper
101	100		
103	66.0	46.3	86.3
105	11.3	0.0	31.0

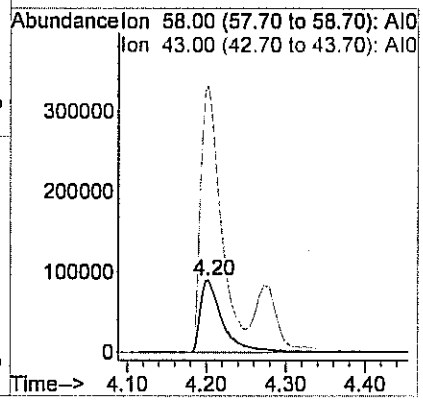


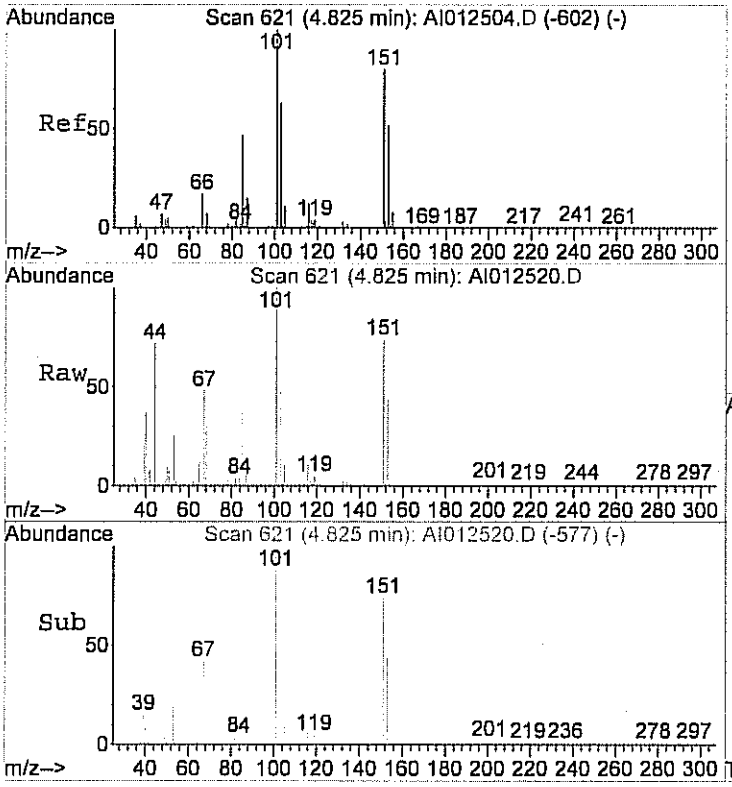


#12
Acetone
Concen: 31.90 ppb
RT: 4.20 min Scan# 427
Delta R.T. -0.03 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 58 Resp: 176640

Ion	Ratio	Lower	Upper
58	100		
43	429.9	329.0	389.0#

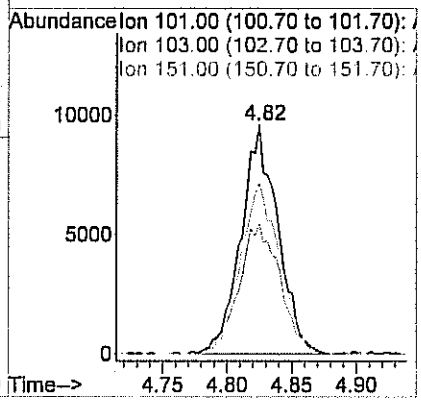


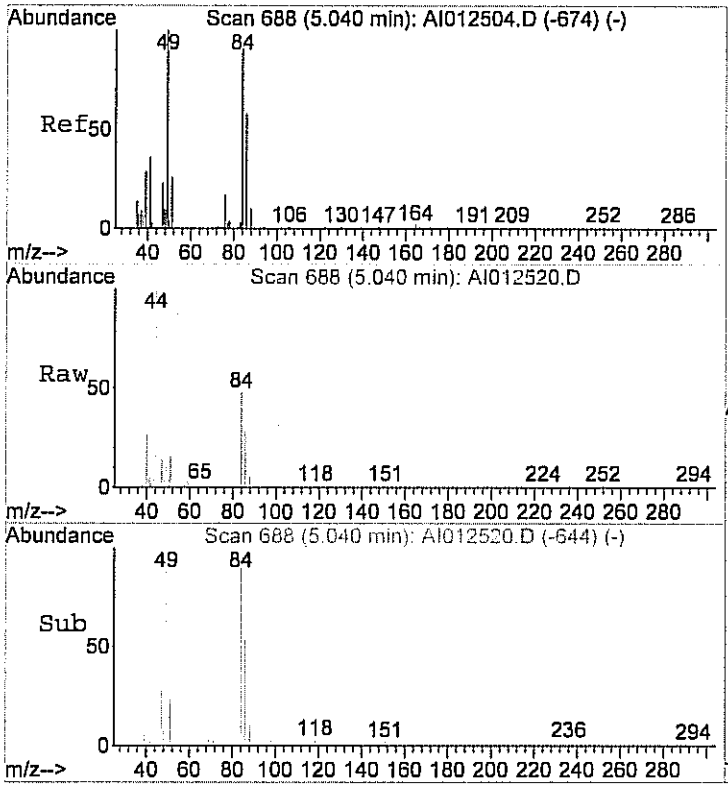


#15
Freon 113
Concen: 0.47 ppb
RT: 4.82 min Scan# 621
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:101 Resp: 18941

Ion	Ratio	Lower	Upper
101	100		
103	63.4	44.7	84.7
151	80.2	71.0	111.0

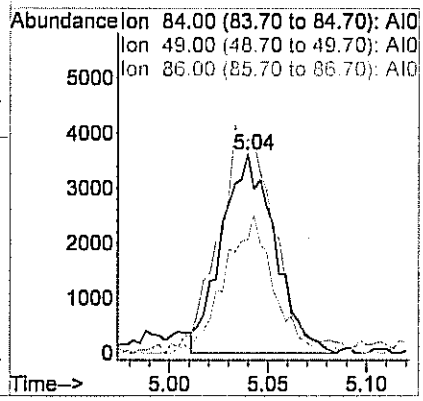


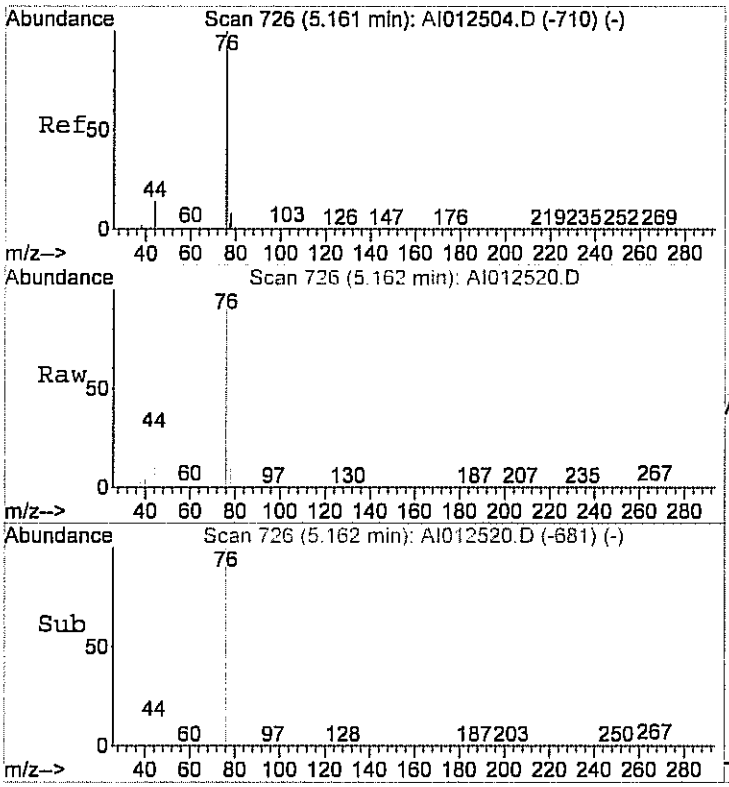


#16
Methylene chloride
Concen: 0.40 ppb
RT: 5.04 min Scan# 688
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 84 Resp: 6784

Ion	Ratio	Lower	Upper
84	100		
49	121.9	109.7	149.7
86	64.2	47.8	87.8

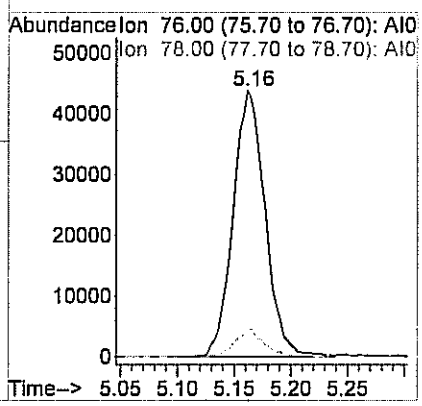


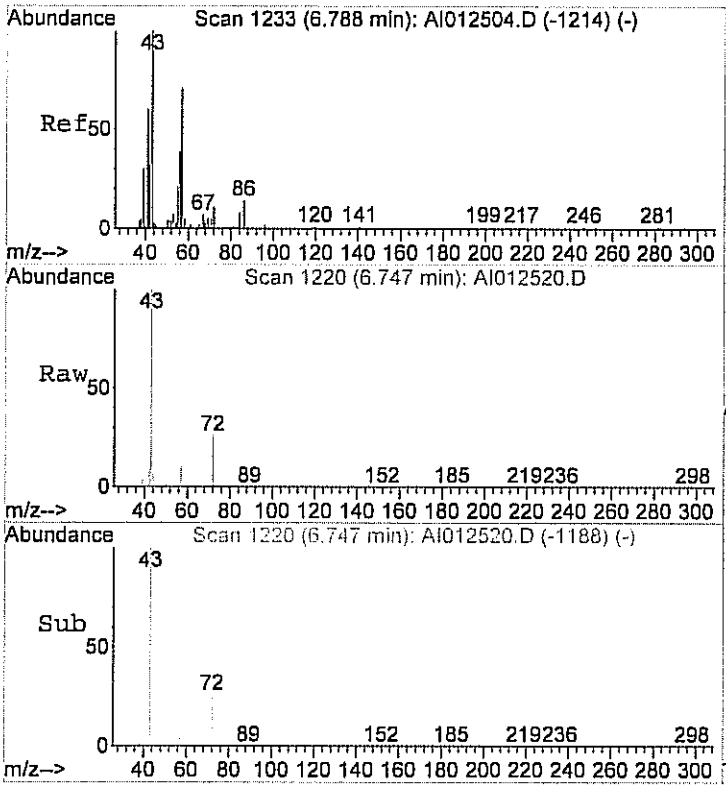


#18
Carbon disulfide
Concen: 1.66 ppb
RT: 5.16 min Scan# 726
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 76 Resp: 86416

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	30.1

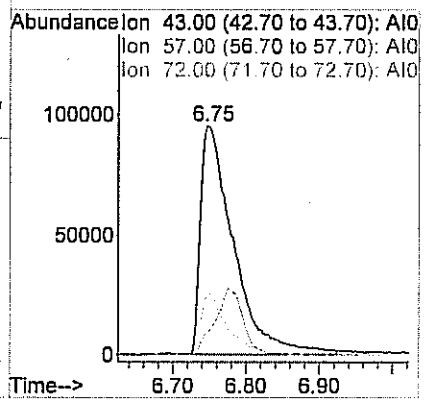


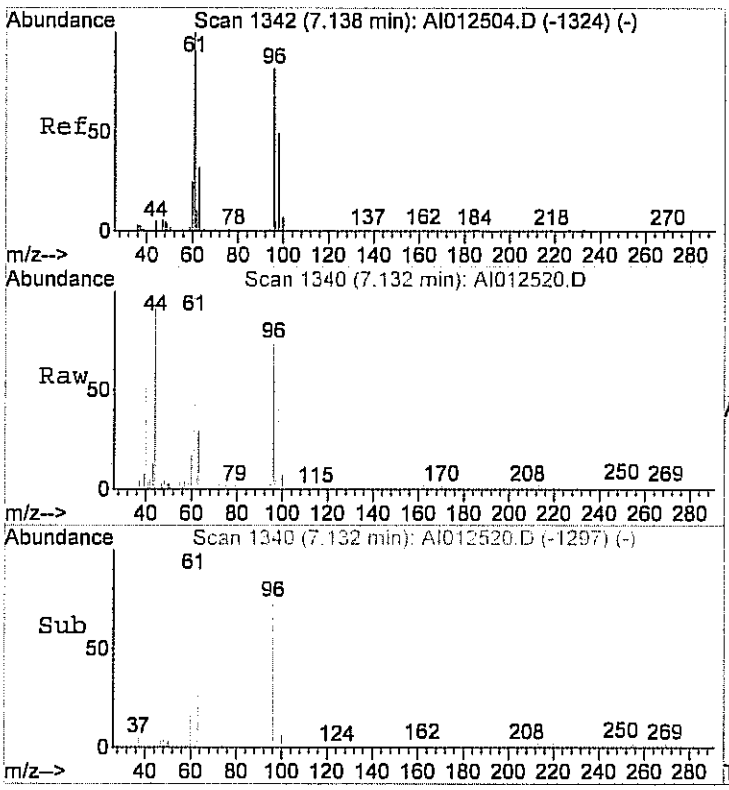


#23
Methyl Ethyl Ketone
Concen: 10.06 ppb
RT: 6.75 min Scan# 1220
Delta R.T. -0.05 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 297632

Ion	Ratio	Lower	Upper
43	100		
57	25.3	37.8	77.8#
72	23.0	1.1	41.1

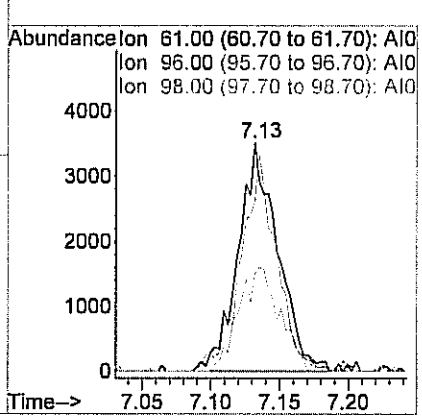


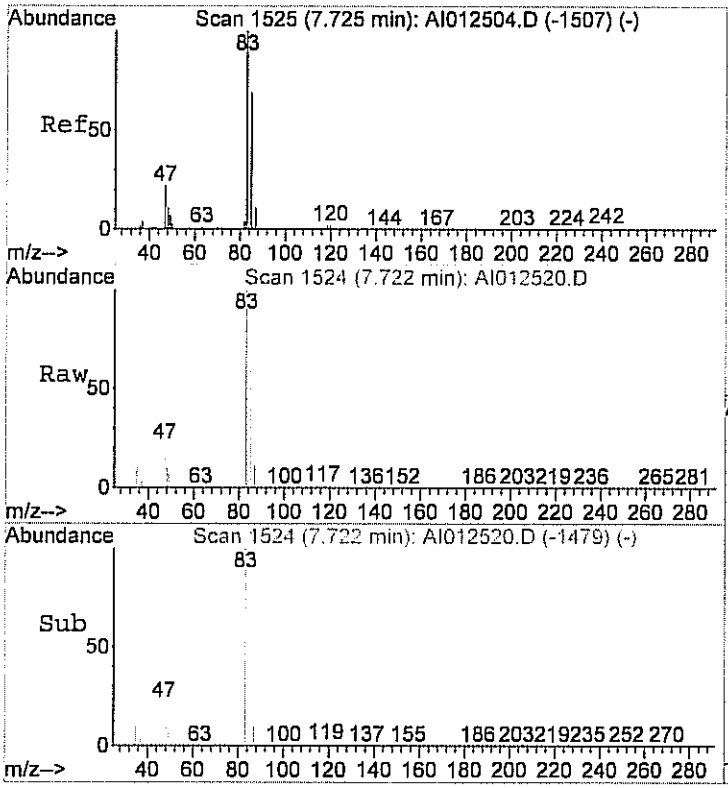


#24
cis-1,2-dichloroethene
Concen: 0.35 ppb
RT: 7.13 min Scan# 1340
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 61 Resp: 7004

Ion	Ratio	Lower	Upper
61	100		
96	86.1	68.1	108.1
98	48.1	37.3	77.3

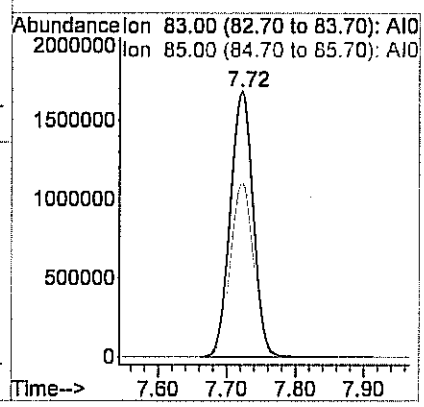


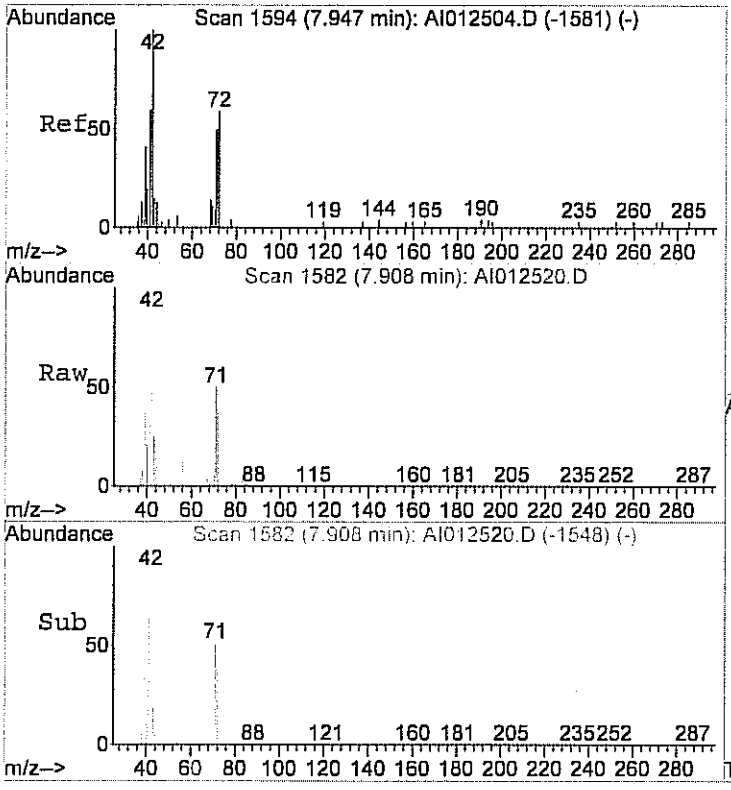


#27
Chloroform
Concen: 89.90 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 83 Resp: 3879690

Ion	Ratio	Lower	Upper
83	100		
85	65.9	46.5	86.5

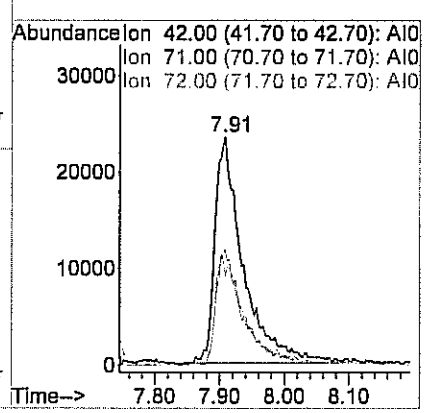


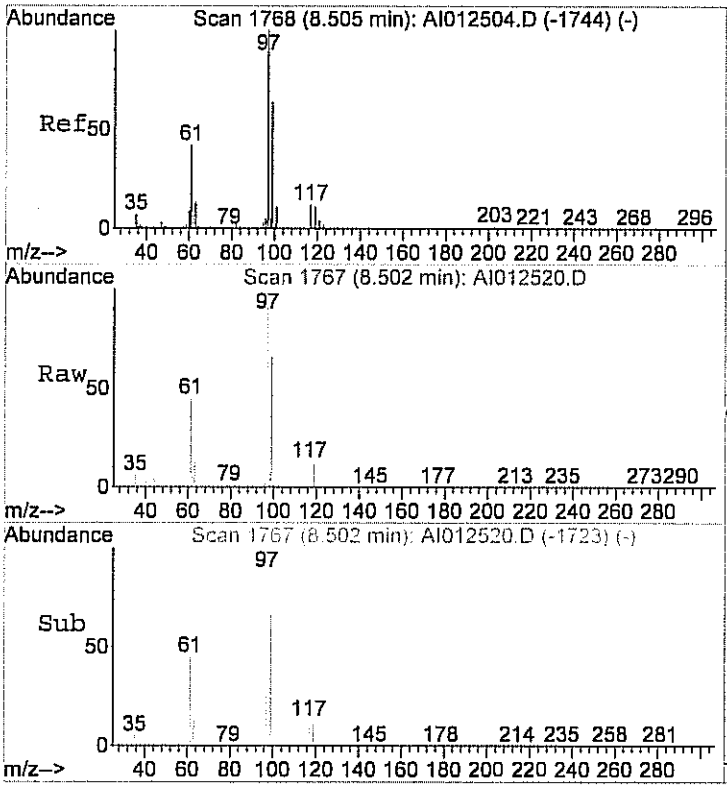


#28
Tetrahydrofuran
Concen: 7.91 ppb
RT: 7.91 min Scan# 1582
Delta R.T. -0.04 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 42 Resp: 71414

Ion	Ratio	Lower	Upper
42	100		
71	51.1	37.9	77.9
72	48.2	38.0	78.0

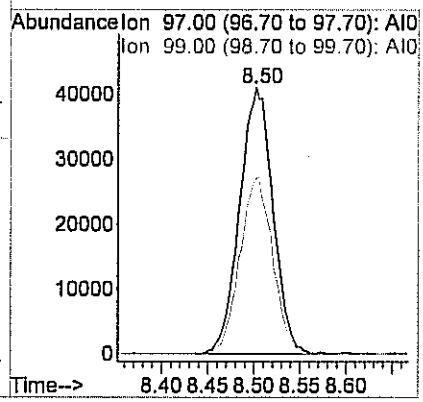


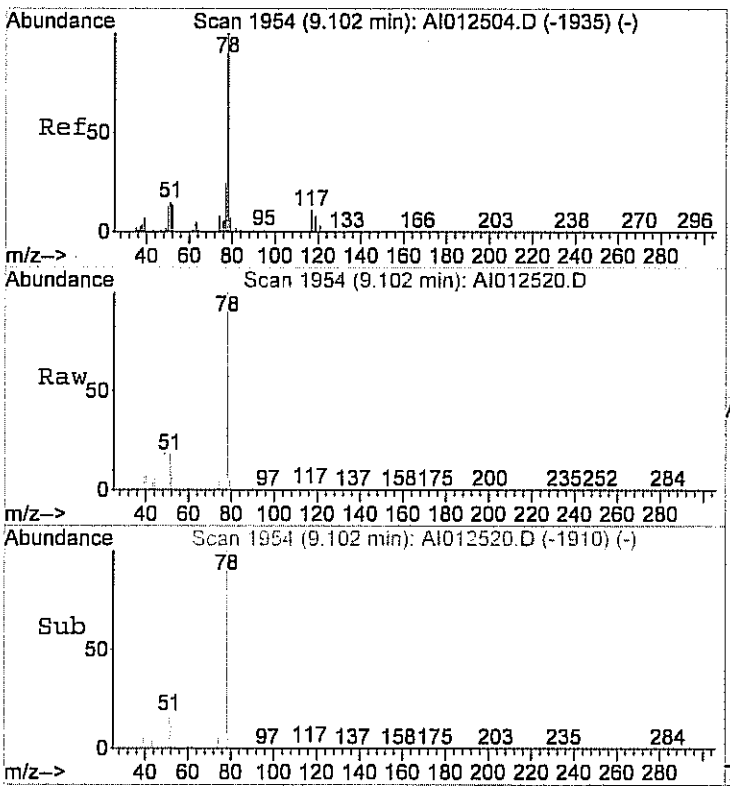


#31
1,1,1-trichloroethane
Concen: 2.34 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 97 Resp: 103482

Ion	Ratio	Lower	Upper
97	100		
99	65.4	45.4	85.4

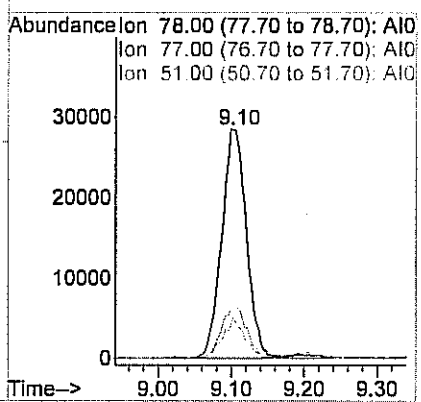


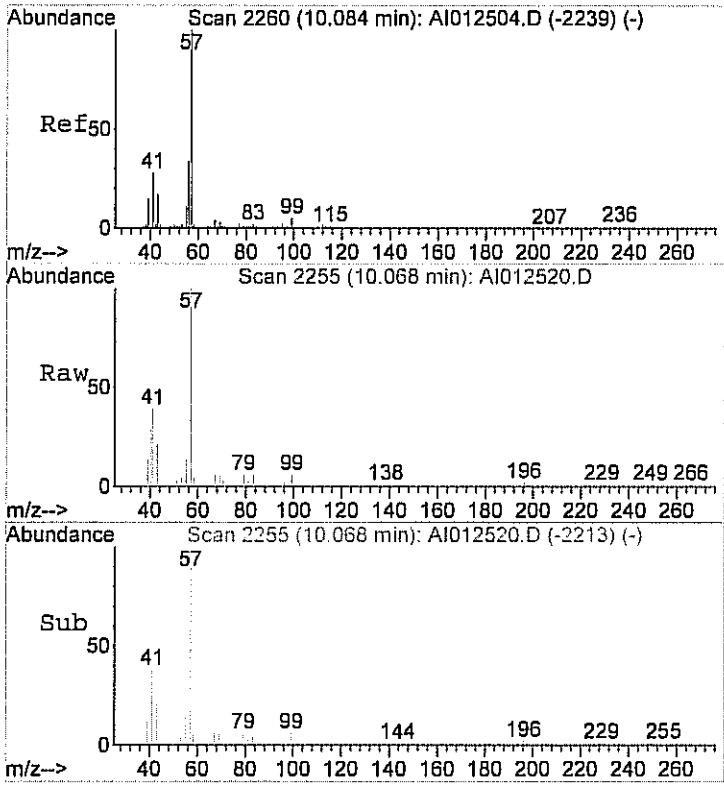


#34
Benzene
Concen: 1.42 ppb
RT: 9.10 min Scan# 1954
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 78 Resp: 68254

Ion	Ratio	Lower	Upper
78	100		
77	22.9	2.6	42.6
51	15.5	0.0	34.0

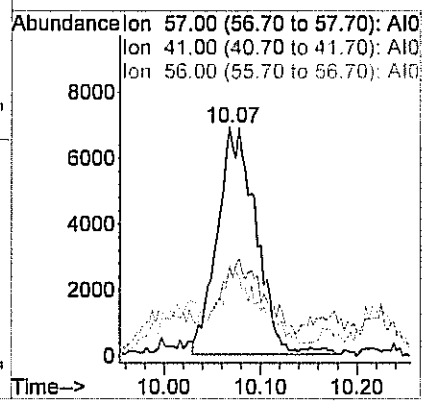


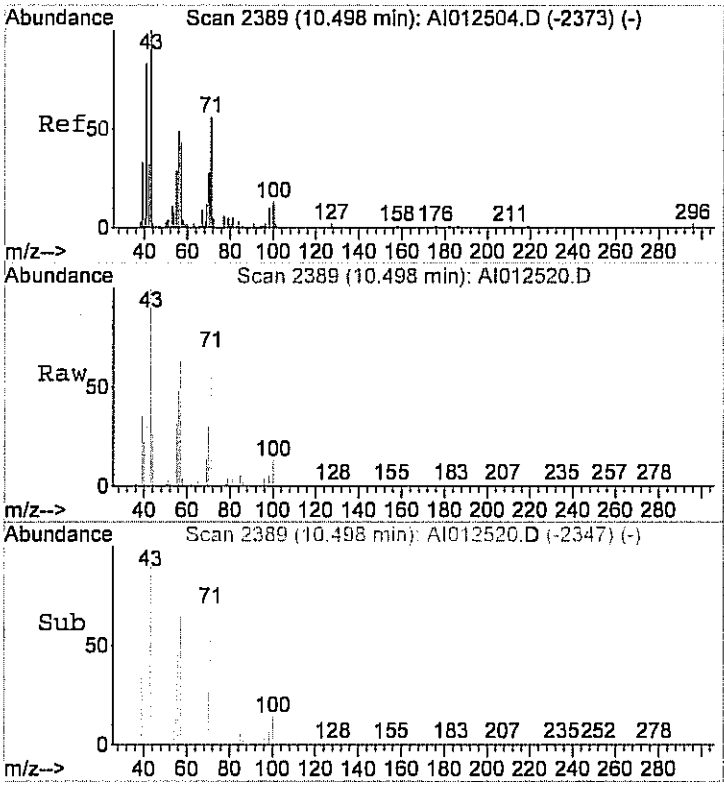


#36
2,2,4-trimethylpentane
Concen: 0.37 ppb
RT: 10.07 min Scan# 2255
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 57 Resp: 19199

Ion	Ratio	Lower	Upper
57	100		
41	97.8	12.1	52.1#
56	87.0	13.7	53.7#

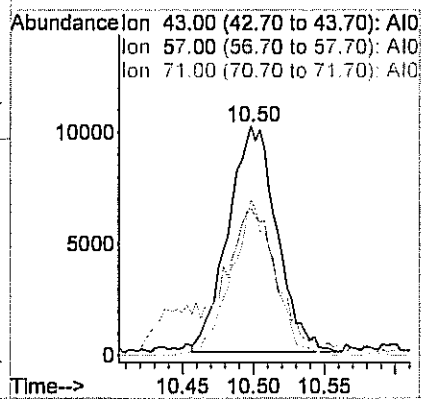


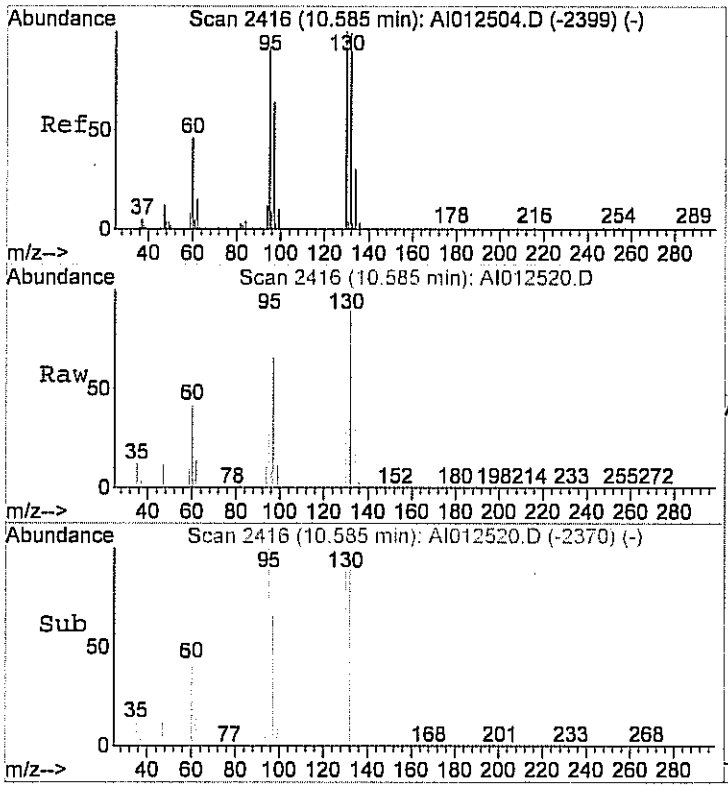


#37
Heptane
Concen: 1.40 ppb
RT: 10.50 min Scan# 2389
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 24102

Ion	Ratio	Lower	Upper
43	100		
57	93.6	37.9	77.9#
71	60.3	46.6	86.6

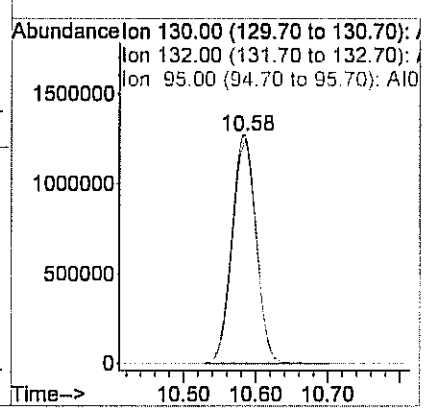


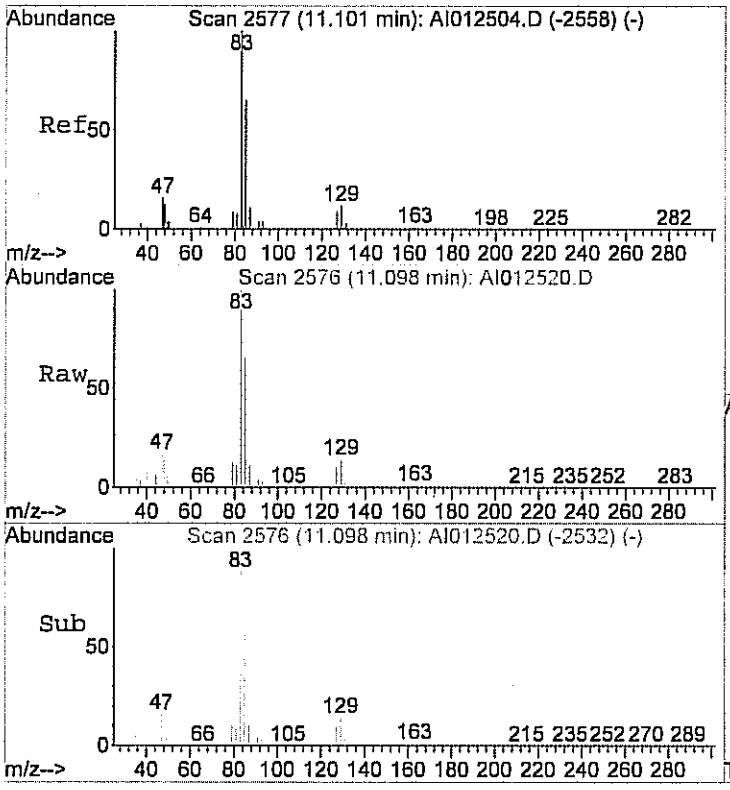


#38
Trichloroethene
Concen: 98.11 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:130 Resp: 2986027

Ion	Ratio	Lower	Upper
130	100		
132	96.5	77.0	117.0
95	100.2	70.8	110.8

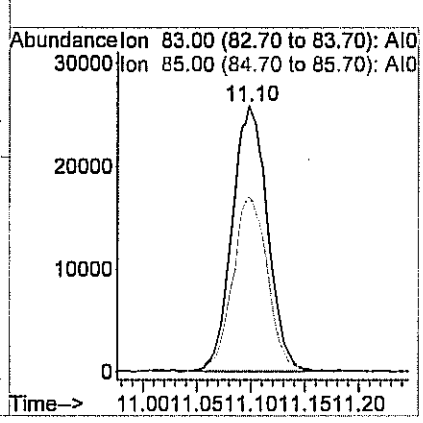


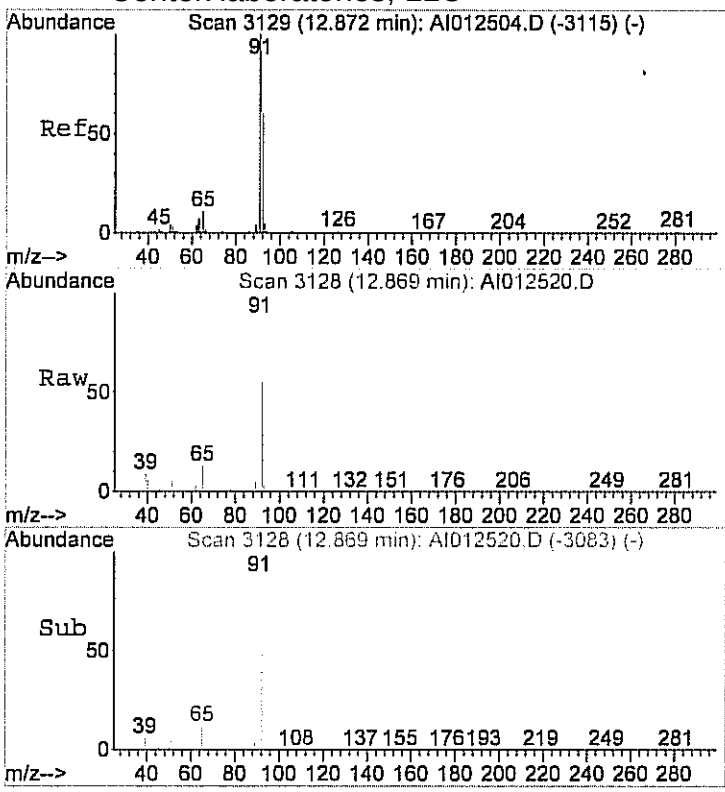


#40
Bromodichloromethane
Concen: 1.08 ppb
RT: 11.10 min Scan# 2576
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 83 Resp: 58337

Ion	Ratio	Lower	Upper
83	100		
85	65.6	45.7	85.7

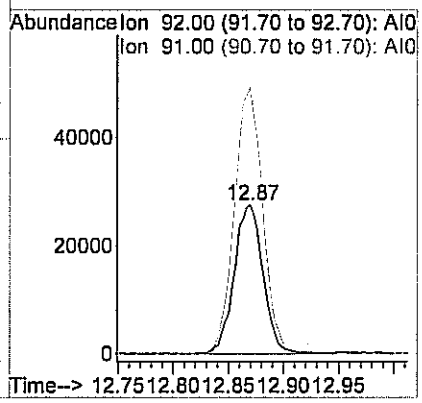


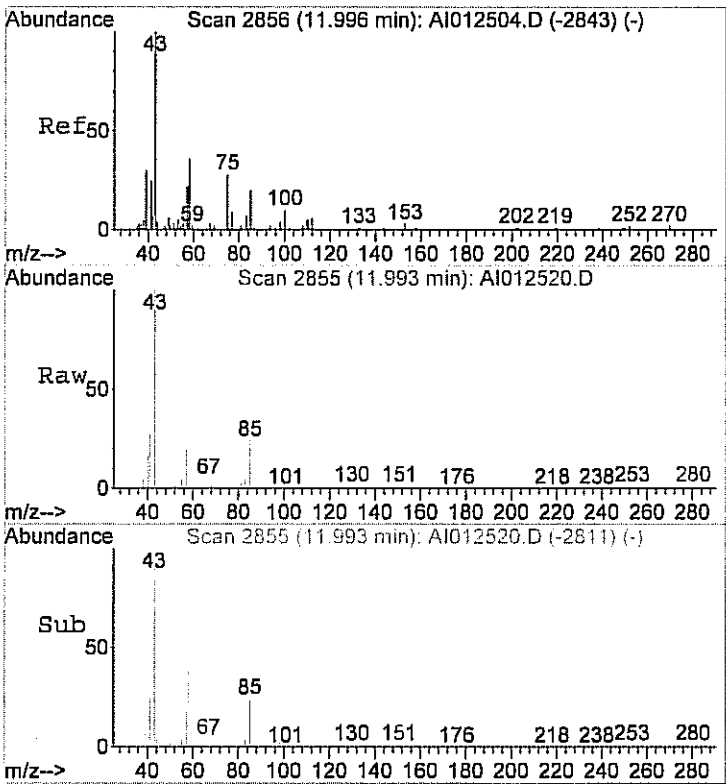


#45
Toluene
Concen: 1.75 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 92 Resp: 50272

Ion	Ratio	Lower	Upper
92	100		
91	178.3	150.0	190.0

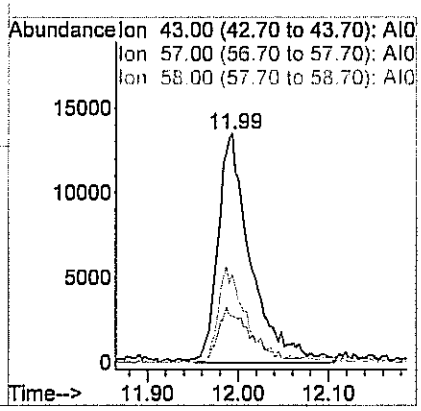


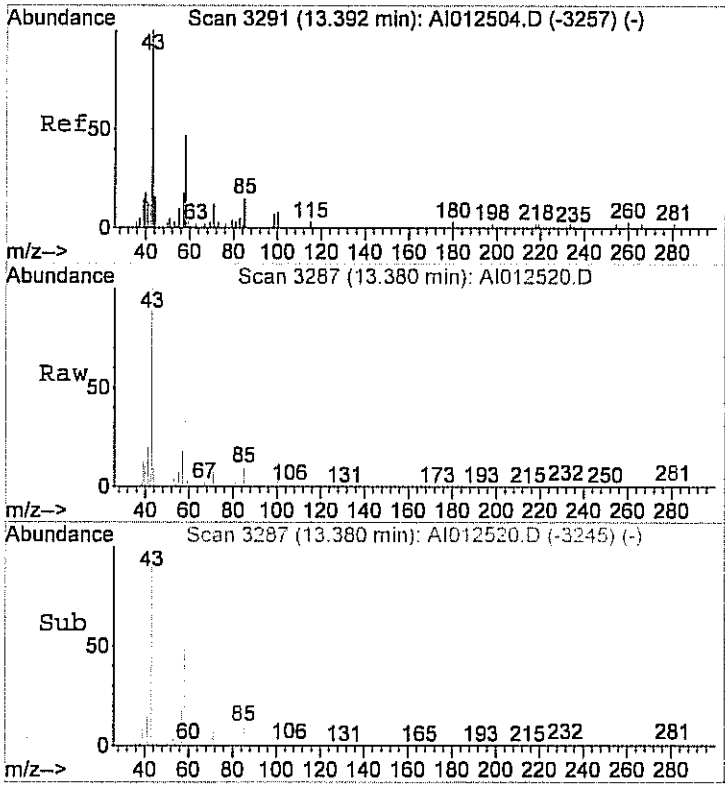


#46
Methyl Isobutyl Ketone
Concen: 1.62 ppb
RT: 11.99 min Scan# 2855
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 34112

Ion	Ratio	Lower	Upper
43	100		
57	25.4	5.4	45.4
58	37.4	22.9	62.9

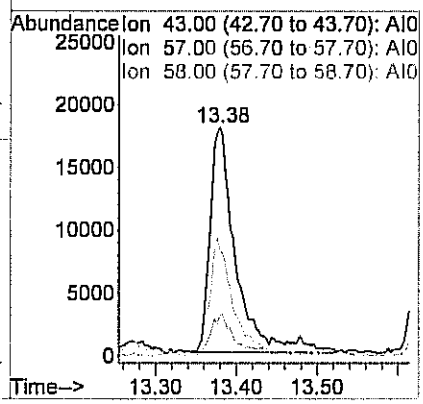


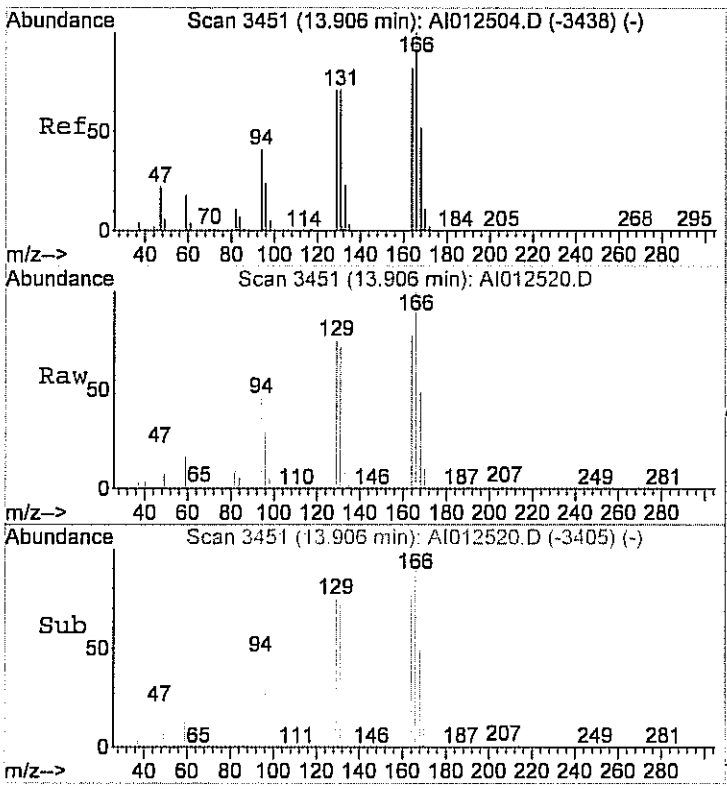


#48
Methyl Butyl Ketone
Concen: 2.20 ppb
RT: 13.38 min Scan# 3287
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 39435

Ion	Ratio	Lower	Upper
43	100		
57	16.4	0.0	38.5
58	50.4	33.3	73.3

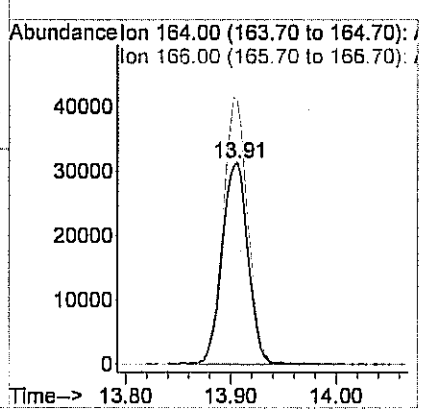


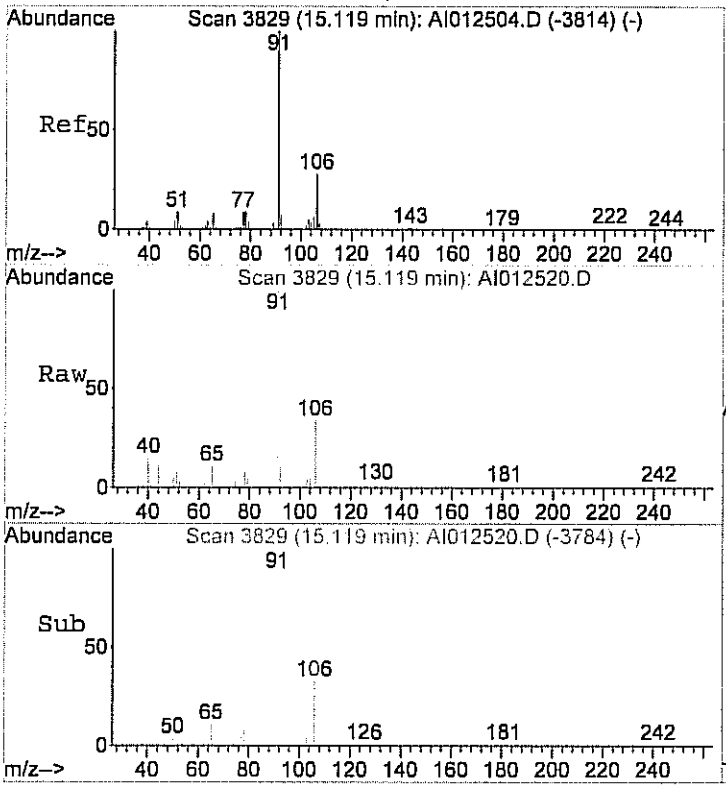


#50
Tetrachloroethylene
Concen: 1.63 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:164 Resp: 53788

Ion	Ratio	Lower	Upper
164	100		
166	127.1	109.0	149.0

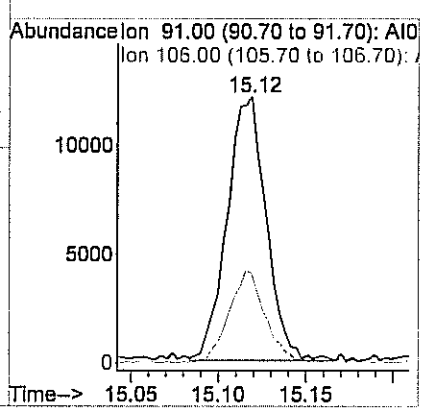


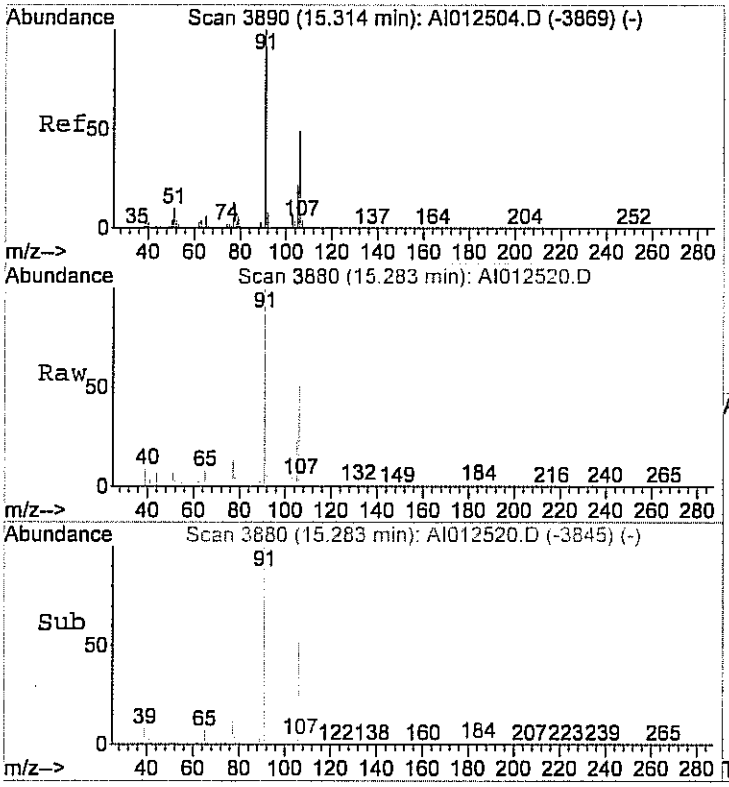


#52
Ethylbenzene
Concen: 0.34 ppb
RT: 15.12 min Scan# 3829
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 18851

Ion	Ratio	Lower	Upper
91	100		
106	32.4	12.9	52.9

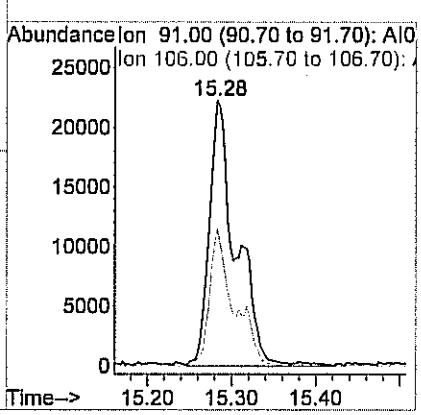


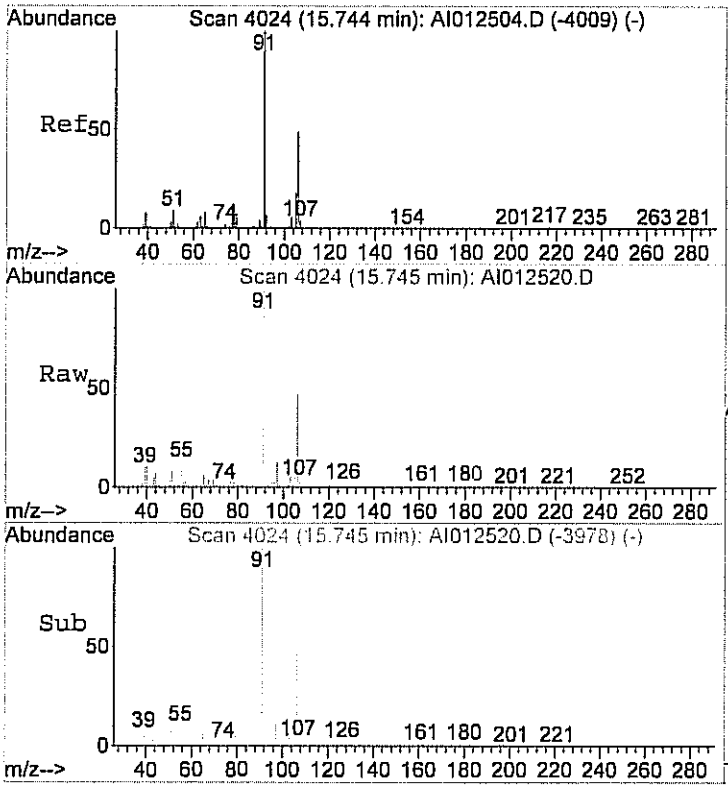


#53
m&p-xylene
Concen: 1.09 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 49037

Ion	Ratio	Lower	Upper
91	100		
106	46.8	29.9	69.9

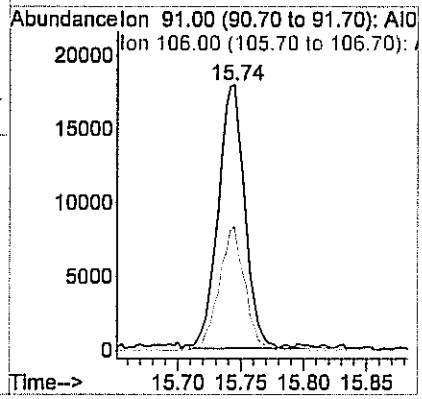


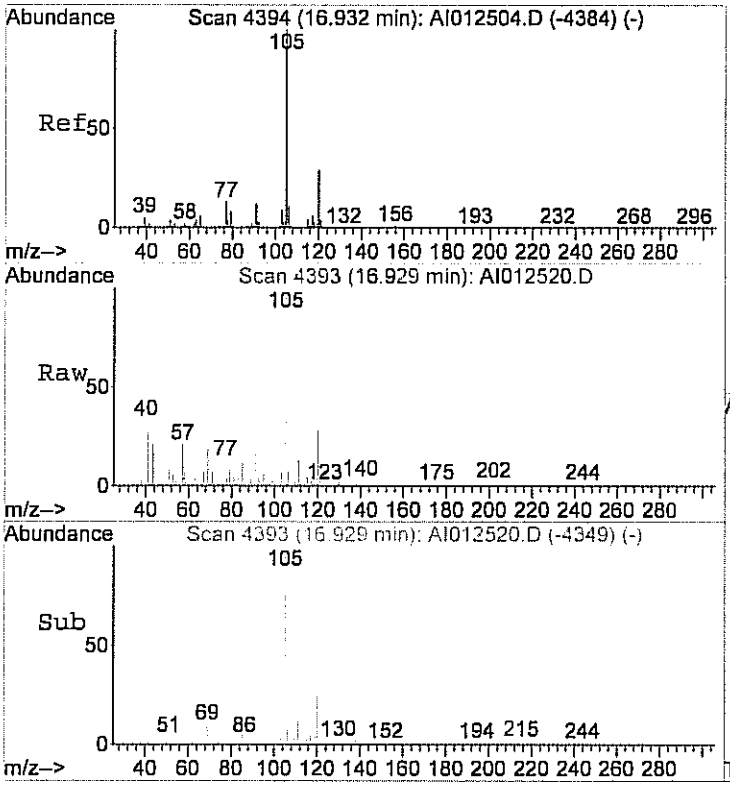


#56
o-xylene
Concen: 0.50 ppb
RT: 15.74 min Scan# 4024
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 26642

Ion	Ratio	Lower	Upper
91	100		
106	44.7	29.0	69.0

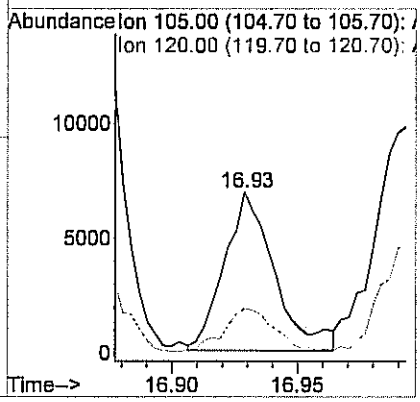


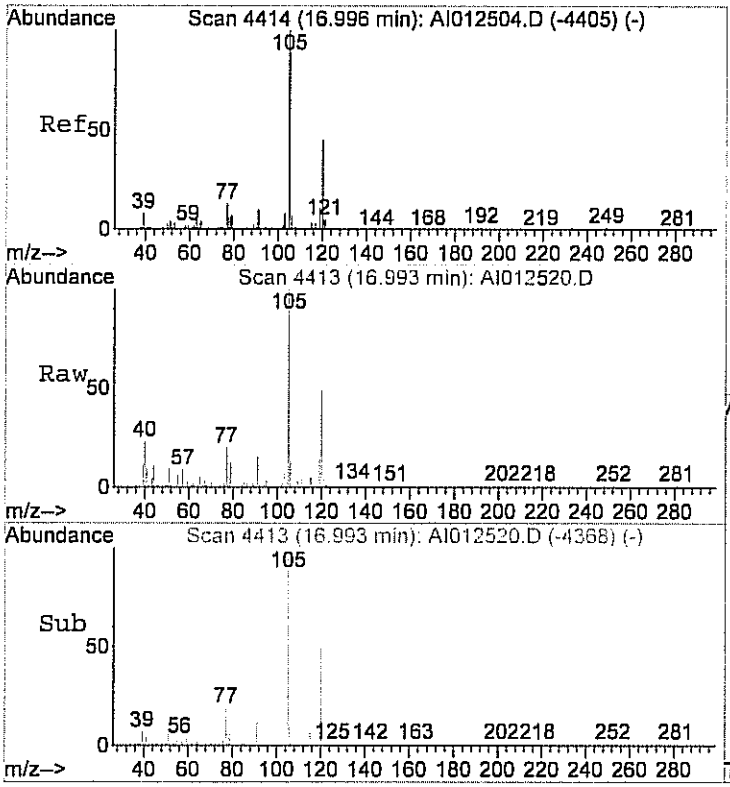


#59
4-ethyltoluene
Concen: 0.19 ppb
RT: 16.93 min Scan# 4393
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 9565

Ion	Ratio	Lower	Upper
105	100		
120	28.8	10.3	50.3

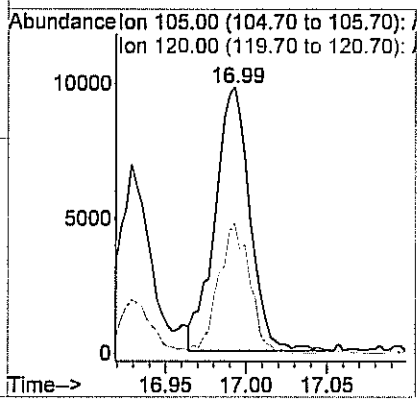


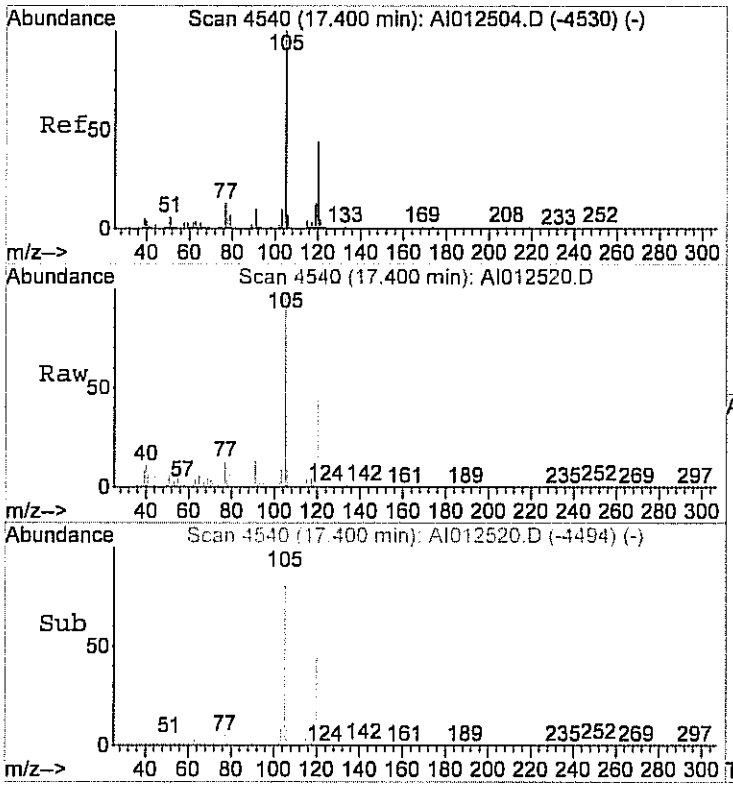


#60
1,3,5-trimethylbenzene
Concen: 0.34 ppb
RT: 16.99 min Scan# 4413
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 14815

Ion	Ratio	Lower	Upper
105	100		
120	44.0	28.6	68.6

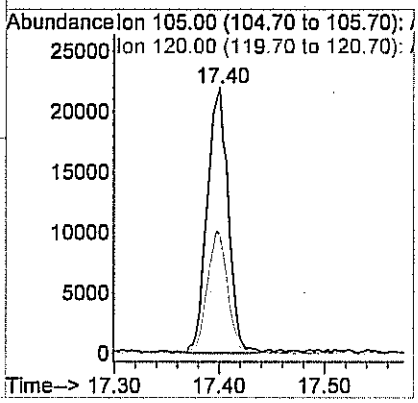




#61
1,2,4-trimethylbenzene
Concen: 0.91 ppb
RT: 17.40 min Scan# 4540
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 31357

Ion	Ratio	Lower	Upper
105	100		
120	44.4	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012715.D Vial: 4
Acq On : 27 Jan 2011 6:01 pm Operator: RJP
Sample : C1101031-002A 10X Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 18:22:08 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17666	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	46549	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	40921	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	18764	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue
12) Acetone	4.24	58	9677	2.03	ppb	# 60
23) Methyl Ethyl Ketone	6.83	43	12812m P	0.50	ppb	
27) Chloroform	7.72	83	293393	7.90	ppb	100
28) Tetrahydrofuran	7.97	42	4017m M	0.52	ppb	
31) 1,1,1-trichloroethane	8.50	97	7921	0.27	ppb	99
38) Trichloroethene	10.58	130	201806	9.88	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

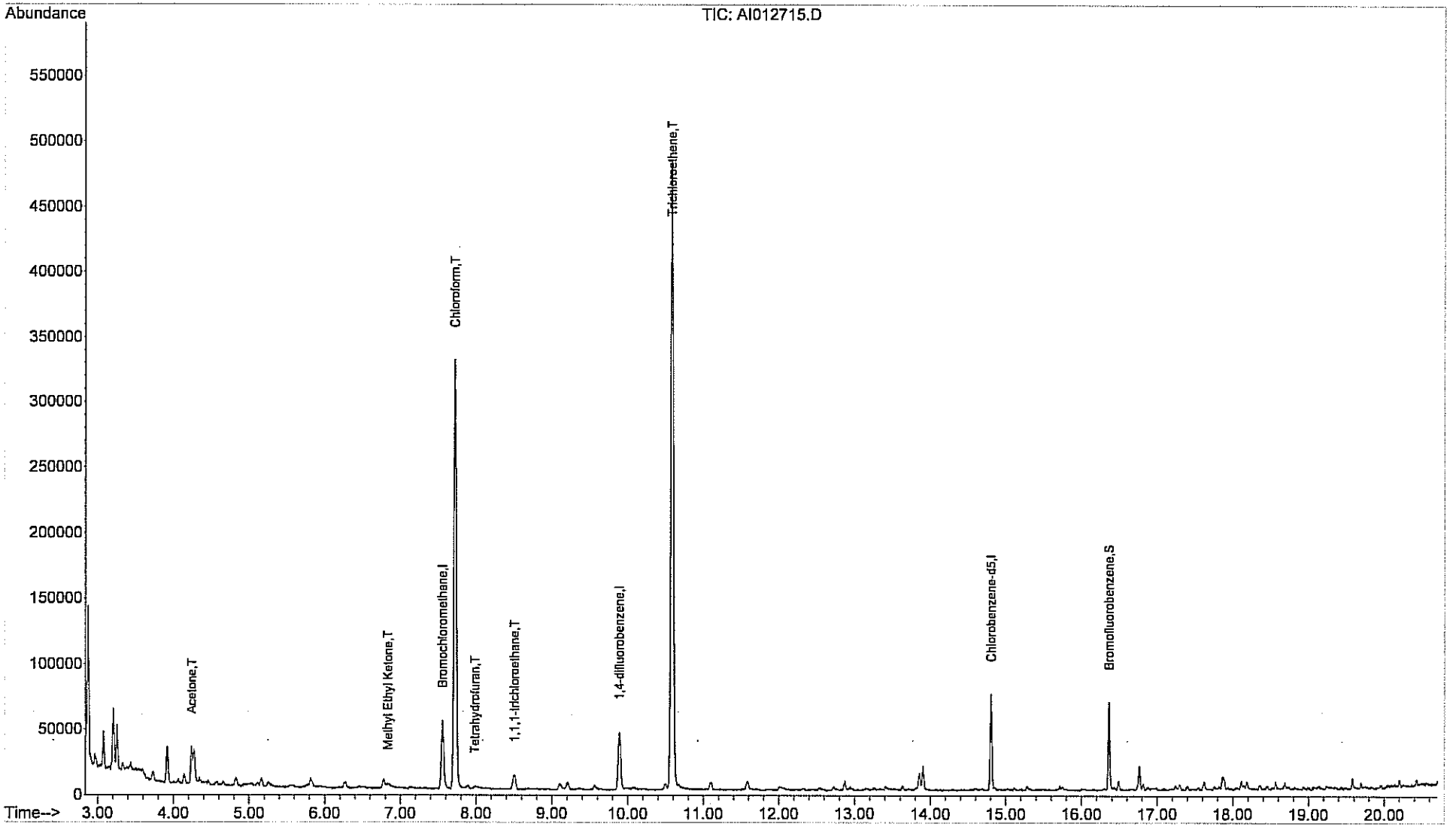
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012715.D
Acq On : 27 Jan 2011 6:01 pm
Sample : C1101031-002A 10X
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:10 2011

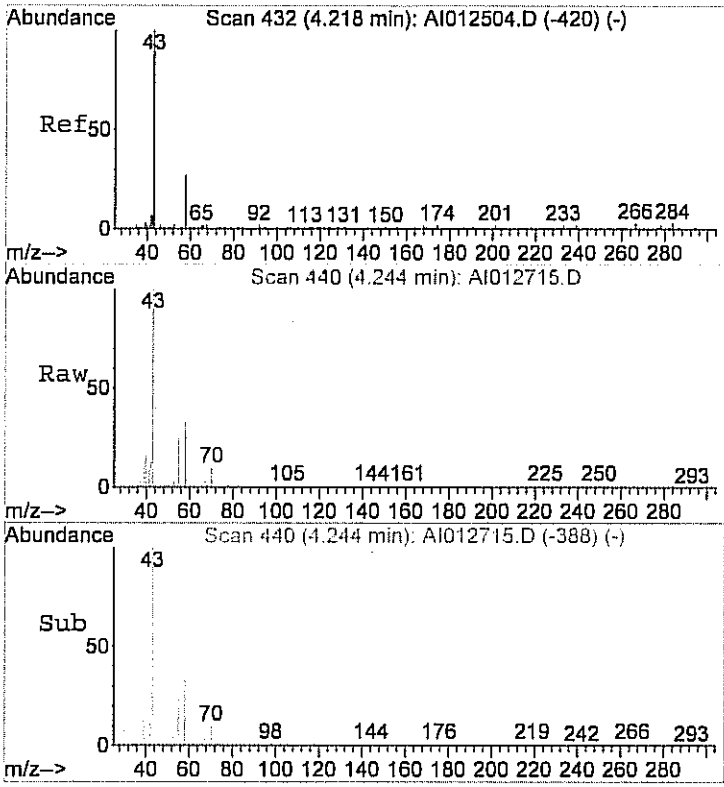
Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



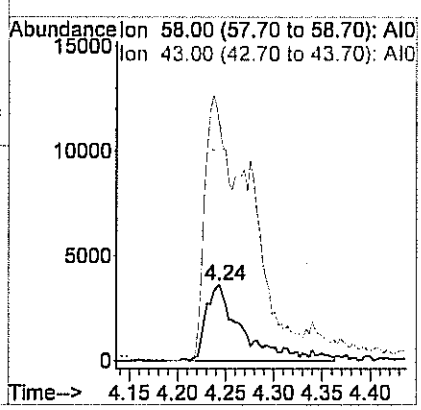
Centek laboratories, LLC

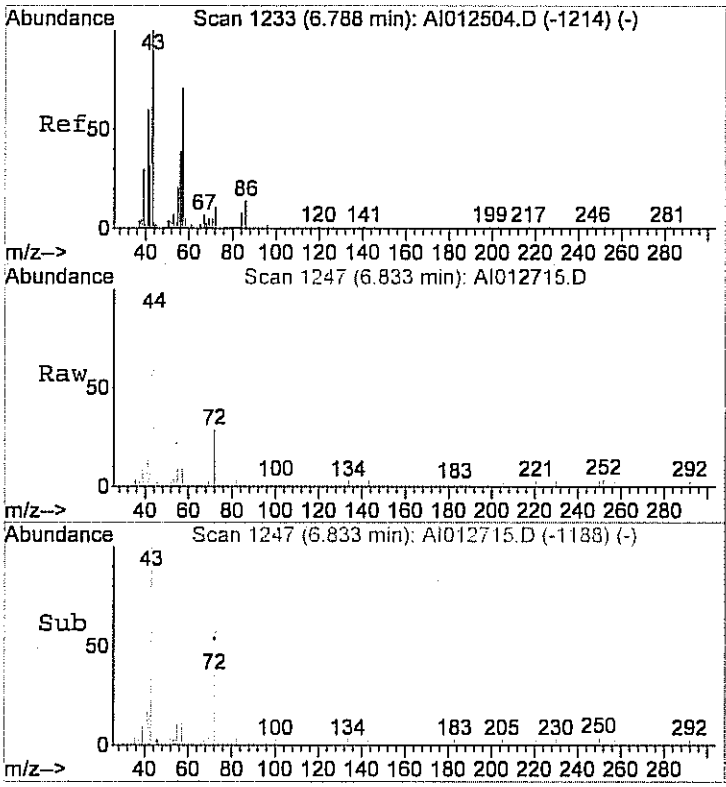


#12
Acetone
Concen: 2.03 ppb
RT: 4.24 min Scan# 440
Delta R.T. 0.02 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 58 Resp: 9677

Ion	Ratio	Lower	Upper
58	100		
43	448.0	329.0	389.0#

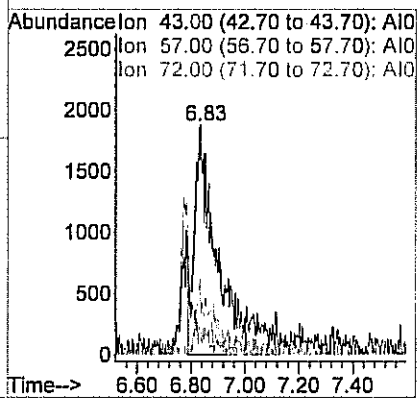


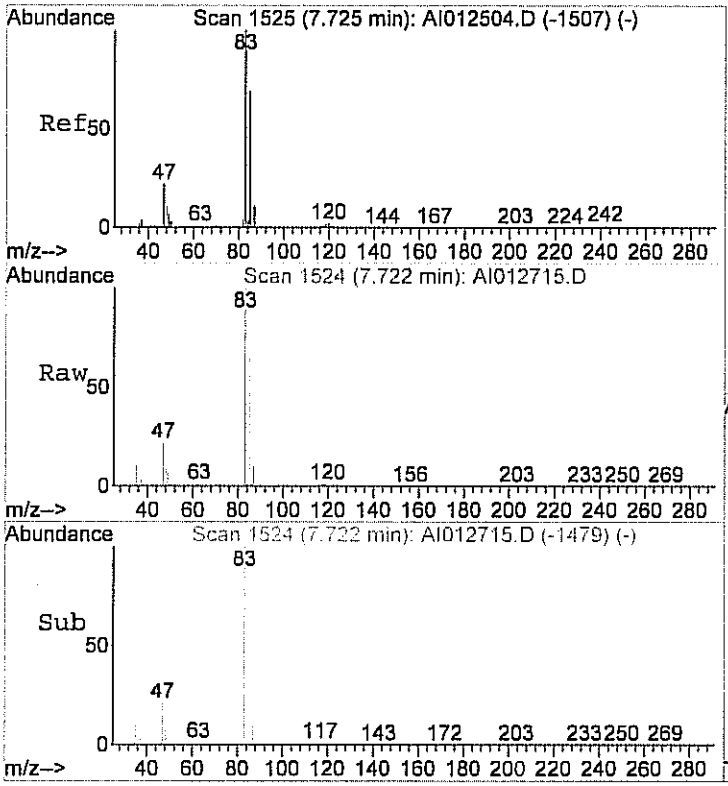


#23
Methyl Ethyl Ketone
Concen: 0.50 ppb m
RT: 6.83 min Scan# 1247
Delta R.T. 0.04 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 43 Resp: 12812

Ion	Ratio	Lower	Upper
43	100		
57	27.9	37.8	77.8#
72	0.0	1.1	41.1#

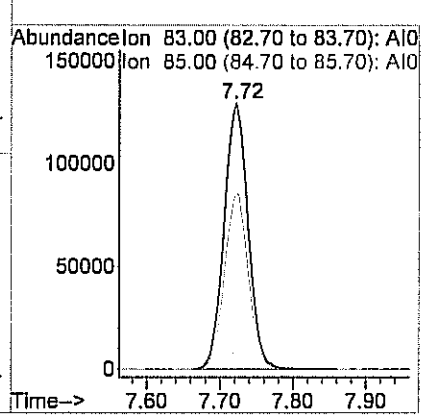


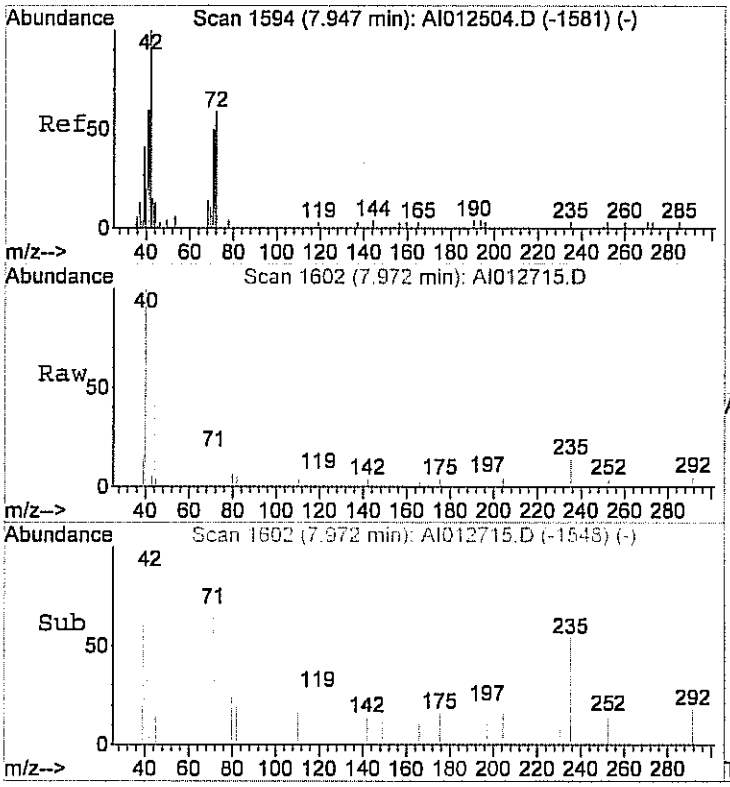


#27
Chloroform
Concen: 7.90 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 83 Resp: 293393

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5

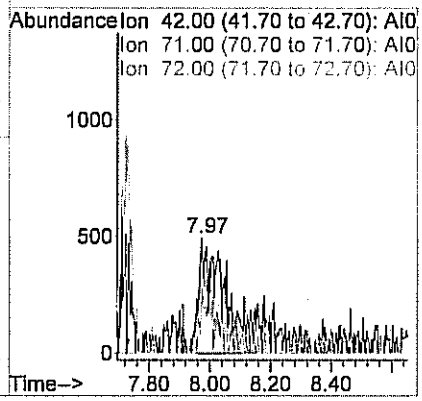


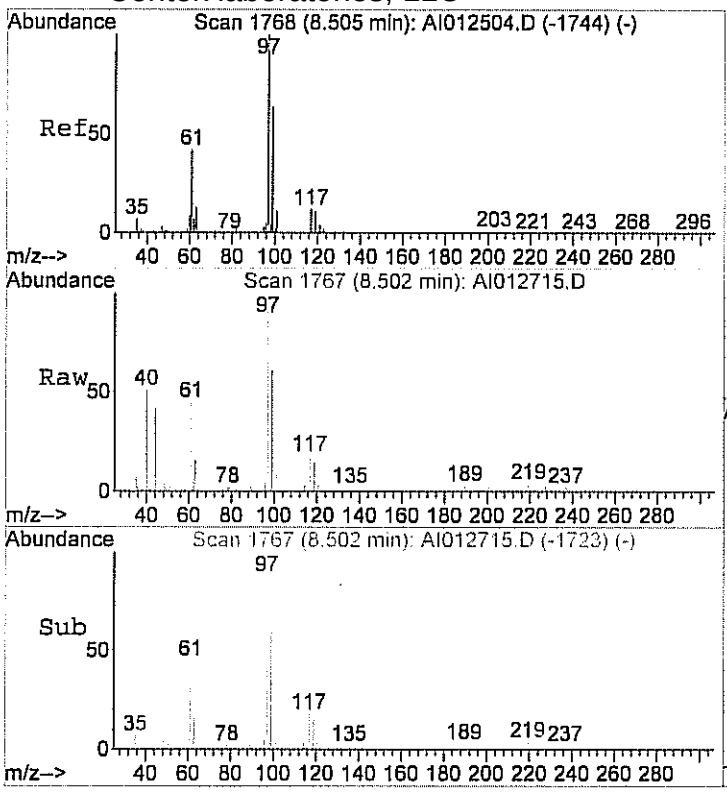


#28
Tetrahydrofuran
Concen: 0.52 ppb m
RT: 7.97 min Scan# 1602
Delta R.T. 0.02 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 42 Resp: 4017

Ion	Ratio	Lower	Upper
42	100		
71	16.0	37.9	77.9#
72	14.8	38.0	78.0#

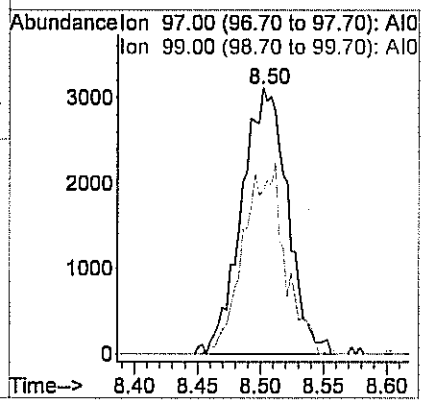


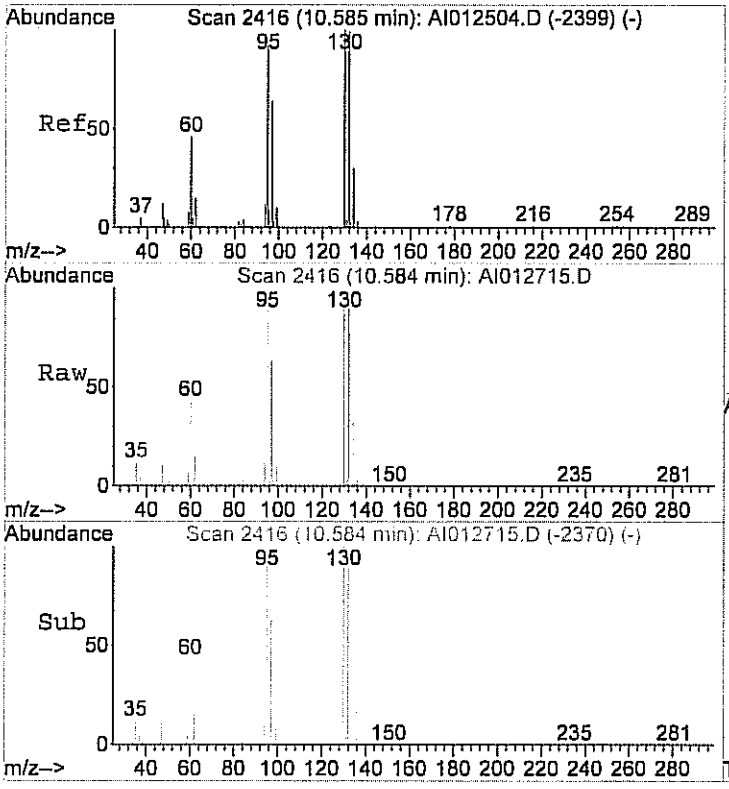


#31
1,1,1-trichloroethane
Concen: 0.27 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 97 Resp: 7921

Ion	Ratio	Lower	Upper
97	100		
99	64.5	45.4	85.4

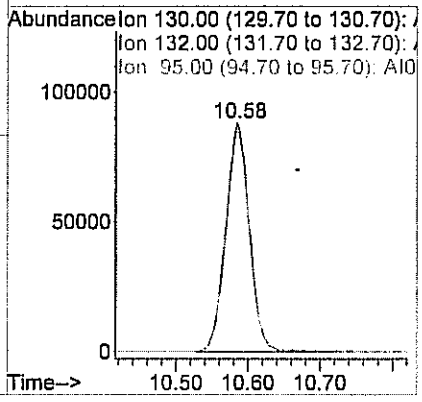




#38
Trichloroethene
Concen: 9.88 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion:130 Resp: 201806

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	99.5	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012810.D Vial: 2
Acq On : 28 Jan 2011 4:23 pm Operator: RJP
Sample : C1101031-002A 90X Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 16:44:33 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	29161	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	78493	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	71639	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	35076	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
27) Chloroform	7.72	83	84604	1.38	ppb	97
38) Trichloroethene	10.58	130	52173	1.51	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012810.D A106_1UG.M Tue Feb 08 15:45:39 2011 MSD1 Page 1

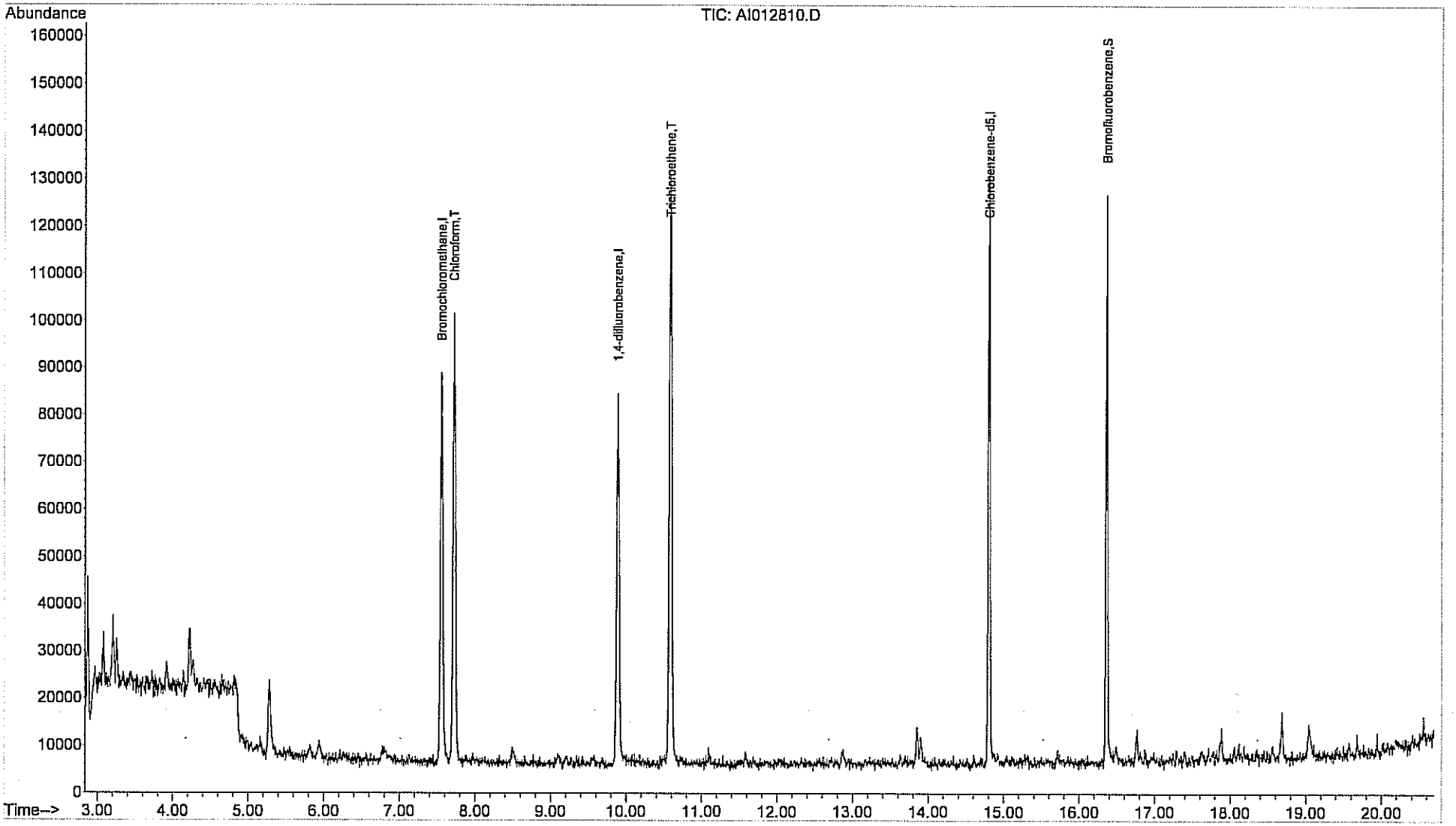
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012810.D
Acq On : 28 Jan 2011 4:23 pm
Sample : C1101031-002A 90X
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:11 2011

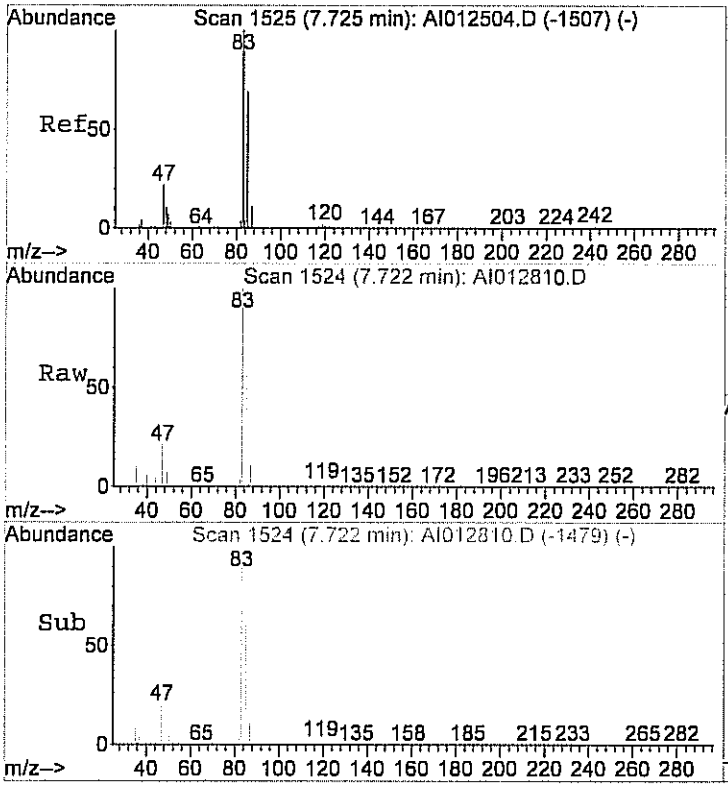
Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



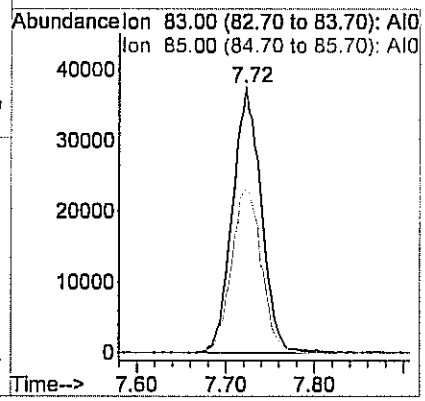
Centek laboratories, LLC

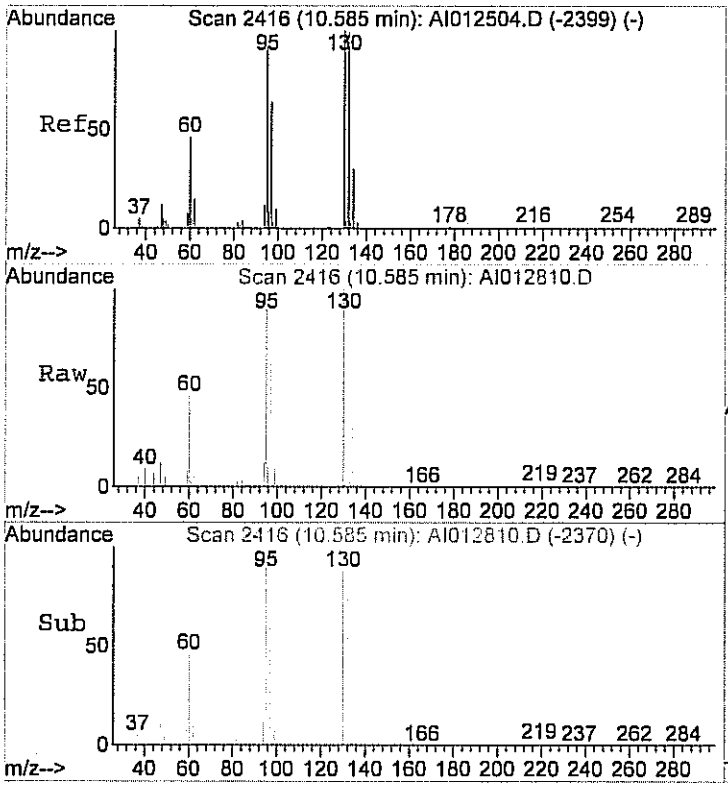


#27
Chloroform
Concen: 1.38 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012810.D
Acq: 28 Jan 2011 4:23 pm

Tgt Ion: 83 Resp: 84604

Ion	Ratio	Lower	Upper
83	100		
85	64.3	46.5	86.5

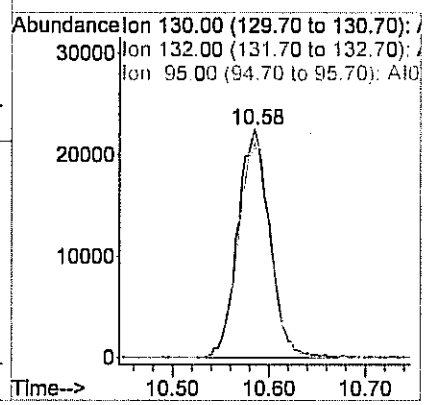




#38
Trichloroethene
Concen: 1.51 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012810.D
Acq: 28 Jan 2011 4:23 pm

Tgt Ion:130 Resp: 52173

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	98.3	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.8	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	0.33	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	2.7	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	2.0	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	1/25/2011 8:22:00 PM
Acetone	21	12		ppbV	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromodichloromethane	0.42	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon disulfide	0.97	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroform	9.4	1.5		ppbV	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.2	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 11	0.56	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 113	0.44	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Heptane	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
m&p-Xylene	3.6	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	1.8	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	6.3	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
o-Xylene	1.4	1.5	J	ppbV	10	1/27/2011 7:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Styrene	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	12	6.0		ppbV	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	12	1.5		ppbV	10	1/27/2011 7:03:00 PM
Toluene	4.1	1.5		ppbV	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Trichloroethene	400	120		ppbV	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Surr: Bromofluorobenzene	127	70-130		%REC	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	16	8.3		ug/m3	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	1.4	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	13	7.5		ug/m3	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	9.9	0.75		ug/m3	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/25/2011 8:22:00 PM
4-ethyltoluene	8.1	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Acetone	50	29		ug/m3	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:22:00 PM
Benzene	4.7	0.49		ug/m3	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:22:00 PM
Bromodichloromethane	2.9	1.0		ug/m3	1	1/25/2011 8:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:22:00 PM
Carbon disulfide	3.1	0.47		ug/m3	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:22:00 PM
Chloroform	47	7.4		ug/m3	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
Ethylbenzene	9.8	0.66		ug/m3	1	1/25/2011 8:22:00 PM
Freon 11	3.2	0.86		ug/m3	1	1/25/2011 8:22:00 PM
Freon 113	3.4	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Heptane	4.7	0.62		ug/m3	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:22:00 PM
m&p-Xylene	16	13		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	7.6	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	19	9.0		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:22:00 PM
o-Xylene	6.2	6.6	J	ug/m3	10	1/27/2011 7:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:22:00 PM
Styrene	4.8	0.65		ug/m3	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	85	41		ug/m3	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	36	4.5		ug/m3	10	1/27/2011 7:03:00 PM
Toluene	16	5.7		ug/m3	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Trichloroethene	2200	660		ug/m3	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012521.D Vial: 4
Acq On : 25 Jan 2011 8:22 pm Operator: RJP
Sample : C1101031-003A Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 20:43:09 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20918	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	66726	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	68119	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	43564	1.27	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 127.00%				
Target Compounds							Qvalue
11) Freon 11	4.06	101	20366	0.56	ppb		99
12) Acetone	4.20	58	319503	56.63	ppb		100
15) Freon 113	4.82	101	18345	0.44	ppb		93
18) Carbon disulfide	5.15	76	51813	0.97	ppb		100
21) 1,1-dichloroethane	6.27	63	9954	0.33	ppb		94
23) Methyl Ethyl Ketone	6.73	43	462567	15.34	ppb	#	51
24) cis-1,2-dichloroethene	7.14	61	5543	0.27	ppb		92
27) Chloroform	7.73	83	466102	10.60	ppb		99
28) Tetrahydrofuran	7.88	42	208006	22.61	ppb		91
31) 1,1,1-trichloroethane	8.51	97	123802	2.91	ppb		98
34) Benzene	9.11	78	66538	1.44	ppb		98
37) Heptane	10.49	43	18931	1.14	ppb	#	54
38) Trichloroethene	10.59	130	13078428	446.46	ppb		95
40) Bromodichloromethane	11.10	83	22194	0.42	ppb		99
45) Toluene	12.87	92	192868	6.79	ppb		99
48) Methyl Butyl Ketone	13.37	43	32299	1.82	ppb		93
50) Tetrachloroethylene	13.91	164	785504	24.04	ppb		100
52) Ethylbenzene	15.12	91	121138	2.23	ppb		98
53) m&p-xylene	15.28	91	353709	7.93	ppb		98
54) Styrene	15.71	104	30569	1.11	ppb	#	65
56) o-xylene	15.74	91	157462	2.96	ppb		96
59) 4-ethyltoluene	16.93	105	80657	1.63	ppb		98
60) 1,3,5-trimethylbenzene	16.99	105	86385	1.99	ppb		98
61) 1,2,4-trimethylbenzene	17.40	105	259653	7.59	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

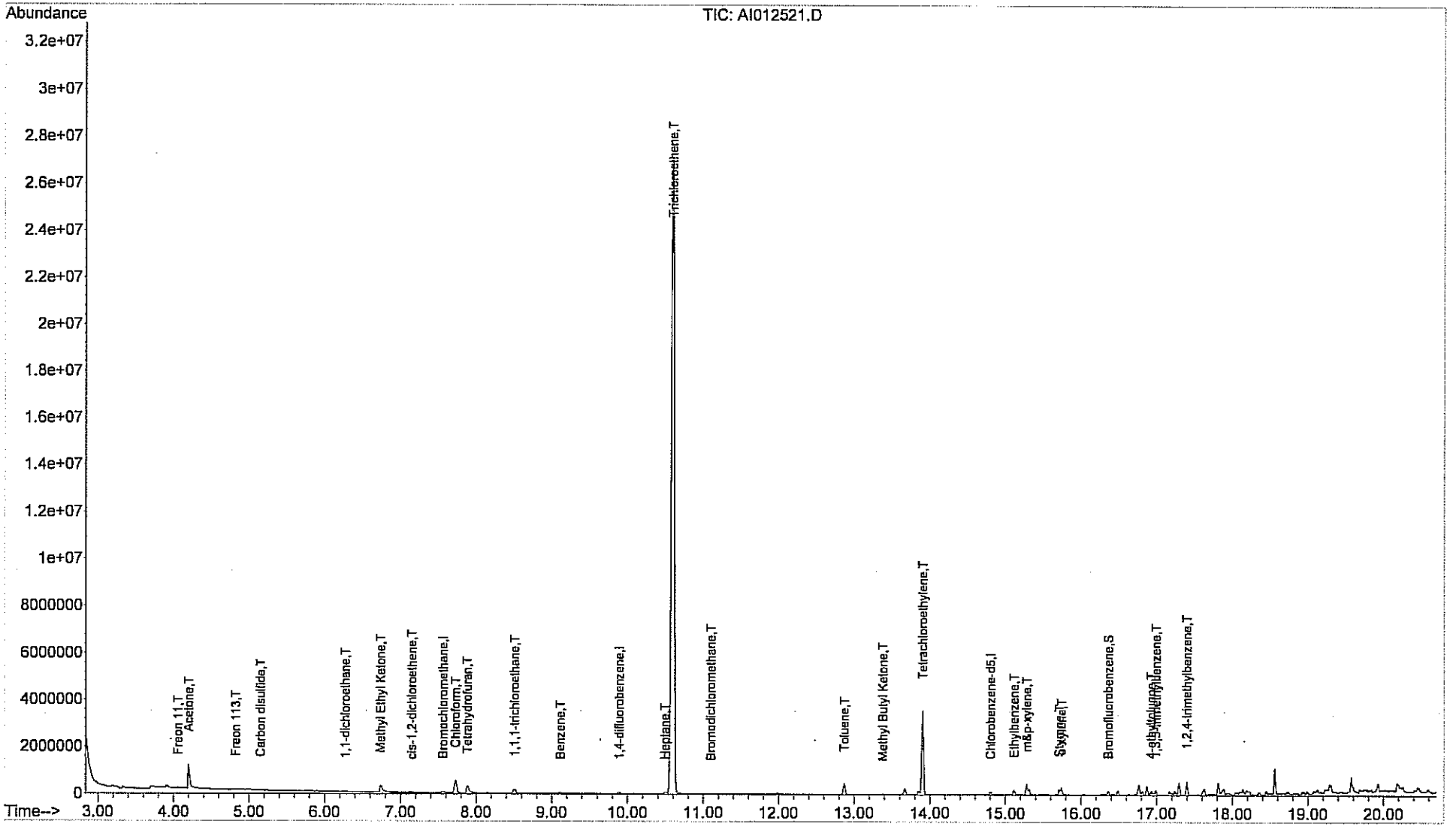
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012521.D
Acq On : 25 Jan 2011 8:22 pm
Sample : C1101031-003A
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:17 2011

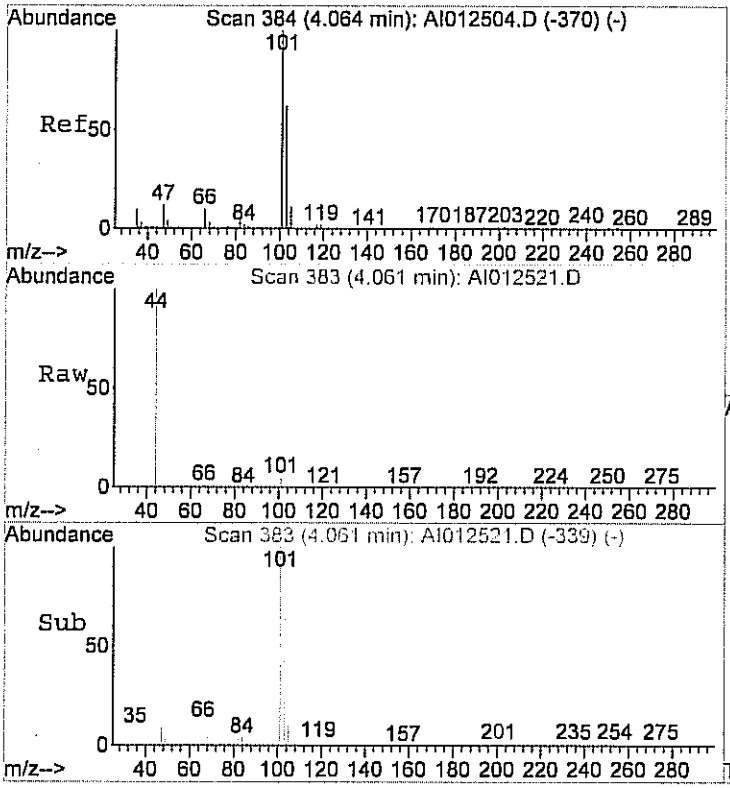
Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



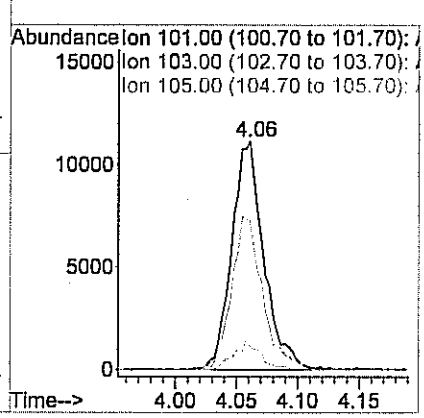
Centek laboratories, LLC

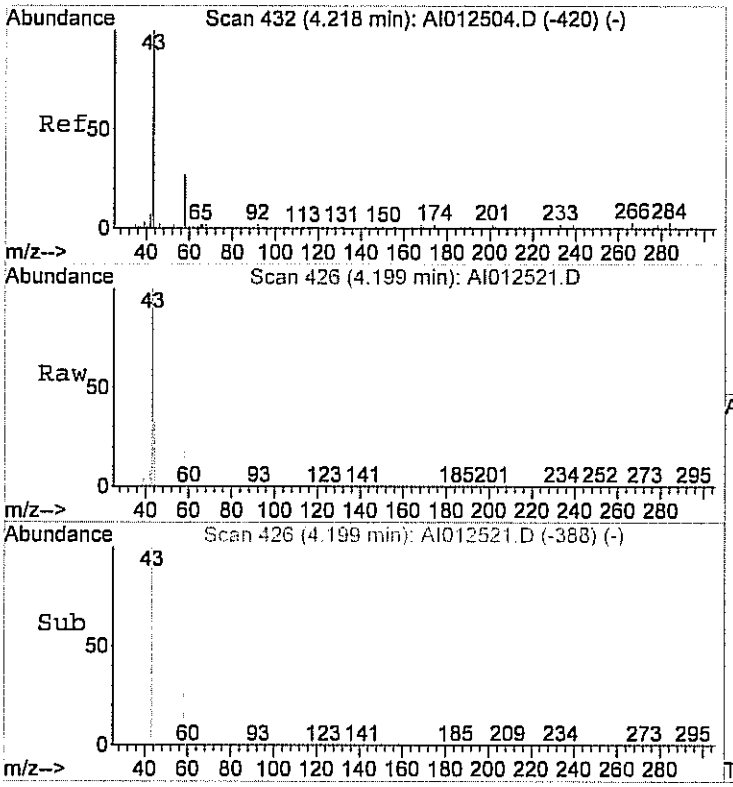


#11
Freon 11
Concen: 0.56 ppb
RT: 4.06 min Scan# 383
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:101 Resp: 20366

Ion	Ratio	Lower	Upper
101	100		
103	65.5	46.3	86.3
105	10.8	0.0	31.0

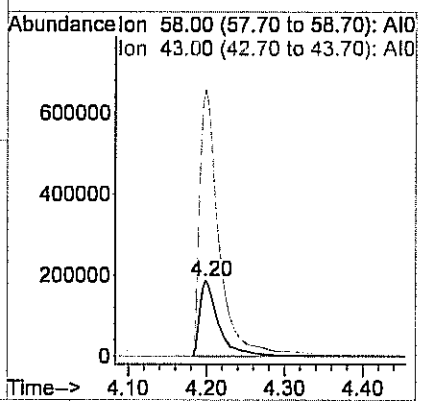


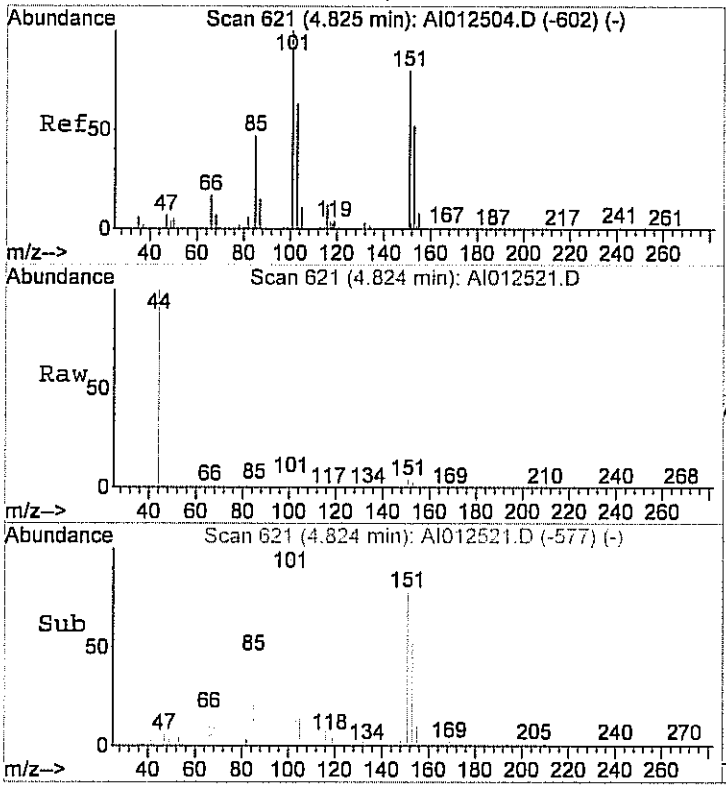


#12
Acetone
Concen: 56.63 ppb
RT: 4.20 min Scan# 426
Delta R.T. -0.03 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 58 Resp: 319503

Ion	Ratio	Lower	Upper
58	100		
43	358.3	329.0	389.0

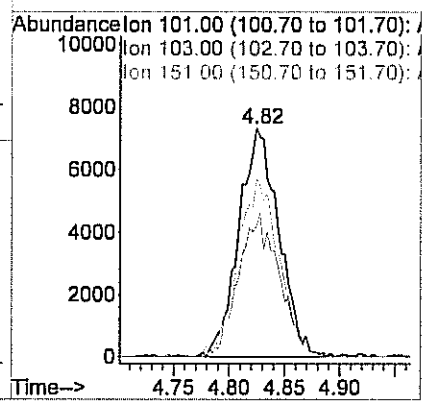


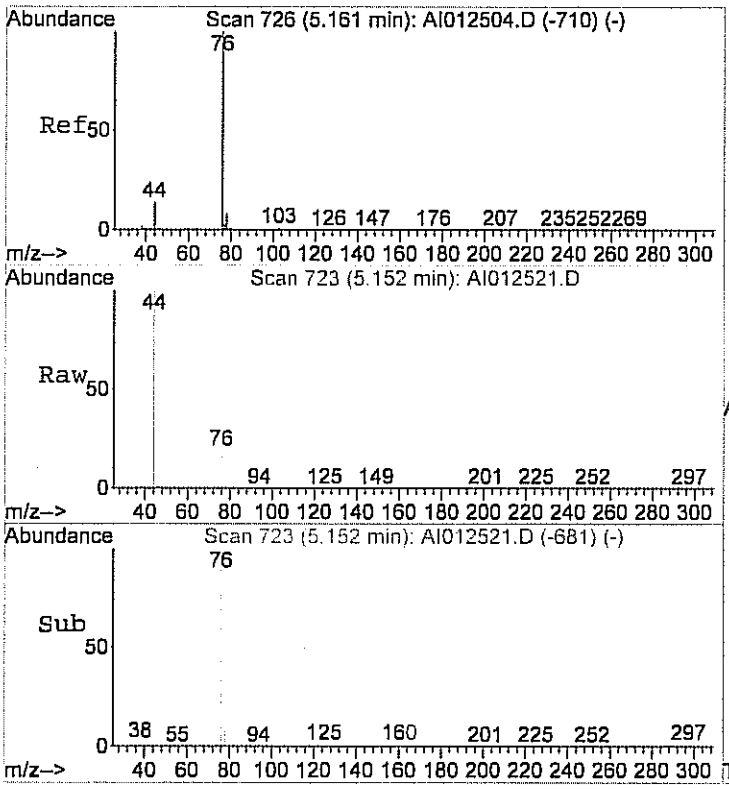


#15
Freon 113
Concen: 0.44 ppb
RT: 4.82 min Scan# 621
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:101 Resp: 18345

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.7	84.7
151	80.6	71.0	111.0

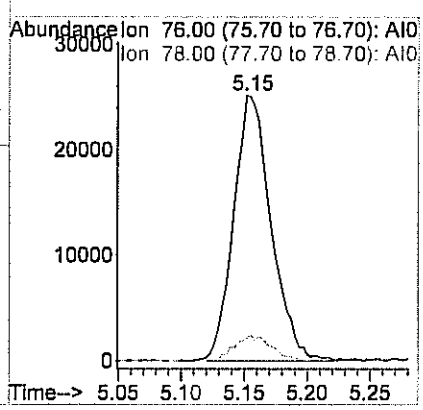


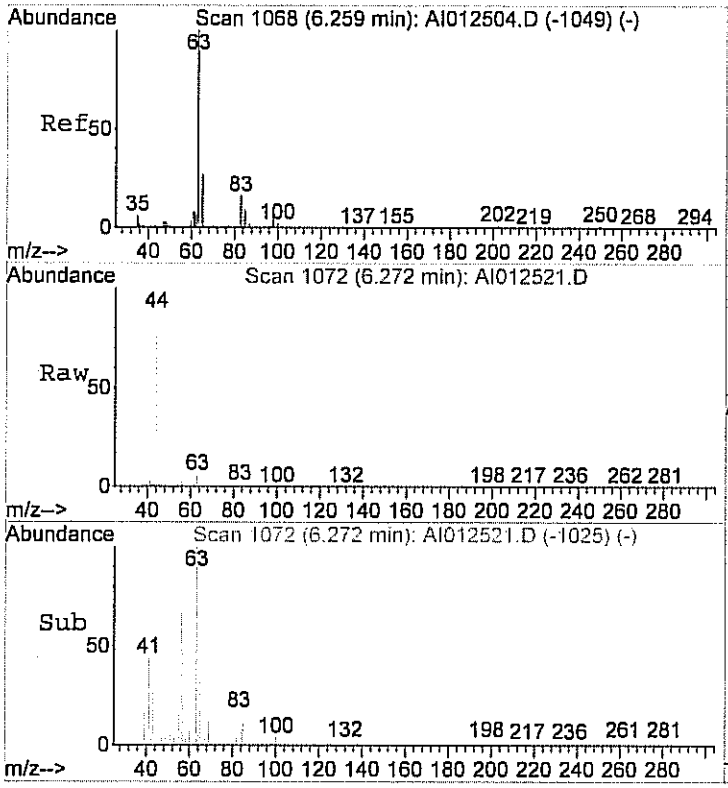


#18
Carbon disulfide
Concen: 0.97 ppb
RT: 5.15 min Scan# 723
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 76 Resp: 51813

Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	30.1

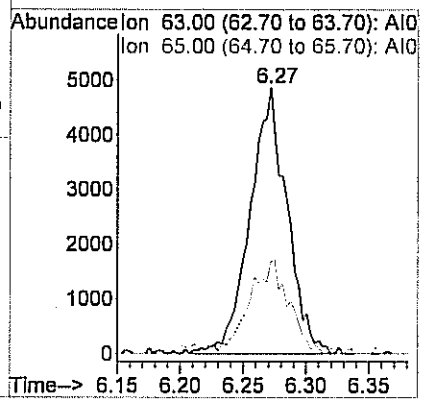


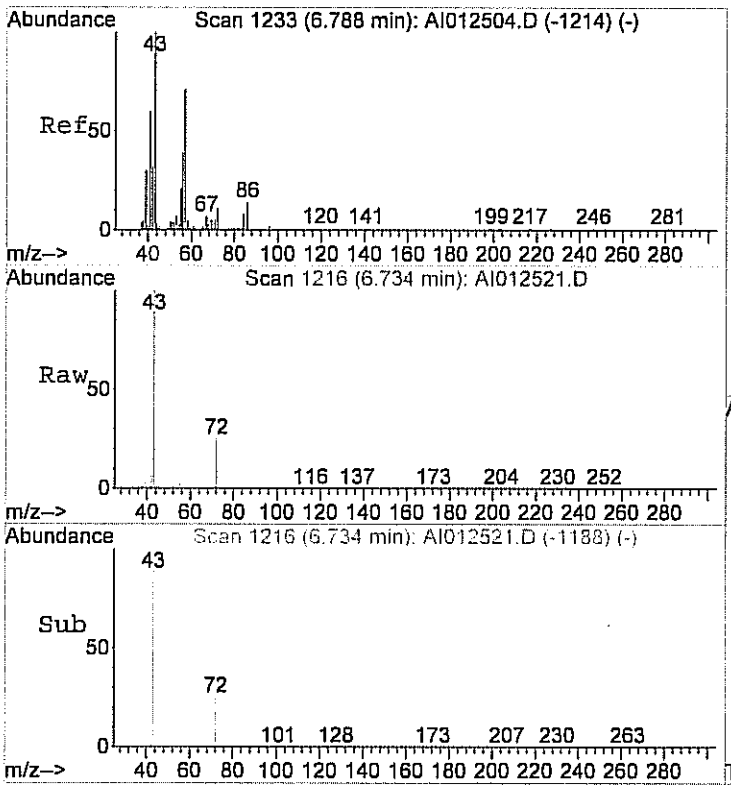


#21
1,1-dichloroethane
Concen: 0.33 ppb
RT: 6.27 min Scan# 1072
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 63 Resp: 9954

Ion	Ratio	Lower	Upper
63	100		
65	37.1	13.8	53.8

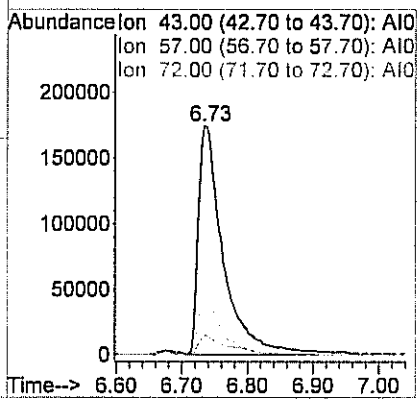


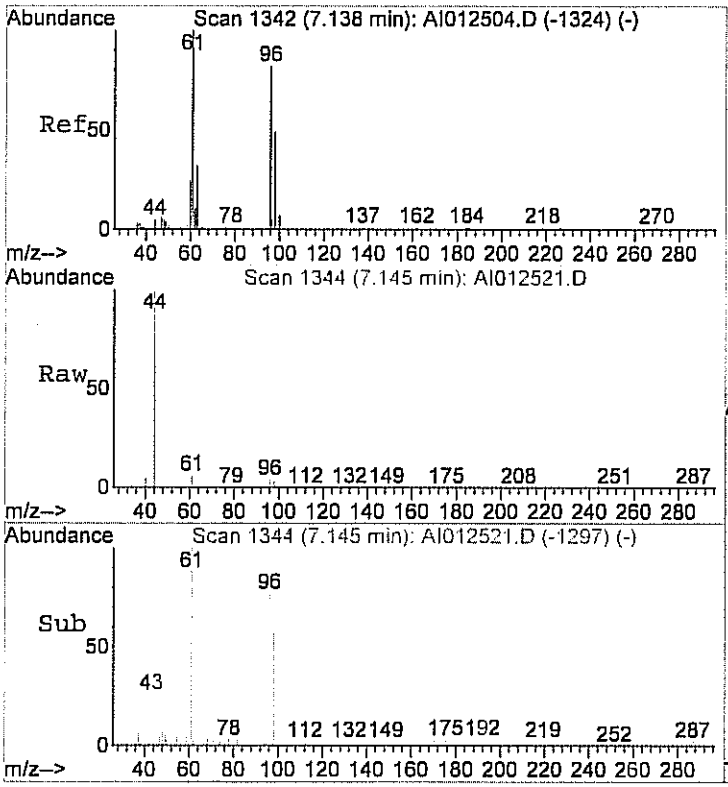


#23
Methyl Ethyl Ketone
Concen: 15.34 ppb
RT: 6.73 min Scan# 1216
Delta R.T. -0.06 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 462567

Ion	Ratio	Lower	Upper
43	100		
57	9.8	37.8	77.8#
72	23.9	1.1	41.1

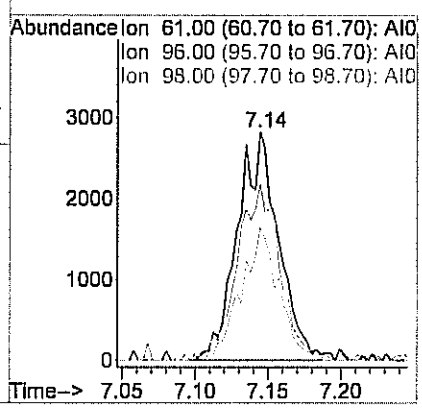


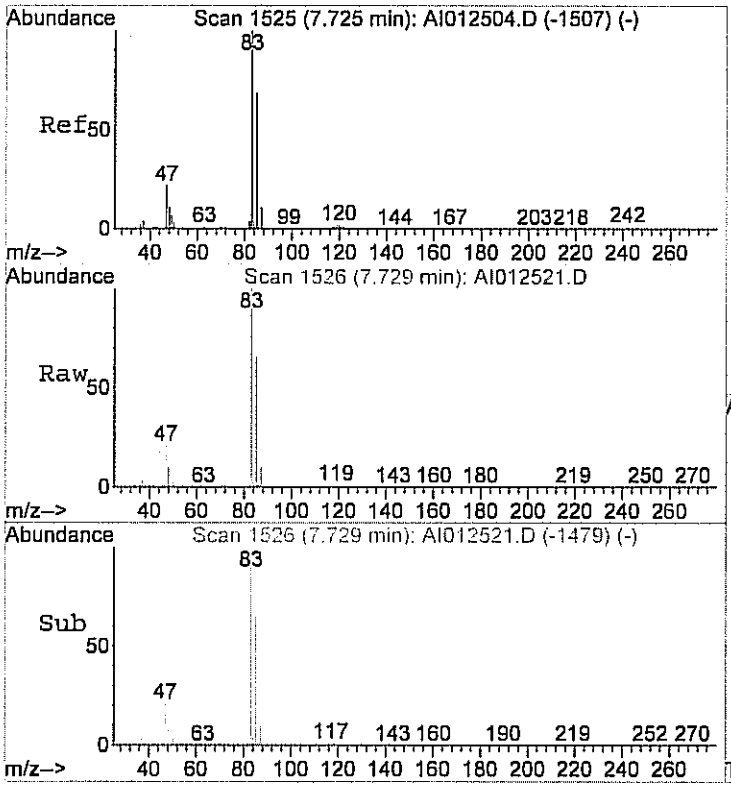


#24
cis-1,2-dichloroethene
Concen: 0.27 ppb
RT: 7.14 min Scan# 1344
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 61 Resp: 5543

Ion	Ratio	Lower	Upper
61	100		
96	79.6	68.1	108.1
98	53.3	37.3	77.3

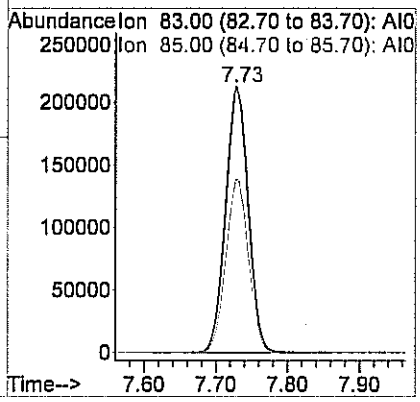


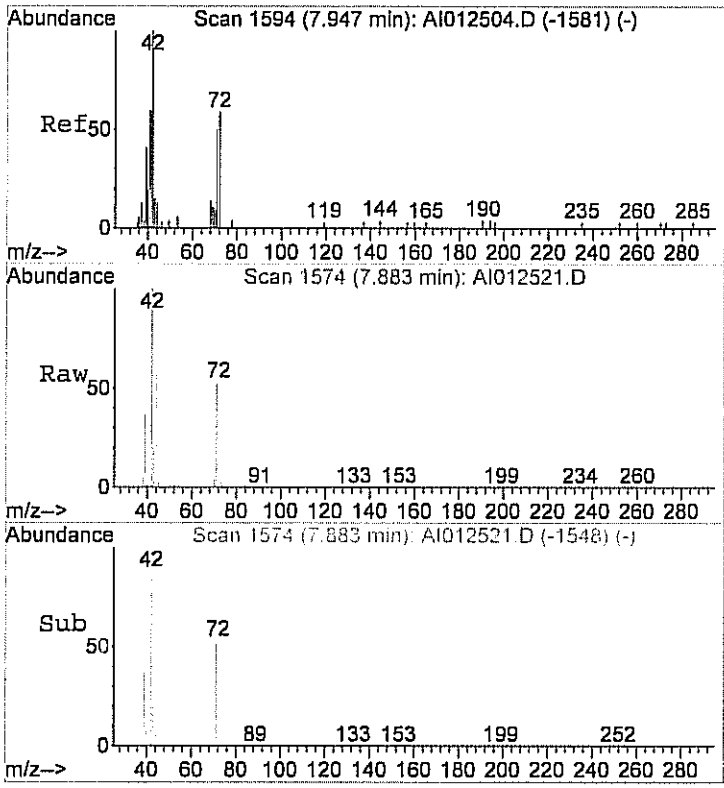


#27
Chloroform
Concen: 10.60 ppb
RT: 7.73 min Scan# 1526
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 83 Resp: 466102

Ion	Ratio	Lower	Upper
83	100		
85	65.6	46.5	86.5

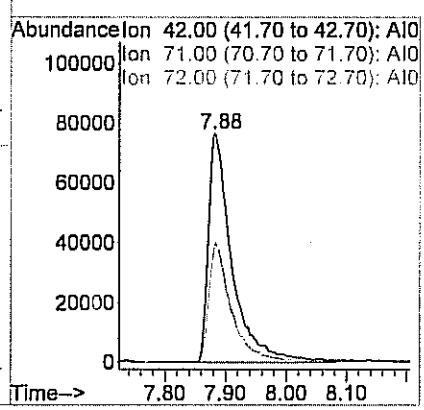


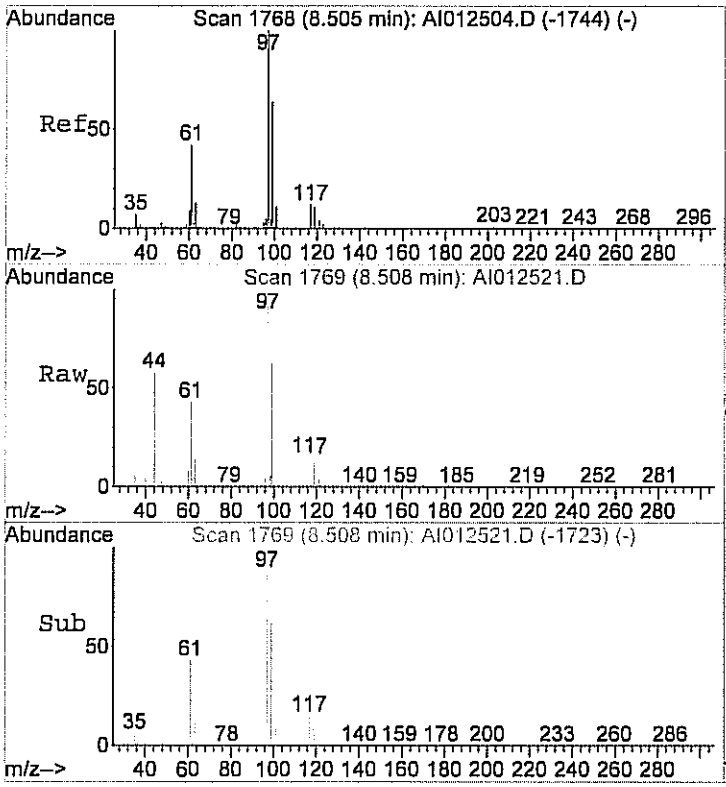


#28
Tetrahydrofuran
Concen: 22.61 ppb
RT: 7.88 min Scan# 1574
Delta R.T. -0.07 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 42 Resp: 208006

Ion	Ratio	Lower	Upper
42	100		
71	51.2	37.9	77.9
72	51.0	38.0	78.0

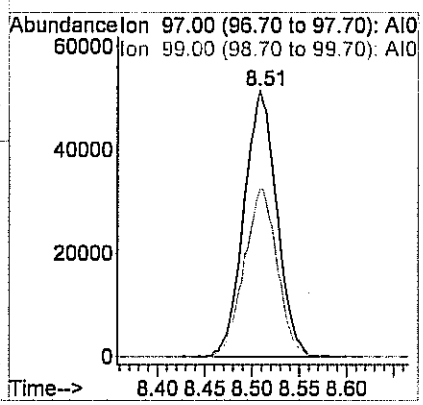


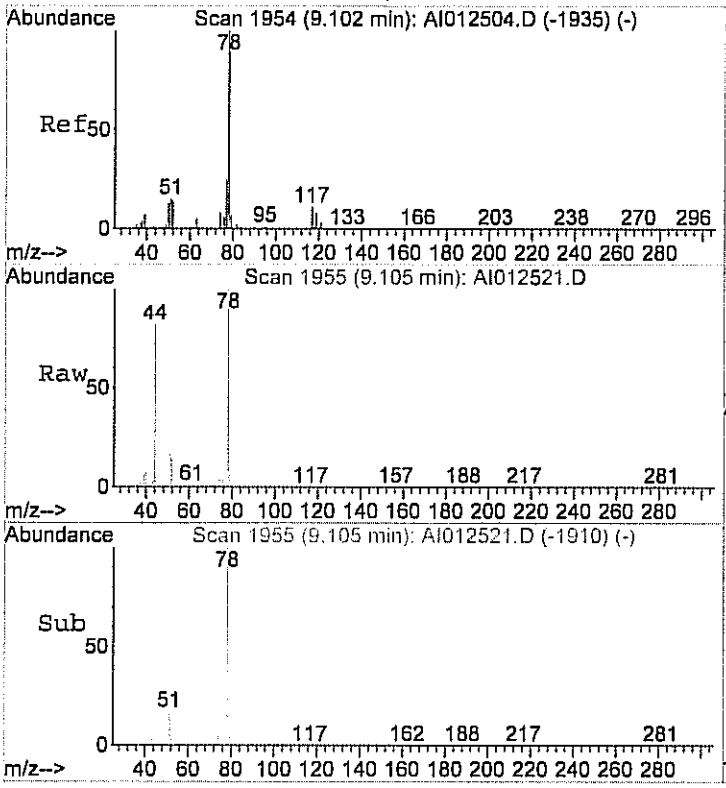


#31
1,1,1-trichloroethane
Concen: 2.91 ppb
RT: 8.51 min Scan# 1769
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 97 Resp: 123802

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.4	85.4

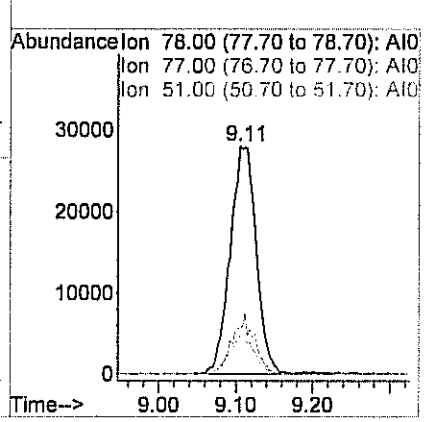


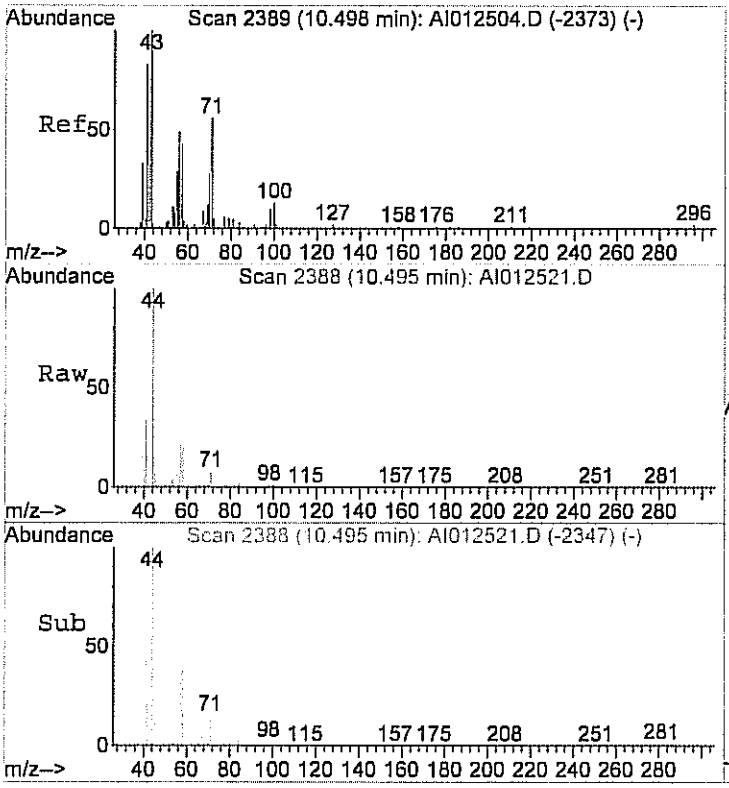


#34
Benzene
Concen: 1.44 ppb
RT: 9.11 min Scan# 1955
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 78 Resp: 66538

Ion	Ratio	Lower	Upper
78	100		
77	22.3	2.6	42.6
51	16.0	0.0	34.0

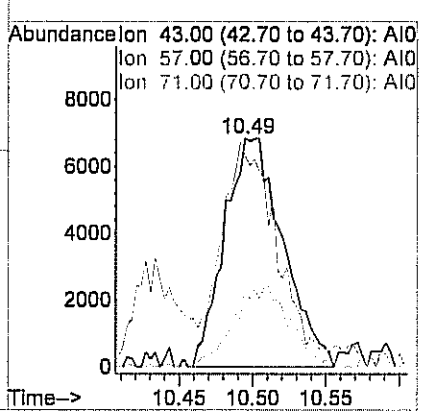


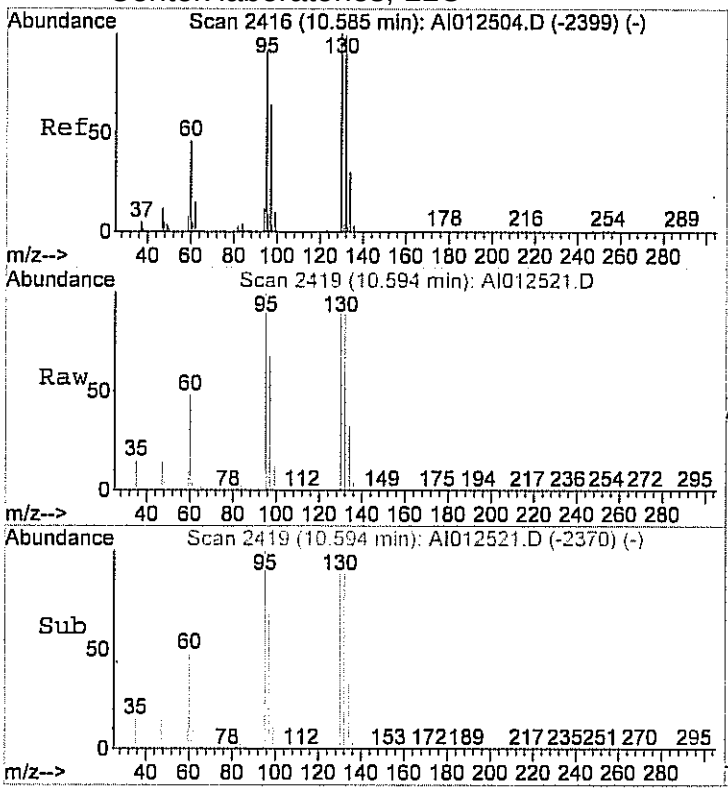


#37
Heptane
Concen: 1.14 ppb
RT: 10.49 min Scan# 2388
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 18931

Ion	Ratio	Lower	Upper
43	100		
57	95.3	37.9	77.9#
71	33.0	46.6	86.6#

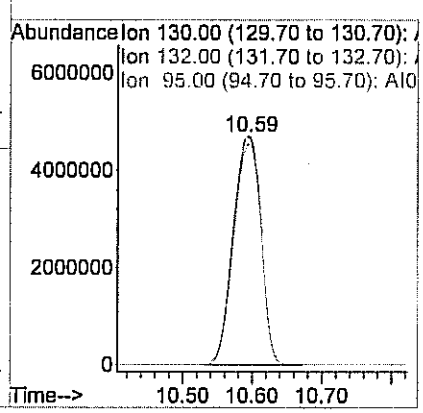


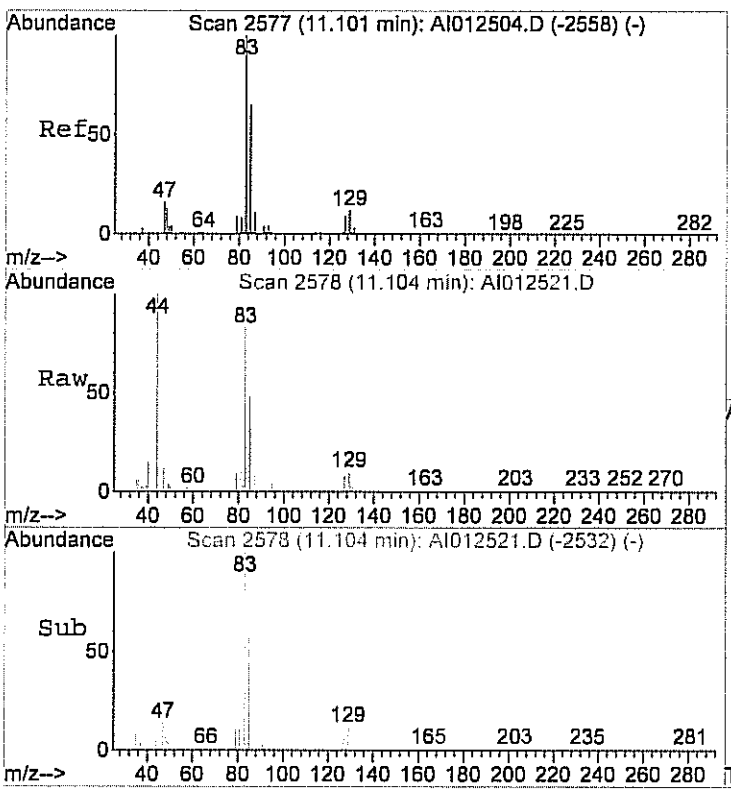


#38
Trichloroethene
Concen: 446.46 ppb
RT: 10.59 min Scan# 2419
Delta R.T. 0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:130 Resp:13078428

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.0	117.0
95	99.7	70.8	110.8

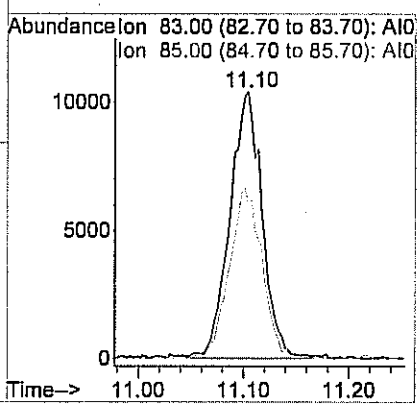


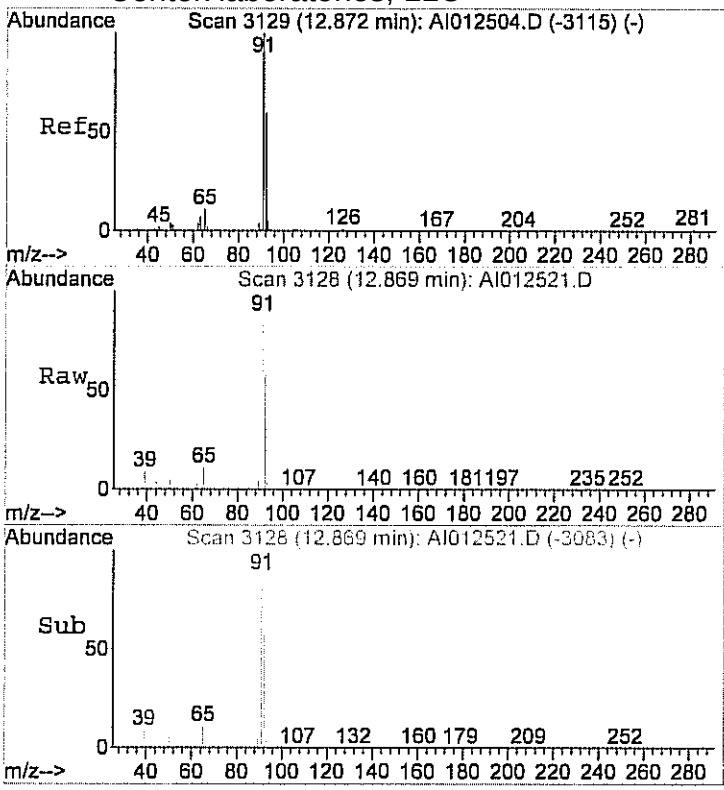


#40
Bromodichloromethane
Concen: 0.42 ppb
RT: 11.10 min Scan# 2578
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 83 Resp: 22194

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.7	85.7

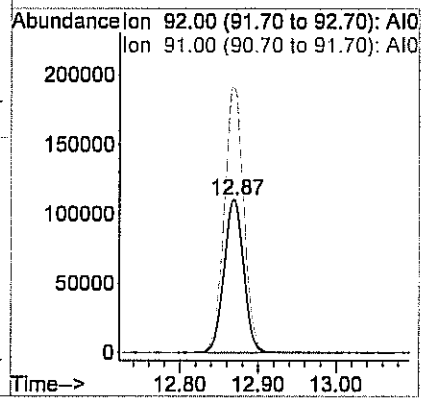


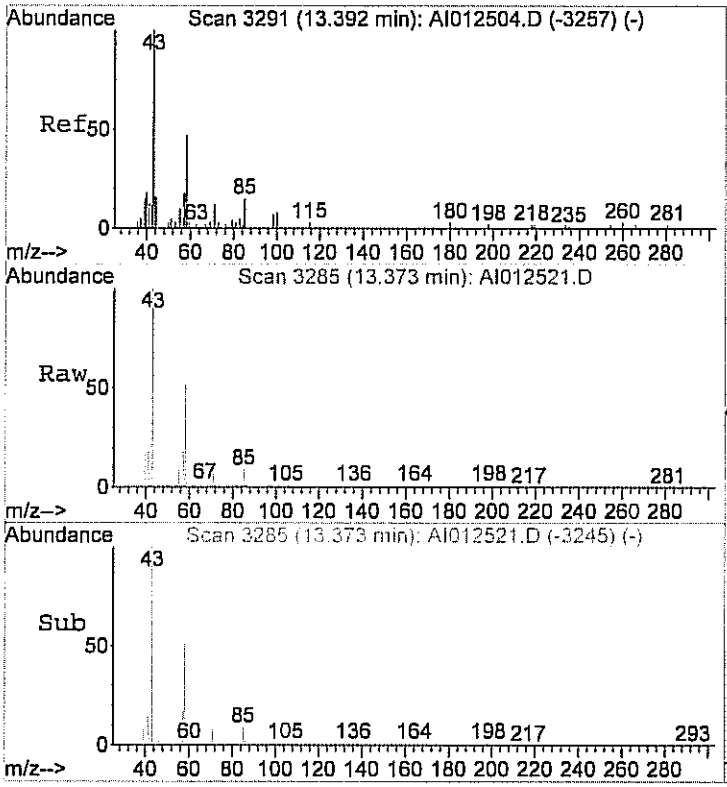


#45
Toluene
Concen: 6.79 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 92 Resp: 192868

Ion	Ratio	Lower	Upper
92	100		
91	171.7	150.0	190.0

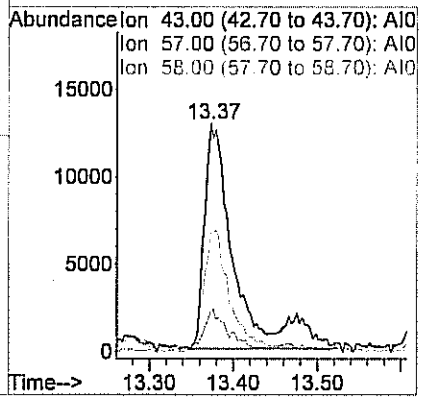


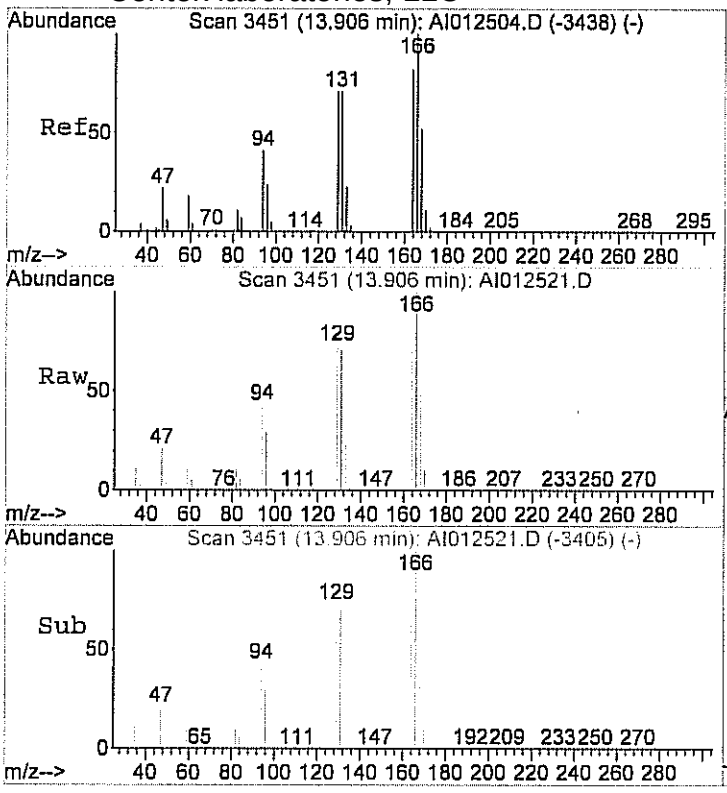


#48
Methyl Butyl Ketone
Concen: 1.82 ppb
RT: 13.37 min Scan# 3285
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 32299

Ion	Ratio	Lower	Upper
43	100		
57	15.7	0.0	38.5
58	47.7	33.3	73.3

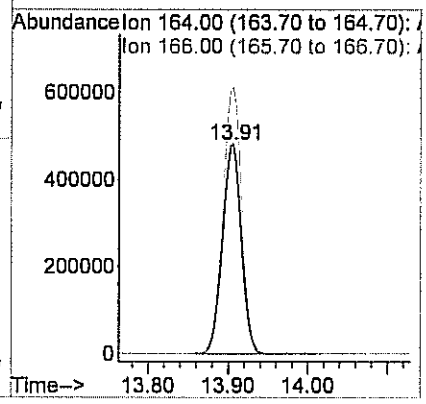


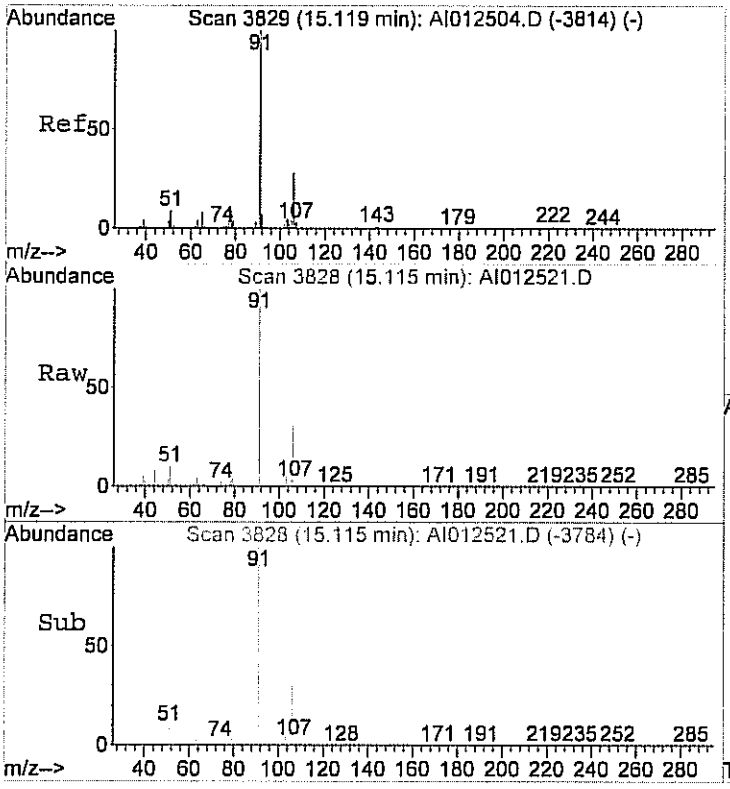


#50
Tetrachloroethylene
Concen: 24.04 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:164 Resp: 785504

Ion	Ratio	Lower	Upper
164	100		
166	128.5	109.0	149.0

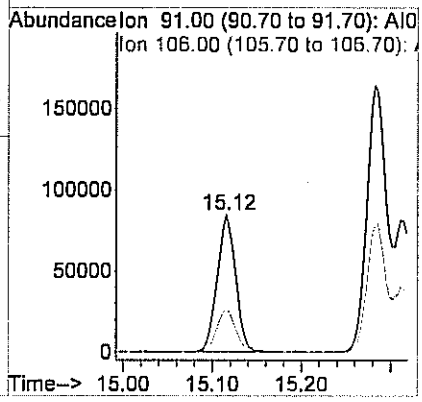


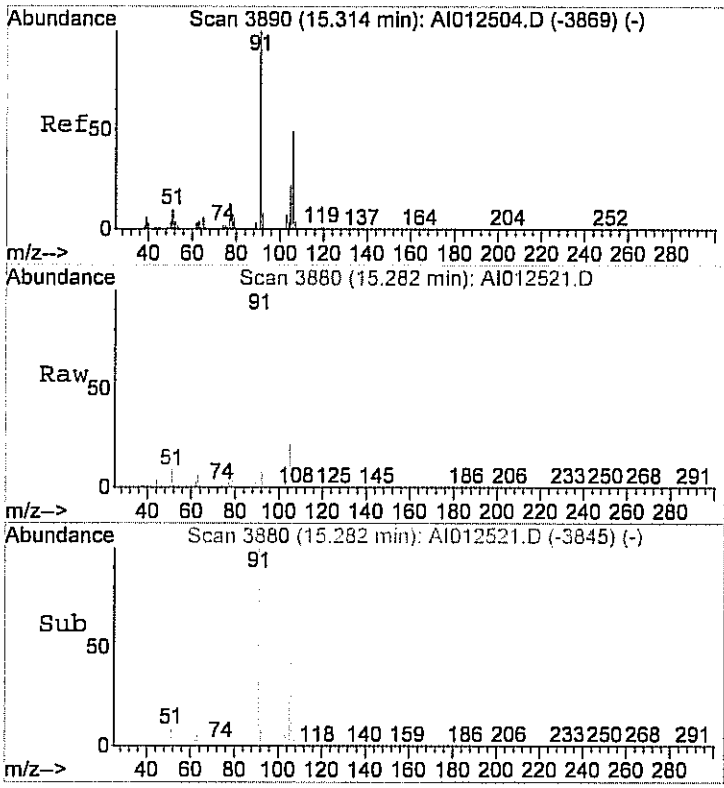


#52
Ethylbenzene
Concen: 2.23 ppb
RT: 15.12 min Scan# 3828
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 121138

Ion	Ratio	Lower	Upper
91	100		
106	31.9	12.9	52.9

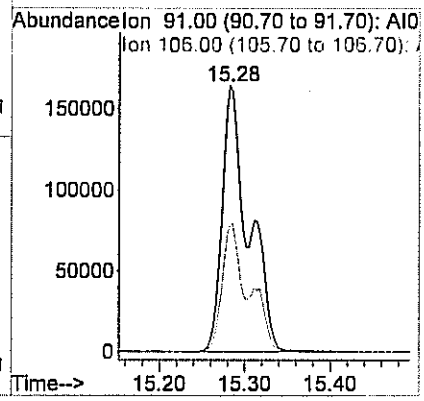


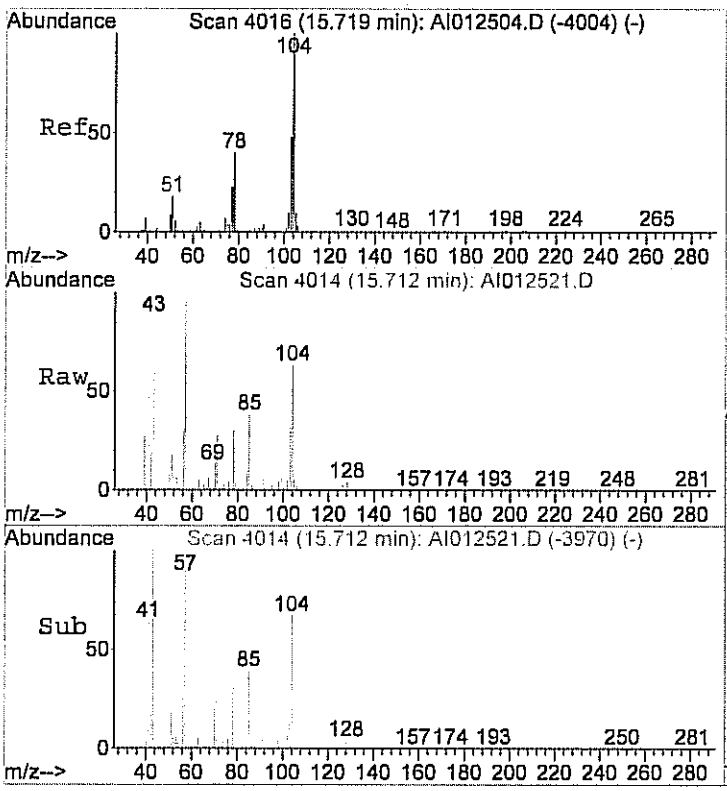


#53
m&p-xylene
Concen: 7.93 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 353709

Ion	Ratio	Lower	Upper
91	100		
106	48.7	29.9	69.9

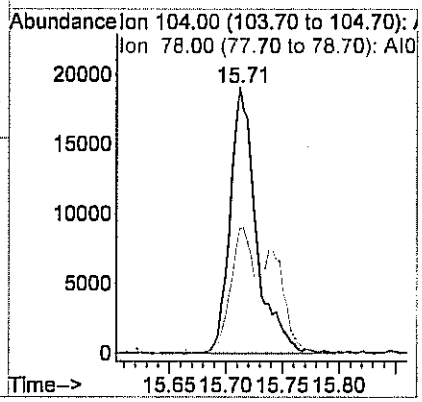


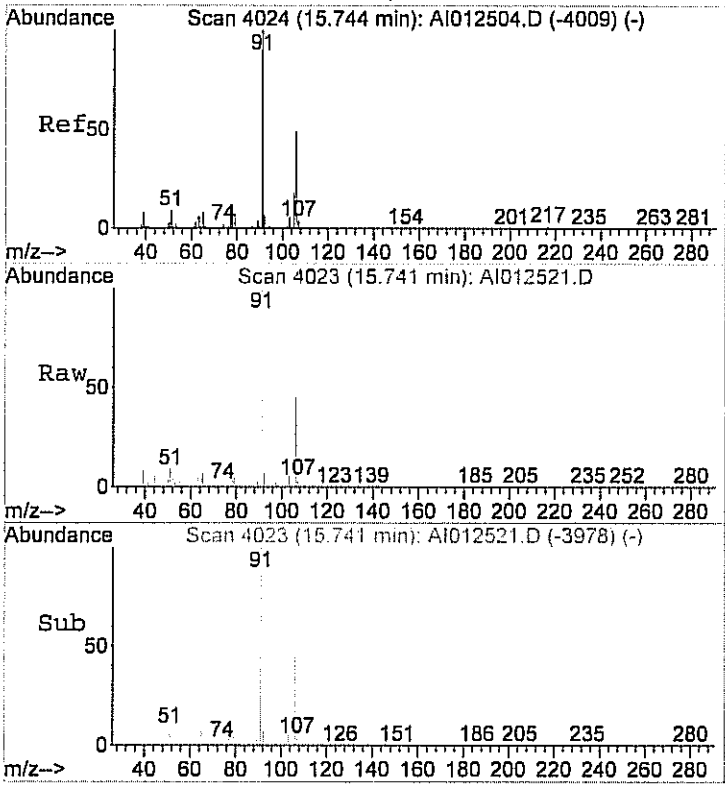


#54
Styrene
Concen: 1.11 ppb
RT: 15.71 min Scan# 4014
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:104 Resp: 30569

Ion	Ratio	Lower	Upper
104	100		
78	75.9	31.5	71.5#

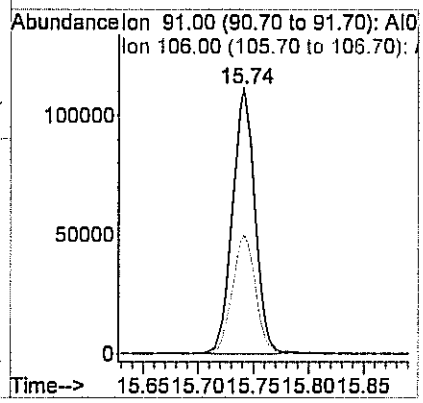


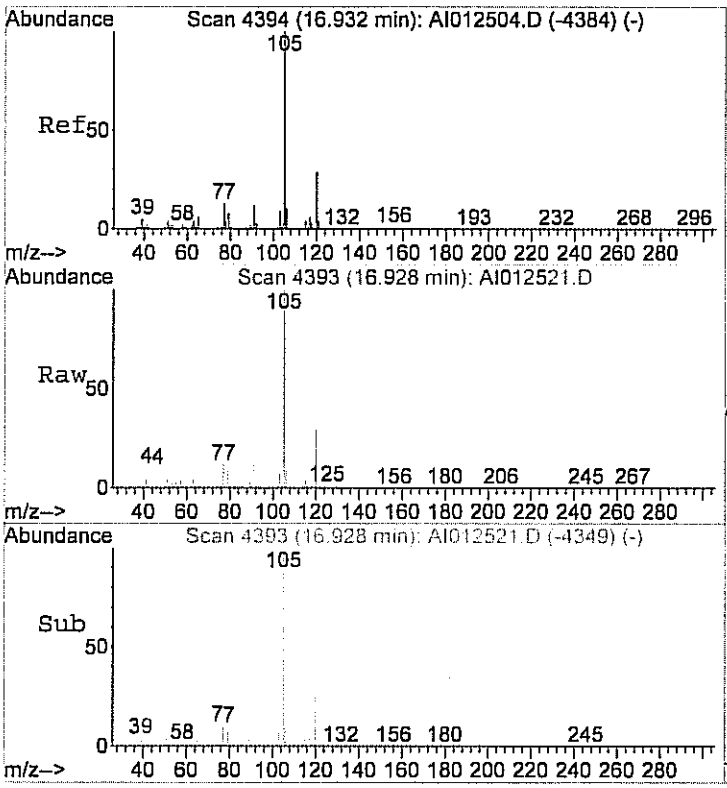


#56
o-xylene
Concen: 2.96 ppb
RT: 15.74 min Scan# 4023
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 157462

Ion	Ratio	Lower	Upper
91	100		
106	46.2	29.0	69.0

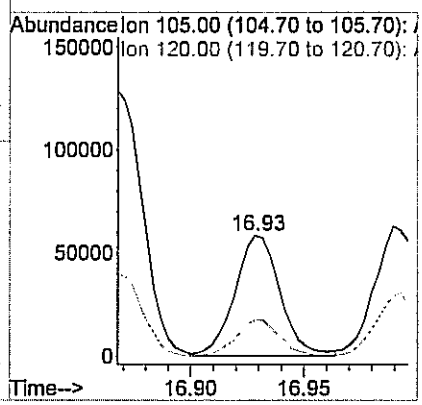


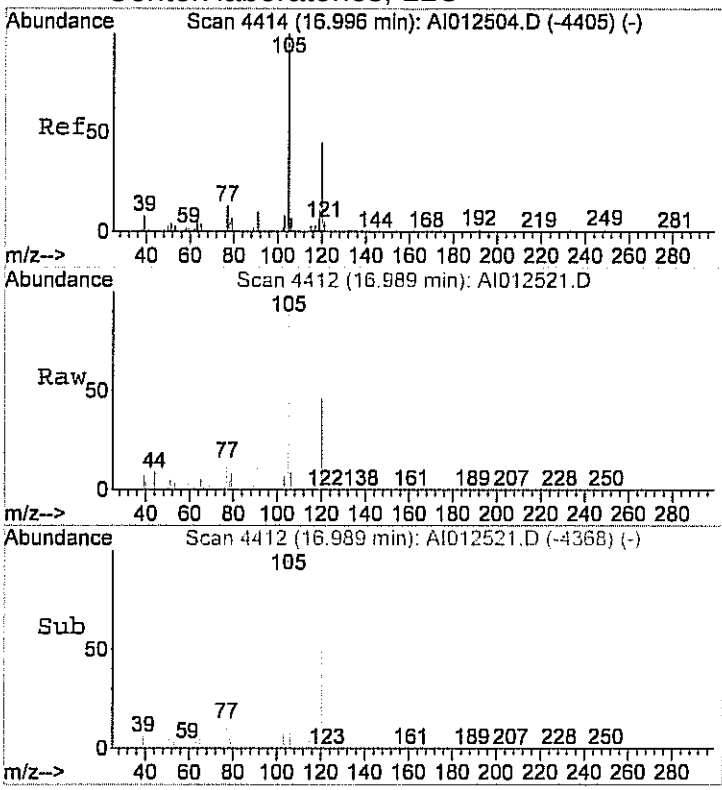


#59
4-ethyltoluene
Concen: 1.63 ppb
RT: 16.93 min Scan# 4393
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 80657

Ion	Ratio	Lower	Upper
105	100		
120	29.4	10.3	50.3

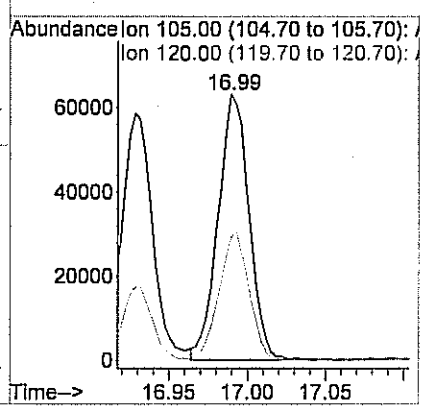


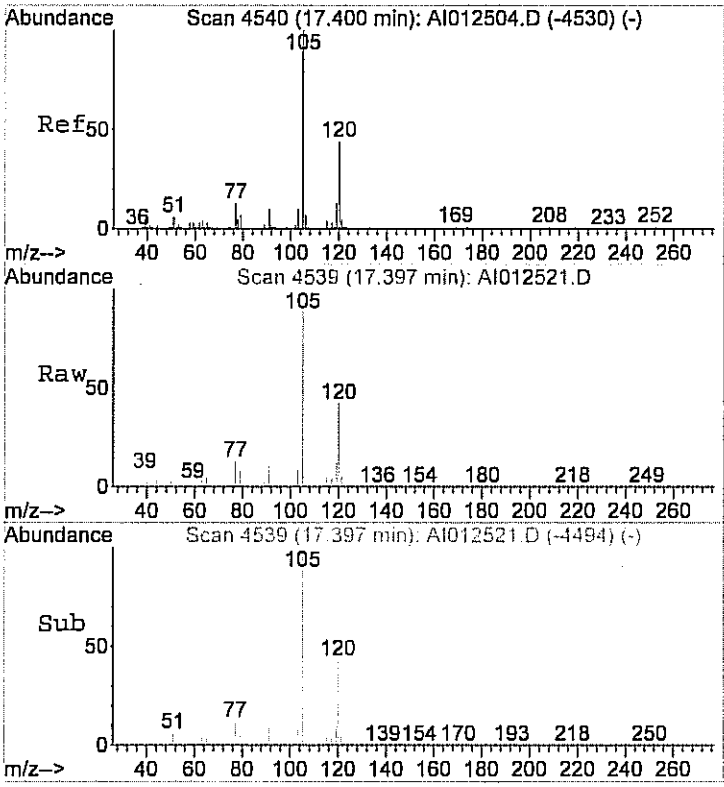


#60
1,3,5-trimethylbenzene
Concen: 1.99 ppb
RT: 16.99 min Scan# 4412
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 86385

Ion	Ratio	Lower	Upper
105	100		
120	47.5	28.6	68.6

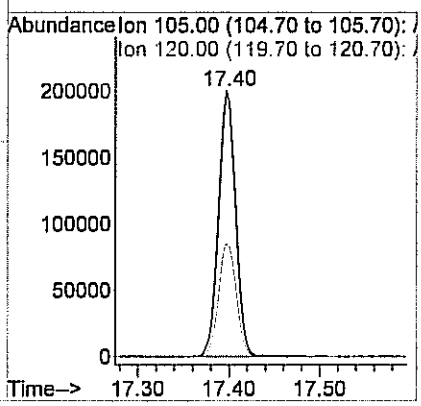




#61
1,2,4-trimethylbenzene
Concen: 7.59 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 259653

Ion	Ratio	Lower	Upper
105	100		
120	45.0	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012717.D Vial: 6
Acq On : 27 Jan 2011 7:03 pm Operator: RJP
Sample : C1101031-003A 10X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 19:24:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	16838	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	43991	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	41856	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	19653	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
12) Acetone	4.23	58	19185	4.22	ppb		96
23) Methyl Ethyl Ketone	6.80	43	15387	0.63	ppb	#	51
27) Chloroform	7.73	83	33107	0.94	ppb		100
28) Tetrahydrofuran	7.96	42	8910m	1.20	ppb		
31) 1,1,1-trichloroethane	8.50	97	7969	0.28	ppb		94
38) Trichloroethene	10.58	130	1309324	67.80	ppb		95
45) Toluene	12.87	92	7197	0.41	ppb		98
50) Tetrachloroethylene	13.91	164	47092	2.35	ppb		100
53) m&p-xylene	15.28	91	9876m	0.36	ppb		
56) o-xylene	15.74	91	4551m	0.14	ppb		
61) 1,2,4-trimethylbenzene	17.40	105	5750	0.27	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012717.D A106_1UG.M Tue Feb 08 15:45:10 2011 MSD1 Page 1

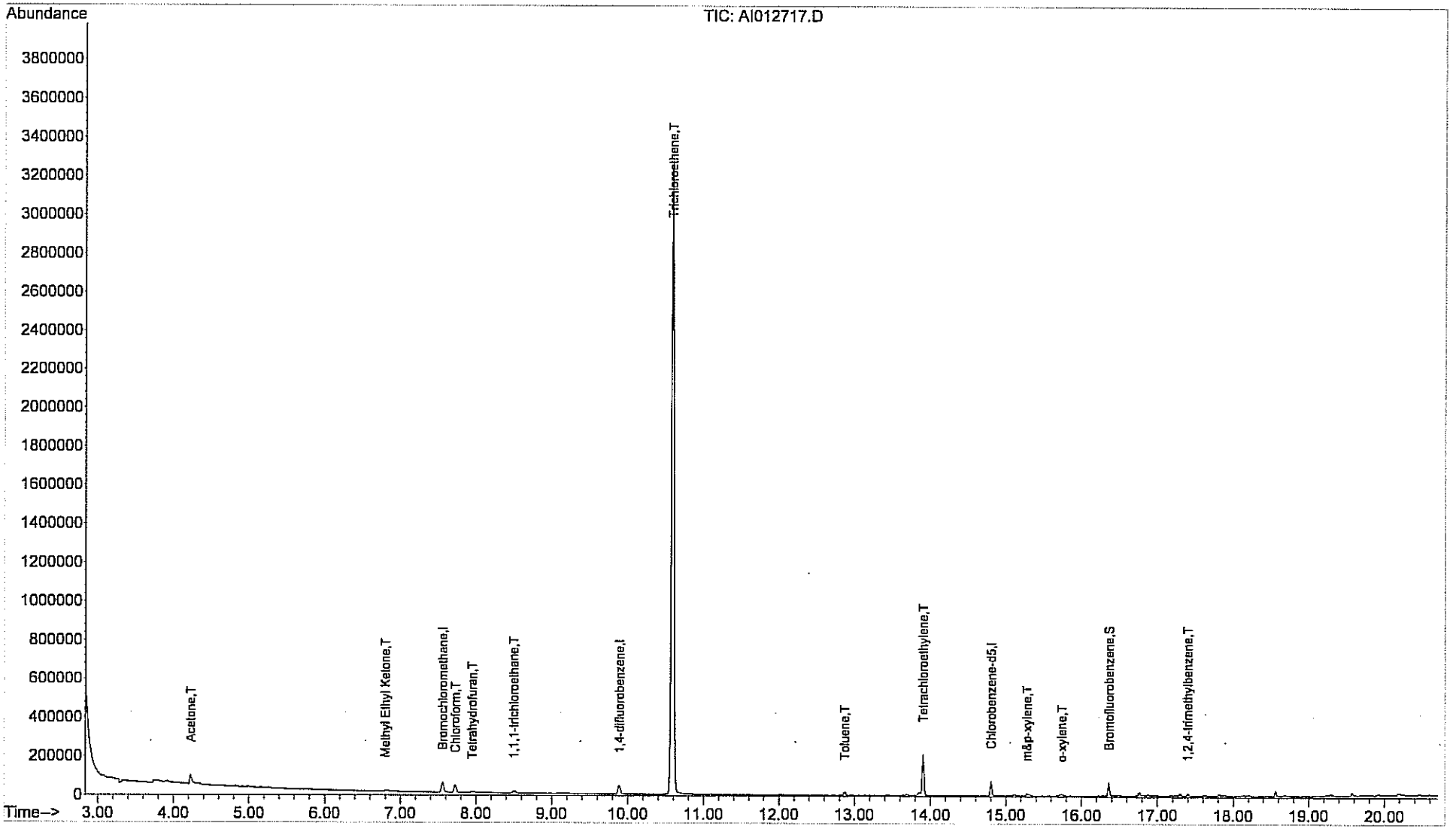
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012717.D
Acq On : 27 Jan 2011 7:03 pm
Sample : C1101031-003A 10X
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 15:20 2011

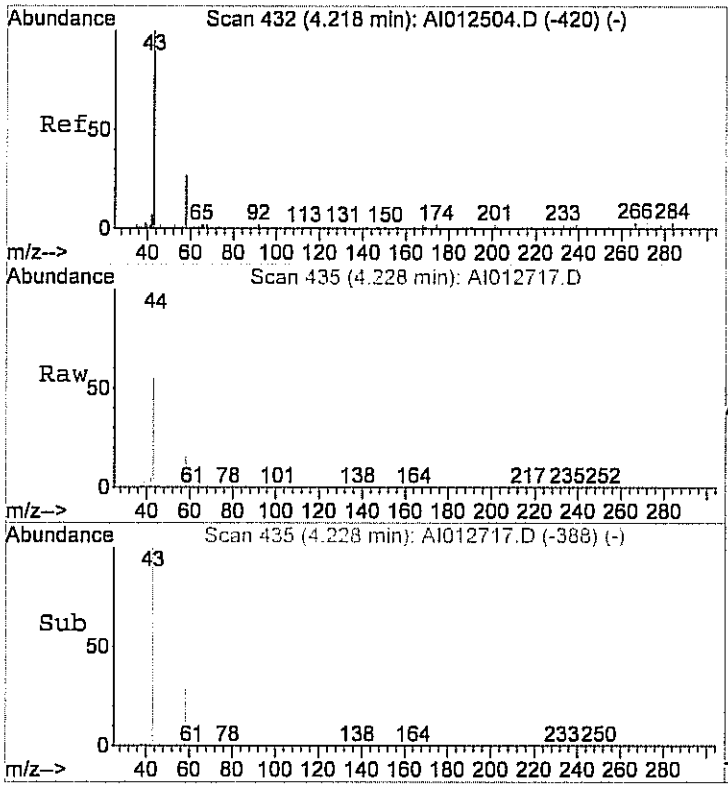
Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



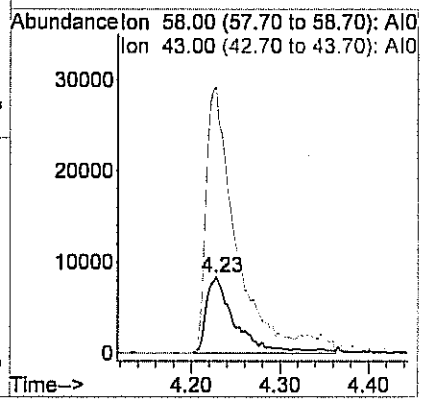
Centek laboratories, LLC

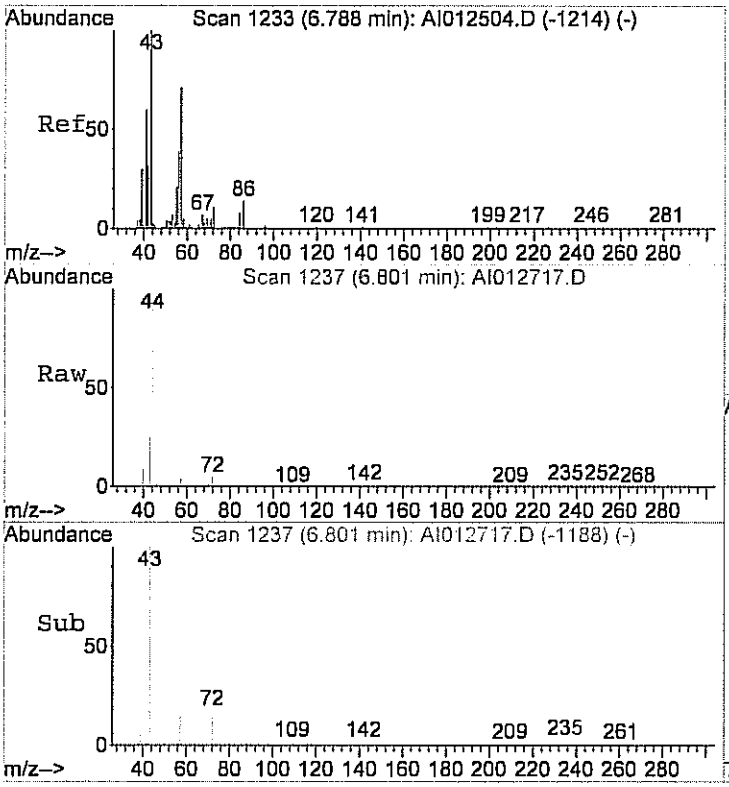


#12
Acetone
Concen: 4.22 ppb
RT: 4.23 min Scan# 435
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 58 Resp: 19185

Ion	Ratio	Lower	Upper
58	100		
43	368.0	329.0	389.0

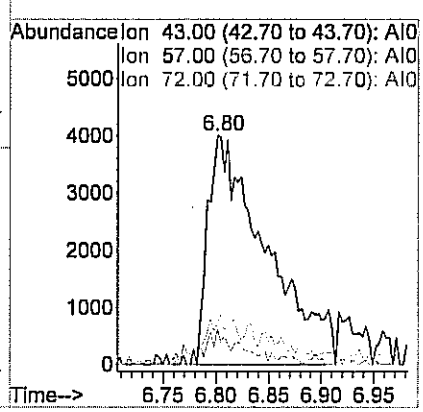


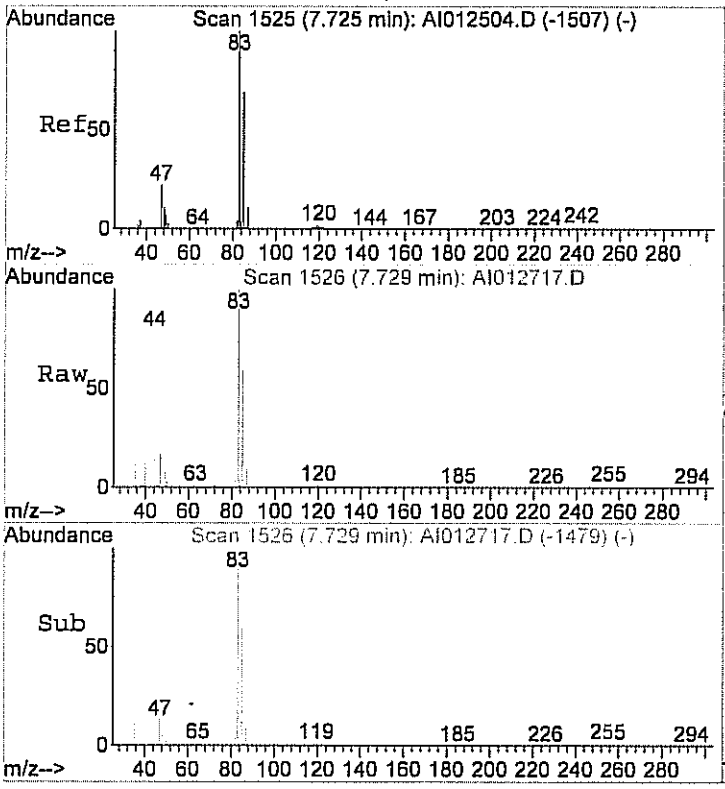


#23
Methyl Ethyl Ketone
Concen: 0.63 ppb
RT: 6.80 min Scan# 1237
Delta R.T. 0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 43 Resp: 15387

Ion	Ratio	Lower	Upper
43	100		
57	8.9	37.8	77.8#
72	22.2	1.1	41.1

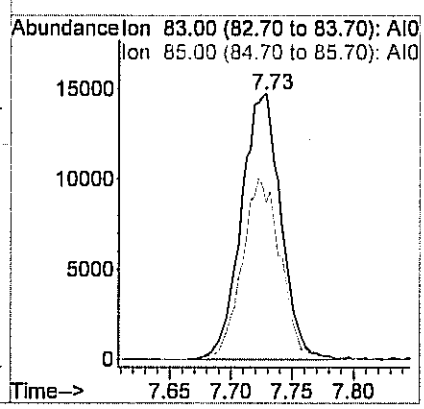


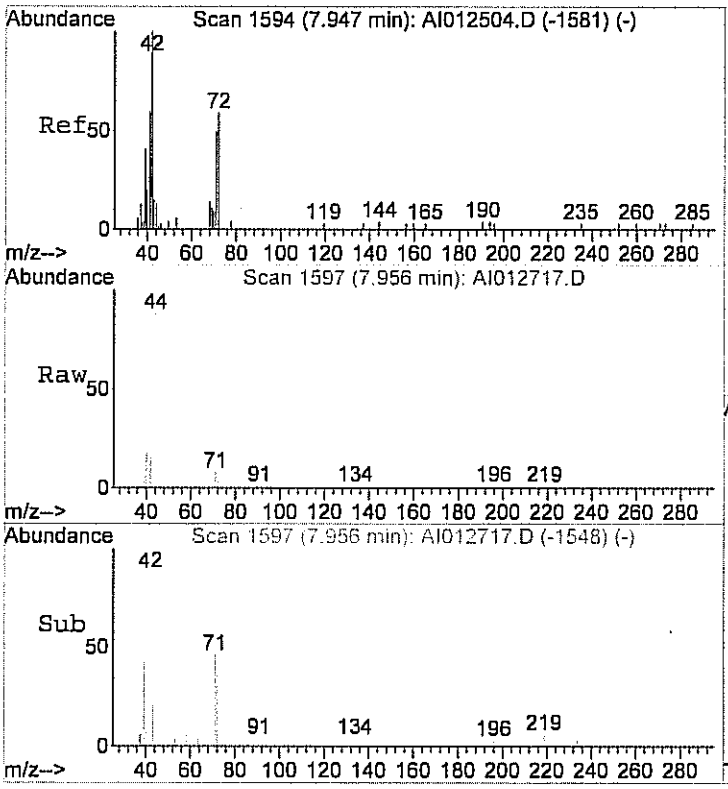


#27
Chloroform
Concen: 0.94 ppb
RT: 7.73 min Scan# 1526
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 83 Resp: 33107

Ion	Ratio	Lower	Upper
83	100		
85	66.8	46.5	86.5

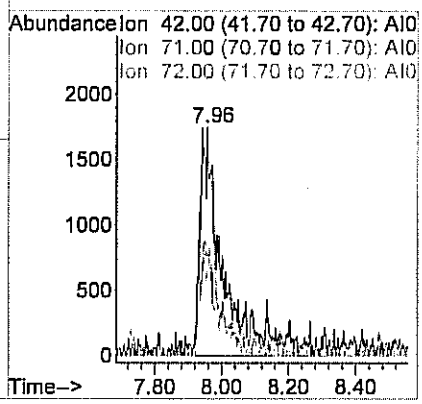


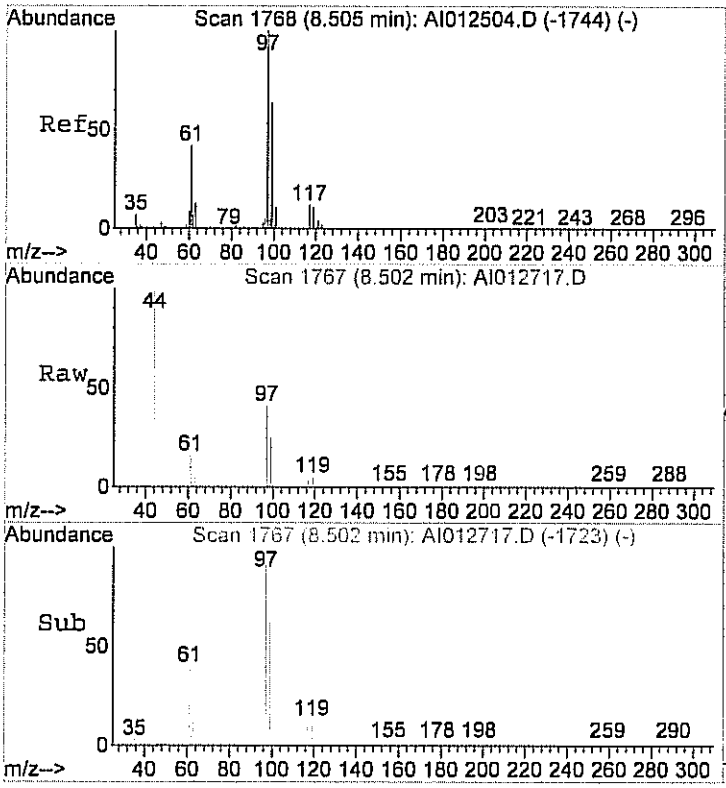


#28
Tetrahydrofuran
Concen: 1.20 ppb m
RT: 7.96 min Scan# 1597
Delta R.T. 0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 42 Resp: 8910

Ion	Ratio	Lower	Upper
42	100		
71	36.4	37.9	77.9#
72	33.1	38.0	78.0#

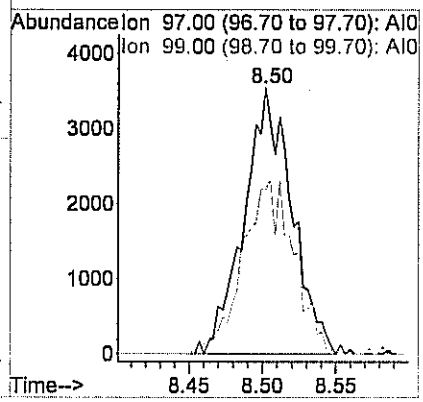


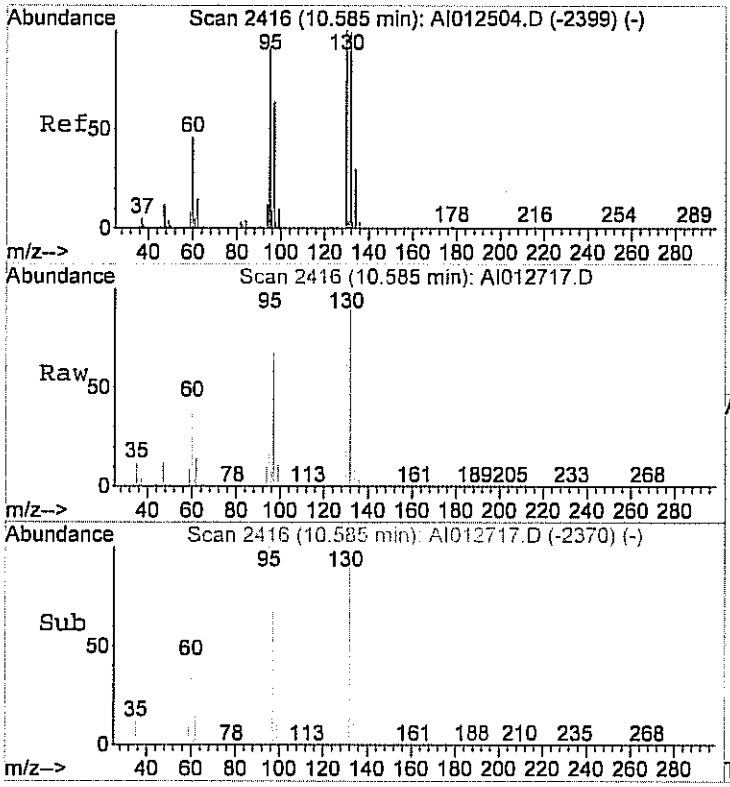


#31
1,1,1-trichloroethane
Concen: 0.28 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 97 Resp: 7969

Ion	Ratio	Lower	Upper
97	100		
99	69.8	45.4	85.4

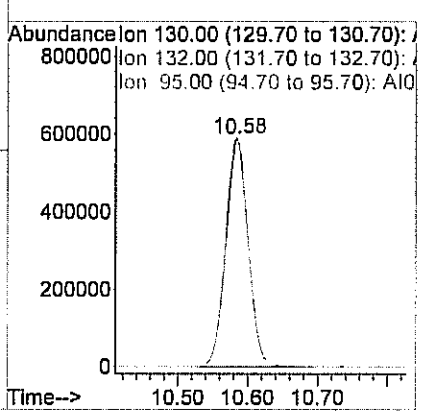


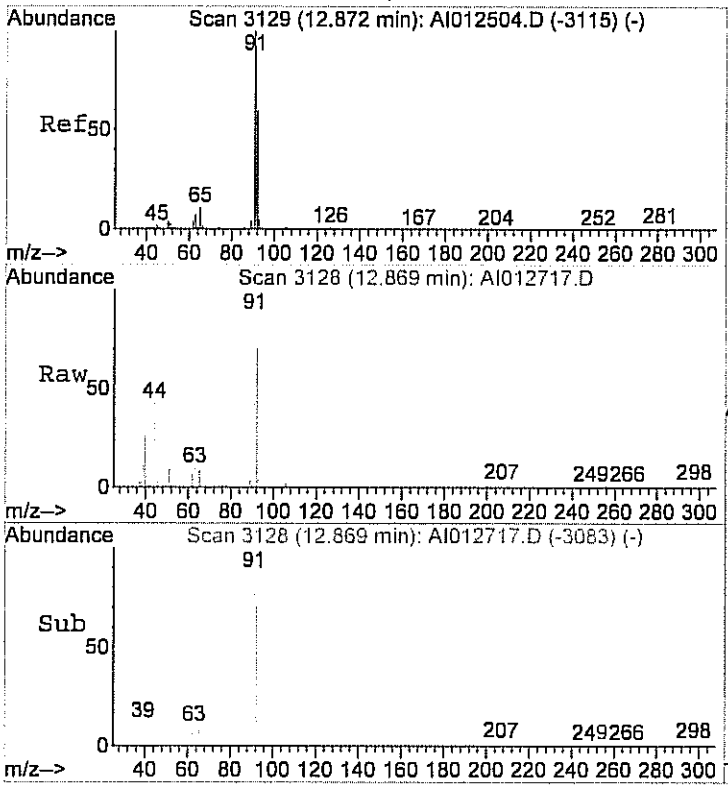


#38
Trichloroethene
Concen: 67.80 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:130 Resp: 1309324

Ion	Ratio	Lower	Upper
130	100		
132	97.9	77.0	117.0
95	99.8	70.8	110.8

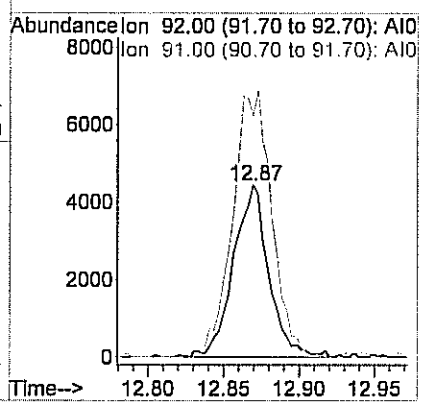


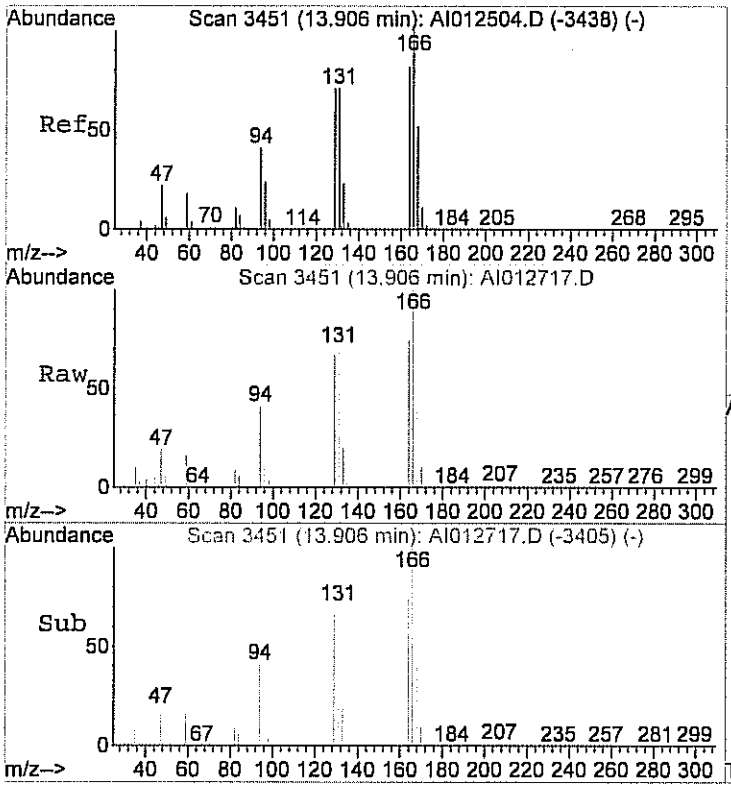


#45
Toluene
Concen: 0.41 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 92 Resp: 7197

Ion	Ratio	Lower	Upper
92	100		
91	172.2	150.0	190.0

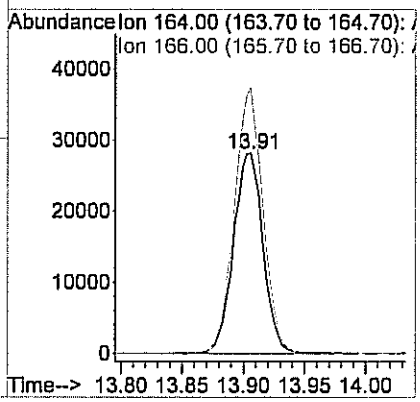


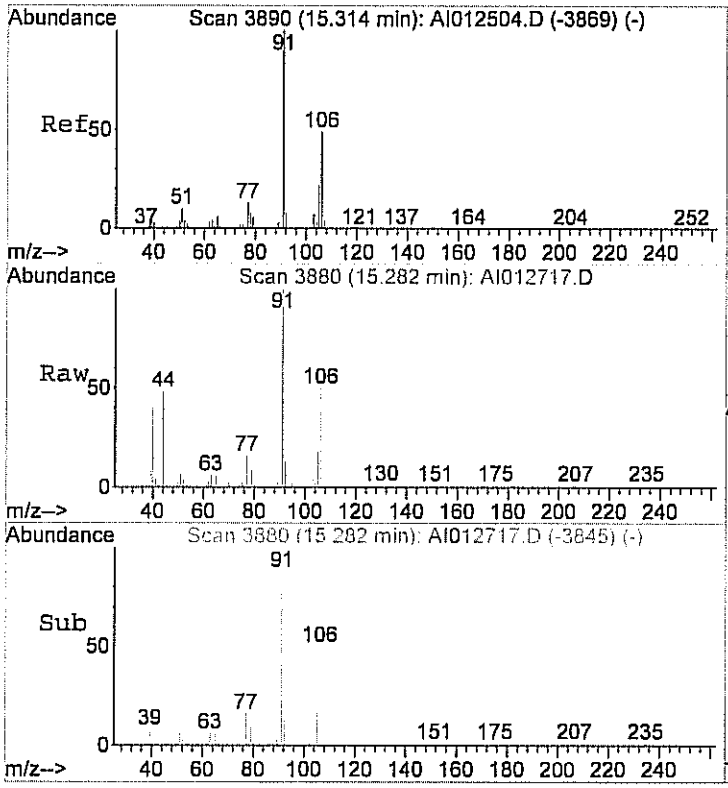


#50
Tetrachloroethylene
Concen: 2.35 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:164 Resp: 47092

Ion	Ratio	Lower	Upper
164	100		
166	128.6	109.0	149.0

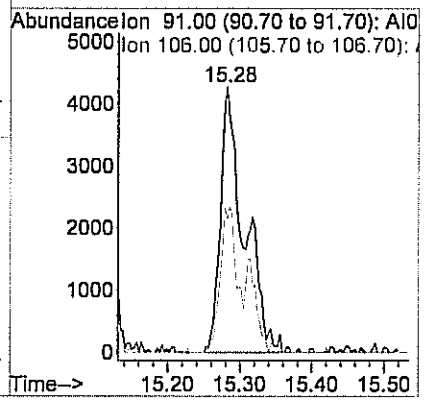


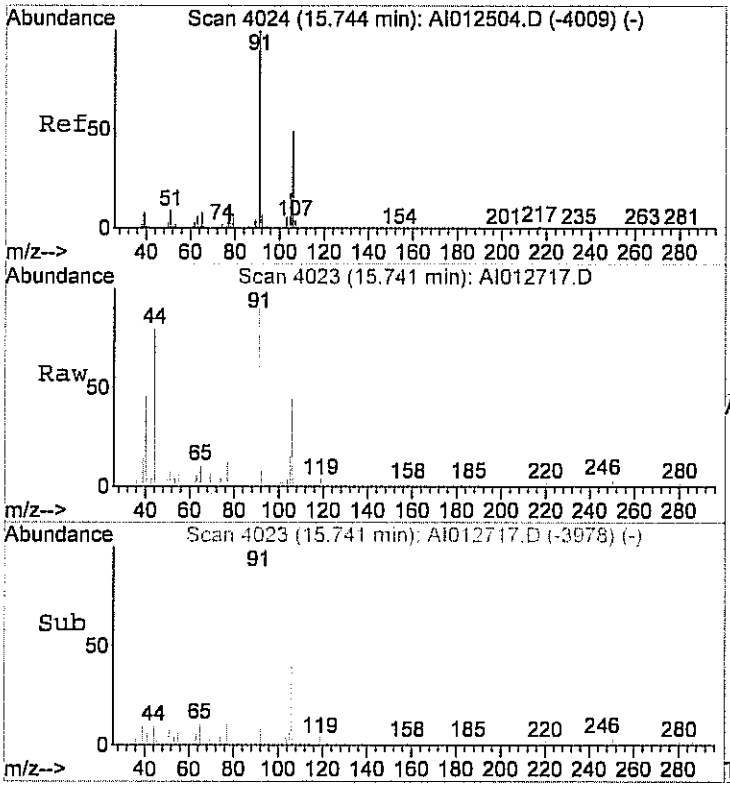


#53
m&p-xylene
Concen: 0.36 ppb m
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 91 Resp: 9876

Ion	Ratio	Lower	Upper
91	100		
106	0.0	29.9	69.9#

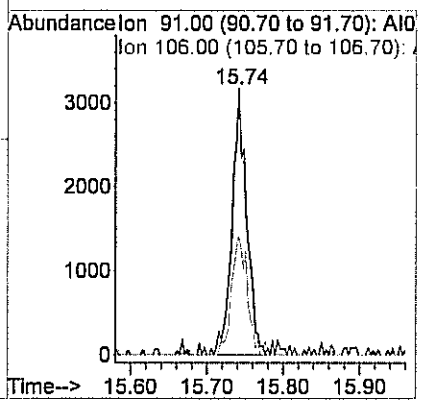


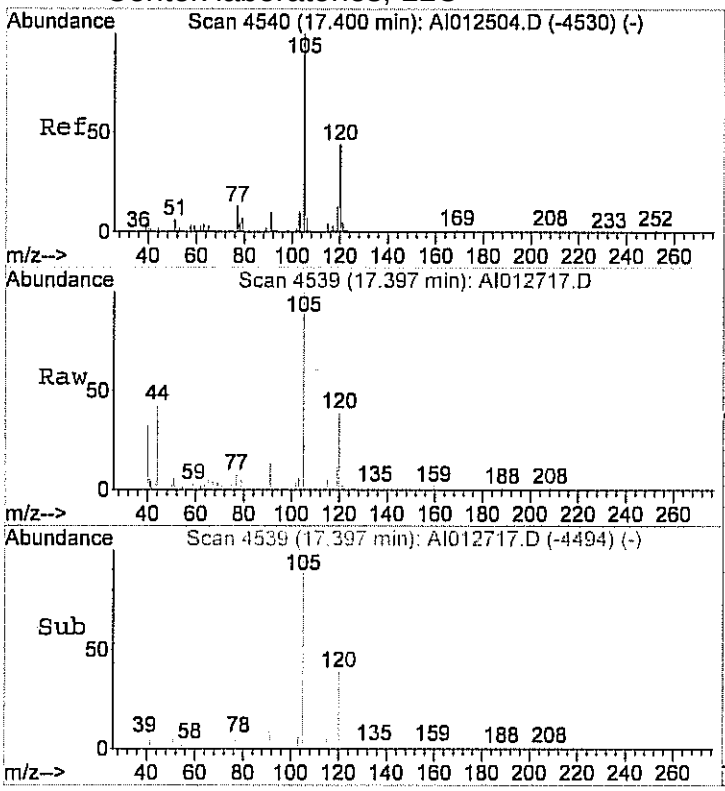


#56
o-xylene
Concen: 0.14 ppb m
RT: 15.74 min Scan# 4023
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 91 Resp: 4551

Ion	Ratio	Lower	Upper
91	100		
106	0.0	29.0	69.0#

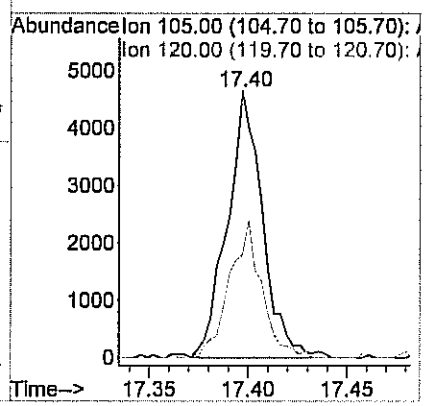




#61
1,2,4-trimethylbenzene
Concen: 0.27 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:105 Resp: 5750

Ion	Ratio	Lower	Upper
105	100		
120	47.4	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012718.D Vial: 7
Acq On : 27 Jan 2011 7:34 pm Operator: RJP
Sample : C1101031-003A 40X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 19:55:44 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.55	128	17679	1.00	ppb	-0.01
30) 1,4-difluorobenzene	9.89	114	42833	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	34836	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	16534	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
12) Acetone	4.28	58	2491m	0.52	ppb	
38) Trichloroethene	10.58	130	122910	6.54	ppb	94
50) Tetrachloroethylene	13.90	164	5117	0.31	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

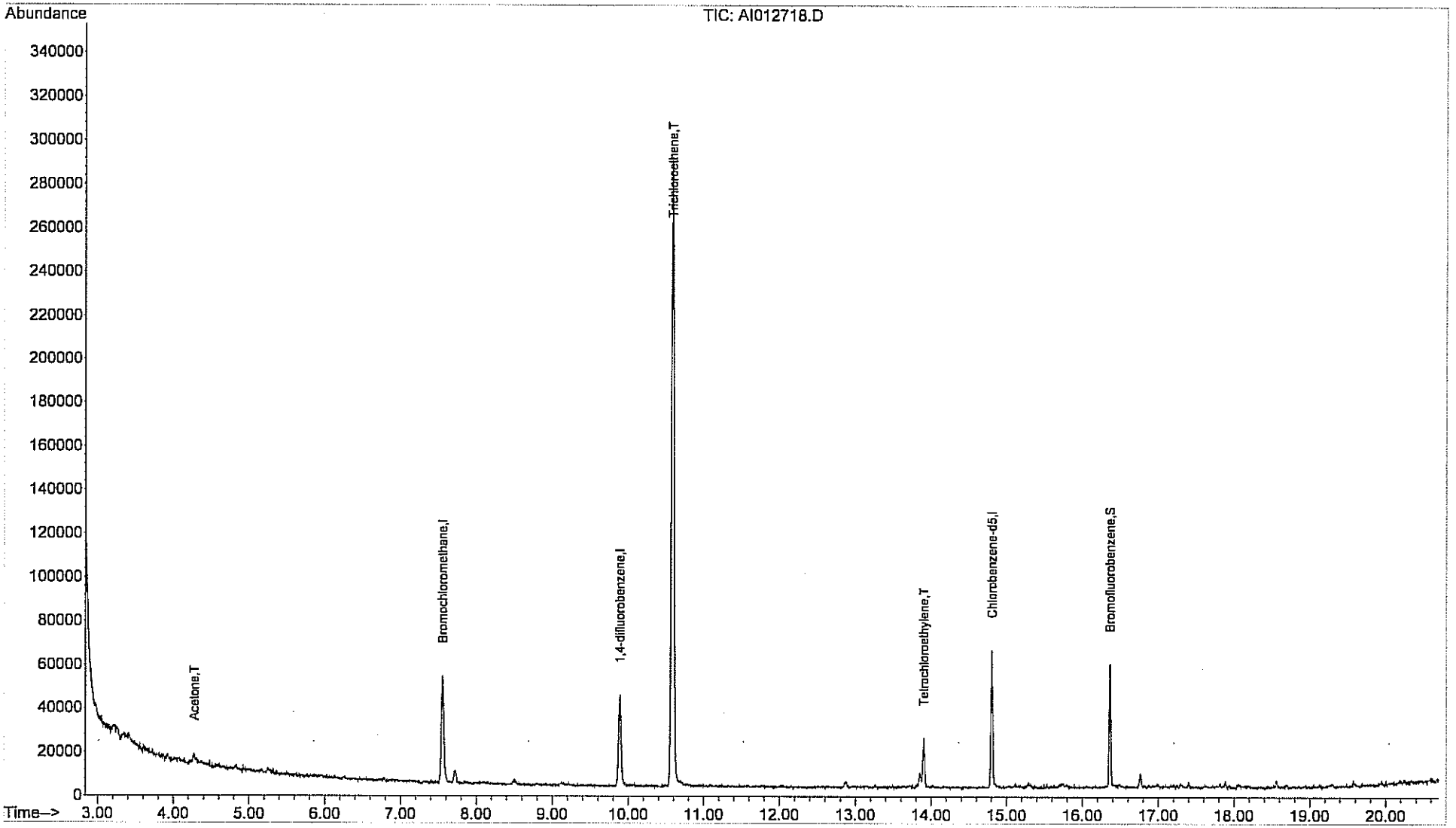
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012718.D
Acq On : 27 Jan 2011 7:34 pm
Sample : C1101031-003A 40X
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:20 2011

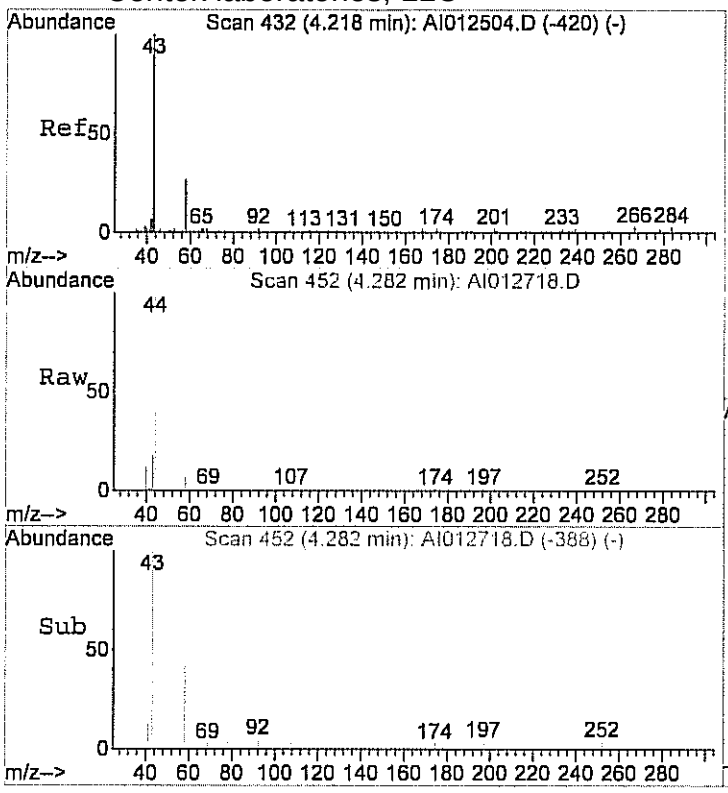
Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



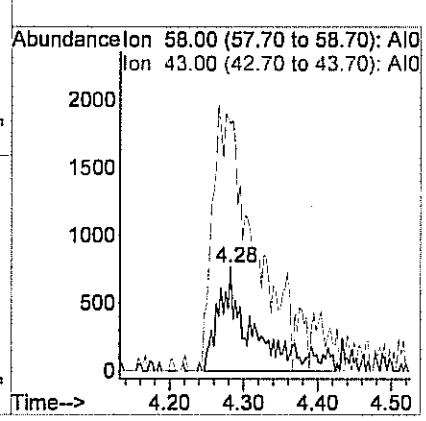
Centek laboratories, LLC

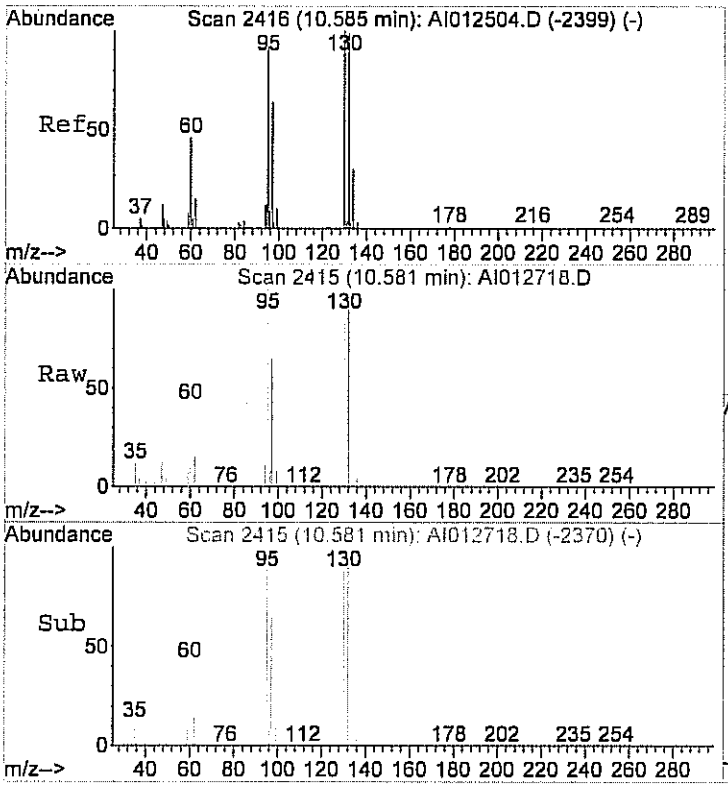


#12
Acetone
Concen: 0.52 ppb m
RT: 4.28 min Scan# 452
Delta R.T. 0.05 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion: 58 Resp: 2491

Ion	Ratio	Lower	Upper
58	100		
43	284.1	329.0	389.0#

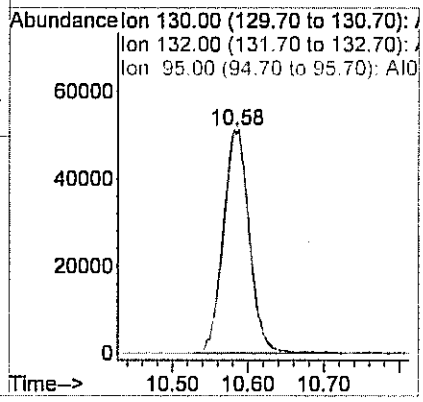


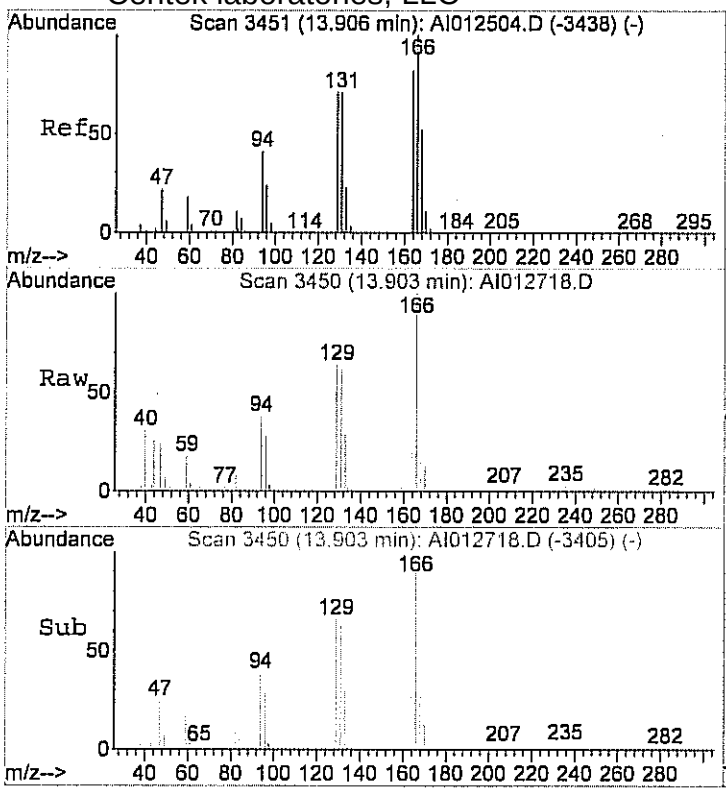


#38
Trichloroethene
Concen: 6.54 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion:130 Resp: 122910

Ion	Ratio	Lower	Upper
130	100		
132	98.1	77.0	117.0
95	100.4	70.8	110.8

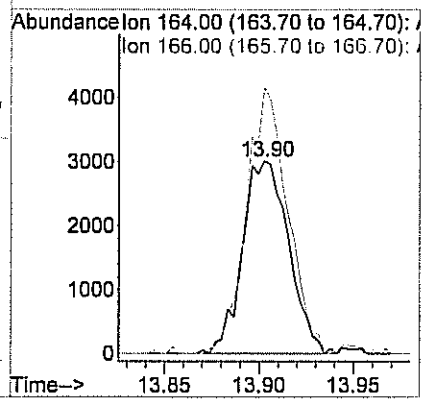




#50
Tetrachloroethylene
Concen: 0.31 ppb
RT: 13.90 min Scan# 3450
Delta R.T. -0.01 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion:164 Resp: 5117

Ion	Ratio	Lower	Upper
164	100		
166	122.7	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012811.D Vial: 3
Acq On : 28 Jan 2011 4:57 pm Operator: RJP
Sample : C1101031-003A 810X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 17:18:03 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

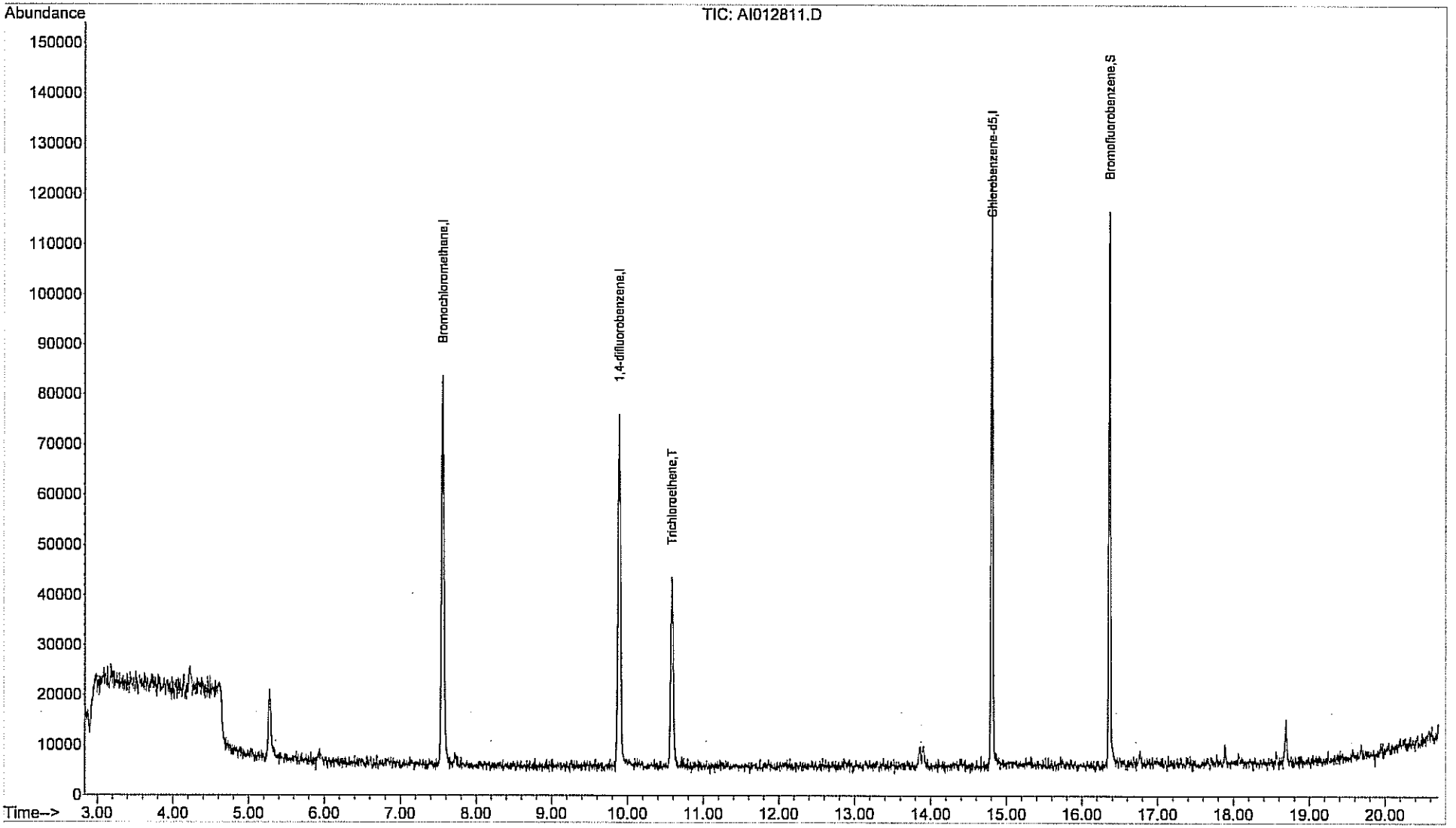
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	28195	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	71974	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	66131	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	31811	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.59	130	15948	0.50	ppb	93

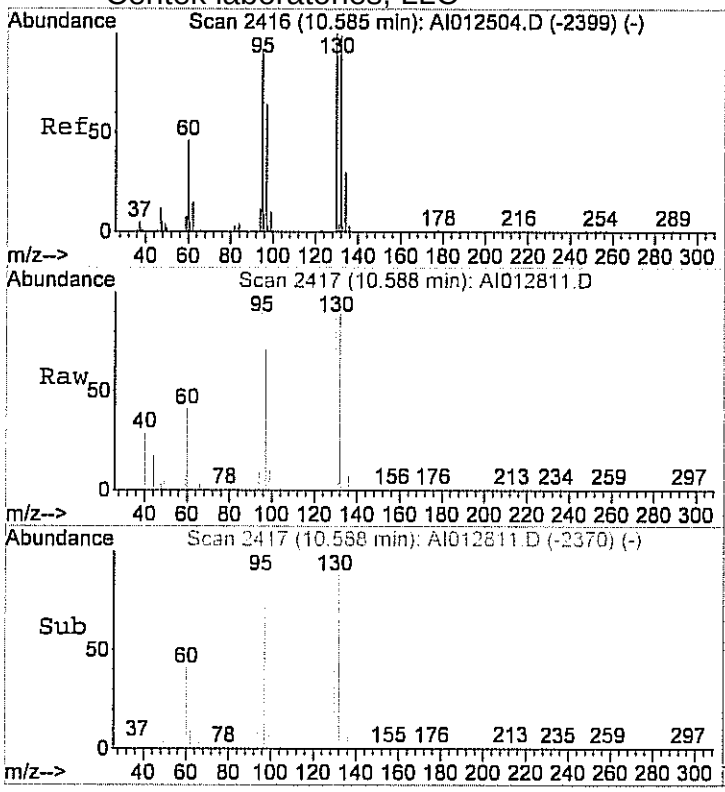
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012811.D Vial: 3
Acq On : 28 Jan 2011 4:57 pm Operator: RJP
Sample : C1101031-003A 810X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:20 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

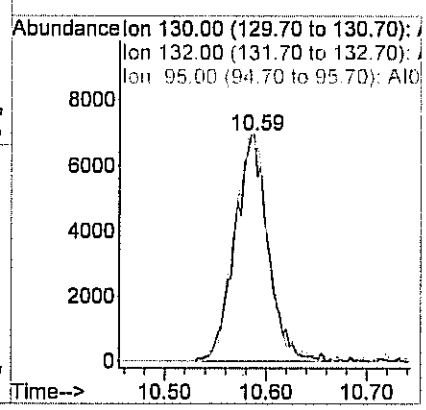




#38
Trichloroethene
Concen: 0.50 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012811.D
Acq: 28 Jan 2011 4:57 pm

Tgt Ion:130 Resp: 15948

Ion	Ratio	Lower	Upper
130	100		
132	100.2	77.0	117.0
95	101.0	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.2	1.5		ppbV	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	320	360	J	ppbV	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Acetone	12	3.0		ppbV	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzene	0.74	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroform	58	14		ppbV	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	16	1.5		ppbV	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.71	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 11	0.49	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 113	0.26	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 12	0.68	0.15		ppbV	1	1/25/2011 8:54:00 PM
Heptane	120	14		ppbV	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Hexane	180	14		ppbV	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
m&p-Xylene	2.1	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	86	14		ppbV	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	170	14		ppbV	90	1/27/2011 8:39:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Trichloroethene	5000	360		ppbV	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	34	8.3		ug/m3	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	1500	1700	J	ug/m3	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Acetone	30	7.2		ug/m3	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:54:00 PM
Benzene	2.4	0.49		ug/m3	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:54:00 PM
Chloroform	290	69		ug/m3	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	64	6.0		ug/m3	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
Ethylbenzene	3.1	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Freon 11	2.8	0.86		ug/m3	1	1/25/2011 8:54:00 PM
Freon 113	2.0	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.4	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Heptane	490	58		ug/m3	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Hexane	640	50		ug/m3	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:54:00 PM
m&p-Xylene	9.2	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	600	97		ug/m3	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	510	42		ug/m3	90	1/27/2011 8:39:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Trichloroethene	27000	2000		ug/m3	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.65	0.39		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012522.D Vial: 5
Acq On : 25 Jan 2011 8:54 pm Operator: RJP
Sample : C1101031-004A Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 21:15:14 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	22139	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	89465	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	83860	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	43717m	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	44163	0.68	ppb		97
6) Vinyl Chloride	3.18	62	3115	0.25	ppb		94
11) Freon 11	4.06	101	18593	0.49	ppb		99
12) Acetone	4.20	58	79272	13.28	ppb	#	40
15) Freon 113	4.83	101	11594	0.26	ppb		94
18) Carbon disulfide	5.16	76	13842	0.25	ppb		91
24) cis-1,2-dichloroethene	7.14	61	413601	19.20	ppb		94
25) Hexane	6.79	41	3331218	219.15	ppb	#	36
27) Chloroform	7.73	83	2663667	57.24	ppb	#	69
28) Tetrahydrofuran	7.85	42	3961393	406.89	ppb	#	71
31) 1,1,1-trichloroethane	8.50	97	353122	6.19	ppb		99
34) Benzene	9.11	78	45682	0.74	ppb		95
36) 2,2,4-trimethylpentane	10.09	57	19272797	288.77	ppb	#	63
37) Heptane	10.55	43	3484444	157.13	ppb		94
38) Trichloroethene	10.61	130	33927068	863.80	ppb		93
50) Tetrachloroethylene	13.91	164	3294182	81.90	ppb		99
52) Ethylbenzene	15.12	91	47463	0.71	ppb		95
53) m&p-xylene	15.29	91	114489	2.09	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

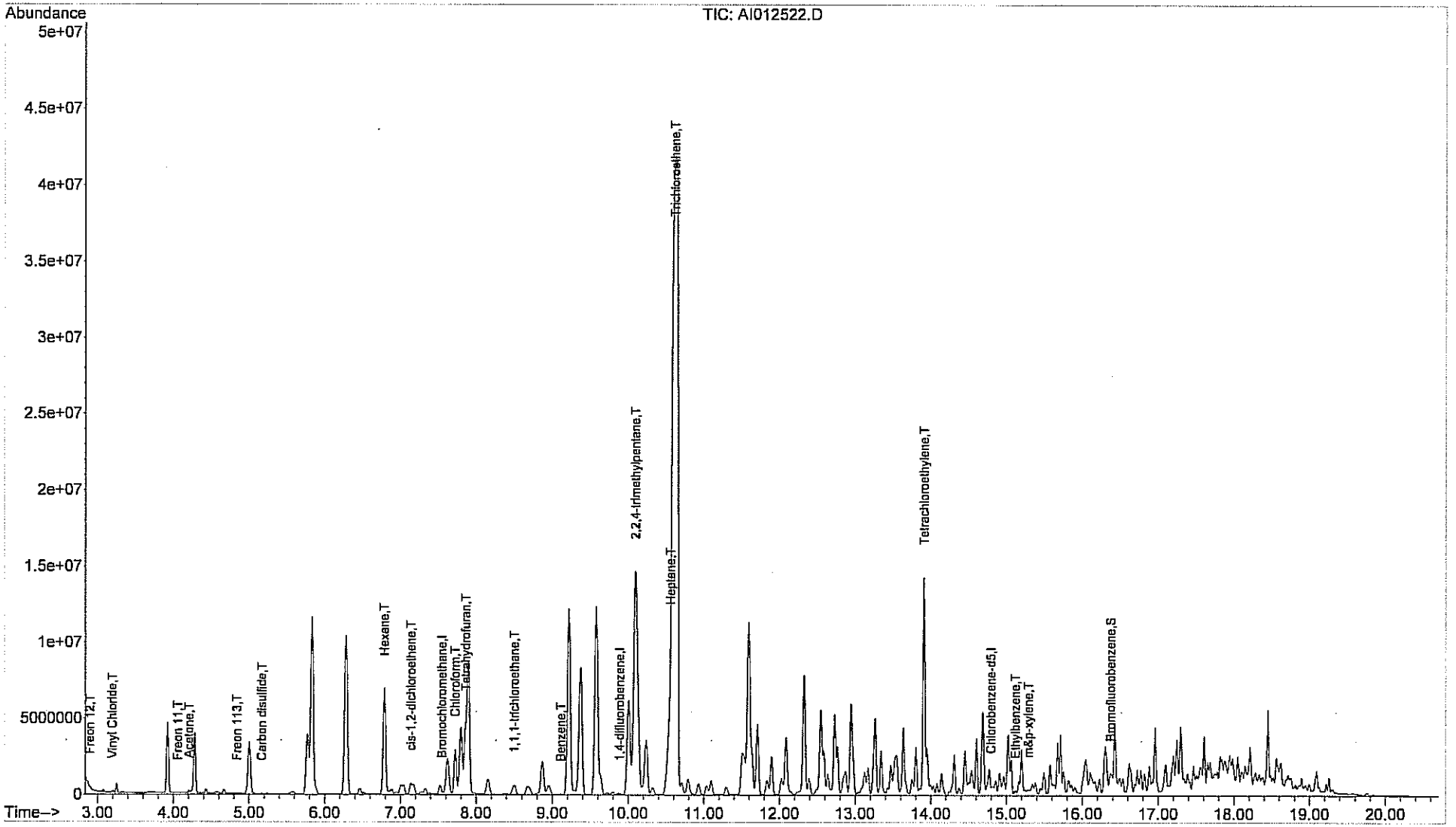
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012522.D
Acq On : 25 Jan 2011 8:54 pm
Sample : C1101031-004A
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:23 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

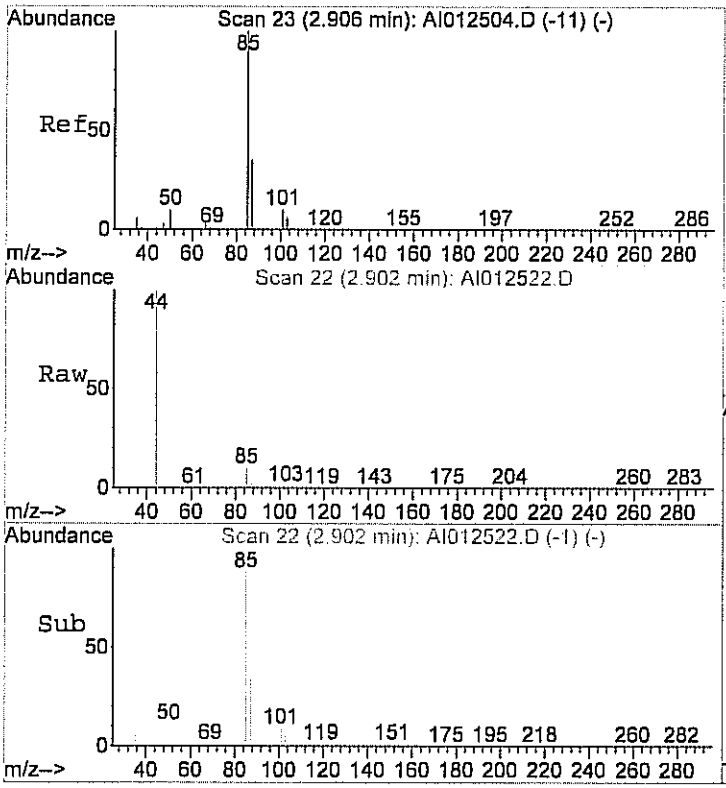
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012522.D A106_1UG.M Tue Feb 08 15:44:35 2011 MSD1 Page 2

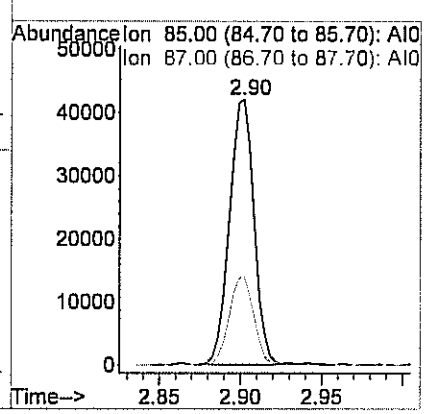
Centek laboratories, LLC

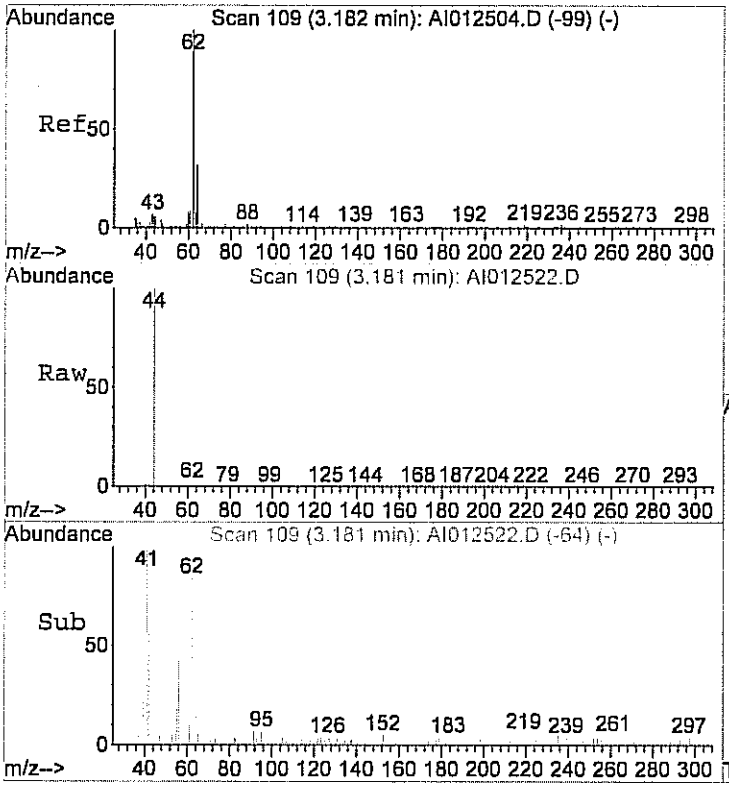


#3
Freon 12
Concen: 0.68 ppb
RT: 2.90 min Scan# 22
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 85 Resp: 44163

Ion	Ratio	Lower	Upper
85	100		
87	33.8	12.2	52.2

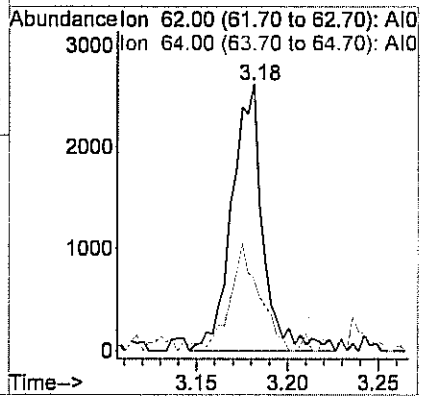


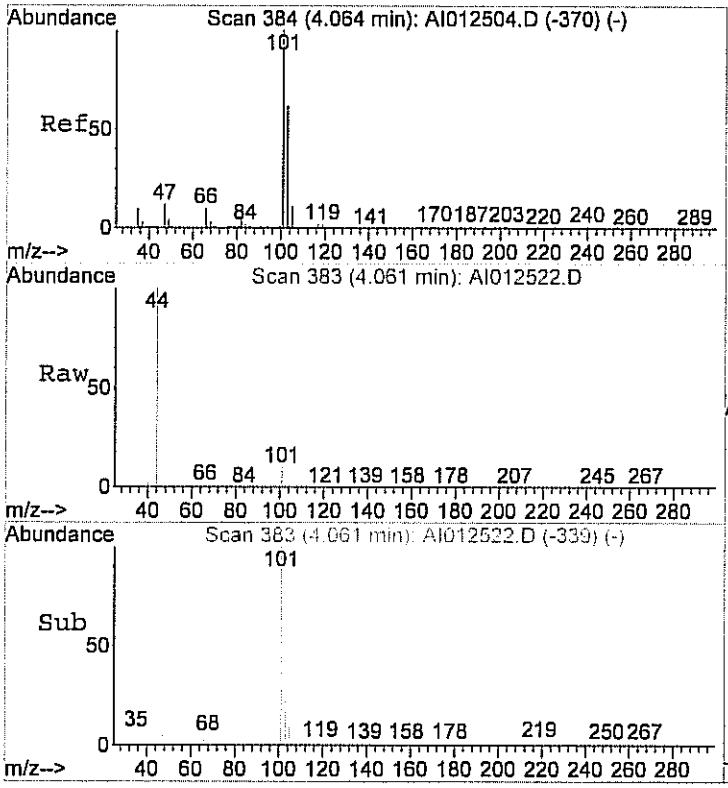


#6
Vinyl Chloride
Concen: 0.25 ppb
RT: 3.18 min Scan# 109
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 62 Resp: 3115

Ion	Ratio	Lower	Upper
62	100		
64	37.4	4.0	64.0

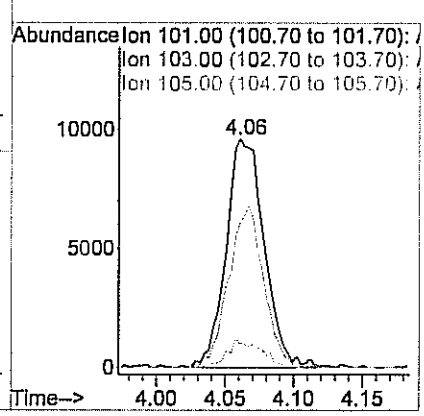


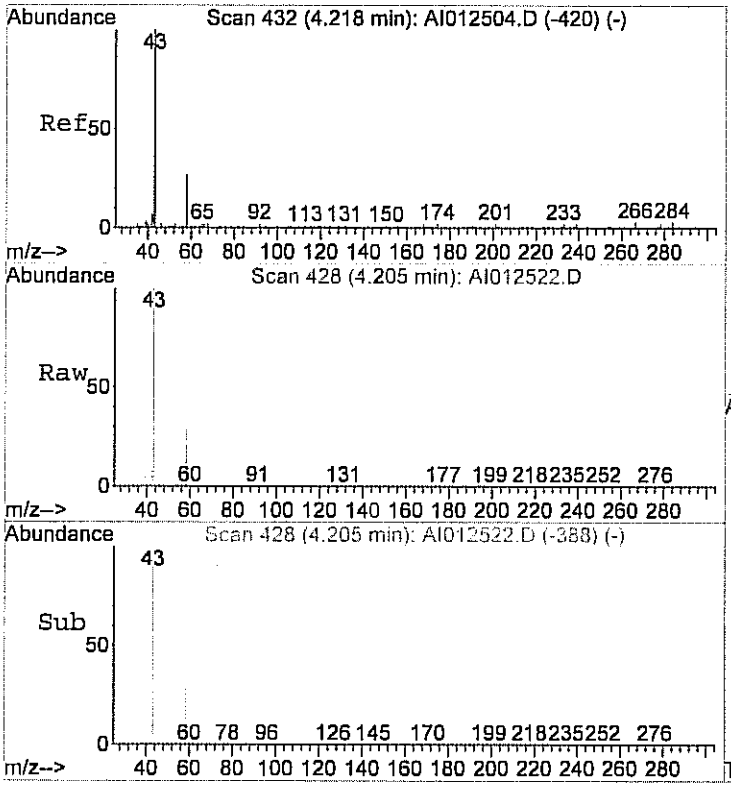


#11
Freon 11
Concen: 0.49 ppb
RT: 4.06 min Scan# 383
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:101 Resp: 18593

Ion	Ratio	Lower	Upper
101	100		
103	65.3	46.3	86.3
105	11.0	0.0	31.0

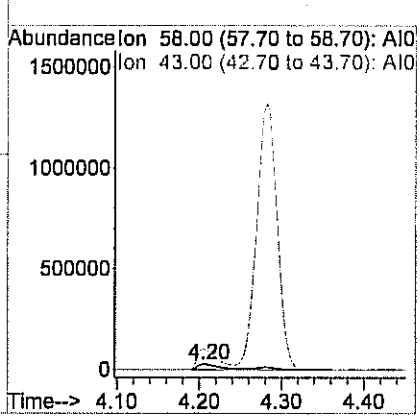


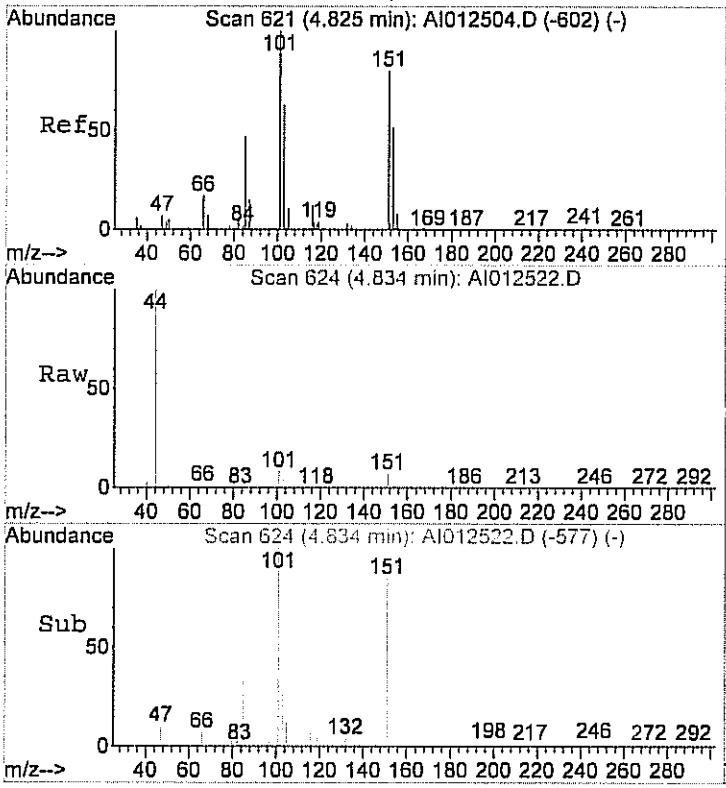


#12
Acetone
Concen: 13.28 ppb
RT: 4.20 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 58 Resp: 79272

Ion	Ratio	Lower	Upper
58	100		
43	226.6	329.0	389.0#

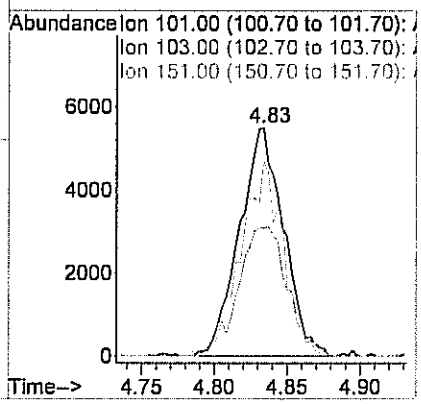


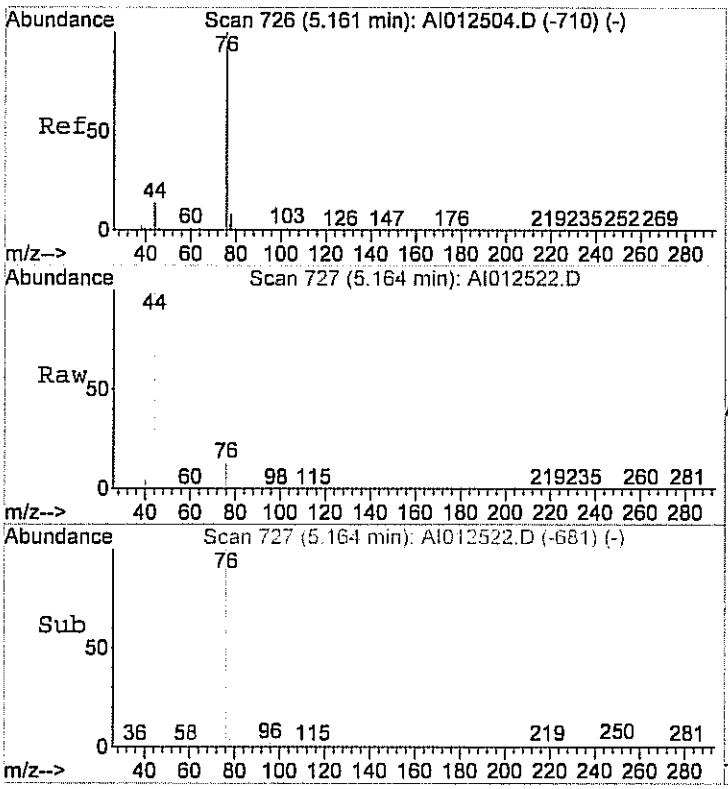


#15
Freon 113
Concen: 0.26 ppb
RT: 4.83 min Scan# 624
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:101 Resp: 11594

Ion	Ratio	Lower	Upper
101	100		
103	62.3	44.7	84.7
151	83.2	71.0	111.0

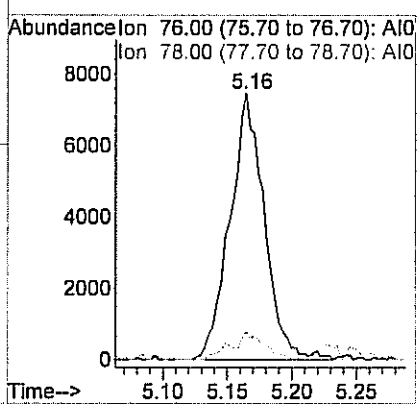


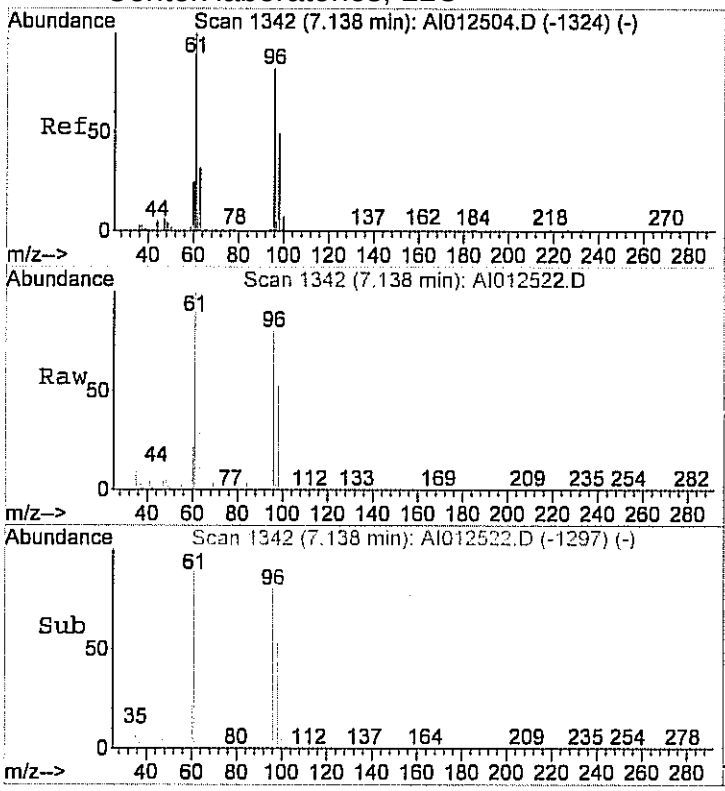


#18
Carbon disulfide
Concen: 0.25 ppb
RT: 5.16 min Scan# 727
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 76 Resp: 13842

Ion	Ratio	Lower	Upper
76	100		
78	6.7	0.0	30.1

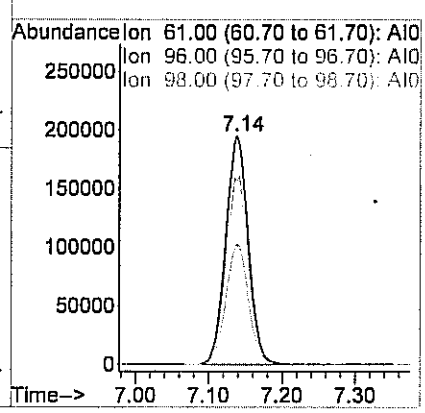


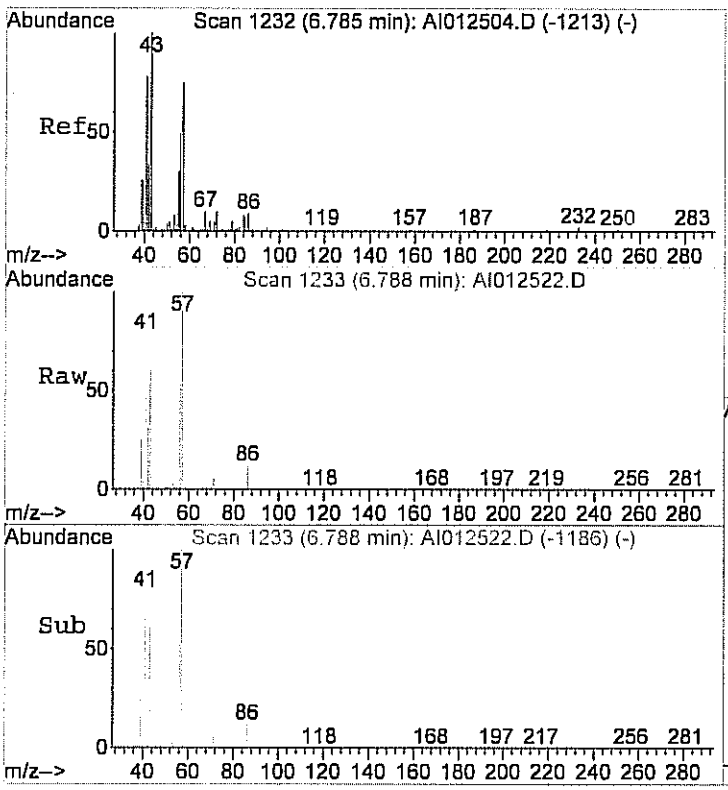


#24
cis-1,2-dichloroethene
Concen: 19.20 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 61 Resp: 413601

Ion	Ratio	Lower	Upper
61	100		
96	82.7	68.1	108.1
98	53.4	37.3	77.3

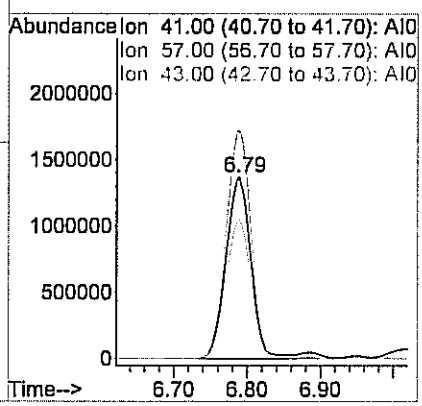


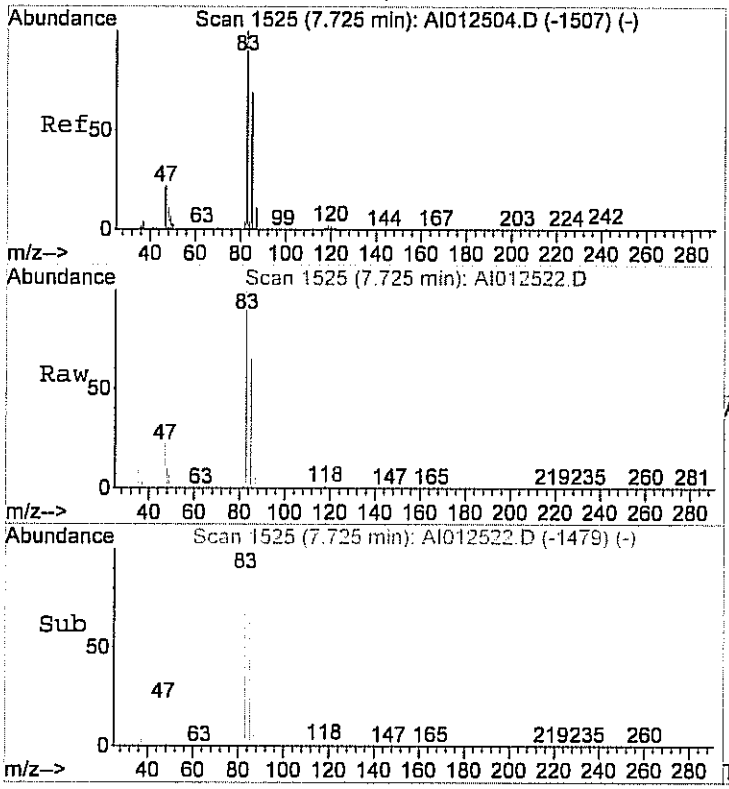


#25
Hexane
Concen: 219.15 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 41 Resp: 3331218

Ion	Ratio	Lower	Upper
41	100		
57	120.6	114.8	154.8
43	75.0	213.3	253.3#

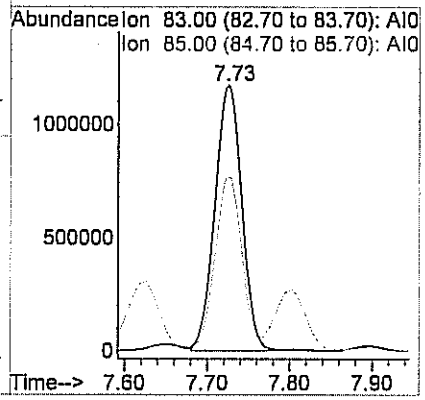


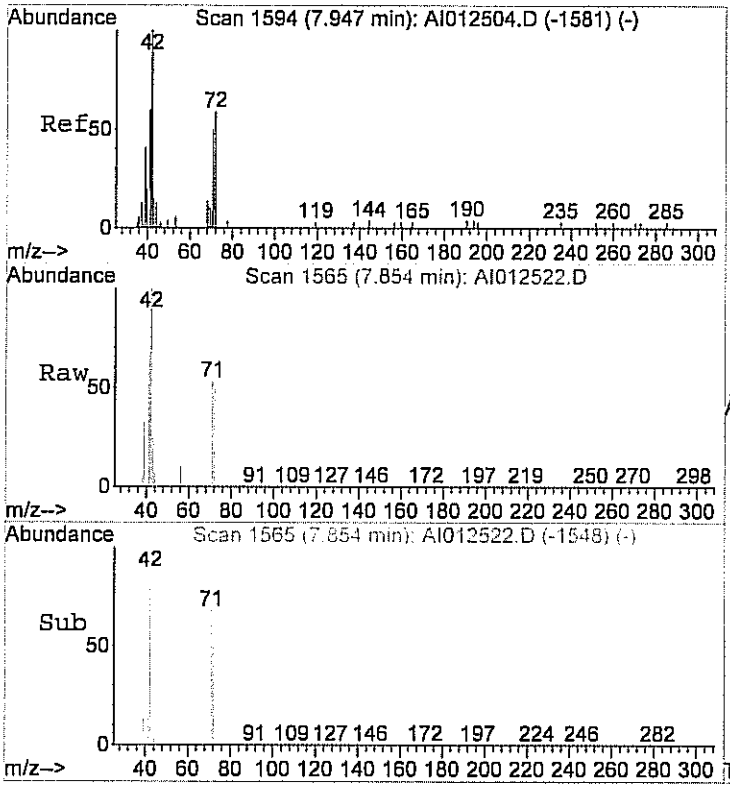


#27
Chloroform
Concen: 57.24 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 83 Resp: 2663667

Ion	Ratio	Lower	Upper
83	100		
85	90.9	46.5	86.5#

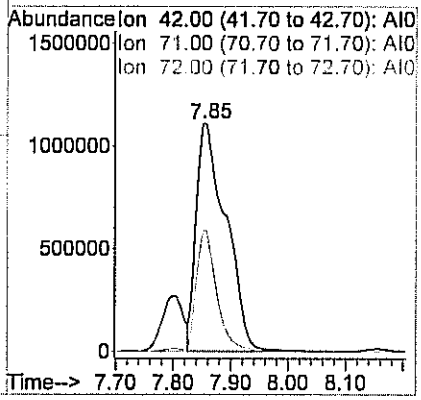


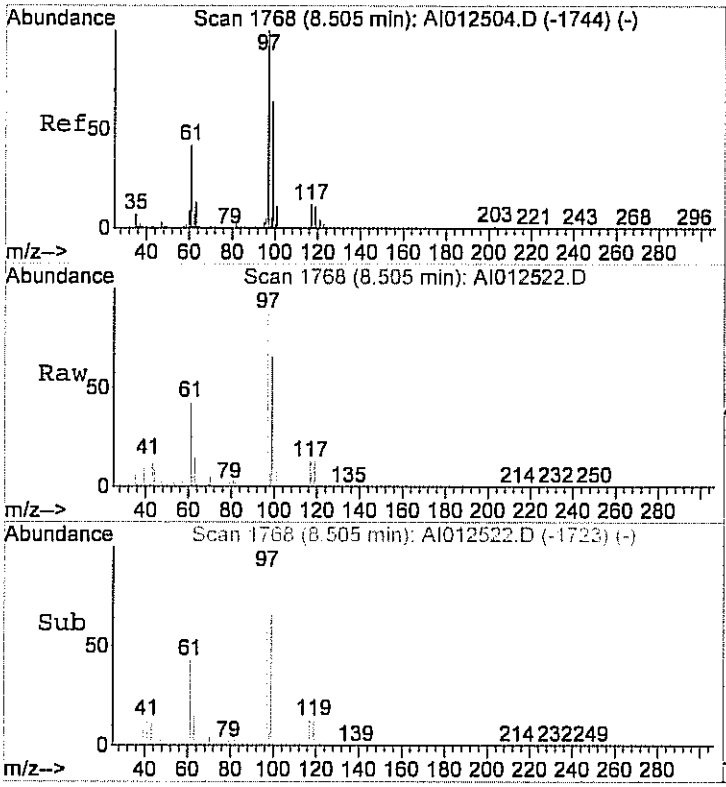


#28
Tetrahydrofuran
Concen: 406.89 ppb
RT: 7.85 min Scan# 1565
Delta R.T. -0.10 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 42 Resp: 3961393

Ion	Ratio	Lower	Upper
42	100		
71	37.2	37.9	77.9#
72	35.8	38.0	78.0#

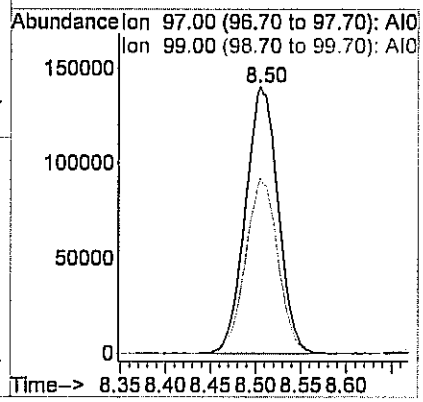


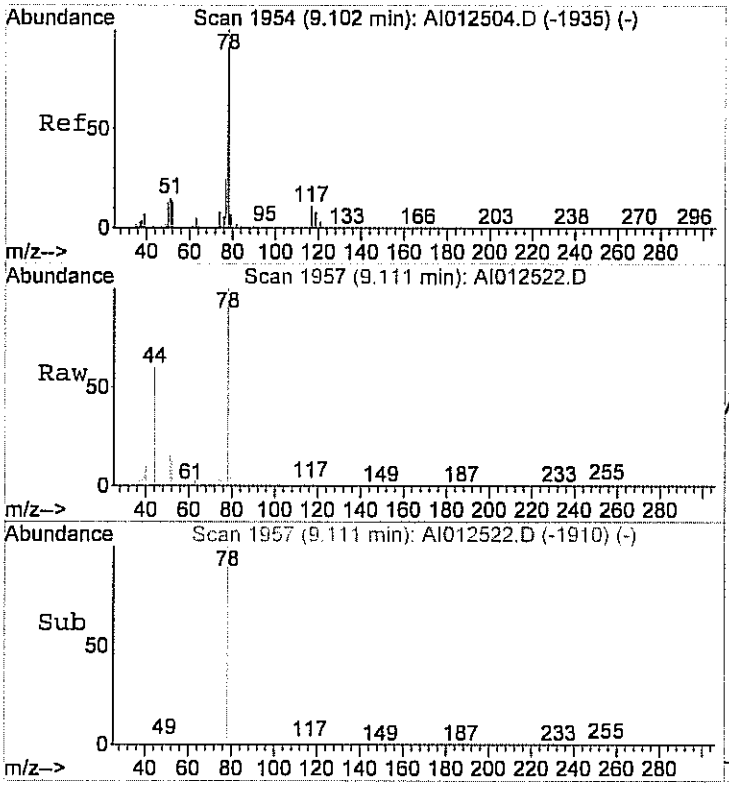


#31
1,1,1-trichloroethane
Concen: 6.19 ppb
RT: 8.50 min Scan# 1768
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 97 Resp: 353122

Ion	Ratio	Lower	Upper
97	100		
99	64.8	45.4	85.4

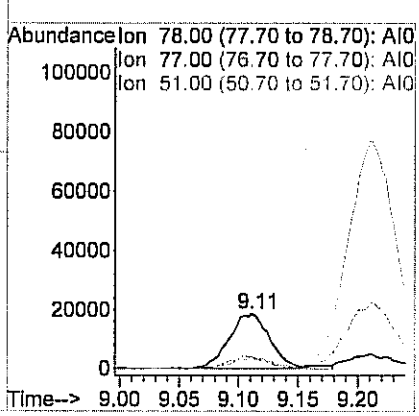


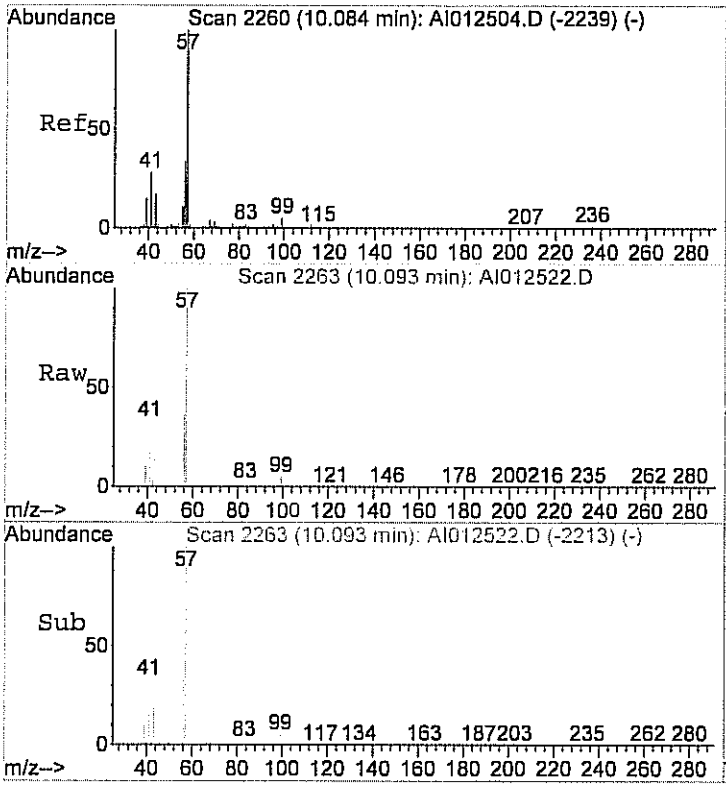


#34
Benzene
Concen: 0.74 ppb
RT: 9.11 min Scan# 1957
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 78 Resp: 45682

Ion	Ratio	Lower	Upper
78	100		
77	20.5	2.6	42.6
51	16.4	0.0	34.0

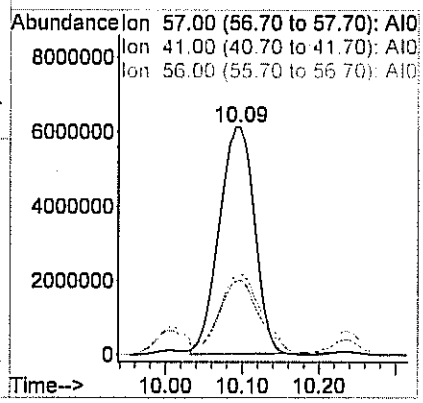


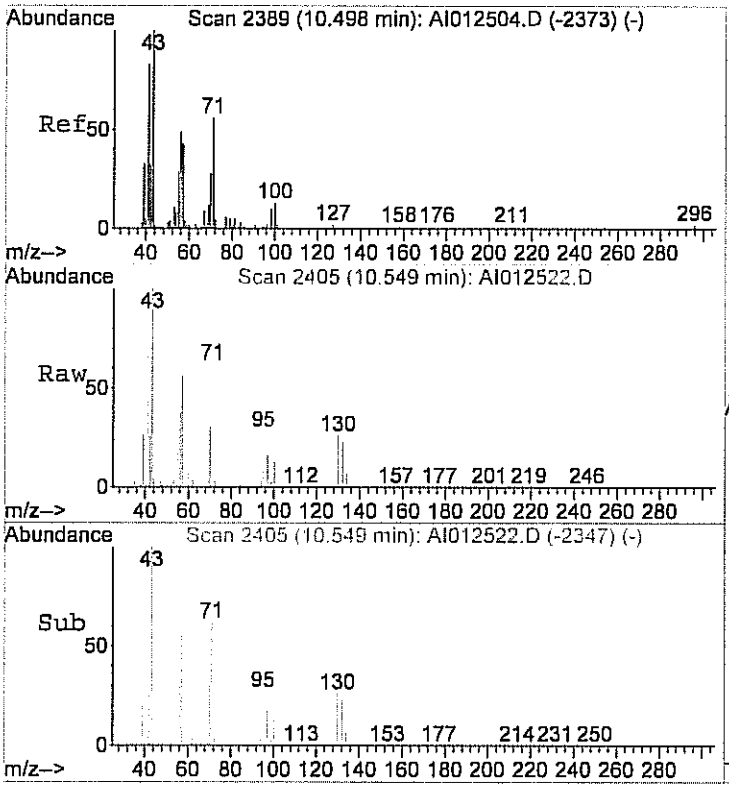


#36
2,2,4-trimethylpentane
Concen: 288.77 ppb
RT: 10.09 min Scan# 2263
Delta R.T. 0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 57 Resp:19272797

Ion	Ratio	Lower	Upper
57	100		
41	50.4	12.1	52.1
56	57.4	13.7	53.7#

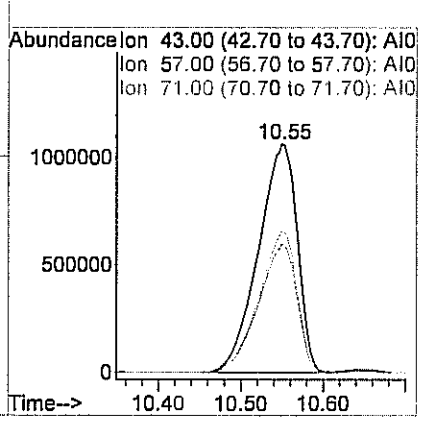


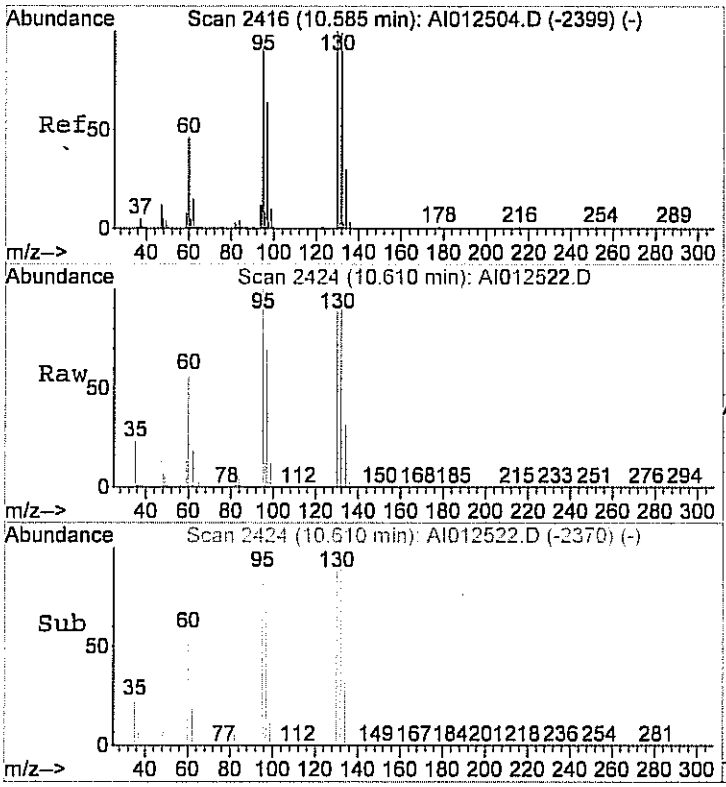


#37
Heptane
Concen: 157.13 ppb
RT: 10.55 min Scan# 2405
Delta R.T. 0.03 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 43 Resp: 3484444

Ion	Ratio	Lower	Upper
43	100		
57	55.7	37.9	77.9
71	60.3	46.6	86.6

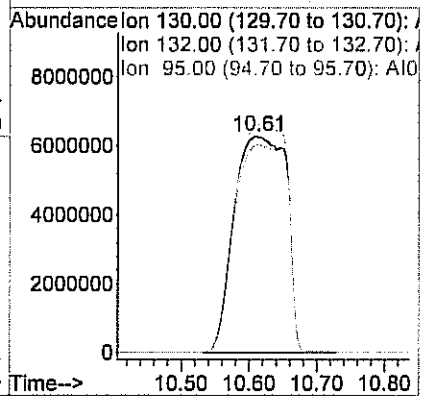


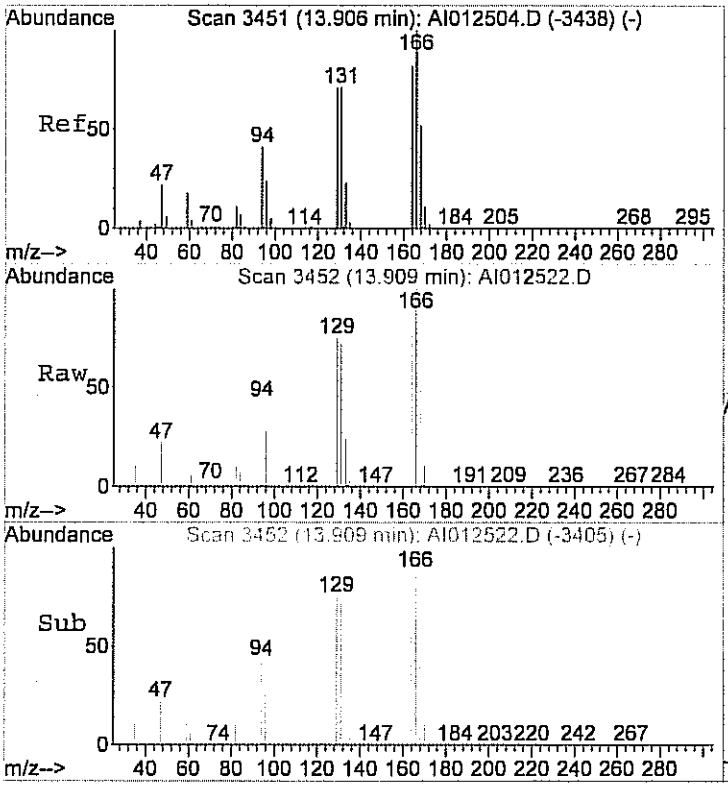


#38
Trichloroethene
Concen: 863.80 ppb
RT: 10.61 min Scan# 2424
Delta R.T. 0.02 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:130 Resp:33927068

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	104.3	70.8	110.8

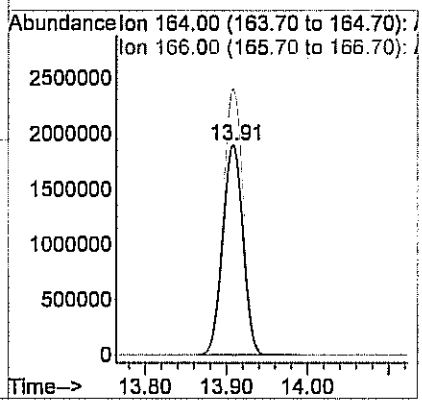


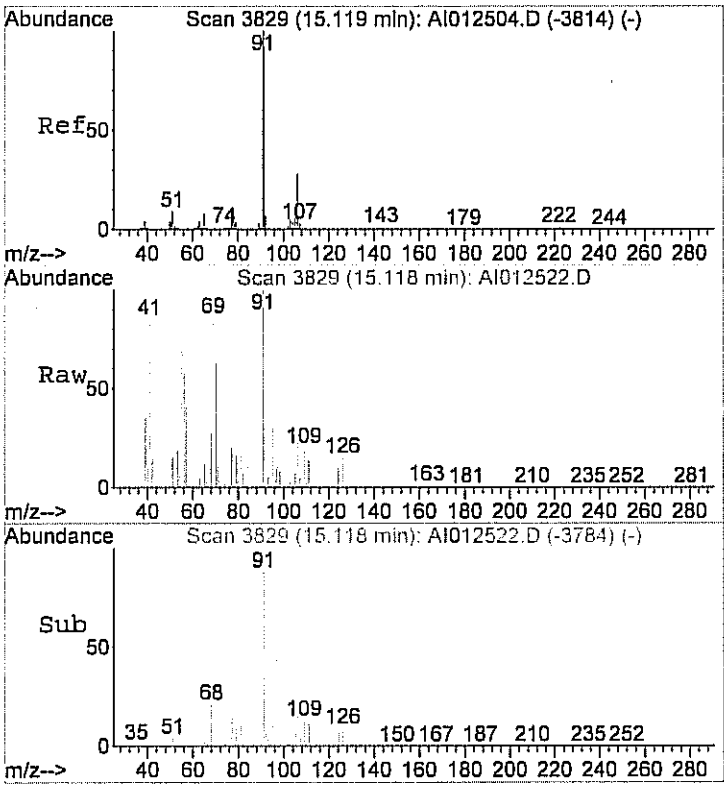


#50
Tetrachloroethylene
Concen: 81.90 ppb
RT: 13.91 min Scan# 3452
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:164 Resp: 3294182

Ion	Ratio	Lower	Upper
164	100		
166	127.3	109.0	149.0

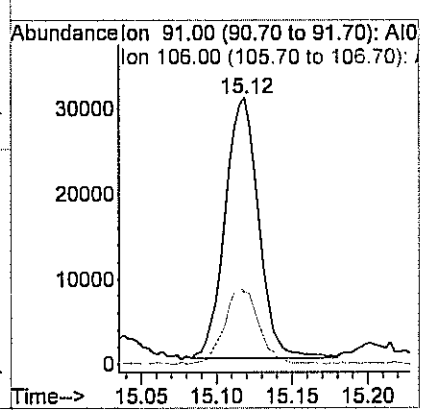


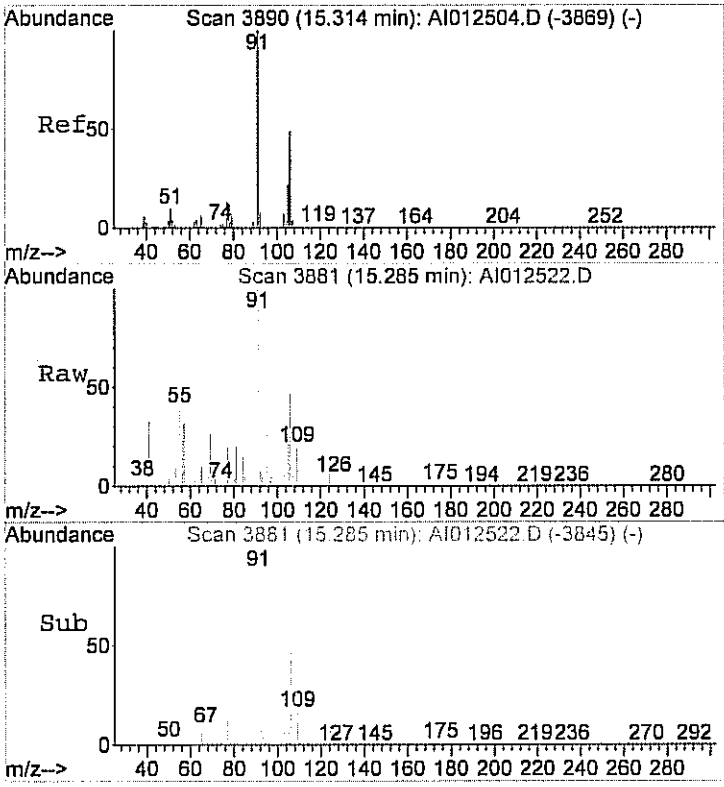


#52
Ethylbenzene
Concen: 0.71 ppb
RT: 15.12 min Scan# 3829
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 91 Resp: 47463

Ion	Ratio	Lower	Upper
91	100		
106	30.0	12.9	52.9

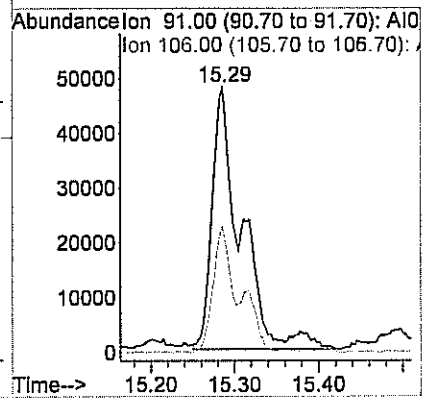




#53
m&p-xylene
Concen: 2.09 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 91 Resp: 114489

Ion	Ratio	Lower	Upper
91	100		
106	43.4	29.9	69.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012719.D Vial: 8
Acq On : 27 Jan 2011 8:06 pm Operator: RJP
Sample : C1101031-004A 10X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 20:27:46 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

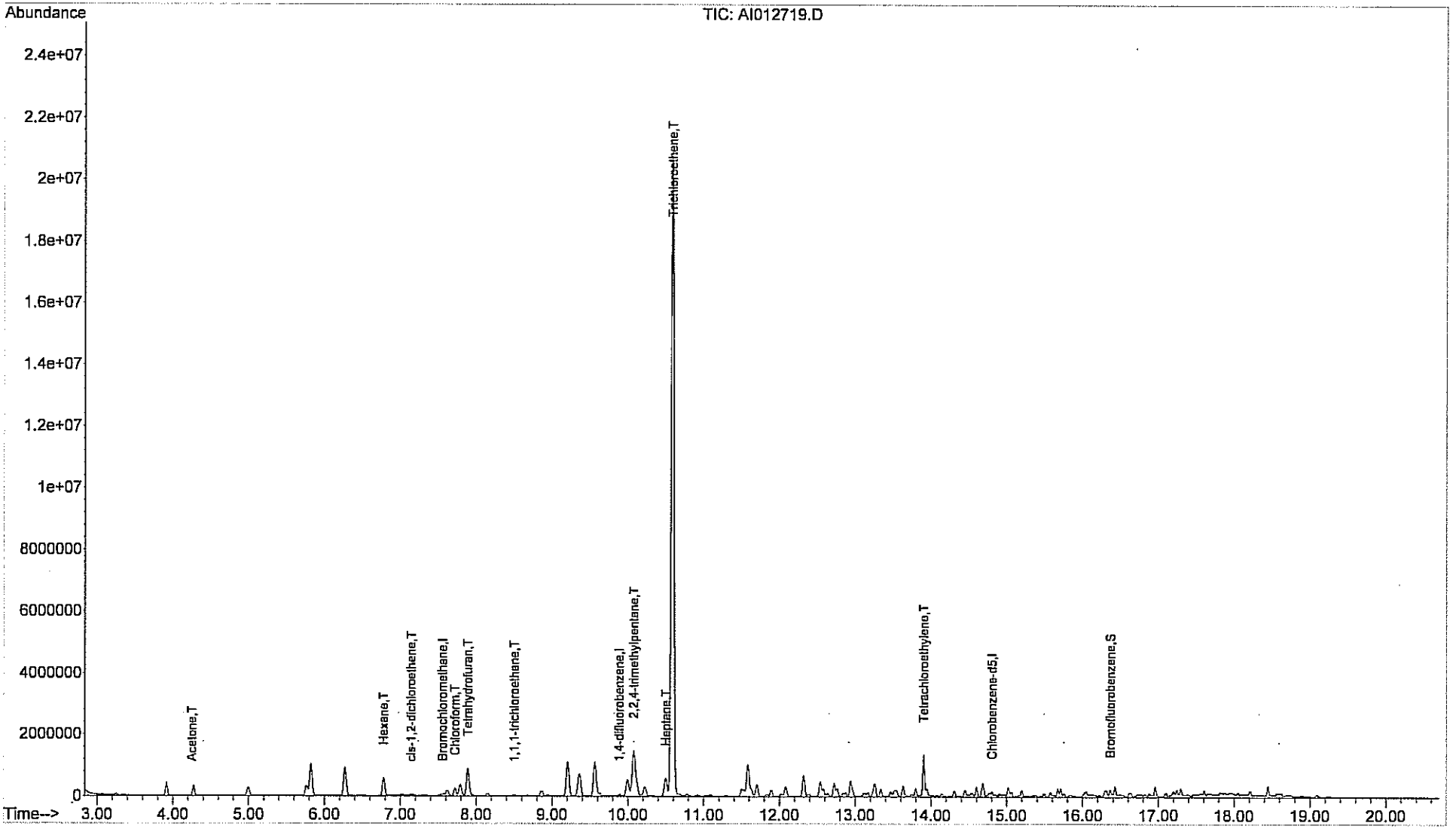
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	19064	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	64461	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	77463	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	46290	1.18	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
12) Acetone	4.24	58	6332	1.23	ppb	#	1
24) cis-1,2-dichloroethene	7.13	61	29660	1.60	ppb		92
25) Hexane	6.78	41	261253	19.96	ppb	#	33
27) Chloroform	7.72	83	219479	5.48	ppb	#	74
28) Tetrahydrofuran	7.89	42	264861	31.59	ppb	#	70
31) 1,1,1-trichloroethane	8.50	97	25361	0.62	ppb		99
36) 2,2,4-trimethylpentane	10.07	57	1758262	36.56	ppb		70
37) Heptane	10.50	43	281346	17.61	ppb		94
38) Trichloroethene	10.59	130	9507888	335.98	ppb		96
50) Tetrachloroethylene	13.90	164	297961	8.02	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

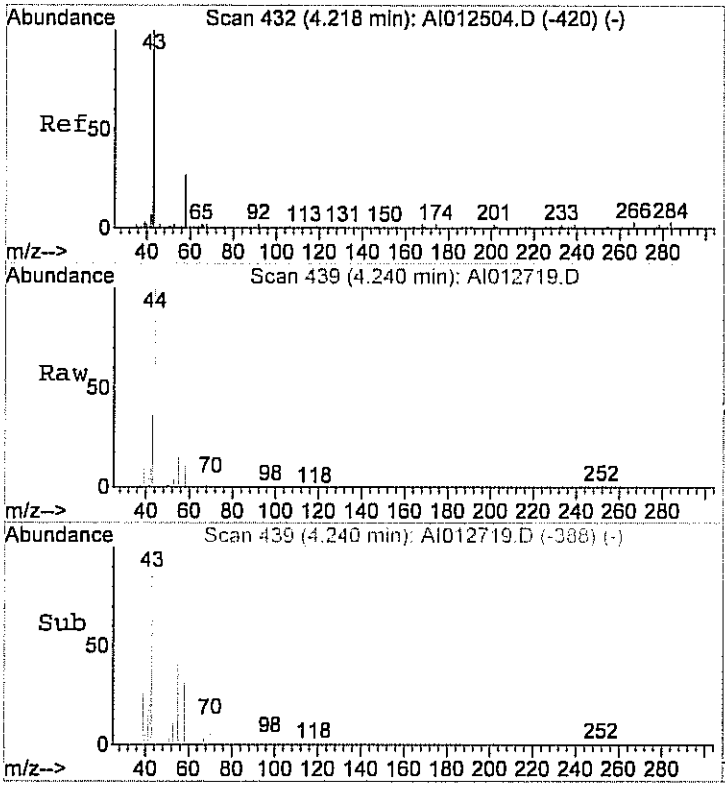
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012719.D Vial: 8
Acq On : 27 Jan 2011 8:06 pm Operator: RJP
Sample : C1101031-004A 10X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:22 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



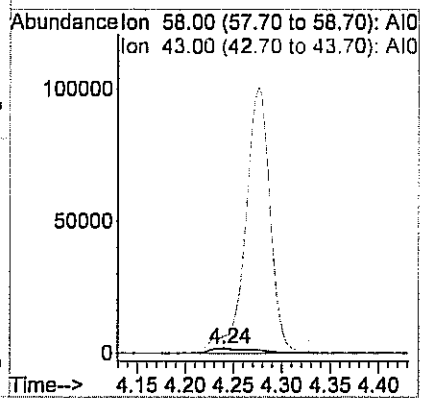
Centek laboratories, LLC

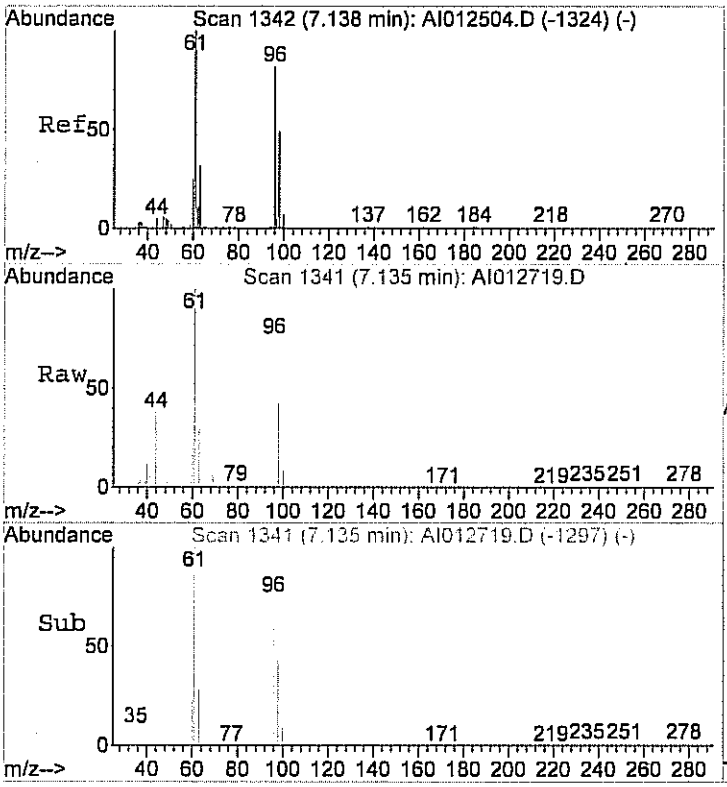


#12
Acetone
Concen: 1.23 ppb
RT: 4.24 min Scan# 439
Delta R.T. 0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 58 Resp: 6332

Ion	Ratio	Lower	Upper
58	100		
43	2838.8	329.0	389.0#

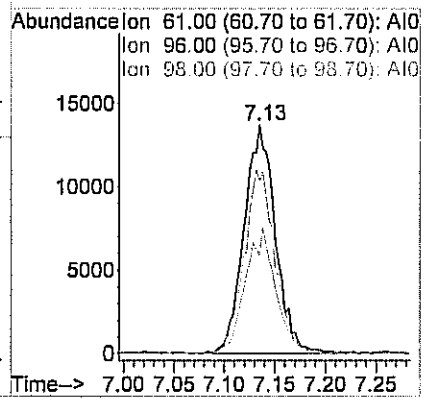


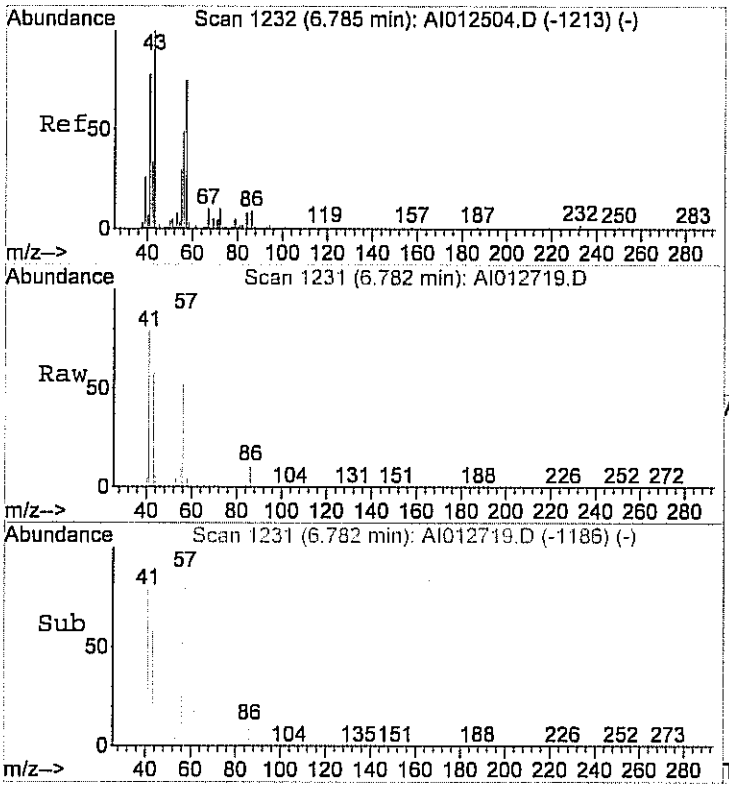


#24
cis-1,2-dichloroethene
Concen: 1.60 ppb
RT: 7.13 min Scan# 1341
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 61 Resp: 29660

Ion	Ratio	Lower	Upper
61	100		
96	79.3	68.1	108.1
98	53.1	37.3	77.3

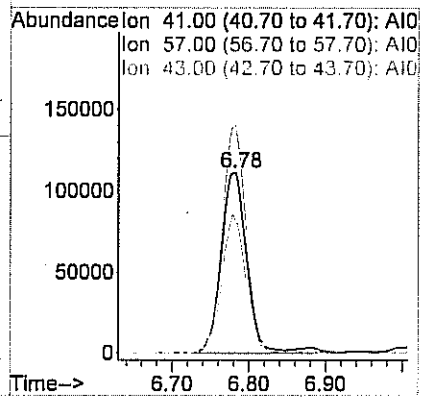


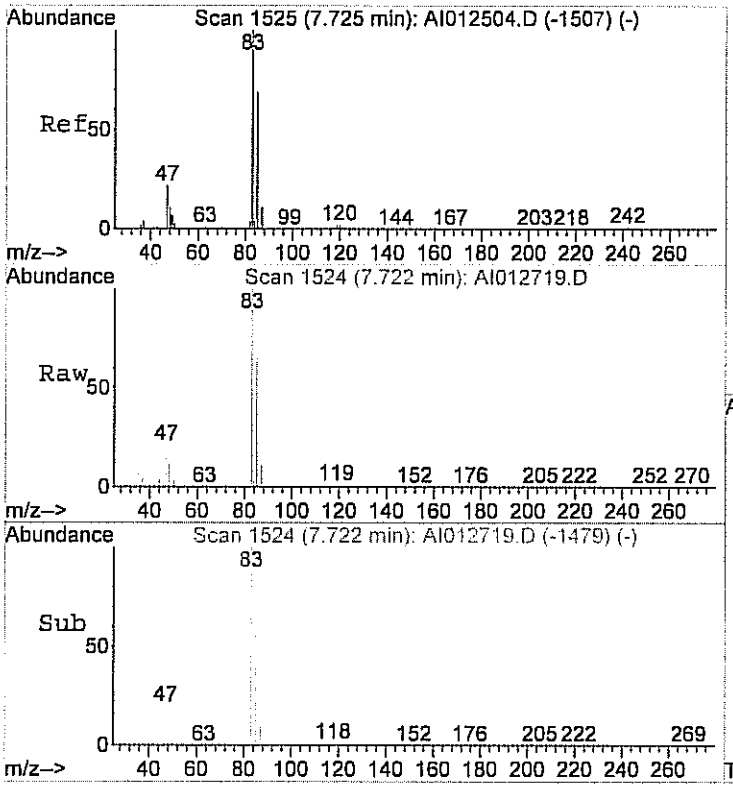


#25
Hexane
Concen: 19.96 ppb
RT: 6.78 min Scan# 1231
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 41 Resp: 261253

Ion	Ratio	Lower	Upper
41	100		
57	116.3	114.8	154.8
43	71.8	213.3	253.3#

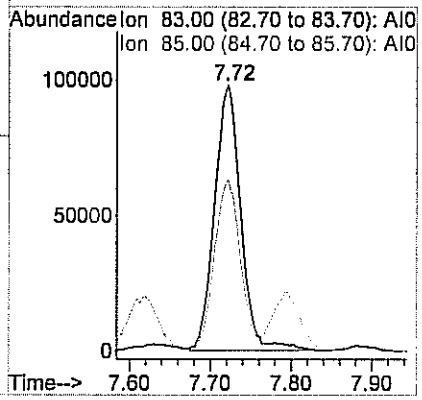


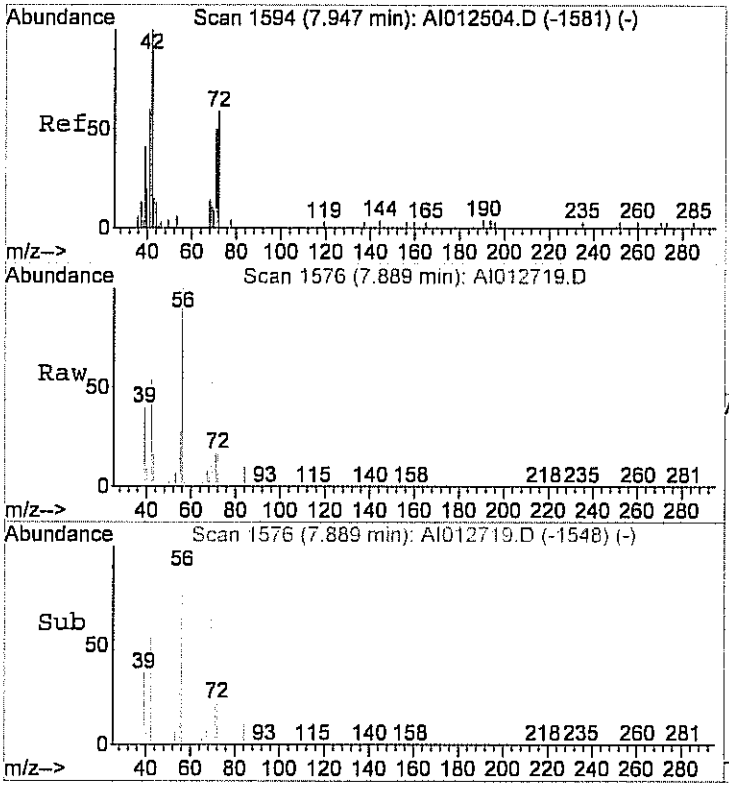


#27
Chloroform
Concen: 5.48 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 83 Resp: 219479

Ion	Ratio	Lower	Upper
83	100		
85	87.2	46.5	86.5#

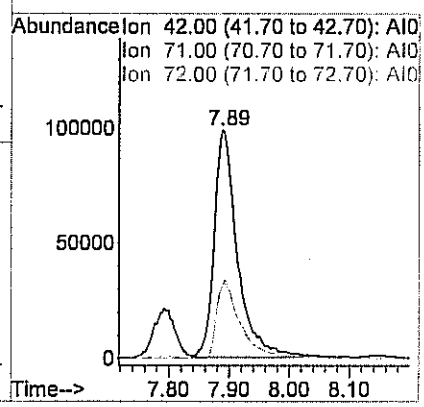


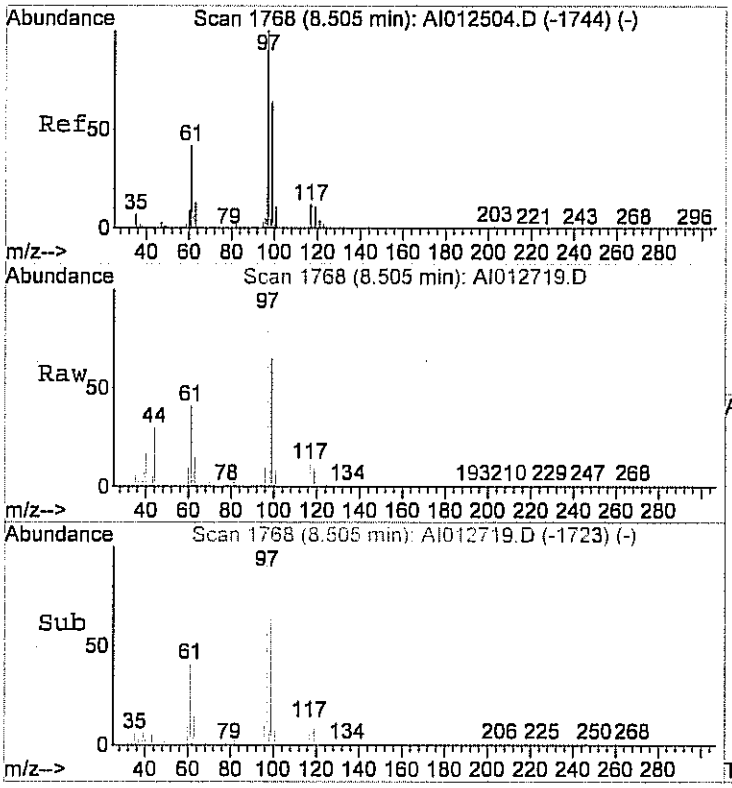


#28
Tetrahydrofuran
Concen: 31.59 ppb
RT: 7.89 min Scan# 1576
Delta R.T. -0.06 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 42 Resp: 264861

Ion	Ratio	Lower	Upper
42	100		
71	36.0	37.9	77.9#
72	35.2	38.0	78.0#

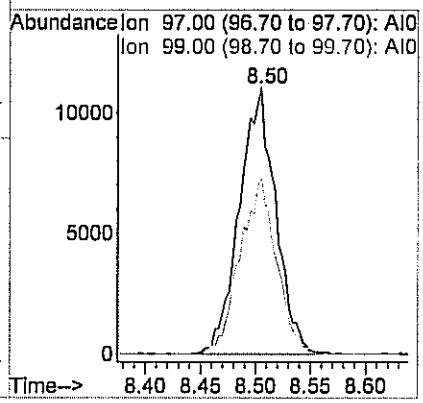


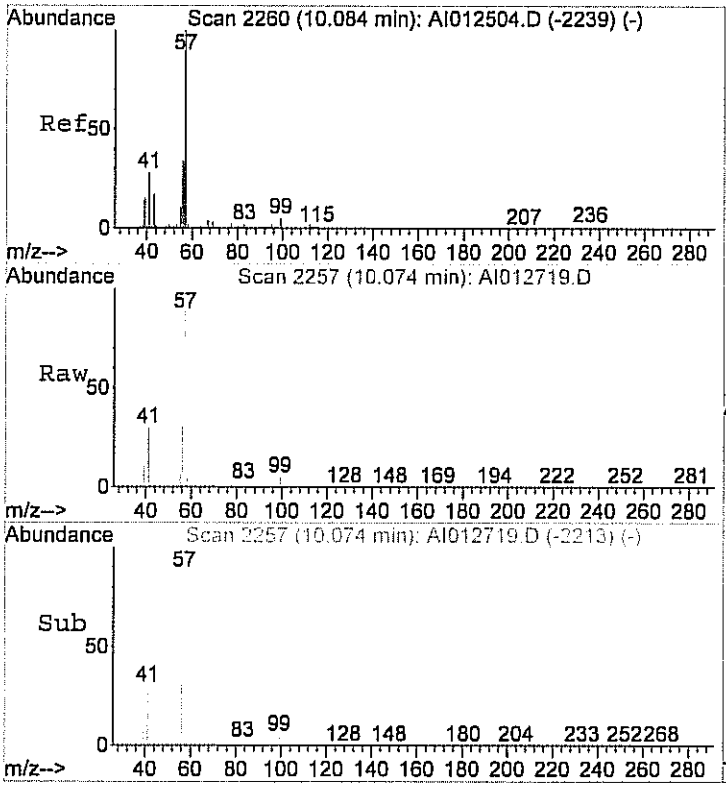


#31
1,1,1-trichloroethane
Concen: 0.62 ppb
RT: 8.50 min Scan# 1768
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 97 Resp: 25361

Ion	Ratio	Lower	Upper
97	100		
99	66.4	45.4	85.4

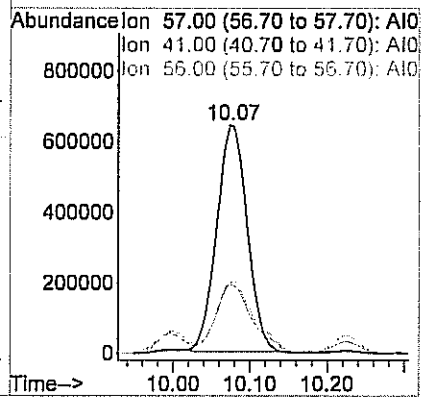


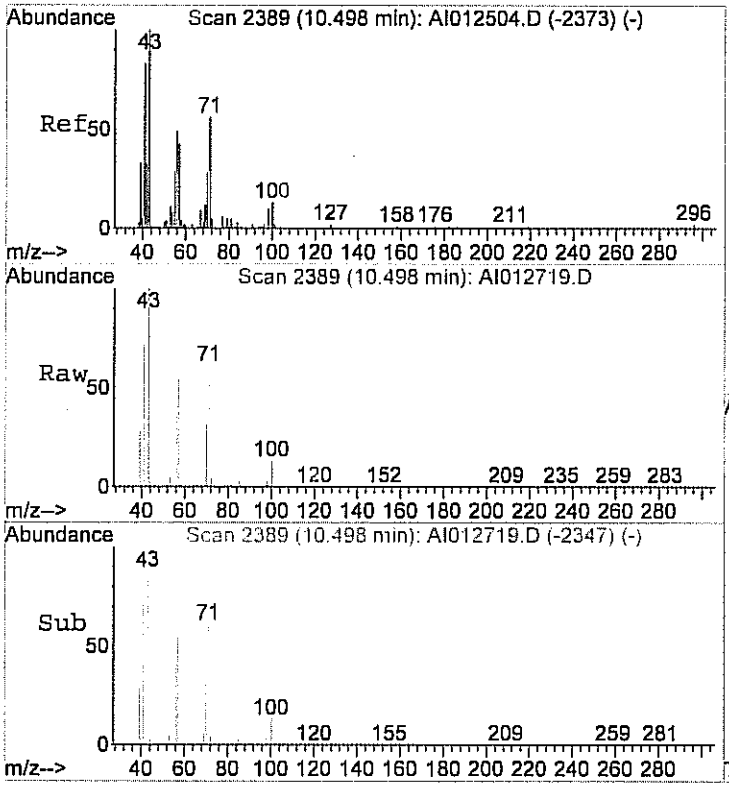


#36
2,2,4-trimethylpentane
Concen: 36.56 ppb
RT: 10.07 min Scan# 2257
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 57 Resp: 1758262

Ion	Ratio	Lower	Upper
57	100		
41	47.8	12.1	52.1
56	52.1	13.7	53.7

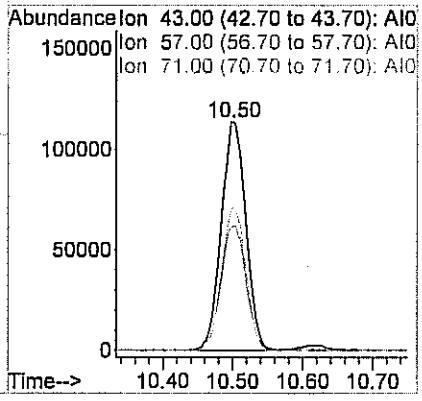


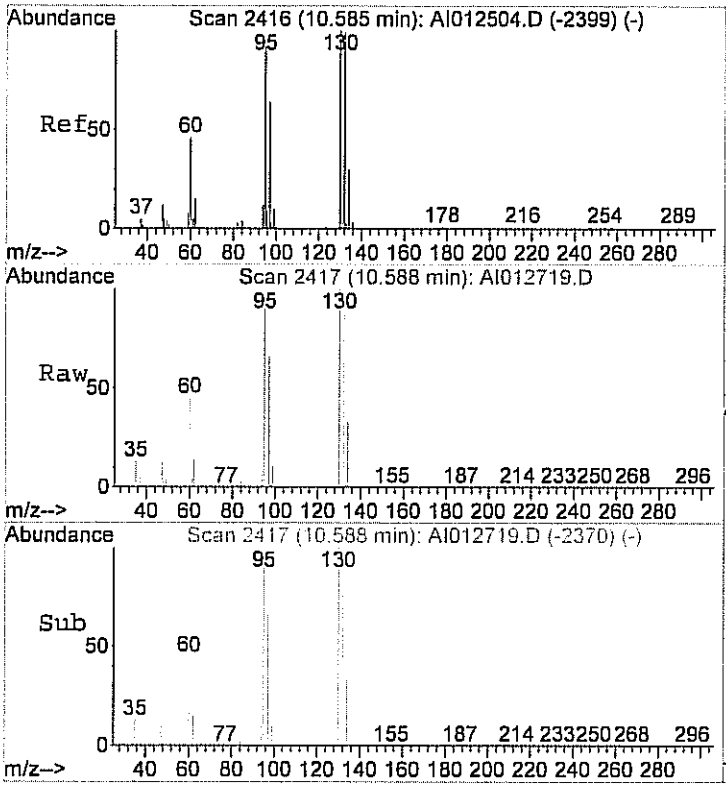


#37
Heptane
Concen: 17.61 ppb
RT: 10.50 min Scan# 2389
Delta R.T. -0.02 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 43 Resp: 281346

Ion	Ratio	Lower	Upper
43	100		
57	54.3	37.9	77.9
71	60.6	46.6	86.6

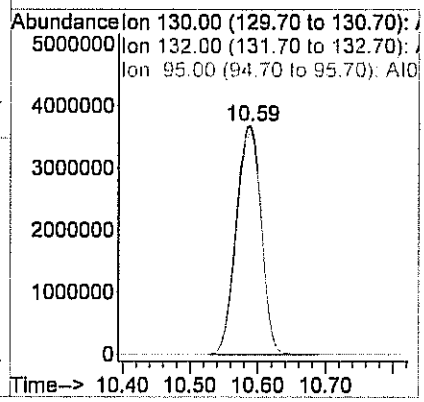


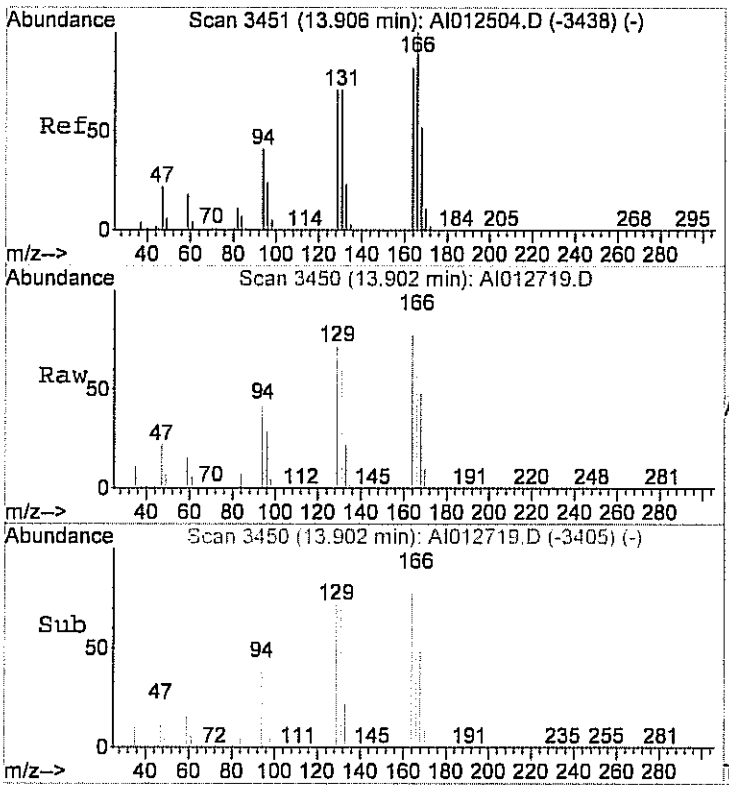


#38
Trichloroethene
Concen: 335.98 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion:130 Resp: 9507888

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	99.3	70.8	110.8

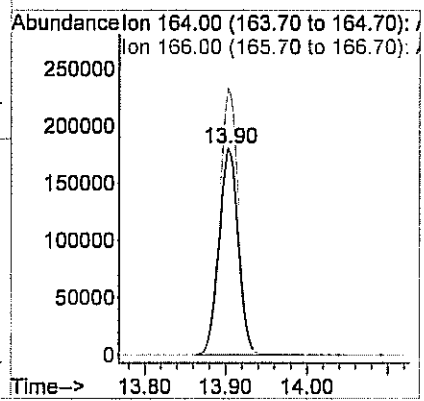




#50
Tetrachloroethylene
Concen: 8.02 ppb
RT: 13.90 min Scan# 3450
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion:164 Resp: 297961

Ion	Ratio	Lower	Upper
164	100		
166	128.2	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012720.D Vial: 9
Acq On : 27 Jan 2011 8:39 pm Operator: RJP
Sample : C1101031-004A 90X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 20:59:55 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	18851	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	62562	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	55244	1.00	ppb	-0.01
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	26350	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
25) Hexane	6.79	41	25576	1.98	ppb	# 24
27) Chloroform	7.72	83	25228	0.64	ppb	89
28) Tetrahydrofuran	7.95	42	15740m	1.90	ppb	
36) 2,2,4-trimethylpentane	10.08	57	176061	3.77	ppb	73
37) Heptane	10.49	43	20258	1.31	ppb	95
38) Trichloroethene	10.58	130	1183955	43.11	ppb	95
50) Tetrachloroethylene	13.91	164	25354	0.96	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

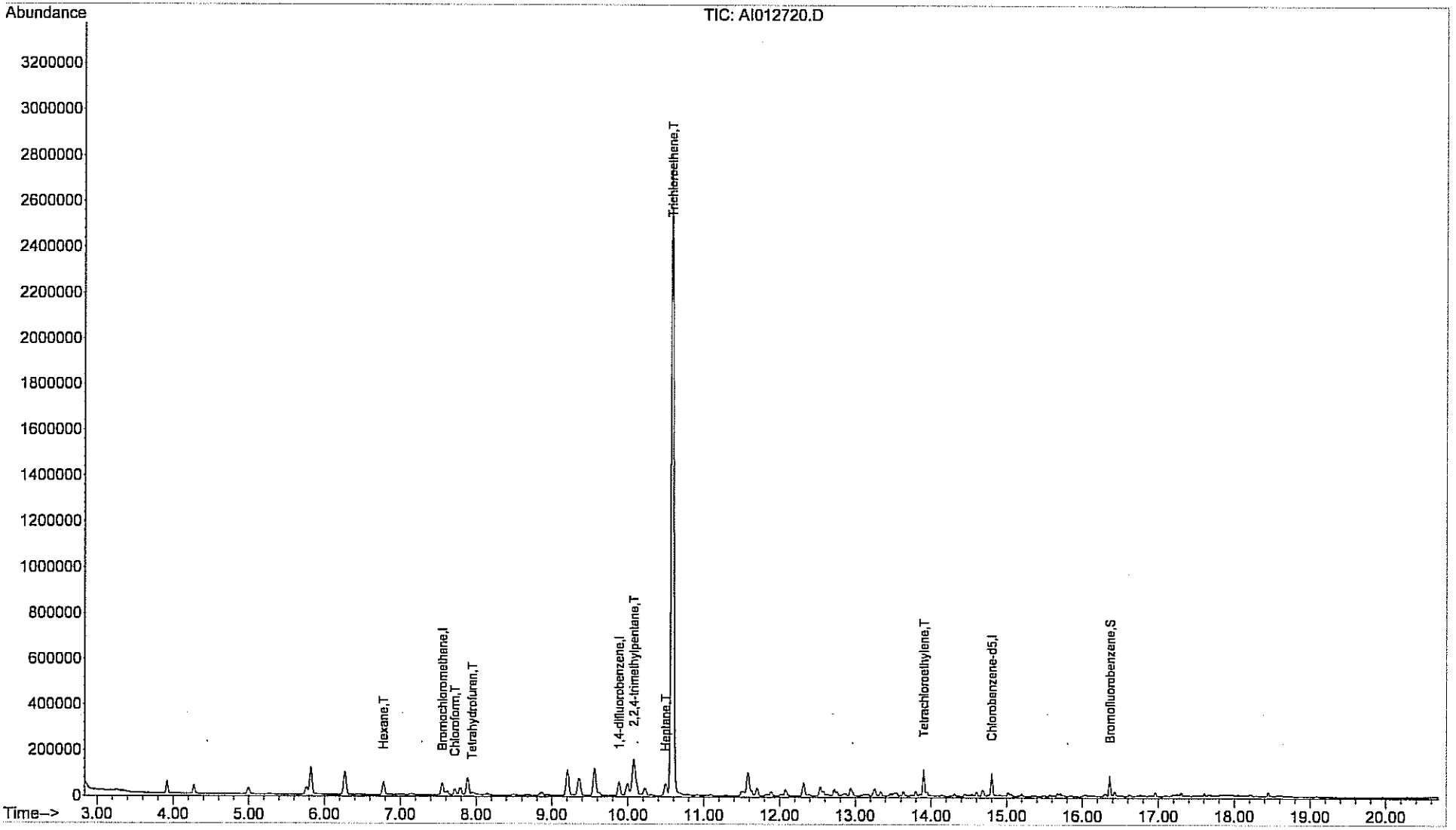
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012720.D
Acq On : 27 Jan 2011 8:39 pm
Sample : C1101031-004A 90X
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:36 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

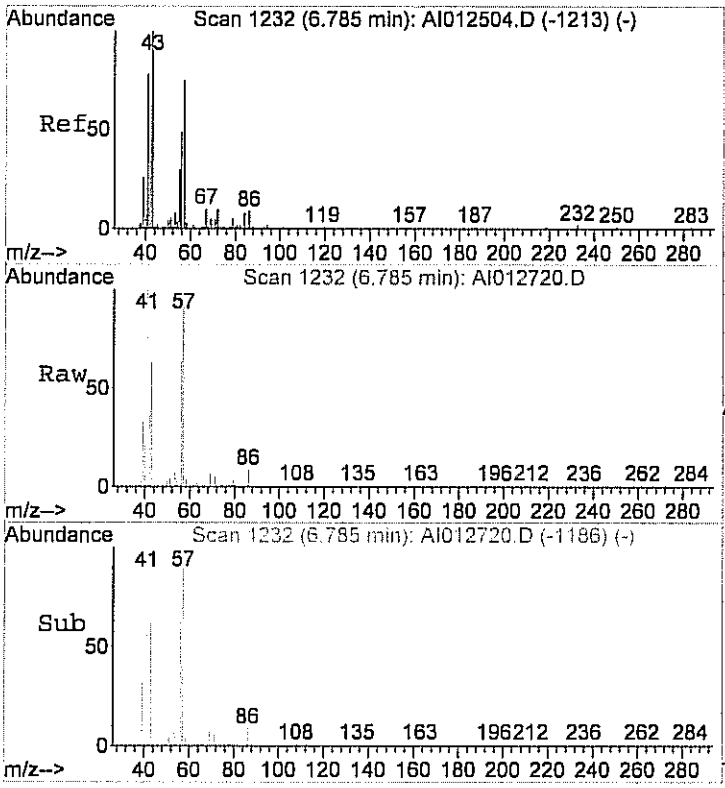
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012720.D A106_1UG.M Tue Feb 08 15:45:28 2011 MSD1 Page 2

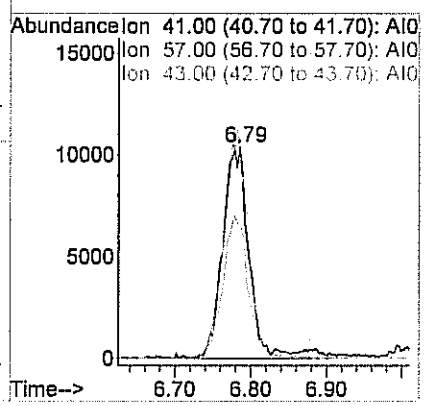
Centek laboratories, LLC

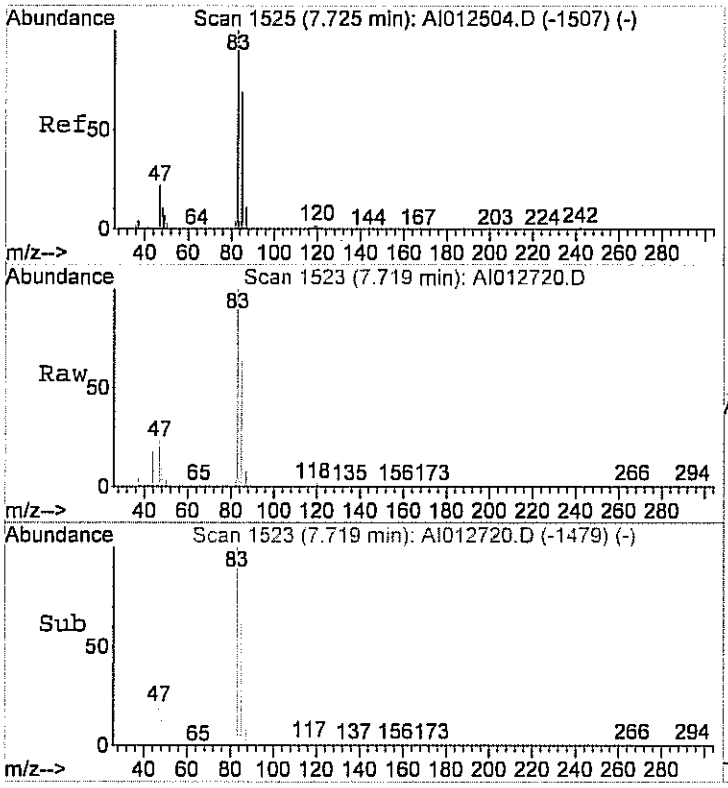


#25
Hexane
Concen: 1.98 ppb
RT: 6.79 min Scan# 1232
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 41 Resp: 25576

Ion	Ratio	Lower	Upper
41	100		
57	95.9	114.8	154.8#
43	63.9	213.3	253.3#

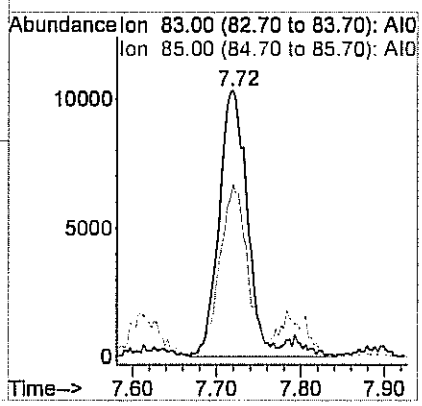


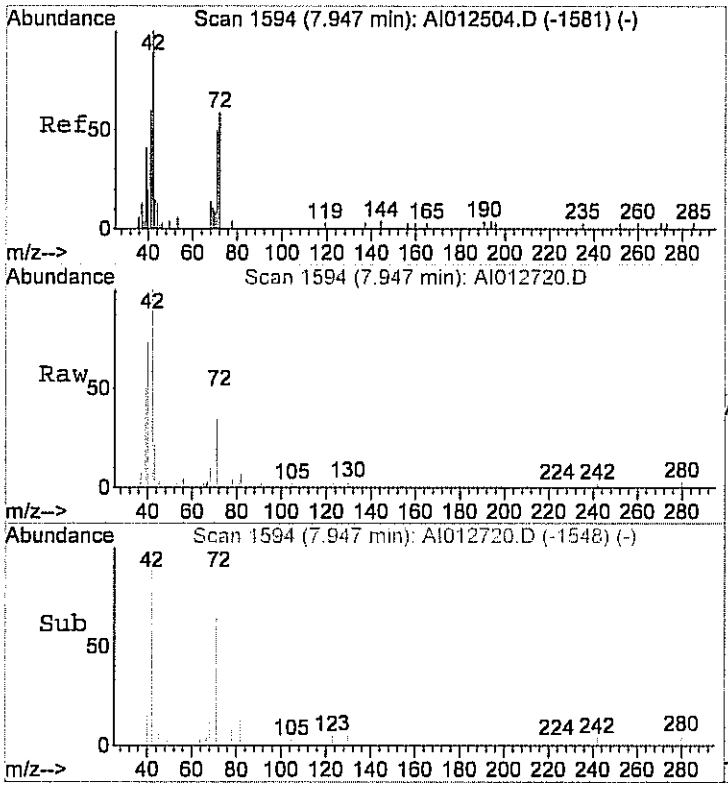


#27
Chloroform
Concen: 0.64 ppb
RT: 7.72 min Scan# 1523
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 83 Resp: 25228

Ion	Ratio	Lower	Upper
83	100		
85	75.5	46.5	86.5

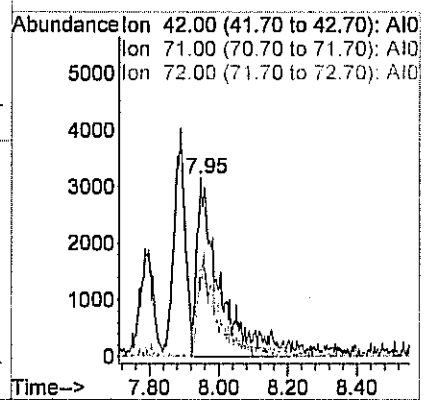


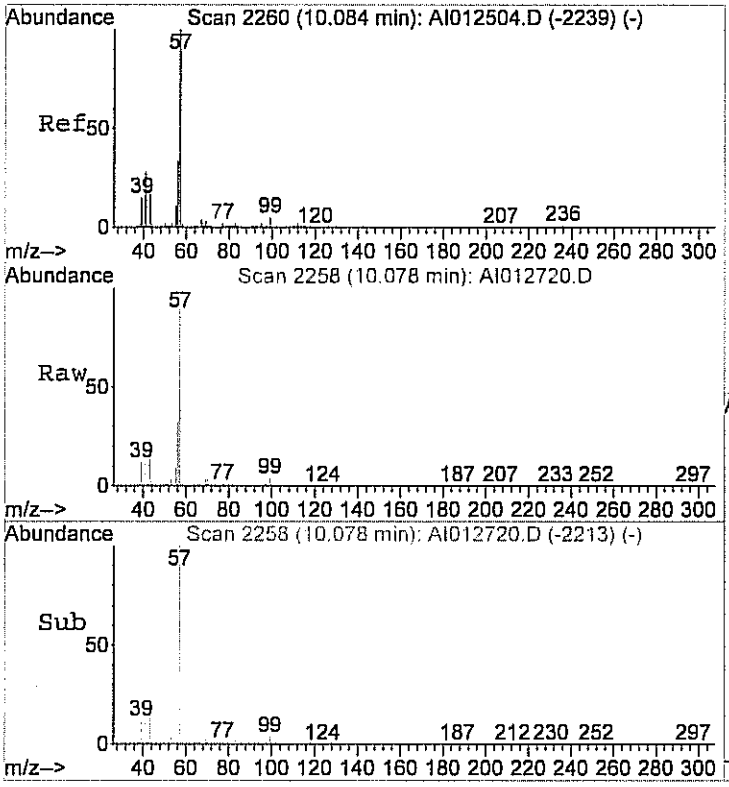


#28
Tetrahydrofuran
Concen: 1.90 ppb m
RT: 7.95 min Scan# 1594
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 42 Resp: 15740

Ion	Ratio	Lower	Upper
42	100		
71	40.1	37.9	77.9
72	38.8	38.0	78.0

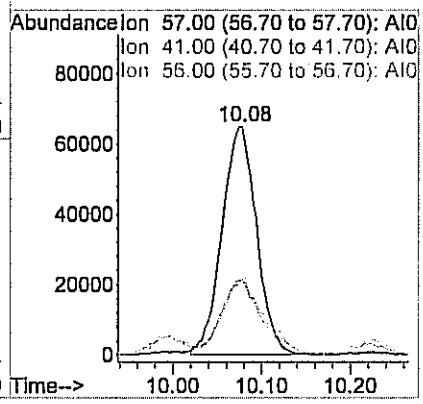


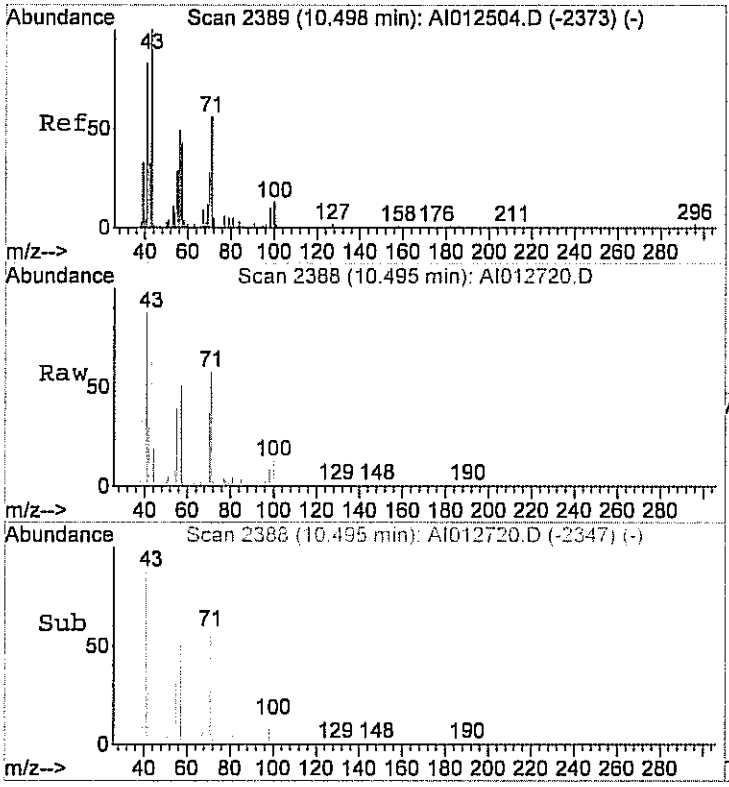


#36
2,2,4-trimethylpentane
Concen: 3.77 ppb
RT: 10.08 min Scan# 2258
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 57 Resp: 176061

Ion	Ratio	Lower	Upper
57	100		
41	48.5	12.1	52.1
56	48.1	13.7	53.7

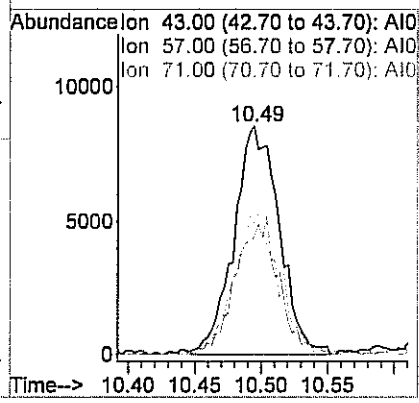


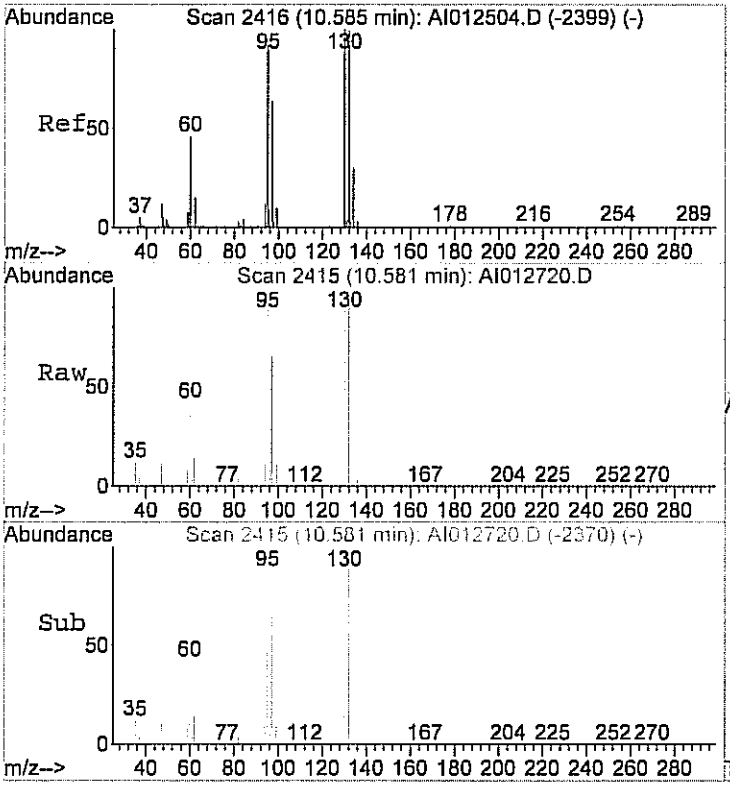


#37
Heptane
Concen: 1.31 ppb
RT: 10.49 min Scan# 2388
Delta R.T. -0.02 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 43 Resp: 20258

Ion	Ratio	Lower	Upper
43	100		
57	56.9	37.9	77.9
71	60.7	46.6	86.6

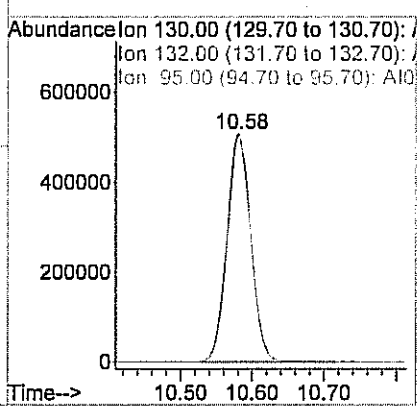


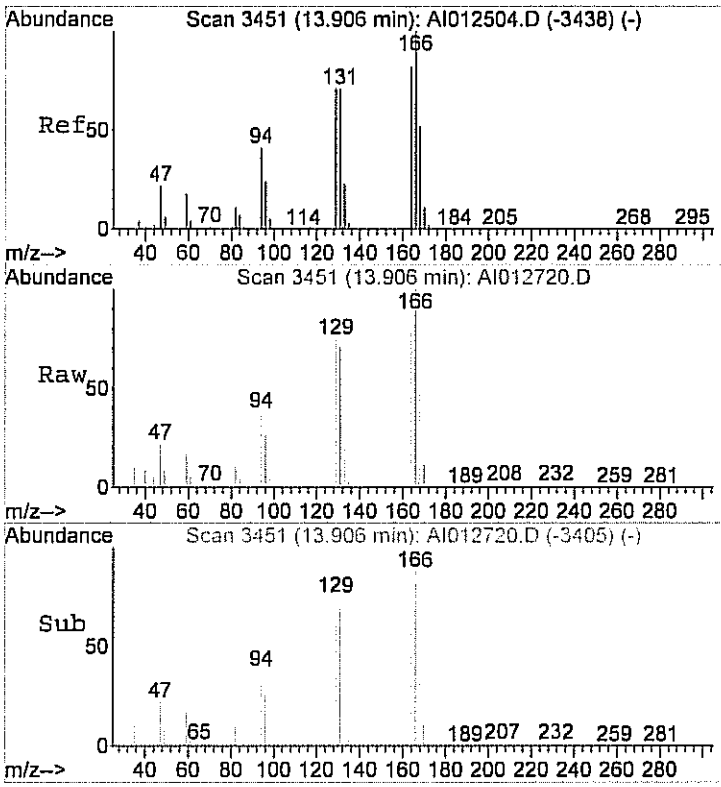


#38
Trichloroethene
Concen: 43.11 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion:130 Resp: 1183955

Ion	Ratio	Lower	Upper
130	100		
132	97.0	77.0	117.0
95	100.3	70.8	110.8

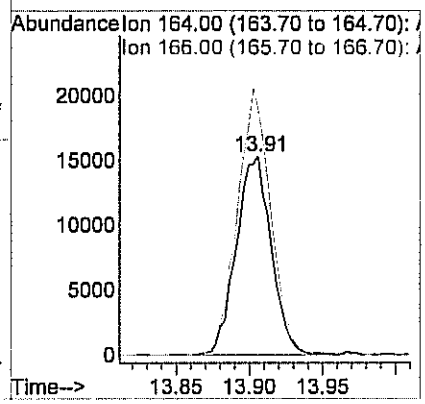




#50
Tetrachloroethylene
Concen: 0.96 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion:164 Resp: 25354

Ion	Ratio	Lower	Upper
164	100		
166	127.1	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012812.D Vial: 4
Acq On : 28 Jan 2011 5:31 pm Operator: RJP
Sample : C1101031-004A 2430X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 17:52:41 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	28331	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	73869	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	69668	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	33122	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
36) 2,2,4-trimethylpentane	10.08	57	7429m	0.13	ppb	
38) Trichloroethene	10.58	130	66045	2.04	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

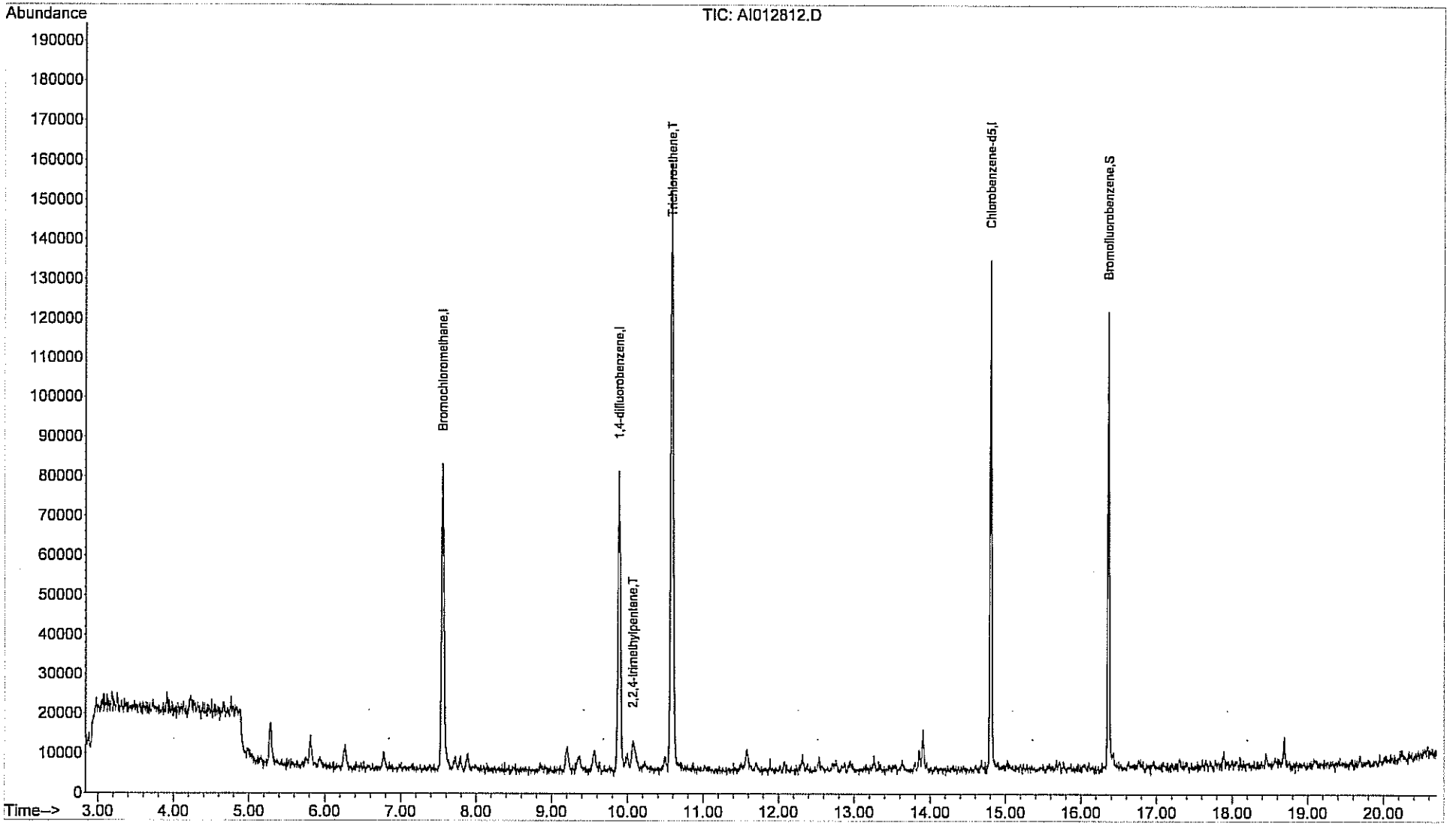
Quantitation Report (QT Reviewed)

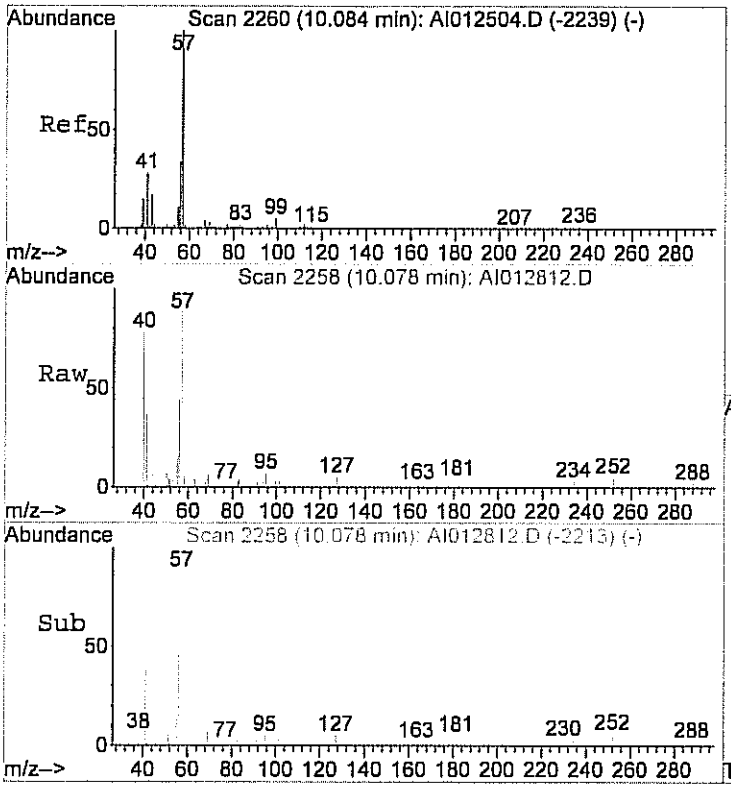
Data File : C:\HPCHEM\1\DATA\AI012812.D
Acq On : 28 Jan 2011 5:31 pm
Sample : C1101031-004A 2430X
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:36 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

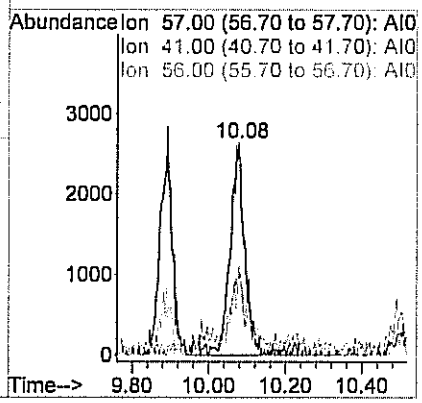


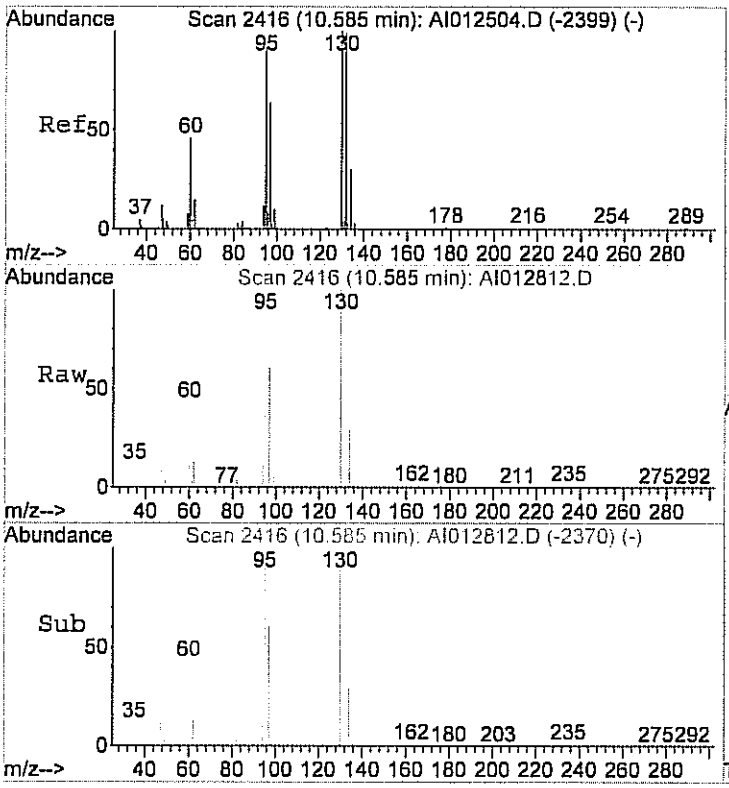


#36
2,2,4-trimethylpentane
Concen: 0.13 ppb m
RT: 10.08 min Scan# 2258
Delta R.T. -0.01 min
Lab File: AI012812.D
Acq: 28 Jan 2011 5:31 pm

Tgt Ion: 57 Resp: 7429

Ion	Ratio	Lower	Upper
57	100		
41	42.2	12.1	52.1
56	37.8	13.7	53.7

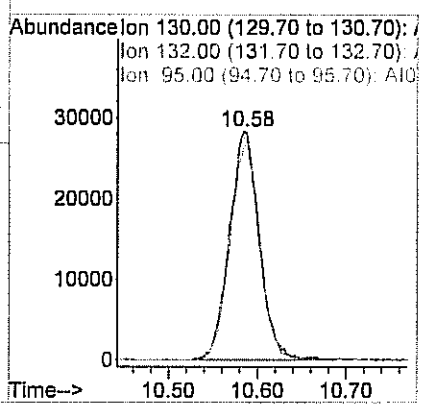




#38
Trichloroethene
Concen: 2.04 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012812.D
Acq: 28 Jan 2011 5:31 pm

Tgt Ion:130 Resp: 66045

Ion	Ratio	Lower	Upper
130	100		
132	95.3	77.0	117.0
95	98.2	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Acetone	94	54		ppbV	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloromethane	2.0	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 12	0.90	0.15		ppbV	1	1/25/2011 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	2.8	1.5		ppbV	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	110	27		ppbV	180	1/28/2011 6:07:00 PM
Toluene	0.28	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Trichloroethene	5.3	0.75		ppbV	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	1.1	0.71		ug/m3	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Acetone	230	130		ug/m3	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/25/2011 9:26:00 PM
Chloromethane	4.1	0.31		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/25/2011 9:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	4.5	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	8.2	4.5		ug/m3	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 9:26:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	330	81		ug/m3	180	1/28/2011 6:07:00 PM
Toluene	1.1	0.57		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Trichloroethene	29	4.1		ug/m3	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.39	0.39		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012523.D
Acq On : 25 Jan 2011 9:26 pm
Sample : C1101031-005A
Misc : C1101031-005A
MS Integration Params: RTEINT.P
Quant Time: Jan 25 21:47:18 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

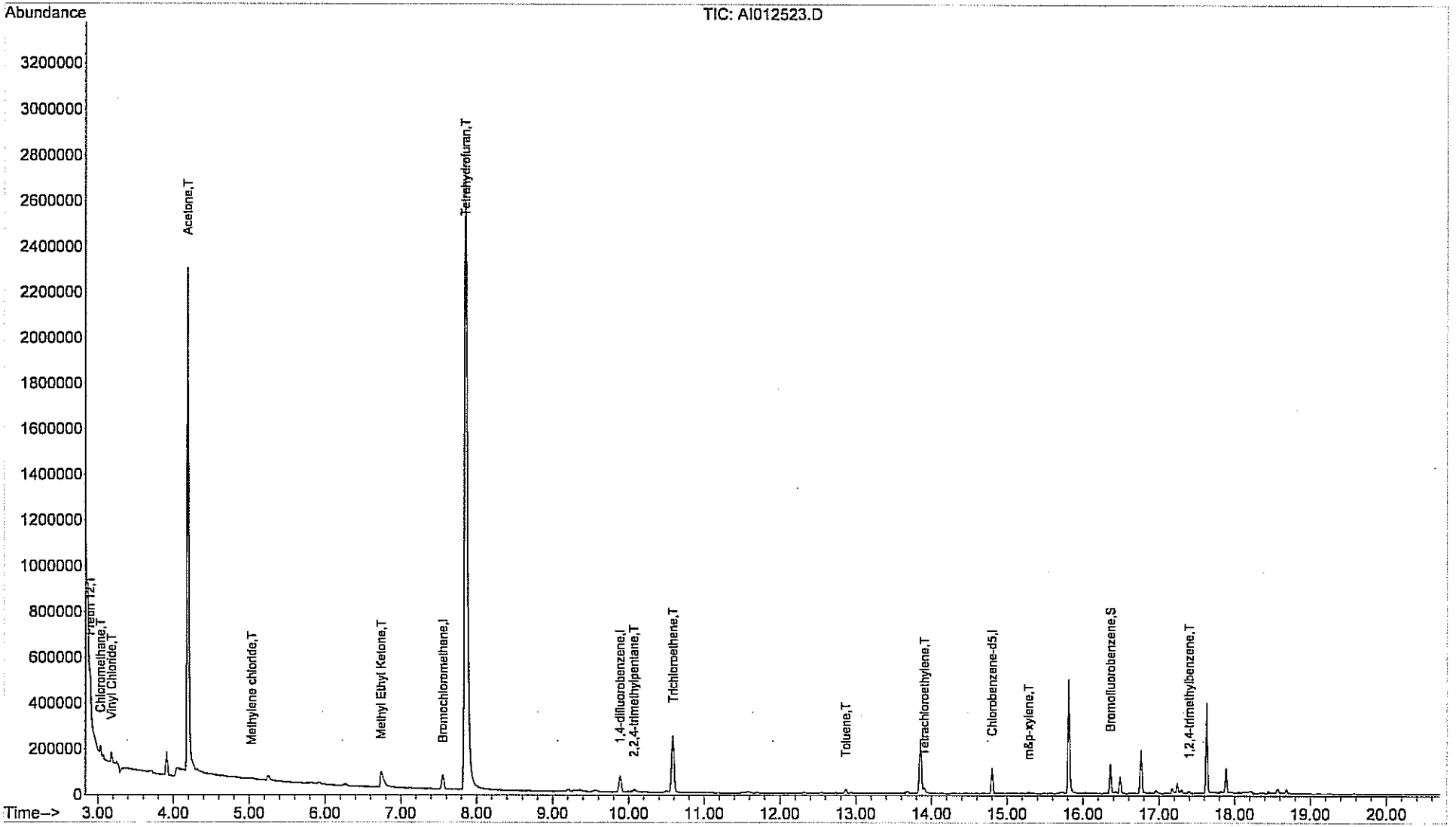
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20993	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.88	114	68288	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	61731	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	37300	1.20	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	55313	0.90	ppb		98
4) Chloromethane	3.03	50	27649	1.96	ppb		86
6) Vinyl Chloride	3.18	62	1756	0.15	ppb		84
12) Acetone	4.19	58	671259	118.55	ppb		98
16) Methylene chloride	5.04	84	2191	0.13	ppb		91
23) Methyl Ethyl Ketone	6.74	43	135303	4.47	ppb	#	50
28) Tetrahydrofuran	7.85	42	2061801	223.34	ppb		92
36) 2,2,4-trimethylpentane	10.07	57	11554	0.23	ppb		89
38) Trichloroethene	10.58	130	101805	3.40	ppb		94
45) Toluene	12.87	92	7101	0.28	ppb		98
50) Tetrachloroethylene	13.91	164	4463	0.15	ppb		94
53) m&p-xylene	15.28	91	5326	0.13	ppb		91
61) 1,2,4-trimethylbenzene	17.40	105	3653	0.12	ppb		98

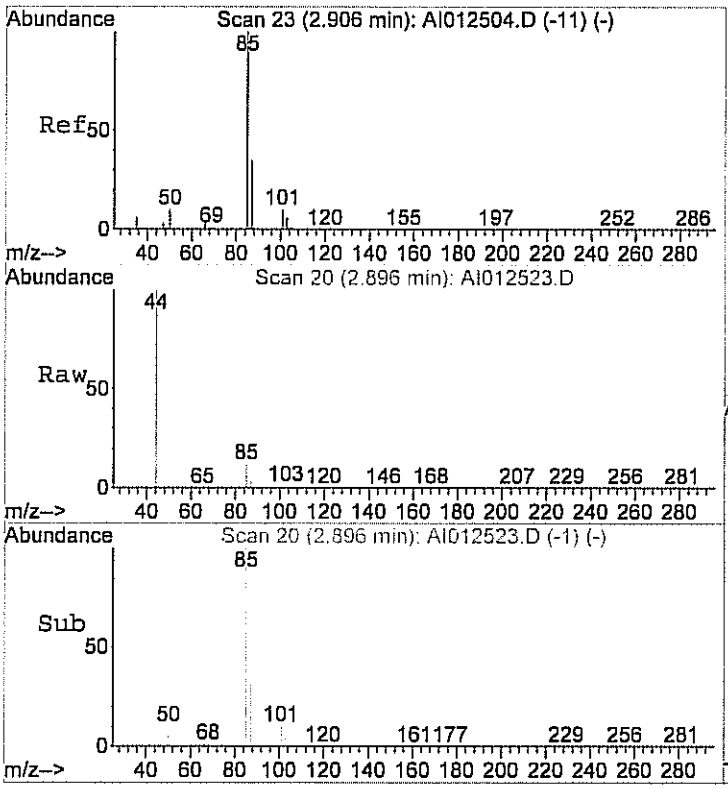
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012523.D Vial: 6
Acq On : 25 Jan 2011 9:26 pm Operator: RJP
Sample : C1101031-005A Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:25 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

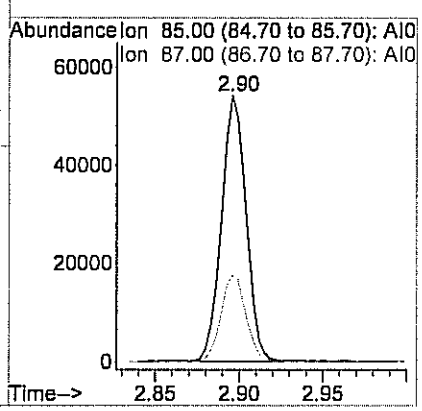


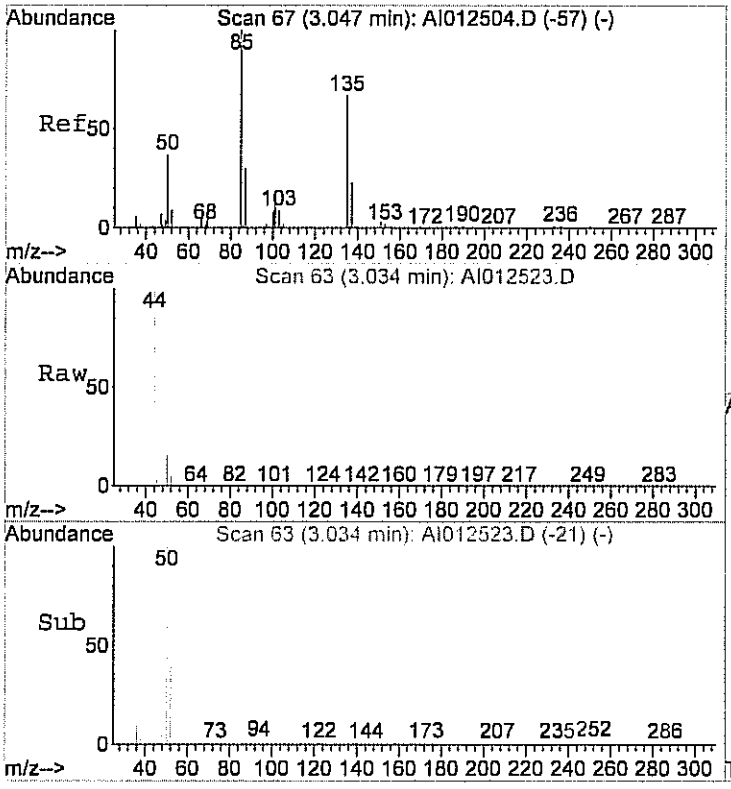


#3
Freon 12
Concen: 0.90 ppb
RT: 2.90 min Scan# 20
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 85 Resp: 55313

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.2	52.2

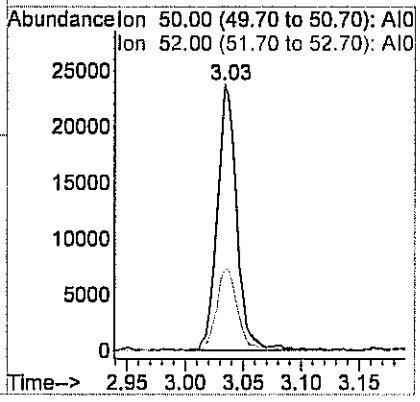


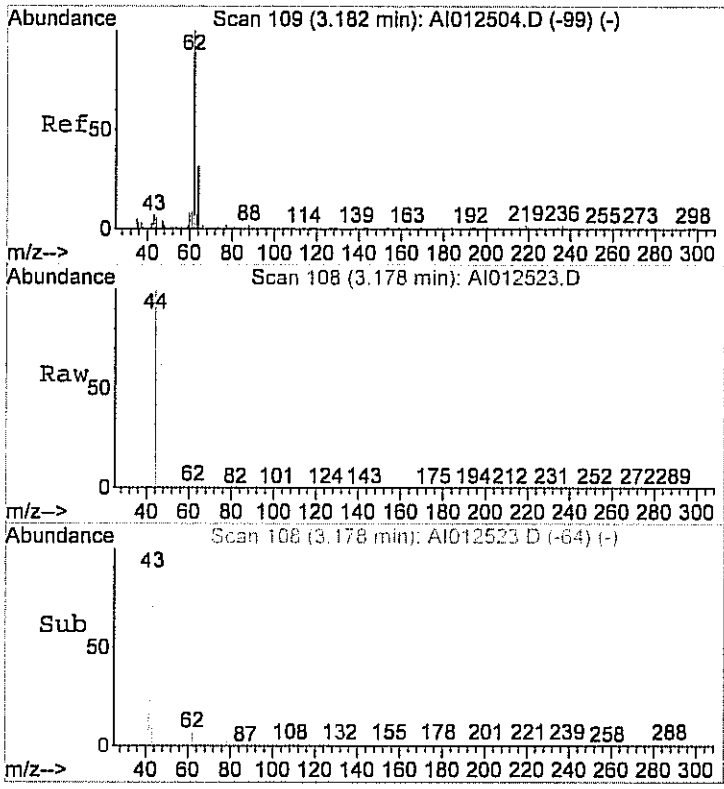


#4
Chloromethane
Concen: 1.96 ppb
RT: 3.03 min Scan# 63
Delta R.T. -0.02 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 50 Resp: 27649

Ion	Ratio	Lower	Upper
50	100		
52	34.4	7.0	47.0

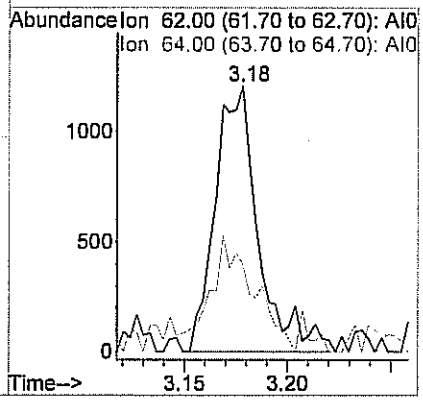


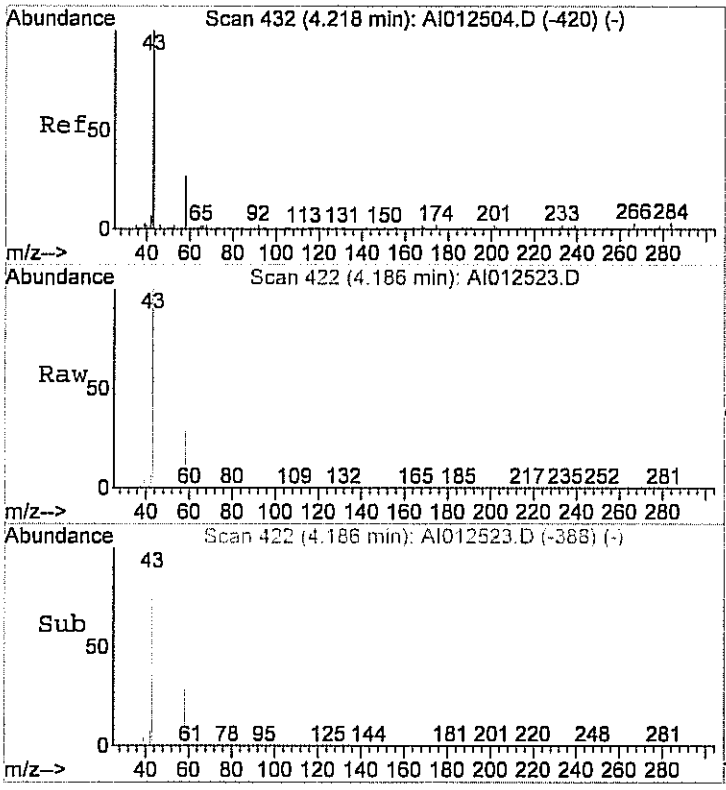


#6
Vinyl Chloride
Concen: 0.15 ppb
RT: 3.18 min Scan# 108
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 62 Resp: 1756

Ion	Ratio	Lower	Upper
62	100		
64	42.9	4.0	64.0

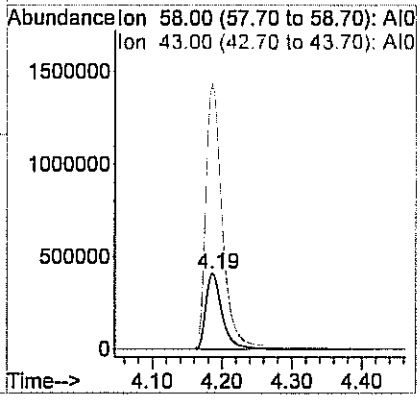


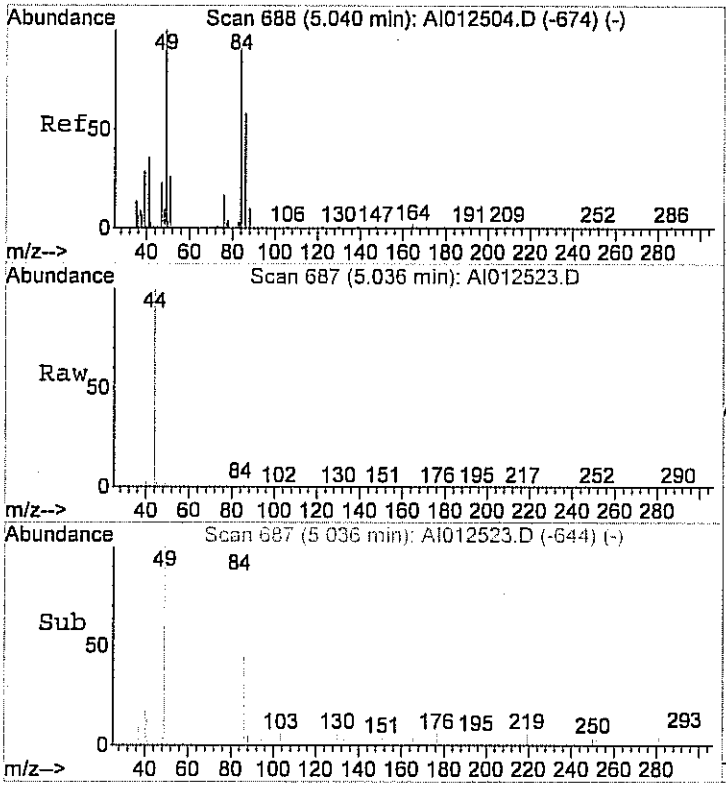


#12
Acetone
Concen: 118.55 ppb
RT: 4.19 min Scan# 422
Delta R.T. -0.04 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 58 Resp: 671259

Ion	Ratio	Lower	Upper
58	100		
43	354.7	329.0	389.0

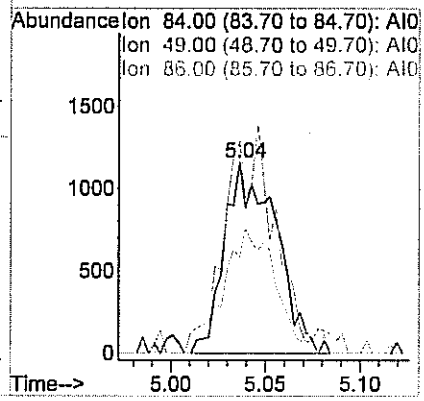


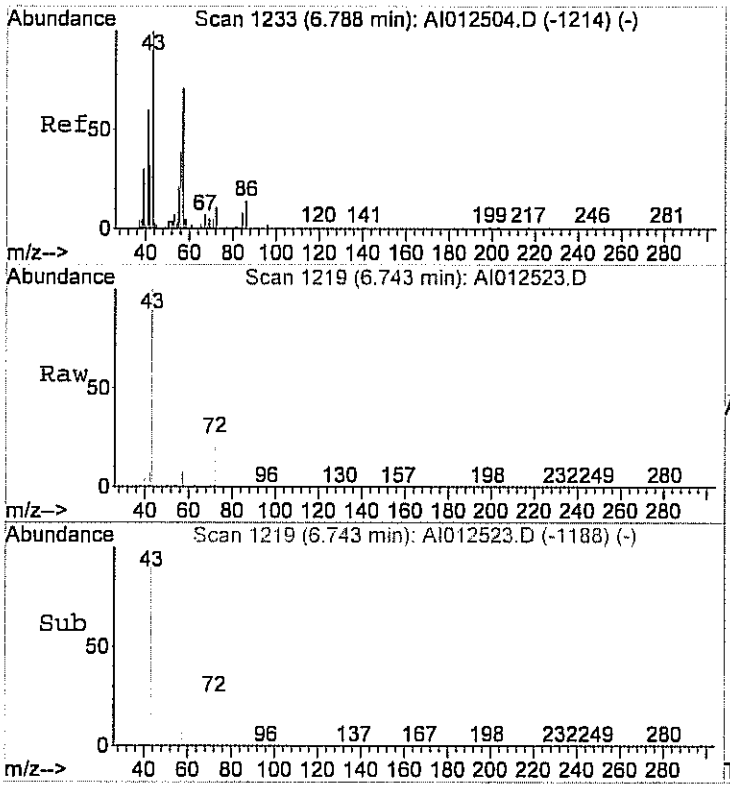


#16
Methylene chloride
Concen: 0.13 ppb
RT: 5.04 min Scan# 687
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 84 Resp: 2191

Ion	Ratio	Lower	Upper
84	100		
49	117.2	109.7	149.7
86	63.6	47.8	87.8

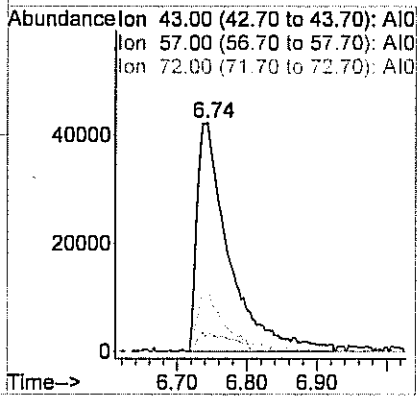


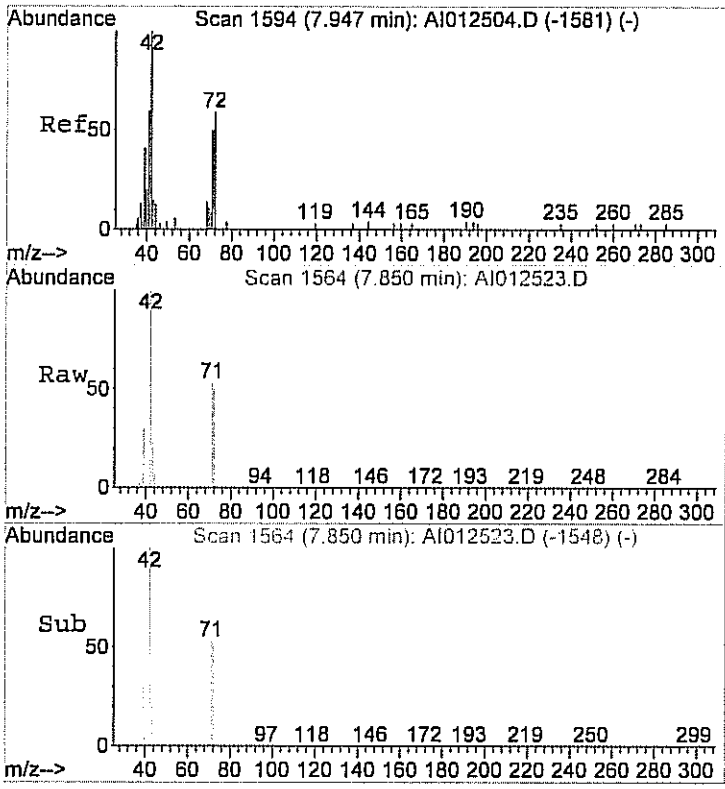


#23
Methyl Ethyl Ketone
Concen: 4.47 ppb
RT: 6.74 min Scan# 1219
Delta R.T. -0.05 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 43 Resp: 135303

Ion	Ratio	Lower	Upper
43	100		
57	9.3	37.8	77.8#
72	24.0	1.1	41.1

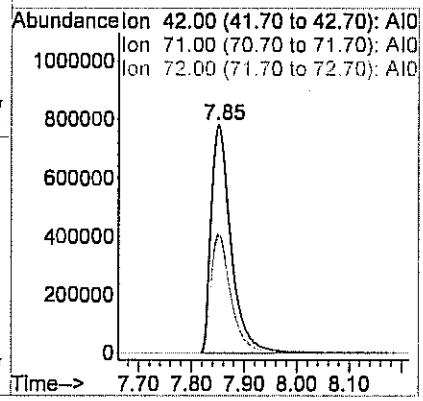


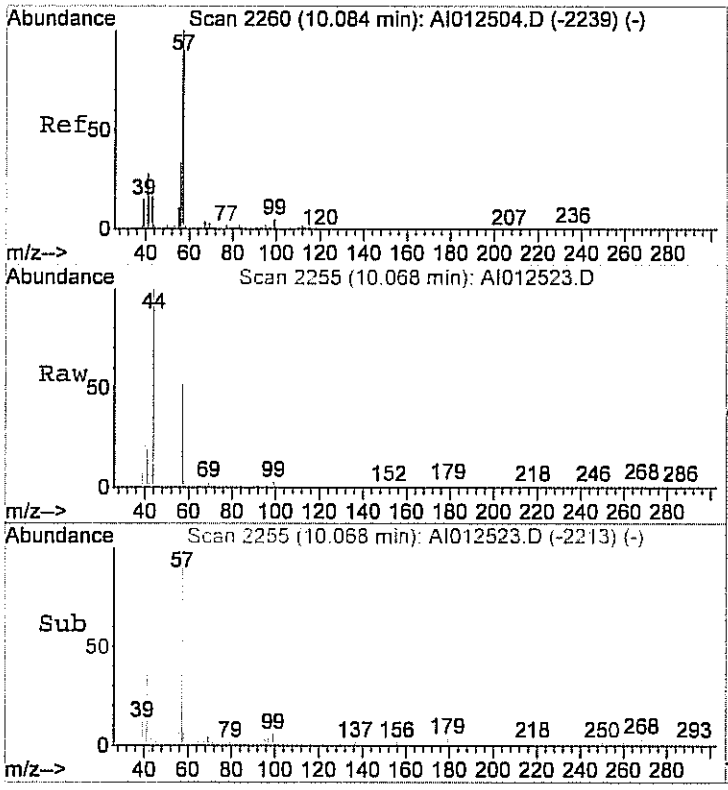


#28
Tetrahydrofuran
Concen: 223.34 ppb
RT: 7.85 min Scan# 1564
Delta R.T. -0.10 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 42 Resp: 2061801

Ion	Ratio	Lower	Upper
42	100		
71	52.8	37.9	77.9
72	51.4	38.0	78.0

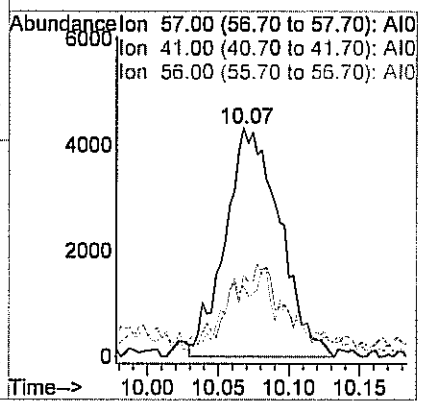


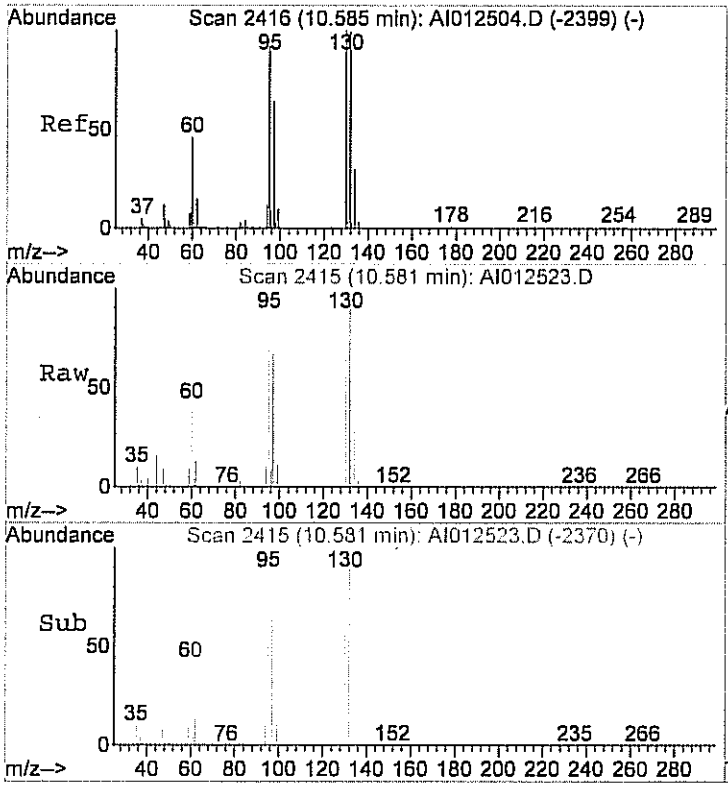


#36
2,2,4-trimethylpentane
Concen: 0.23 ppb
RT: 10.07 min Scan# 2255
Delta R.T. -0.02 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 57 Resp: 11554

Ion	Ratio	Lower	Upper
57	100		
41	34.4	12.1	52.1
56	43.4	13.7	53.7

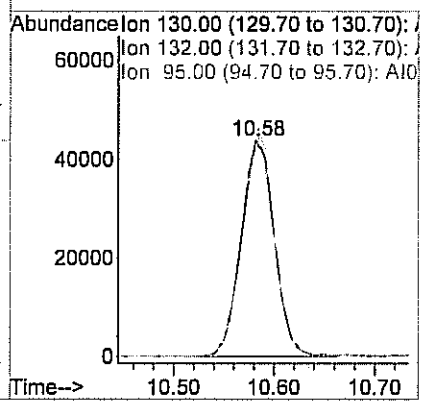


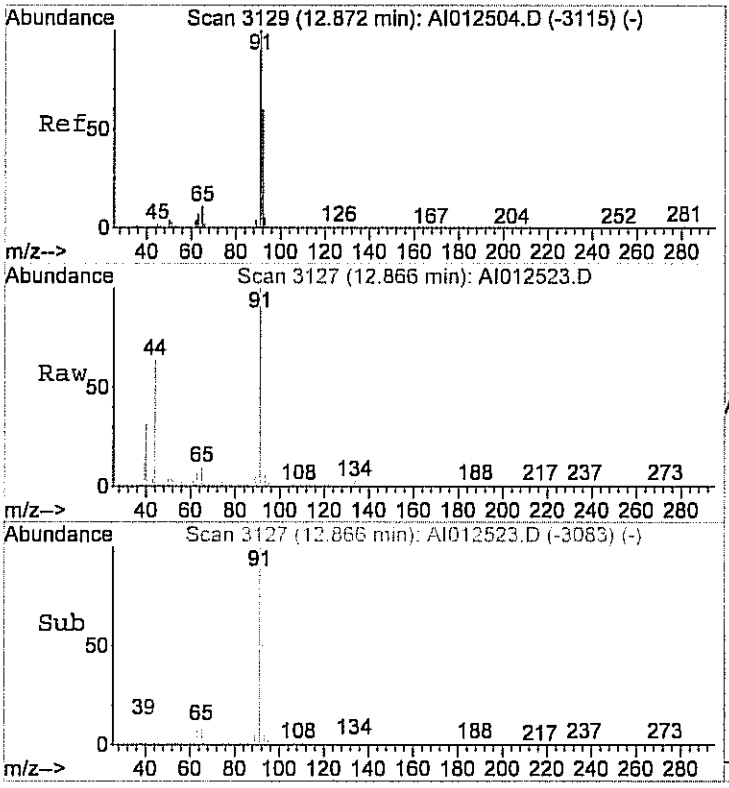


#38
Trichloroethene
Concen: 3.40 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:130 Resp: 101805

Ion	Ratio	Lower	Upper
130	100		
132	97.4	77.0	117.0
95	102.6	70.8	110.8

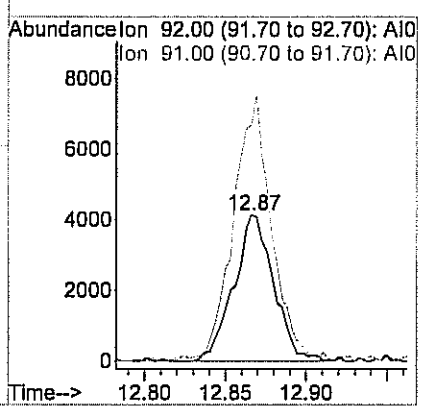


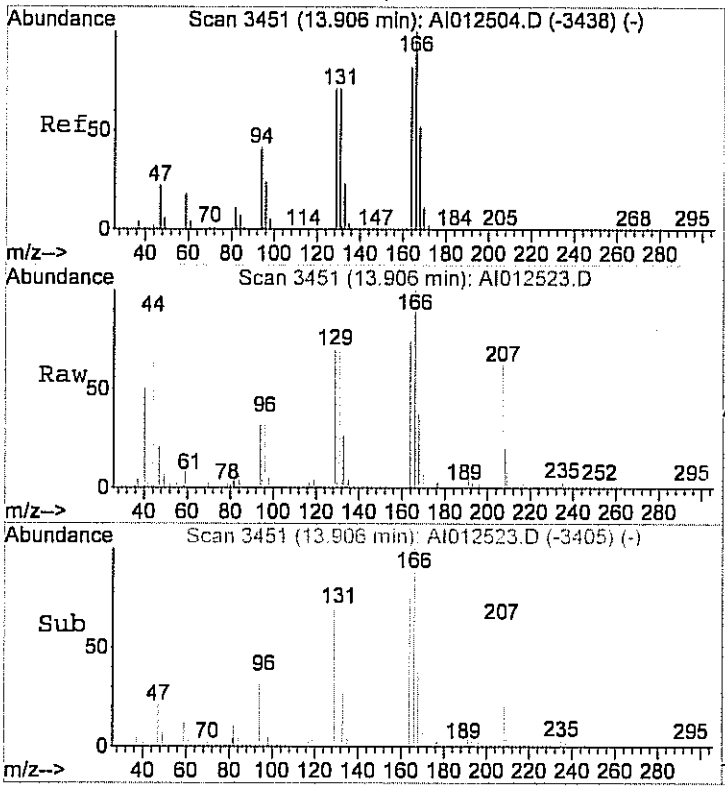


#45
Toluene
Concen: 0.28 ppb
RT: 12.87 min Scan# 3127
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 92 Resp: 7101

Ion	Ratio	Lower	Upper
92	100		
91	172.1	150.0	190.0

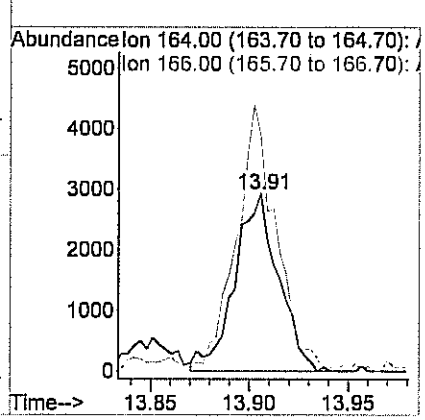


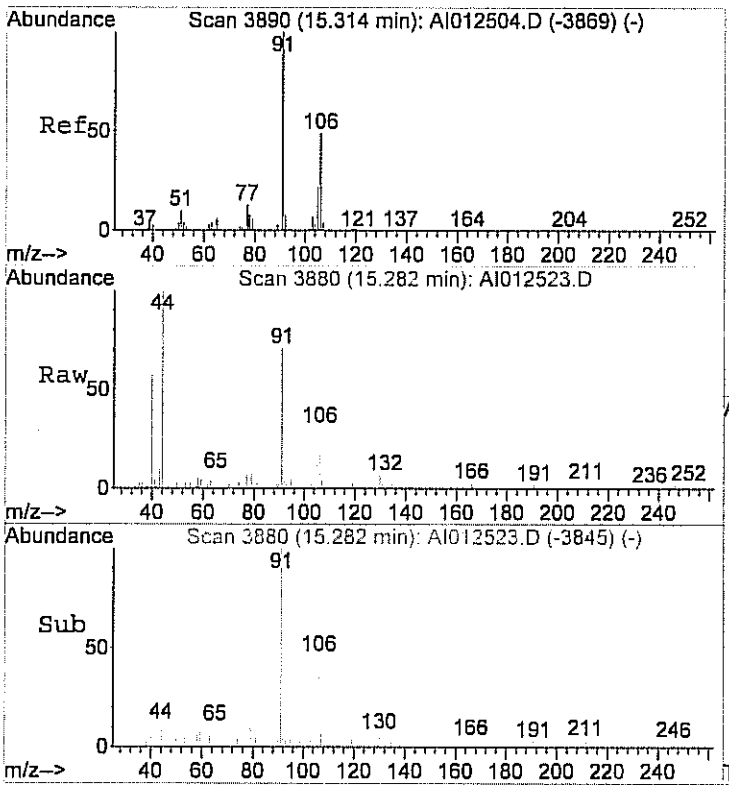


#50
Tetrachloroethylene
Concen: 0.15 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:164 Resp: 4463

Ion	Ratio	Lower	Upper
164	100		
166	136.0	109.0	149.0

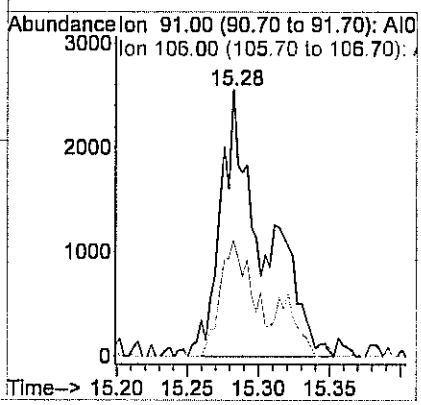


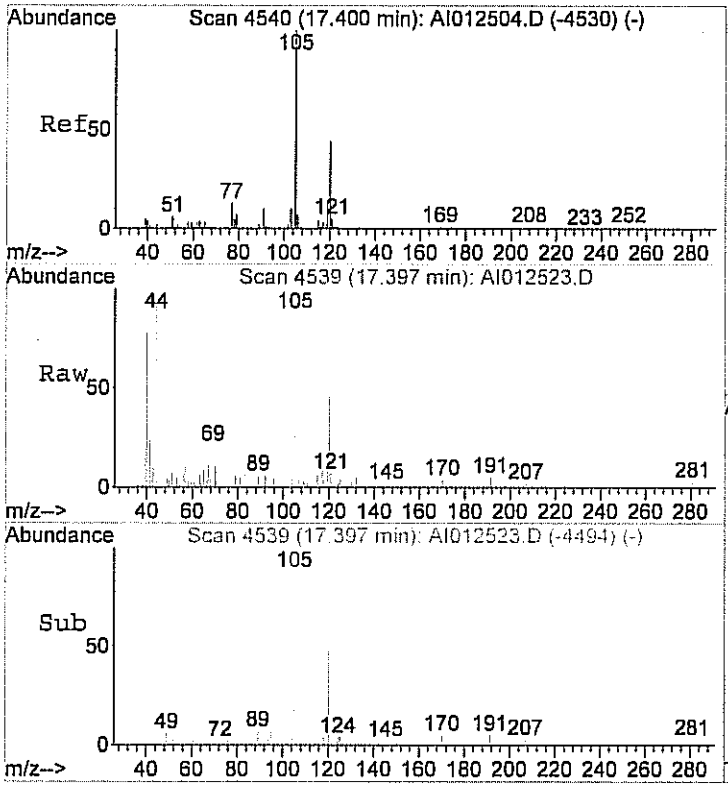


#53
m&p-xylene
Concen: 0.13 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 91 Resp: 5326

Ion	Ratio	Lower	Upper
91	100		
106	43.8	29.9	69.9

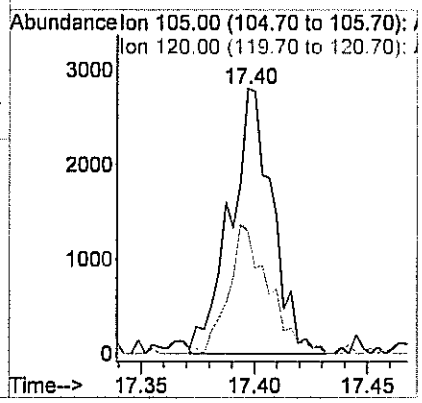




#61
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:105 Resp: 3653

Ion	Ratio	Lower	Upper
105	100		
120	46.0	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012721.D Vial: 10
Acq On : 27 Jan 2011 9:11 pm Operator: RJP
Sample : C1101031-005A 5X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 21:32:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	17962	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.88	114	50601	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	46688	1.00	ppb		-0.01
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	25416	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
12) Acetone	4.21	58	102357	21.13	ppb		99
23) Methyl Ethyl Ketone	6.79	43	14115	0.55	ppb	#	51
28) Tetrahydrofuran	7.88	42	278422	35.25	ppb		91
38) Trichloroethene	10.58	130	23514	1.06	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

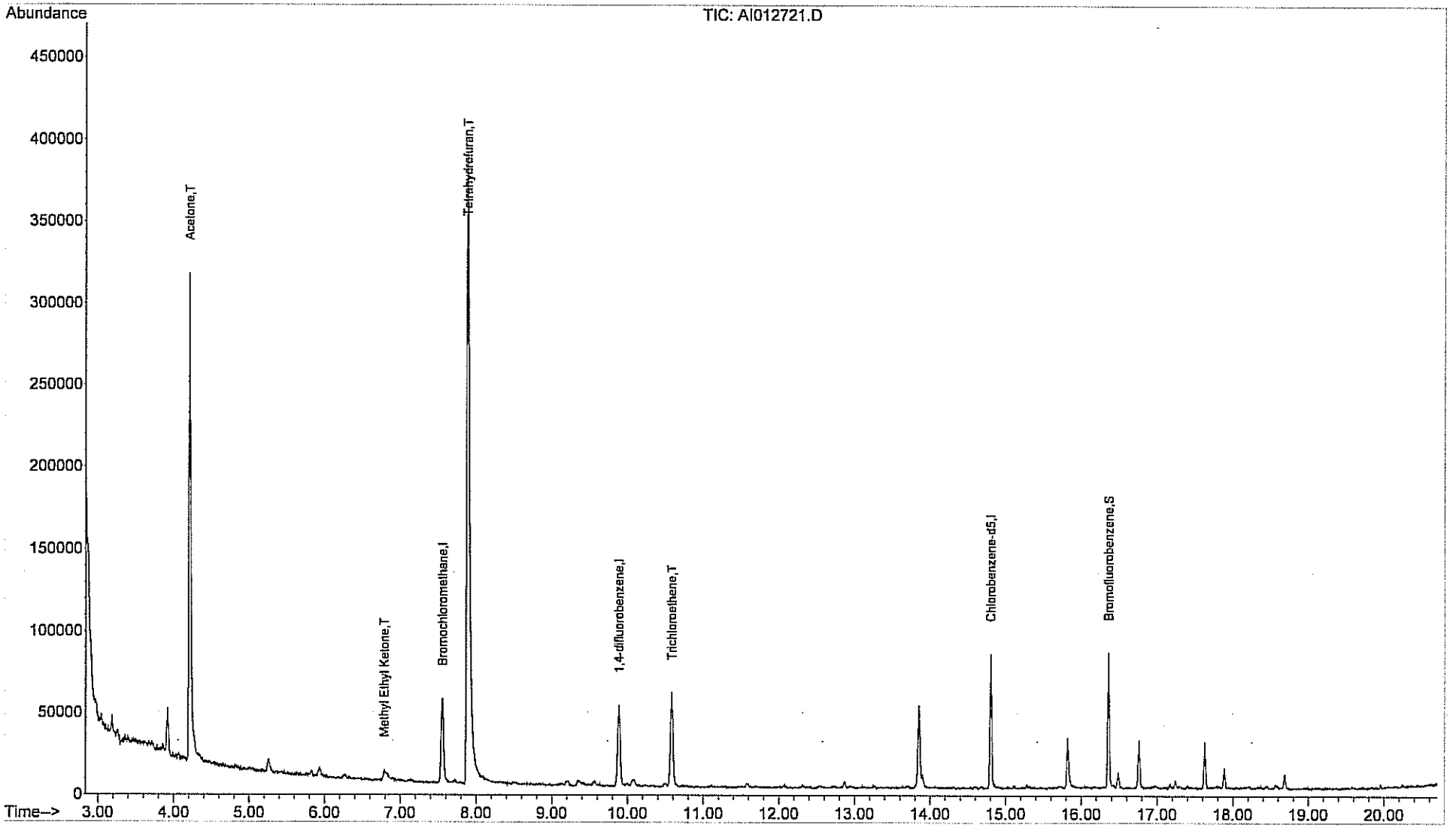
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012721.D
Acq On : 27 Jan 2011 9:11 pm
Sample : C1101031-005A 5X
Misc : C1101031-005A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:38 2011

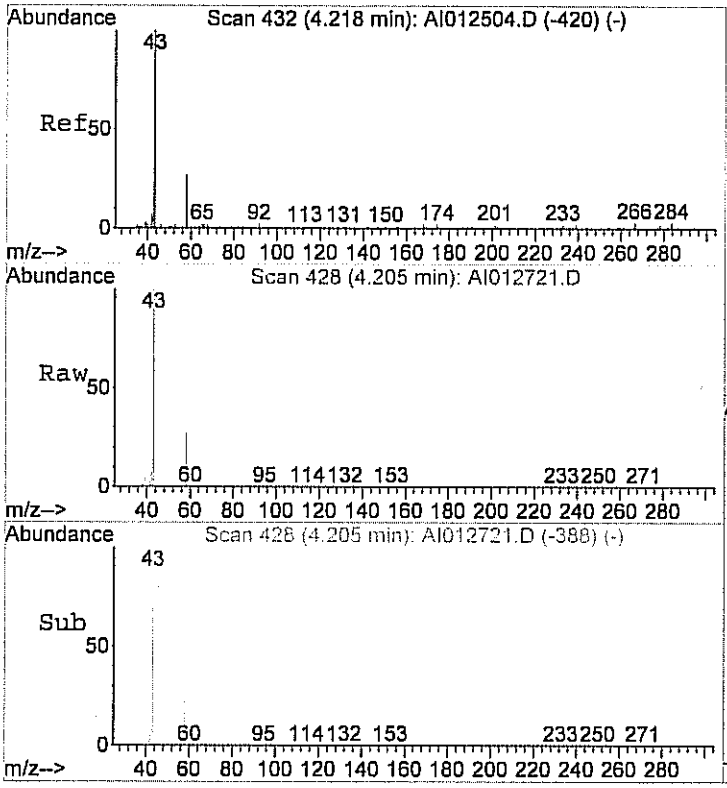
Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



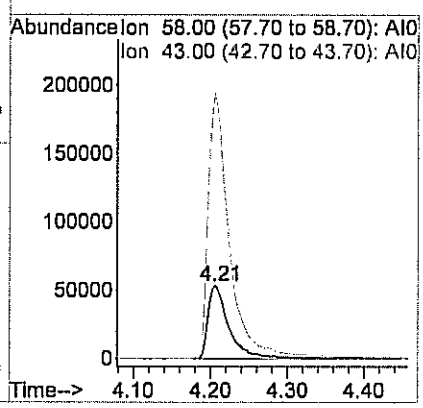
Centek laboratories, LLC

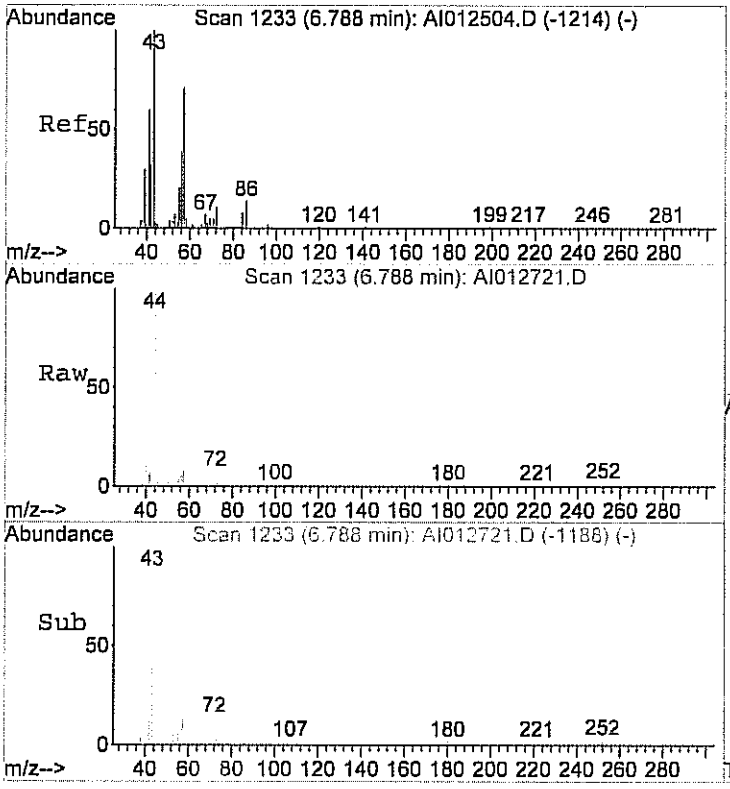


#12
Acetone
Concen: 21.13 ppb
RT: 4.21 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 58 Resp: 102357

Ion	Ratio	Lower	Upper
58	100		
43	361.9	329.0	389.0

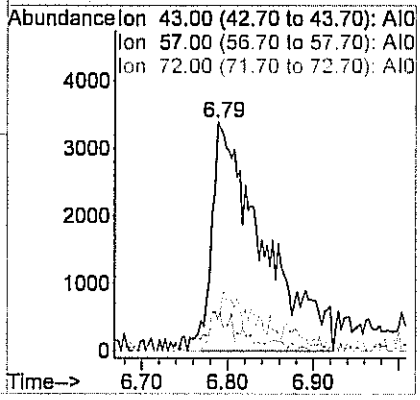


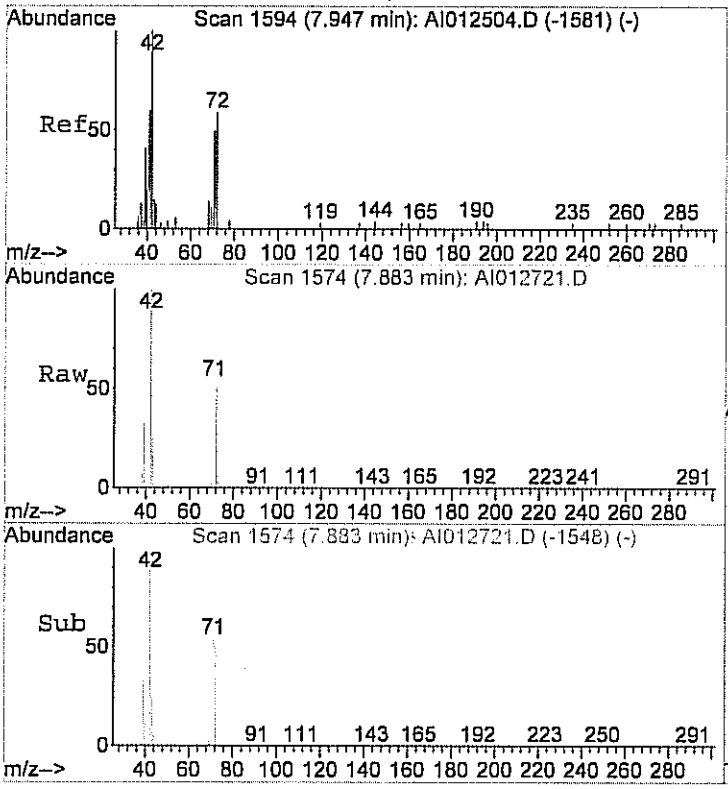


#23
Methyl Ethyl Ketone
Concen: 0.55 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.01 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 43 Resp: 14115

Ion	Ratio	Lower	Upper
43	100		
57	10.0	37.8	77.8#
72	18.7	1.1	41.1

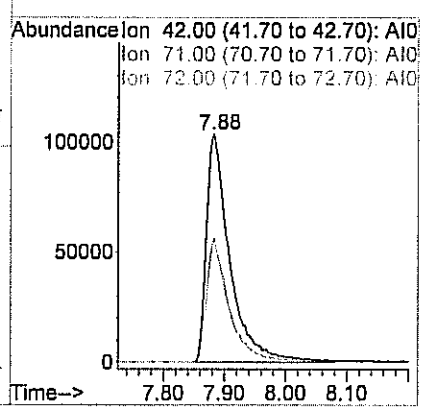


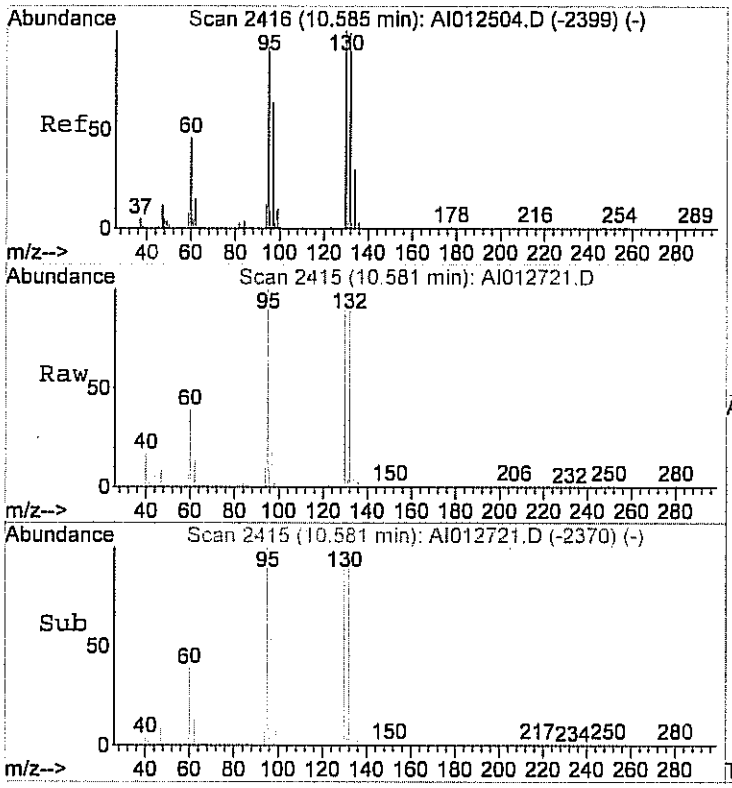


#28
Tetrahydrofuran
Concen: 35.25 ppb
RT: 7.88 min Scan# 1574
Delta R.T. -0.07 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 42 Resp: 278422

Ion	Ratio	Lower	Upper
42	100		
71	52.5	37.9	77.9
72	50.5	38.0	78.0

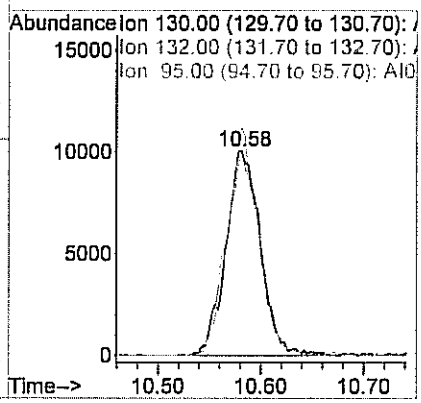




#38
Trichloroethene
Concen: 1.06 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion:130 Resp: 23514

Ion	Ratio	Lower	Upper
130	100		
132	96.6	77.0	117.0
95	103.4	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012813.D Vial: 5
Acq On : 28 Jan 2011 6:07 pm Operator: RJP
Sample : C1101031-005A 180X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 18:28:10 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

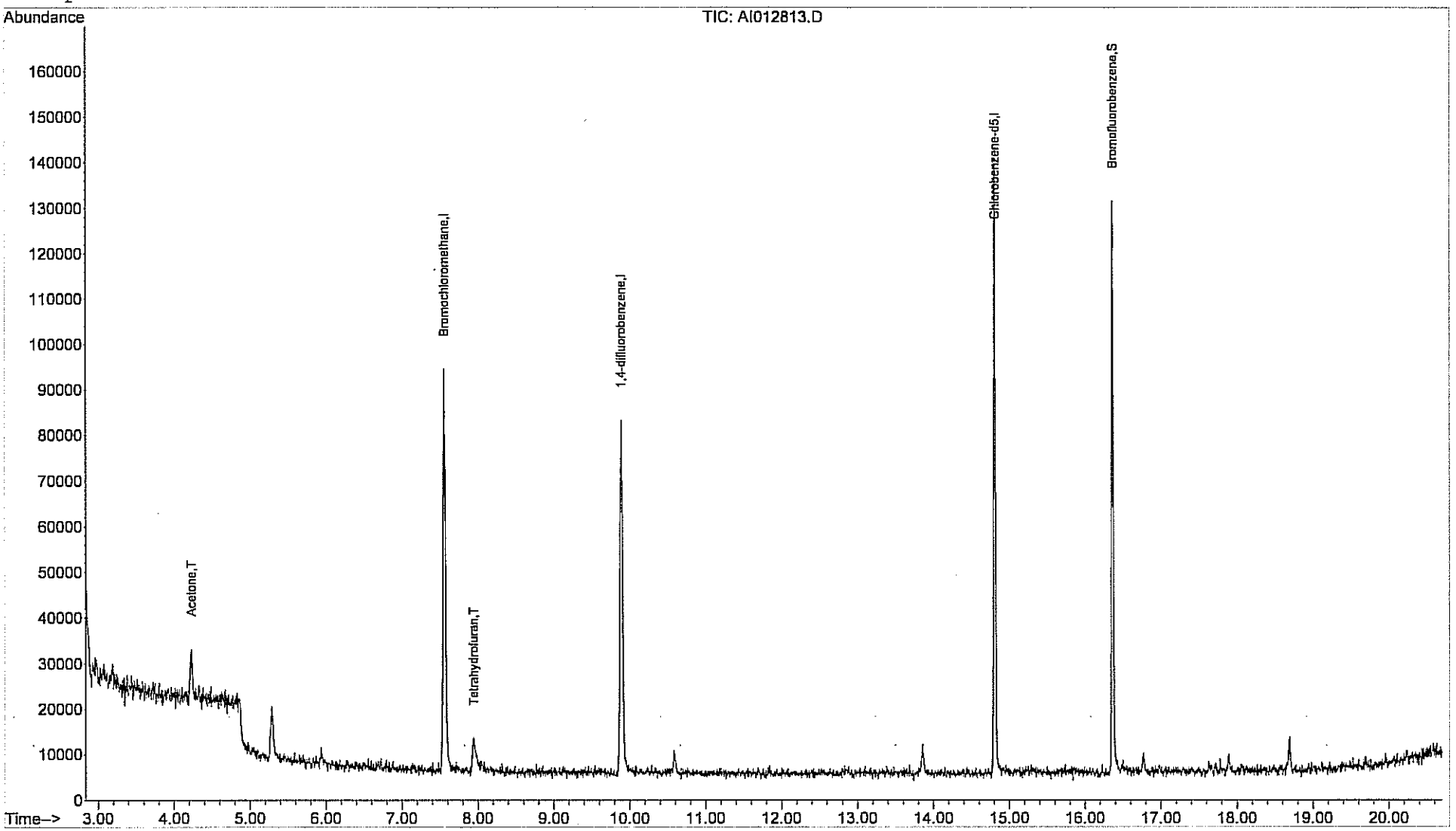
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	30092	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	79423	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	74372	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	36974	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
12) Acetone	4.22	58	4180	0.52	ppb	97
28) Tetrahydrofuran	7.95	42	8020m	0.61	ppb	

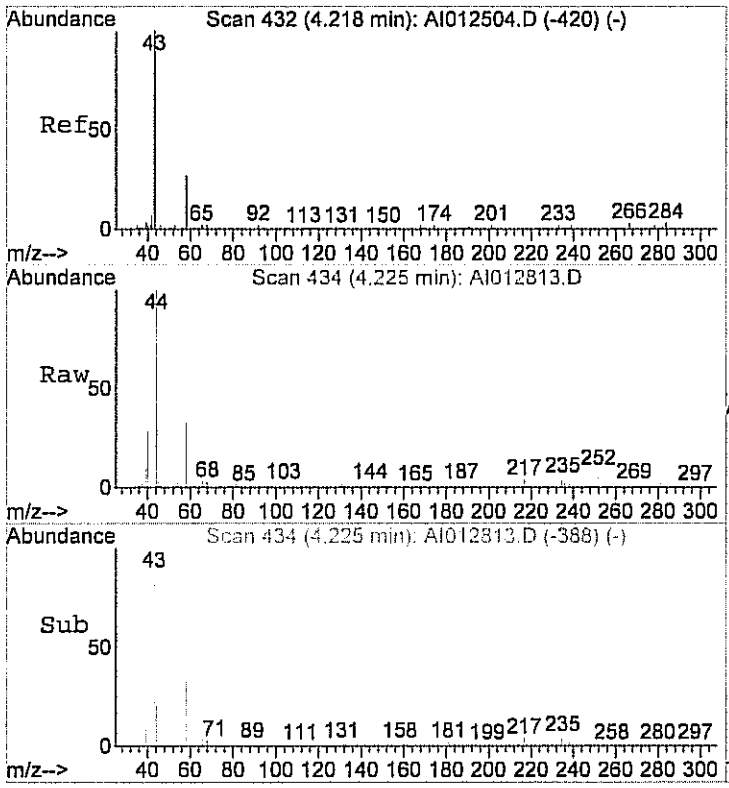
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012813.D Vial: 5
Acq On : 28 Jan 2011 6:07 pm Operator: RJP
Sample : C1101031-005A 180X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:39 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

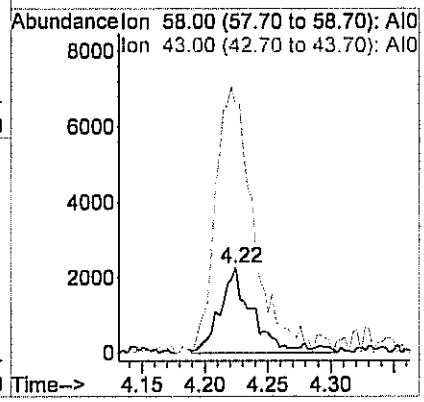


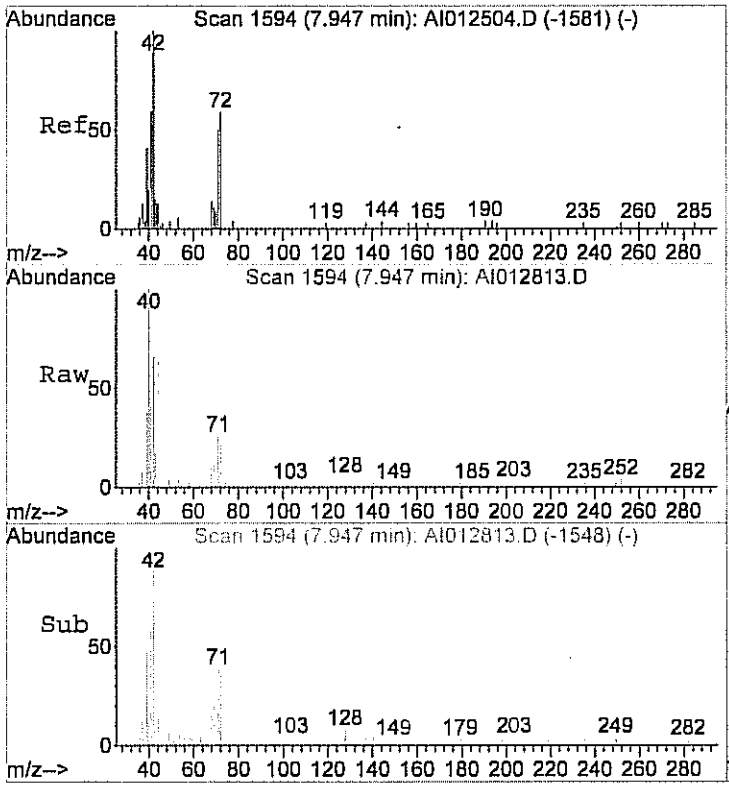


#12
Acetone
Concen: 0.52 ppb
RT: 4.22 min Scan# 434
Delta R.T. -0.00 min
Lab File: AI012813.D
Acq: 28 Jan 2011 6:07 pm

Tgt Ion: 58 Resp: 4180

Ion	Ratio	Lower	Upper
58	100		
43	353.0	329.0	389.0

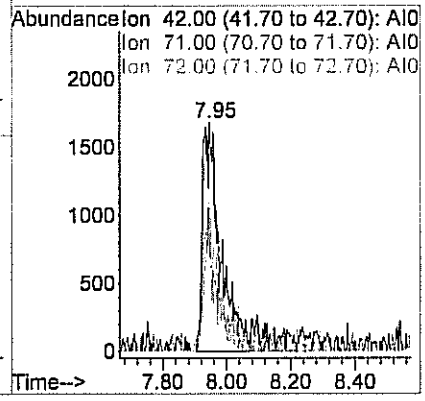




#28
Tetrahydrofuran
Concen: 0.61 ppb m
RT: 7.95 min Scan# 1594
Delta R.T. -0.00 min
Lab File: AI012813.D
Acq: 28 Jan 2011 6:07 pm

Tgt Ion: 42 Resp: 8020

Ion	Ratio	Lower	Upper
42	100		
71	39.2	37.9	77.9
72	32.9	38.0	78.0#



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Acetone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Acetone	< 0.72	0.72		ug/m3	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/27/2011 4:23:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/27/2011 4:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/27/2011 4:23:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/27/2011 4:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/27/2011 4:23:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012712.D Vial: 1
Acq On : 27 Jan 2011 4:23 pm Operator: RJP
Sample : C1101031-006A Inst : MSD #1
Misc : C1101031-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 16:44:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17451	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	41299	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	38982	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	19321	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

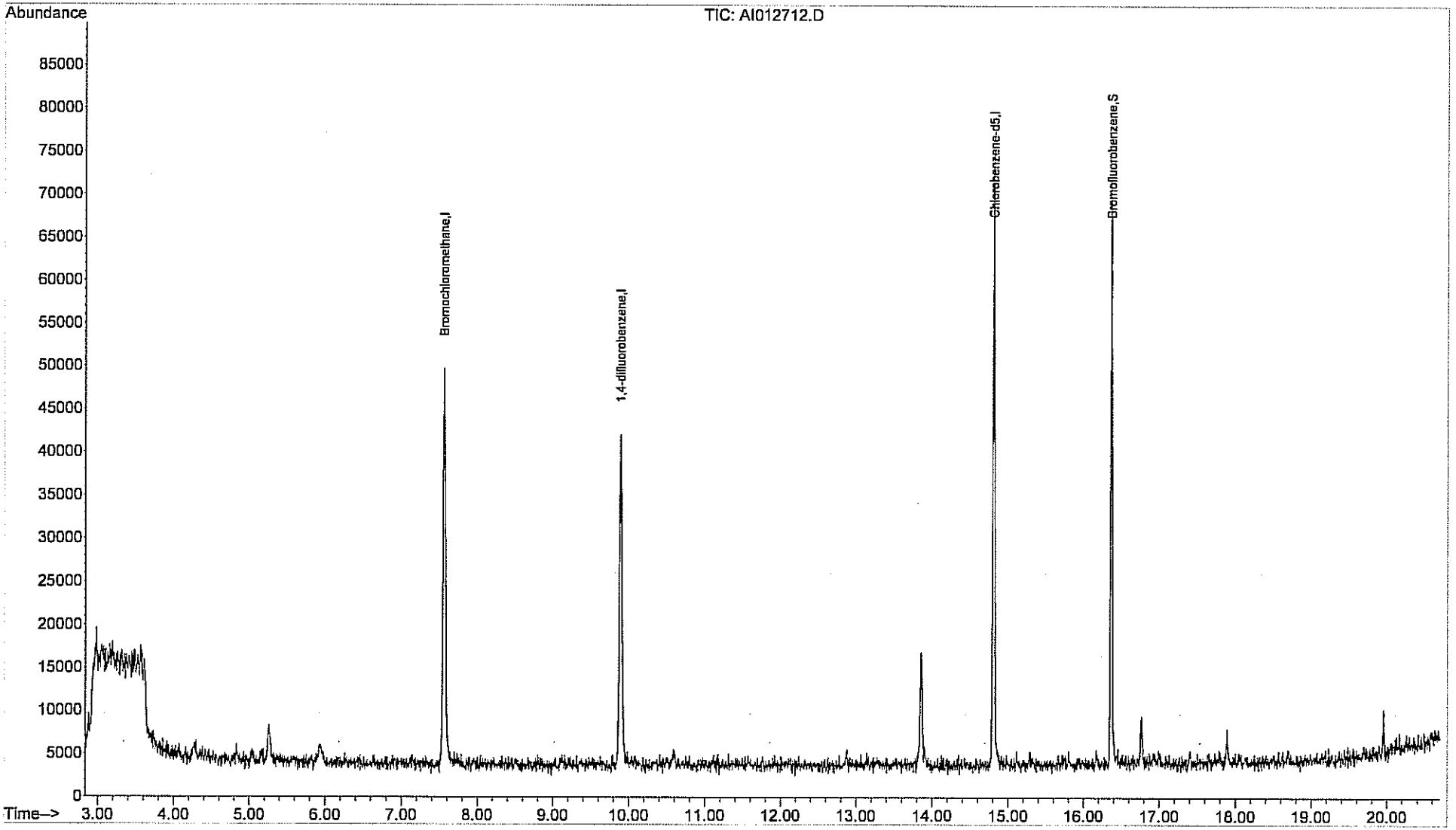
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012712.D
Acq On : 27 Jan 2011 4:23 pm
Sample : C1101031-006A
Misc : C1101031-006A
MS Integration Params: RTEINT.P
Quant Time: Jan 27 16:44 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI010612.D 0.10 =AI010611.D 0.15 =AI010610.D
0.30 =AI010609.D 0.50 =AI010608.D 0.75 =AI010607.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.579	0.524	0.520	0.478	0.509	6.38
3)	T	Freon 12			2.876	3.014	3.073	2.925	2.933	3.19
4)	T	Chloromethane			0.674	0.696	0.705	0.686	0.673	3.82
5)	T	Freon 114			1.572	1.601	1.738	1.702	1.671	3.75
6)	T	Vinyl Chloride		0.611	0.529	0.584	0.565	0.548	0.555	5.48
7)	T	1,3-butadiene			0.508	0.519	0.445	0.442	0.444	10.72
8)	T	Bromomethane			0.639	0.604	0.664	0.592	0.588	8.01
9)	T	Chloroethane			0.218	0.244	0.232	0.214	0.223	5.15
10)	T	Vinyl Bromide			0.668	0.609	0.643	0.629	0.637	3.35
11)	T	Freon 11			1.710	1.713	1.791	1.730	1.724	2.71
12)	T	Acetone			0.256	0.313	0.318	0.250	0.270	13.20
13)	T	Isopropyl alcoh			0.571	0.631	0.570	0.633	0.577	9.03
14)	T	1,1-dichloroeth			0.773	0.818	0.899	0.837	0.814	12.45
15)	T	Freon 113			1.884	2.114	2.127	2.116	1.976	17.59
16)	T	Methylene chlor			0.783	0.788	0.863	0.833	0.821	3.68
17)	T	Allyl chloride			0.557	0.596	0.610	0.625	0.644	8.62
18)	T	Carbon disulfid			2.547	2.597	2.570	2.551	2.541	1.71
19)	T	trans-1,2-dichl			0.961	1.091	1.157	1.128	1.122	6.36
20)	T	methyl tert-but			0.926	1.004	1.132	1.135	1.160	12.27
21)	T	1,1-dichloroeth			1.262	1.423	1.489	1.462	1.462	6.05
22)	T	Vinyl acetate			0.697	0.744	0.847	0.908	0.895	15.21
23)	T	Methyl Ethyl Ke				1.361	1.205	1.463	1.441	9.21
24)	T	cis-1,2-dichlor			0.826	0.956	0.957	0.981	0.973	6.82
25)	T	Hexane			0.652	0.628	0.667	0.660	0.687	5.84
26)	T	Ethyl acetate				1.090	0.956	1.064	1.070	7.32
27)	T	Chloroform			1.895	2.075	2.123	2.143	2.102	4.28
28)	T	Tetrahydrofuran				0.423	0.396	0.414	0.440	7.62
29)	T	1,2-dichloroeth			1.112	1.188	1.292	1.275	1.262	5.92
30)	I	1,4-difluorobenzene	----------ISTD----------							
31)	T	1,1,1-trichloro			0.576	0.630	0.646	0.660	0.637	4.86
32)	T	Cyclohexane			0.193	0.225	0.233	0.265	0.251	12.58
33)	T	Carbon tetrachl	1.542	0.815	0.765	0.825	0.825	0.818	0.880	26.64
34)	T	Benzene			0.609	0.698	0.676	0.674	0.693	6.27
35)	T	1,4-dioxane				0.126	0.107	0.101	0.109	7.91
36)	T	2,2,4-trimethyl			0.641	0.691	0.724	0.740	0.746	8.02
37)	T	Heptane			0.218	0.236	0.238	0.238	0.248	7.34
38)	T	Trichloroethene	0.740	0.380	0.385	0.388	0.401	0.410	0.439	24.54
39)	T	1,2-dichloropro			0.238	0.249	0.273	0.270	0.266	5.92
40)	T	Bromodichlorome			0.702	0.747	0.806	0.822	0.783	6.15
41)	T	cis-1,3-dichlor			0.220	0.220	0.244	0.266	0.263	12.15
42)	T	trans-1,3-dichl			0.202	0.189	0.219	0.221	0.217	7.35
43)	T	1,1,2-trichloro			0.318	0.338	0.380	0.379	0.361	7.19
44)	I	Chlorobenzene-d5	----------ISTD----------							
45)	T	Toluene			0.322	0.343	0.389	0.424	0.417	14.53
46)	T	Methyl Isobutyl				0.300	0.322	0.282	0.307	5.47
47)	T	Dibromochlorome			0.885	0.890	0.973	1.004	0.967	5.43
48)	T	Methyl Butyl Ke				0.314	0.250	0.274	0.260	10.38
49)	T	1,2-dibromoetha			0.471	0.501	0.563	0.570	0.553	7.84
50)	T	Tetrachloroethy			0.456	0.461	0.468	0.492	0.480	3.96
51)	T	Chlorobenzene			0.611	0.659	0.713	0.729	0.716	7.71

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI010612.D 0.10 =AI010611.D 0.15 =AI010610.D
0.30 =AI010609.D 0.50 =AI010608.D 0.75 =AI010607.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52)	T	Ethylbenzene			0.564	0.670	0.749	0.786	0.799	16.78
53)	T	m&p-xylene			0.410	0.469	0.570	0.638	0.655	24.61
54)	T	Styrene			0.291	0.303	0.364	0.396	0.404	19.75
55)	T	Bromoform			0.818	0.872	0.967	1.000	0.971	8.64
56)	T	o-xylene			0.616	0.719	0.597	0.899	0.781	16.14
57)	S	Bromofluorobenz	0.440	0.462	0.463	0.497	0.489	0.519	0.505	8.13
58)	T	1,1,2,2-tetrach			0.523	0.605	0.700	0.685	0.680	11.74
59)	T	4-ethyltoluene			0.430	0.536	0.660	0.643	0.725	25.95
60)	T	1,3,5-trimethyl			0.368	0.432	0.561	0.565	0.638	29.19
61)	T	1,2,4-trimethyl			0.337	0.420	0.471	0.490	0.503	18.78
62)	T	1,3-dichloroben			0.323	0.432	0.464	0.490	0.512	20.19
63)	T	benzyl chloride			0.307	0.240	0.280	0.352	0.327	14.73
64)	T	1,4-dichloroben			0.309	0.400	0.447	0.465	0.496	21.80
65)	T	1,2-dichloroben			0.309	0.345	0.408	0.462	0.452	19.84
66)	T	1,2,4-trichloro			0.136	0.120	0.141	0.122	0.143	11.06
67)	T	Hexachloro-1,3-			0.285	0.314	0.350	0.285	0.332	11.18

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	26241	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	82909	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	71859	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	38537	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	25265	1.93	ppb	91
3) Freon 12	2.91	85	145888	1.85	ppb	99
4) Chloromethane	3.05	50	33264	1.94	ppb	97
5) Freon 114	3.05	85	85765	1.87	ppb	95
6) Vinyl Chloride	3.18	62	26721	1.80	ppb	99
7) 1,3-butadiene	3.26	39	19868	1.79	ppb	96
8) Bromomethane	3.50	94	27928	1.91	ppb	99
9) Chloroethane	3.62	64	10982	1.82	ppb	92
10) Vinyl Bromide	3.87	106	31954	1.85	ppb	99
11) Freon 11	4.07	101	85717	1.85	ppb	100
12) Acetone	4.22	58	12534m	1.60	ppb	
13) Isopropyl alcohol	4.32	45	25419m	1.56	ppb	
14) 1,1-dichloroethene	4.66	96	30672m	1.40	ppb	
15) Freon 113	4.83	101	60030	1.06	ppb	96
16) Methylene chloride	5.05	84	41584	1.87	ppb	94
17) Allyl chloride	5.03	41	37745	2.16	ppb	96
18) Carbon disulfide	5.16	76	128466	1.92	ppb	98
19) trans-1,2-dichloroethene	5.88	61	60719	2.04	ppb	91
20) methyl tert-butyl ether	5.95	73	67865	2.19	ppb	92
21) 1,1-dichloroethane	6.27	63	77783	1.95	ppb	97
22) Vinyl acetate	6.29	43	56833	2.49	ppb	95
23) Methyl Ethyl Ketone	6.78	43	84223	2.29	ppb	95
24) cis-1,2-dichloroethene	7.14	61	53380	2.06	ppb	93
25) Hexane	6.78	41	37823	2.05	ppb	92
26) Ethyl acetate	7.37	43	59541	2.31	ppb	97
27) Chloroform	7.73	83	109835	1.93	ppb	97
28) Tetrahydrofuran	7.93	42	24620	2.20	ppb	91
29) 1,2-dichloroethane	8.80	62	67800	2.02	ppb	99
31) 1,1,1-trichloroethane	8.51	97	101265	1.88	ppb	98
32) Cyclohexane	9.21	56	45430	2.10	ppb	88
33) Carbon tetrachloride	9.14	117	123182	1.79	ppb	97
34) Benzene	9.11	78	112841	1.87	ppb	98
35) 1,4-dioxane	10.96	88	16887	1.92	ppb	94
36) 2,2,4-trimethylpentane	10.08	57	126346	1.91	ppb	98
37) Heptane	10.50	43	42603	1.98	ppb	95
38) Trichloroethene	10.59	130	65373	1.84	ppb	96
39) 1,2-dichloropropane	10.71	63	42648	1.87	ppb	98
40) Bromodichloromethane	11.11	83	121772	1.84	ppb	99
41) cis-1,3-dichloropropene	12.02	75	46938	2.05	ppb	96
42) trans-1,3-dichloropropene	12.83	75	35501	1.95	ppb	96
43) 1,1,2-trichloroethane	13.15	97	56017	1.82	ppb	99
45) Toluene	12.88	92	67491	2.12	ppb	98
46) Methyl Isobutyl Ketone	12.00	43	45443	2.21	ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

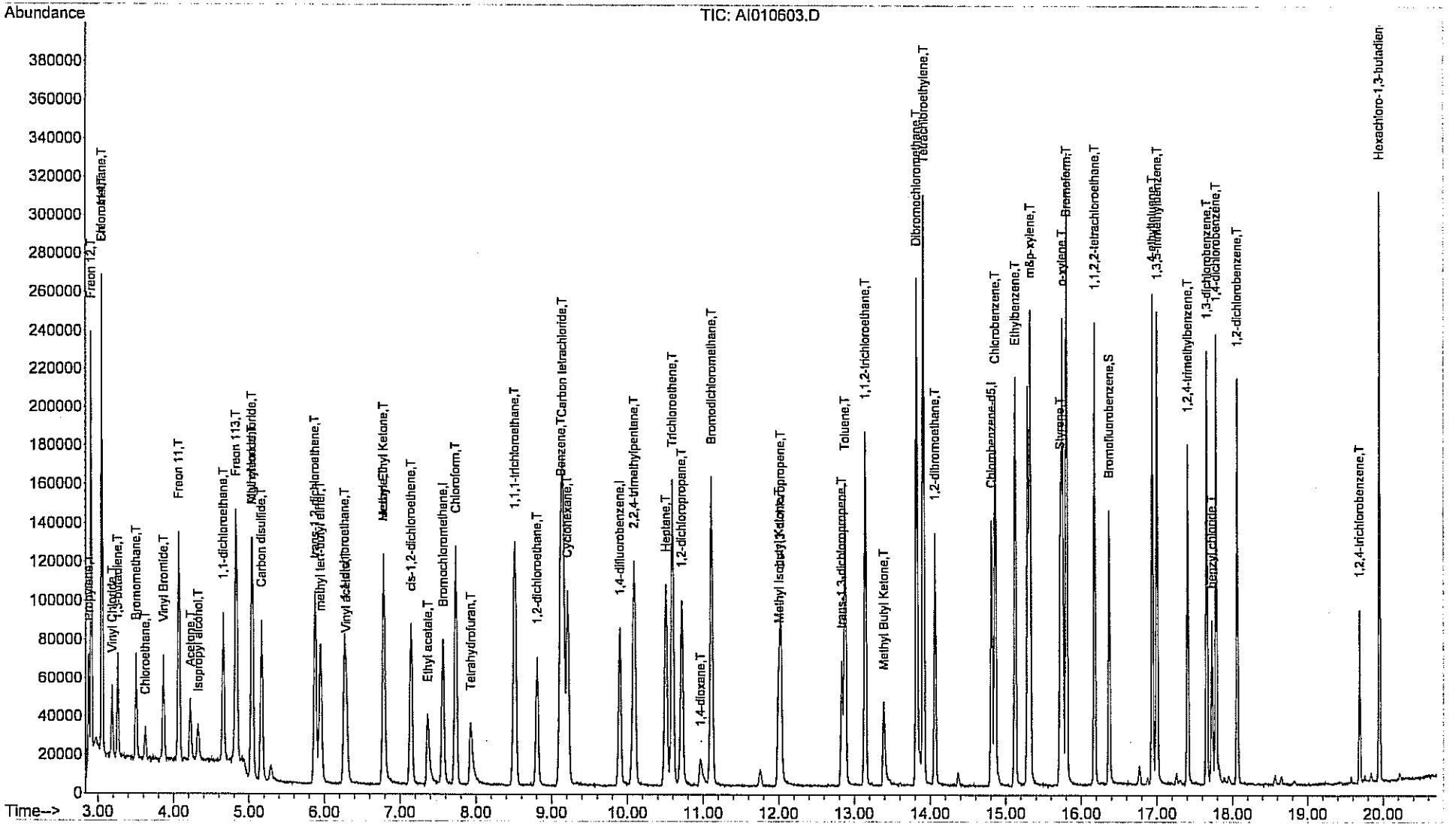
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	138762	1.91	ppb	100
48)	Methyl Butyl Ketone	13.38	43	34081	1.87	ppb	95
49)	1,2-dibromoethane	14.06	107	80707	1.93	ppb	99
50)	Tetrachloroethylene	13.91	164	66900	1.85	ppb	99
51)	Chlorobenzene	14.86	112	104267	1.90	ppb	96
52)	Ethylbenzene	15.13	91	132806	2.17	ppb	96
53)	m&p-xylene	15.32	91	232706	4.56	ppb	98
54)	Styrene	15.72	104	69243	2.24	ppb	97
55)	Bromoform	15.80	173	142610	1.94	ppb	100
56)	o-xylene	15.75	91	125882	2.26	ppb	98
58)	1,1,2,2-tetrachloroethane	16.18	83	98672	1.86	ppb	98
59)	4-ethyltoluene	16.94	105	129746	2.27	ppb	100
60)	1,3,5-trimethylbenzene	17.00	105	117598	2.38	ppb	100
61)	1,2,4-trimethylbenzene	17.41	105	84264	2.24	ppb	99
62)	1,3-dichlorobenzene	17.66	146	83682	2.00	ppb	98
63)	benzyl chloride	17.73	91	50822	2.09	ppb	97
64)	1,4-dichlorobenzene	17.78	146	83552	2.05	ppb	98
65)	1,2-dichlorobenzene	18.06	146	73262	2.02	ppb	98
66)	1,2,4-trichlorobenzene	19.69	180	21789	1.90	ppb	96
67)	Hexachloro-1,3-butadiene	19.95	225	45039	1.74	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:11 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010603.D A106_1UG.M Tue Feb 08 13:41:40 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D Vial: 4
Acq On : 6 Jan 2011 8:16 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	25617	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	76126	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	69097	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	38832	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	18905	1.48	ppb		95
3) Freon 12	2.91	85	110244	1.44	ppb		99
4) Chloromethane	3.05	50	24903	1.49	ppb		96
5) Freon 114	3.05	85	64664	1.45	ppb		96
6) Vinyl Chloride	3.19	62	20657	1.43	ppb		99
7) 1,3-butadiene	3.26	39	16096	1.49	ppb		90
8) Bromomethane	3.50	94	20678	1.45	ppb		96
9) Chloroethane	3.63	64	8585	1.46	ppb		99
10) Vinyl Bromide	3.86	106	24883	1.47	ppb		95
11) Freon 11	4.07	101	65707	1.45	ppb		100
12) Acetone	4.22	58	8503	1.11	ppb	#	65
13) Isopropyl alcohol	4.33	45	20365	1.28	ppb	#	38
14) 1,1-dichloroethene	4.66	96	33777	1.58	ppb		97
15) Freon 113	4.83	101	82257	1.49	ppb		96
16) Methylene chloride	5.05	84	31586	1.45	ppb		94
17) Allyl chloride	5.03	41	26630	1.56	ppb		98
18) Carbon disulfide	5.17	76	97092	1.48	ppb		98
19) trans-1,2-dichloroethene	5.88	61	44517	1.53	ppb		92
20) methyl tert-butyl ether	5.95	73	49684	1.64	ppb		89
21) 1,1-dichloroethane	6.27	63	58261	1.49	ppb		100
22) Vinyl acetate	6.29	43	40354	1.81	ppb		97
23) Methyl Ethyl Ketone	6.79	43	58411	1.63	ppb		98
24) cis-1,2-dichloroethene	7.14	61	39202	1.55	ppb		95
25) Hexane	6.79	41	27807	1.54	ppb	#	87
26) Ethyl acetate	7.37	43	45102	1.79	ppb		97
27) Chloroform	7.73	83	82870	1.49	ppb		100
28) Tetrahydrofuran	7.94	42	18469	1.69	ppb		89
29) 1,2-dichloroethane	8.80	62	51525	1.57	ppb		99
31) 1,1,1-trichloroethane	8.50	97	75412	1.52	ppb		100
32) Cyclohexane	9.21	56	33130	1.66	ppb		88
33) Carbon tetrachloride	9.15	117	93730	1.49	ppb		99
34) Benzene	9.11	78	84320	1.52	ppb		99
35) 1,4-dioxane	10.97	88	13053m	1.62	ppb		
36) 2,2,4-trimethylpentane	10.08	57	91143	1.50	ppb		97
37) Heptane	10.51	43	30503	1.55	ppb		97
38) Trichloroethene	10.59	130	49697	1.52	ppb		97
39) 1,2-dichloropropane	10.72	63	32290	1.54	ppb		98
40) Bromodichloromethane	11.11	83	95262	1.56	ppb		98
41) cis-1,3-dichloropropene	12.02	75	34695	1.65	ppb		98
42) trans-1,3-dichloropropene	12.83	75	27455	1.64	ppb		98
43) 1,1,2-trichloroethane	13.15	97	43727	1.55	ppb		97
45) Toluene	12.88	92	50665	1.66	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	33226	1.68	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D Vial: 4
Acq On : 6 Jan 2011 8:16 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	105677	1.51	ppb	99
48)	Methyl Butyl Ketone	13.39	43	24448	1.39	ppb	95
49)	1,2-dibromoethane	14.06	107	61143	1.52	ppb	99
50)	Tetrachloroethylene	13.91	164	51631	1.48	ppb	99
51)	Chlorobenzene	14.86	112	79724	1.51	ppb	95
52)	Ethylbenzene	15.12	91	99020	1.68	ppb	98
53)	m&p-xylene	15.32	91	174407	3.55	ppb	98
54)	Styrene	15.72	104	51700	1.74	ppb	94
55)	Bromoform	15.80	173	109887	1.55	ppb	98
56)	o-xylene	15.75	91	94692	1.77	ppb	99
58)	1,1,2,2-tetrachloroethane	16.17	83	78982	1.55	ppb	98
59)	4-ethyltoluene	16.94	105	99501	1.81	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	90571	1.90	ppb	100
61)	1,2,4-trimethylbenzene	17.41	105	64750	1.79	ppb	97
62)	1,3-dichlorobenzene	17.66	146	64565	1.60	ppb	98
63)	benzyl chloride	17.73	91	39654	1.70	ppb	98
64)	1,4-dichlorobenzene	17.78	146	62575	1.60	ppb	97
65)	1,2-dichlorobenzene	18.06	146	57665	1.65	ppb	99
66)	1,2,4-trichlorobenzene	19.69	180	16083	1.46	ppb	100
67)	Hexachloro-1,3-butadiene	19.95	225	38436	1.54	ppb	95

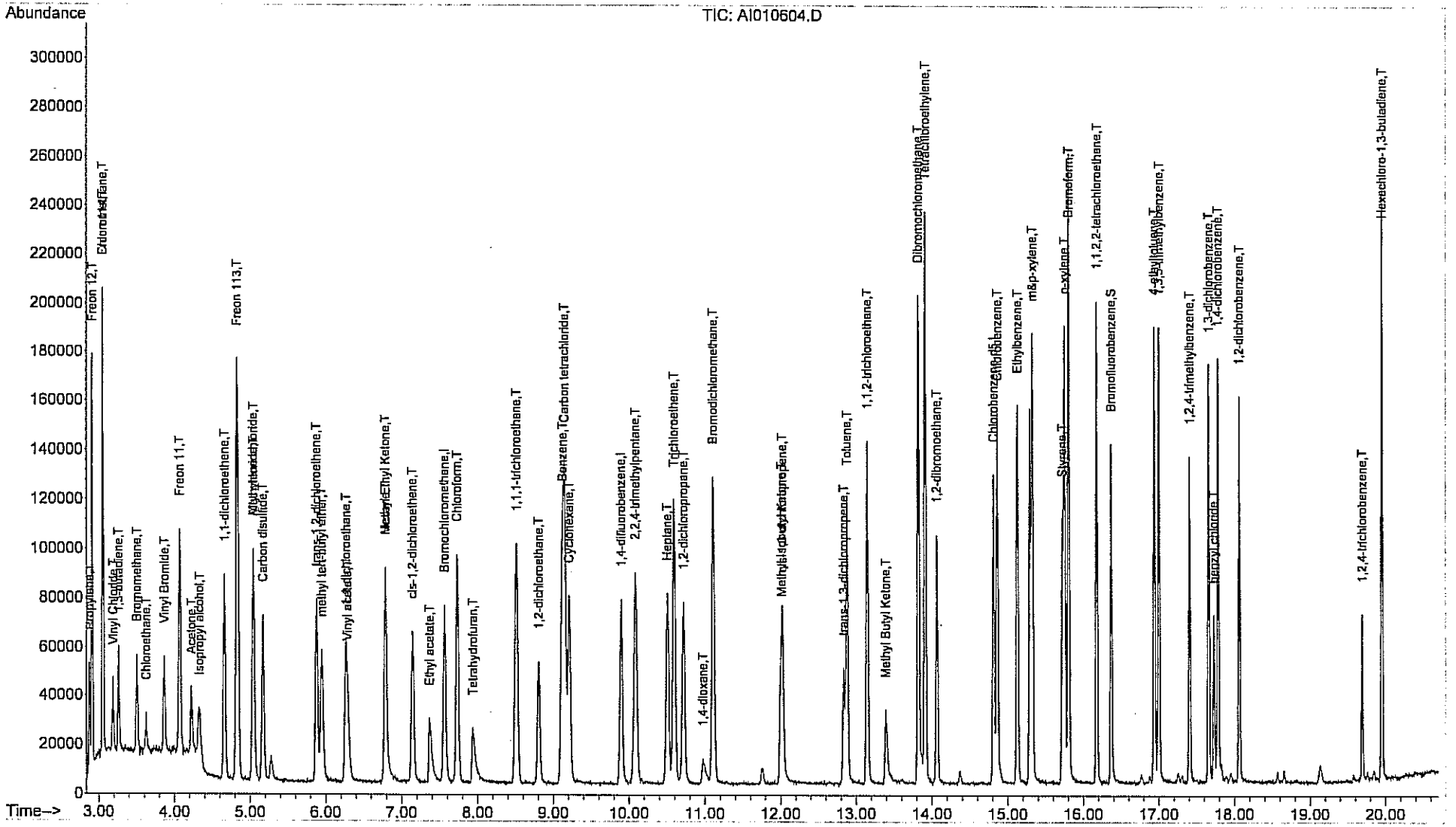
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D
Acq On : 6 Jan 2011 8:16 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:12 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010604.D A106_1UG.M Tue Feb 08 13:41:43 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D Vial: 5
Acq On : 6 Jan 2011 8:49 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25459	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	76719	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	70761	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	37990	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	15993	1.26	ppb		100
3) Freon 12	2.91	85	93162	1.22	ppb		98
4) Chloromethane	3.05	50	22022	1.32	ppb		96
5) Freon 114	3.05	85	53944	1.22	ppb		97
6) Vinyl Chloride	3.18	62	17427	1.21	ppb		99
7) 1,3-butadiene	3.26	39	13276	1.23	ppb		92
8) Bromomethane	3.50	94	18187	1.28	ppb		98
9) Chloroethane	3.62	64	6865	1.17	ppb		92
10) Vinyl Bromide	3.87	106	20150	1.20	ppb		98
11) Freon 11	4.07	101	55367	1.23	ppb		98
12) Acetone	4.22	58	8355m	1.10	ppb		
13) Isopropyl alcohol	4.32	45	18214	1.15	ppb		89
14) 1,1-dichloroethene	4.66	96	28195	1.33	ppb		95
15) Freon 113	4.83	101	67636	1.23	ppb		96
16) Methylene chloride	5.05	84	26709	1.24	ppb		91
17) Allyl chloride	5.03	41	21799	1.29	ppb		95
18) Carbon disulfide	5.17	76	80674	1.24	ppb		98
19) trans-1,2-dichloroethene	5.88	61	37889	1.31	ppb		91
20) methyl tert-butyl ether	5.95	73	41973	1.39	ppb		90
21) 1,1-dichloroethane	6.27	63	48888	1.26	ppb		99
22) Vinyl acetate	6.30	43	30702	1.39	ppb		98
23) Methyl Ethyl Ketone	6.79	43	48824	1.37	ppb		95
24) cis-1,2-dichloroethene	7.14	61	33050	1.31	ppb		93
25) Hexane	6.78	41	23518	1.31	ppb	#	84
26) Ethyl acetate	7.37	43	34623	1.38	ppb		97
27) Chloroform	7.73	83	68817	1.25	ppb		99
28) Tetrahydrofuran	7.94	42	15039	1.39	ppb		87
29) 1,2-dichloroethane	8.80	62	41722	1.28	ppb		100
31) 1,1,1-trichloroethane	8.51	97	63901	1.28	ppb		100
32) Cyclohexane	9.21	56	25572	1.27	ppb		93
33) Carbon tetrachloride	9.14	117	78587	1.24	ppb		98
34) Benzene	9.11	78	70716	1.27	ppb		99
35) 1,4-dioxane	10.98	88	10196	1.26	ppb		84
36) 2,2,4-trimethylpentane	10.08	57	78267	1.28	ppb		98
37) Heptane	10.51	43	25900	1.30	ppb		93
38) Trichloroethene	10.59	130	40999	1.25	ppb		96
39) 1,2-dichloropropane	10.71	63	26777	1.27	ppb		96
40) Bromodichloromethane	11.11	83	78175	1.27	ppb		97
41) cis-1,3-dichloropropene	12.03	75	28053	1.32	ppb		98
42) trans-1,3-dichloropropene	12.84	75	22158	1.31	ppb		100
43) 1,1,2-trichloroethane	13.15	97	36805	1.30	ppb		95
45) Toluene	12.87	92	40583	1.30	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	28194	1.39	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D Vial: 5
Acq On : 6 Jan 2011 8:49 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	87583	1.23	ppb	98
48)	Methyl Butyl Ketone	13.39	43	22957m	1.28	ppb	
49)	1,2-dibromoethane	14.06	107	51709	1.25	ppb	98
50)	Tetrachloroethylene	13.91	164	43534	1.22	ppb	99
51)	Chlorobenzene	14.86	112	66895	1.24	ppb	96
52)	Ethylbenzene	15.12	91	78801	1.31	ppb	99
53)	m&p-xylene	15.32	91	139500	2.77	ppb	99
54)	Styrene	15.72	104	41492	1.36	ppb	95
55)	Bromoform	15.80	173	91340	1.26	ppb	98
56)	o-xylene	15.75	91	75776	1.38	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	65633	1.26	ppb	98
59)	4-ethyltoluene	16.94	105	77288	1.37	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	70714	1.45	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	50337	1.36	ppb	97
62)	1,3-dichlorobenzene	17.66	146	53013	1.29	ppb	98
63)	benzyl chloride	17.73	91	32311	1.35	ppb	97
64)	1,4-dichlorobenzene	17.78	146	52807	1.32	ppb	97
65)	1,2-dichlorobenzene	18.06	146	46461	1.30	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	13922	1.23	ppb	94
67)	Hexachloro-1,3-butadiene	19.95	225	33172	1.30	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

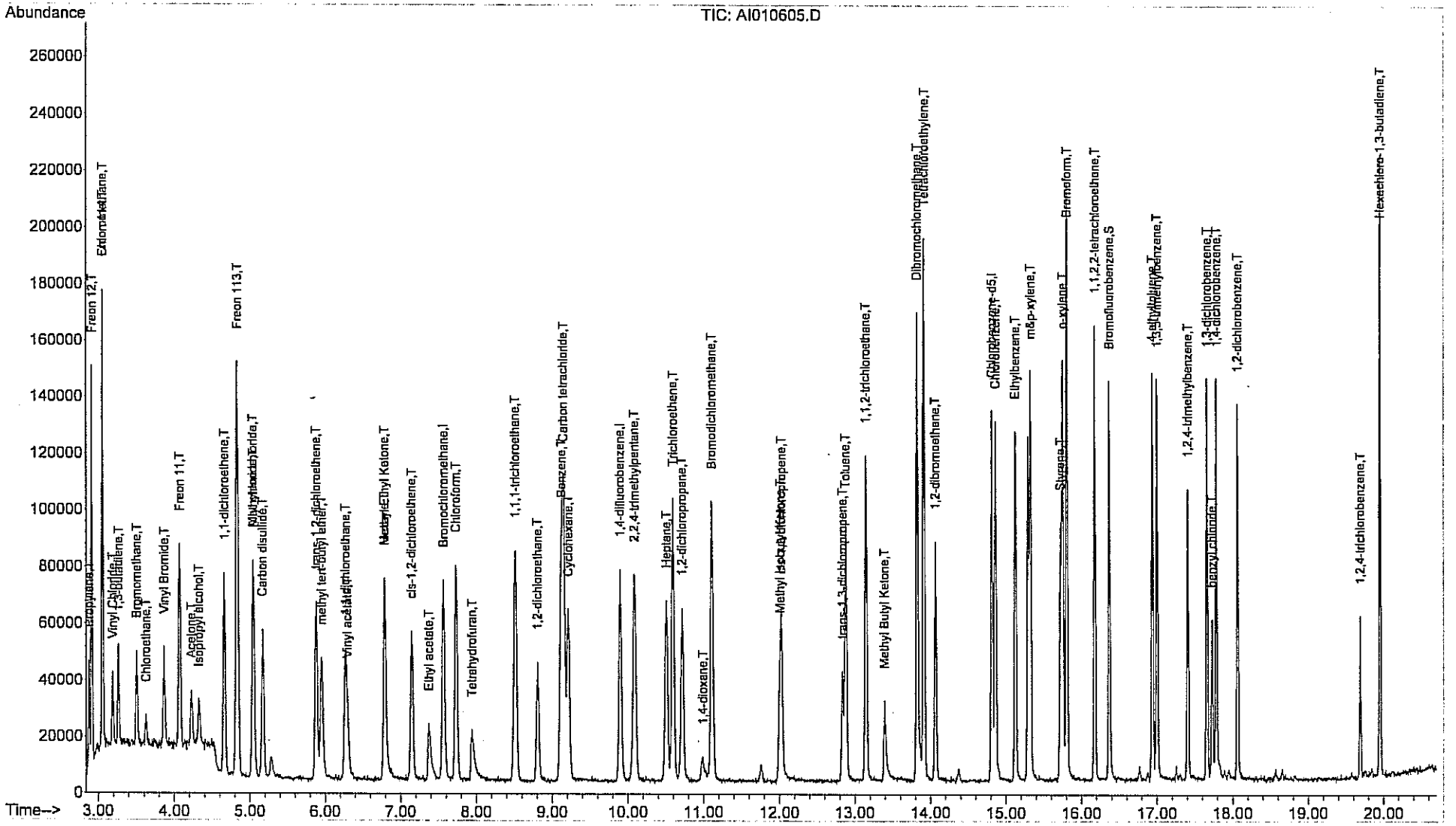
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D
Acq On : 6 Jan 2011 8:49 pm
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:13 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D Vial: 6
Acq On : 6 Jan 2011 9:22 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25550	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	74725	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	67197	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	36643	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	12714	1.00	ppb		99
3) Freon 12	2.91	85	76576	1.00	ppb		99
4) Chloromethane	3.05	50	16682	1.00	ppb		98
5) Freon 114	3.05	85	44541	1.00	ppb		96
6) Vinyl Chloride	3.19	62	14443	1.00	ppb		99
7) 1,3-butadiene	3.26	39	10804	1.00	ppb		93
8) Bromomethane	3.50	94	14265	1.00	ppb		96
9) Chloroethane	3.62	64	5866	1.00	ppb		99
10) Vinyl Bromide	3.87	106	16832	1.00	ppb		100
11) Freon 11	4.07	101	45109	1.00	ppb		97
12) Acetone	4.23	58	7621	1.00	ppb	#	67
13) Isopropyl alcohol	4.33	45	15906	1.00	ppb	#	38
14) 1,1-dichloroethene	4.66	96	21344	1.00	ppb		94
15) Freon 113	4.83	101	55189	1.00	ppb		96
16) Methylene chloride	5.05	84	21704	1.00	ppb		89
17) Allyl chloride	5.03	41	17005	1.00	ppb		94
18) Carbon disulfide	5.17	76	65213	1.00	ppb		99
19) trans-1,2-dichloroethene	5.88	61	29036	1.00	ppb		94
20) methyl tert-butyl ether	5.95	73	30196	1.00	ppb		90
21) 1,1-dichloroethane	6.27	63	38917	1.00	ppb		97
22) Vinyl acetate	6.30	43	22182	1.00	ppb		99
23) Methyl Ethyl Ketone	6.79	43	35791	1.00	ppb		96
24) cis-1,2-dichloroethene	7.14	61	25260	1.00	ppb		95
25) Hexane	6.79	41	17953	1.00	ppb	#	80
26) Ethyl acetate	7.38	43	25040	1.00	ppb		98
27) Chloroform	7.73	83	55409	1.00	ppb		98
28) Tetrahydrofuran	7.95	42	10790	0.99	ppb		82
29) 1,2-dichloroethane	8.80	62	32748	1.00	ppb		100
31) 1,1,1-trichloroethane	8.51	97	48655	1.00	ppb		100
32) Cyclohexane	9.21	56	19543	1.00	ppb		93
33) Carbon tetrachloride	9.15	117	61854	1.00	ppb		100
34) Benzene	9.11	78	54390	1.00	ppb		98
35) 1,4-dioxane	11.00	88	7888	1.00	ppb		91
36) 2,2,4-trimethylpentane	10.08	57	59509	1.00	ppb		99
37) Heptane	10.51	43	19362	1.00	ppb		94
38) Trichloroethene	10.59	130	32039	1.00	ppb		97
39) 1,2-dichloropropane	10.72	63	20535	1.00	ppb		99
40) Bromodichloromethane	11.11	83	59765	1.00	ppb		100
41) cis-1,3-dichloropropene	12.03	75	20630	1.00	ppb		98
42) trans-1,3-dichloropropene	12.84	75	16445	1.00	ppb		99
43) 1,1,2-trichloroethane	13.15	97	27670	1.00	ppb		100
45) Toluene	12.88	92	29758	1.00	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	19269	1.00	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D Vial: 6
Acq On : 6 Jan 2011 9:22 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	67888	1.00	ppb	100
48)	Methyl Butyl Ketone	13.40	43	16905	0.99	ppb	93
49)	1,2-dibromoethane	14.06	107	39133	1.00	ppb	99
50)	Tetrachloroethylene	13.91	164	33901	1.00	ppb	100
51)	Chlorobenzene	14.86	112	51341	1.00	ppb	94
52)	Ethylbenzene	15.13	91	57194	1.00	ppb	97
53)	m&p-xylene	15.32	91	95536	2.00	ppb	100
54)	Styrene	15.72	104	28924	1.00	ppb	92
55)	Bromoform	15.80	173	68866	1.00	ppb	100
56)	o-xylene	15.75	91	51989	1.00	ppb	99
58)	1,1,2,2-tetrachloroethane	16.18	83	49653	1.00	ppb	97
59)	4-ethyltoluene	16.94	105	53557	1.00	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	46252	1.00	ppb	99
61)	1,2,4-trimethylbenzene	17.40	105	35153	1.00	ppb	97
62)	1,3-dichlorobenzene	17.66	146	39165	1.00	ppb	99
63)	benzyl chloride	17.72	91	22713	1.00	ppb	97
64)	1,4-dichlorobenzene	17.78	146	38131	1.00	ppb	97
65)	1,2-dichlorobenzene	18.06	146	33899	1.00	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	10728	1.00	ppb	98
67)	Hexachloro-1,3-butadiene	19.95	225	24206	1.00	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

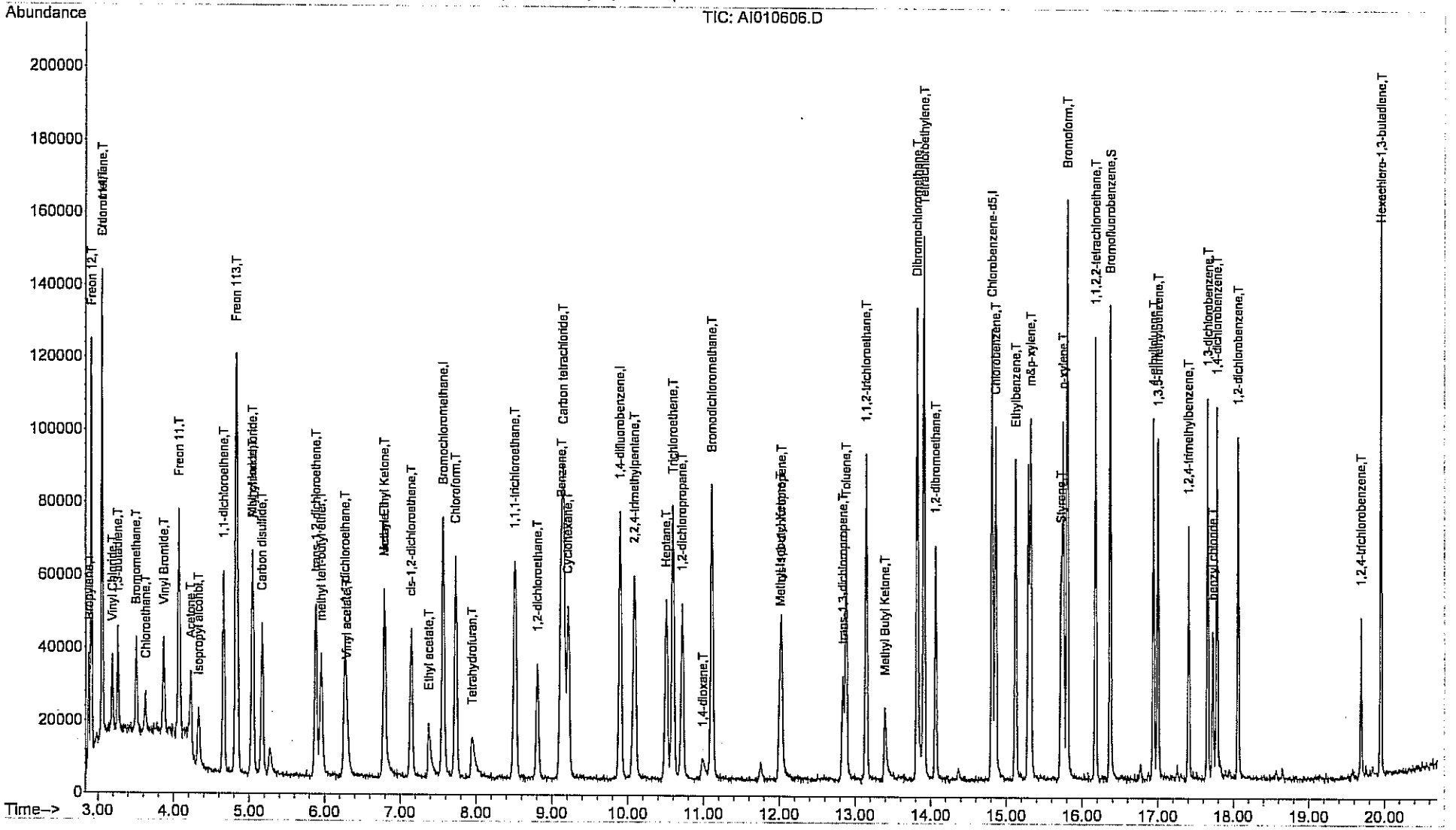
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D
Acq On : 6 Jan 2011 9:22 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:02 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:20 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	25367	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	73524	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	65953	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	34236	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	9088	0.72	ppb		91
3) Freon 12	2.91	85	55658	0.73	ppb		99
4) Chloromethane	3.05	50	13043	0.79	ppb		99
5) Freon 114	3.05	85	32372	0.73	ppb		97
6) Vinyl Chloride	3.19	62	10429	0.73	ppb		98
7) 1,3-butadiene	3.26	39	8402	0.78	ppb		95
8) Bromomethane	3.50	94	11271	0.80	ppb		97
9) Chloroethane	3.63	64	4069	0.70	ppb		91
10) Vinyl Bromide	3.87	106	11971	0.72	ppb		98
11) Freon 11	4.07	101	32913	0.73	ppb		97
12) Acetone	4.23	58	4762m	0.63	ppb		
13) Isopropyl alcohol	4.33	45	12038m	0.76	ppb		
14) 1,1-dichloroethene	4.66	96	15933	0.75	ppb		95
15) Freon 113	4.83	101	40260	0.73	ppb		95
16) Methylene chloride	5.05	84	15857	0.74	ppb		91
17) Allyl chloride	5.03	41	11891	0.70	ppb		92
18) Carbon disulfide	5.17	76	48531	0.75	ppb		100
19) trans-1,2-dichloroethene	5.88	61	21462	0.74	ppb		92
20) methyl tert-butyl ether	5.95	73	21600	0.72	ppb		89
21) 1,1-dichloroethane	6.27	63	27822	0.72	ppb		99
22) Vinyl acetate	6.30	43	17275	0.78	ppb		96
23) Methyl Ethyl Ketone	6.80	43	27833m	0.78	ppb		
24) cis-1,2-dichloroethene	7.15	61	18658	0.74	ppb		97
25) Hexane	6.79	41	12550	0.70	ppb	#	75
26) Ethyl acetate	7.39	43	20249m	0.81	ppb		
27) Chloroform	7.73	83	40768	0.74	ppb		97
28) Tetrahydrofuran	7.95	42	7872	0.73	ppb		83
29) 1,2-dichloroethane	8.81	62	24250	0.75	ppb		99
31) 1,1,1-trichloroethane	8.51	97	36387	0.76	ppb		98
32) Cyclohexane	9.21	56	14616	0.76	ppb		88
33) Carbon tetrachloride	9.14	117	45100	0.74	ppb		98
34) Benzene	9.11	78	37187	0.69	ppb		96
35) 1,4-dioxane	11.00	88	5591m	0.72	ppb		
36) 2,2,4-trimethylpentane	10.09	57	40784	0.70	ppb		95
37) Heptane	10.50	43	13120	0.69	ppb		93
38) Trichloroethene	10.59	130	22636	0.72	ppb		95
39) 1,2-dichloropropane	10.72	63	14910	0.74	ppb		99
40) Bromodichloromethane	11.11	83	45344	0.77	ppb		98
41) cis-1,3-dichloropropene	12.03	75	14649	0.72	ppb		96
42) trans-1,3-dichloropropene	12.83	75	12192	0.75	ppb		96
43) 1,1,2-trichloroethane	13.15	97	20925	0.77	ppb		96
45) Toluene	12.88	92	20978	0.72	ppb		98
46) Methyl Isobutyl Ketone	12.01	43	13971m	0.74	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:20 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

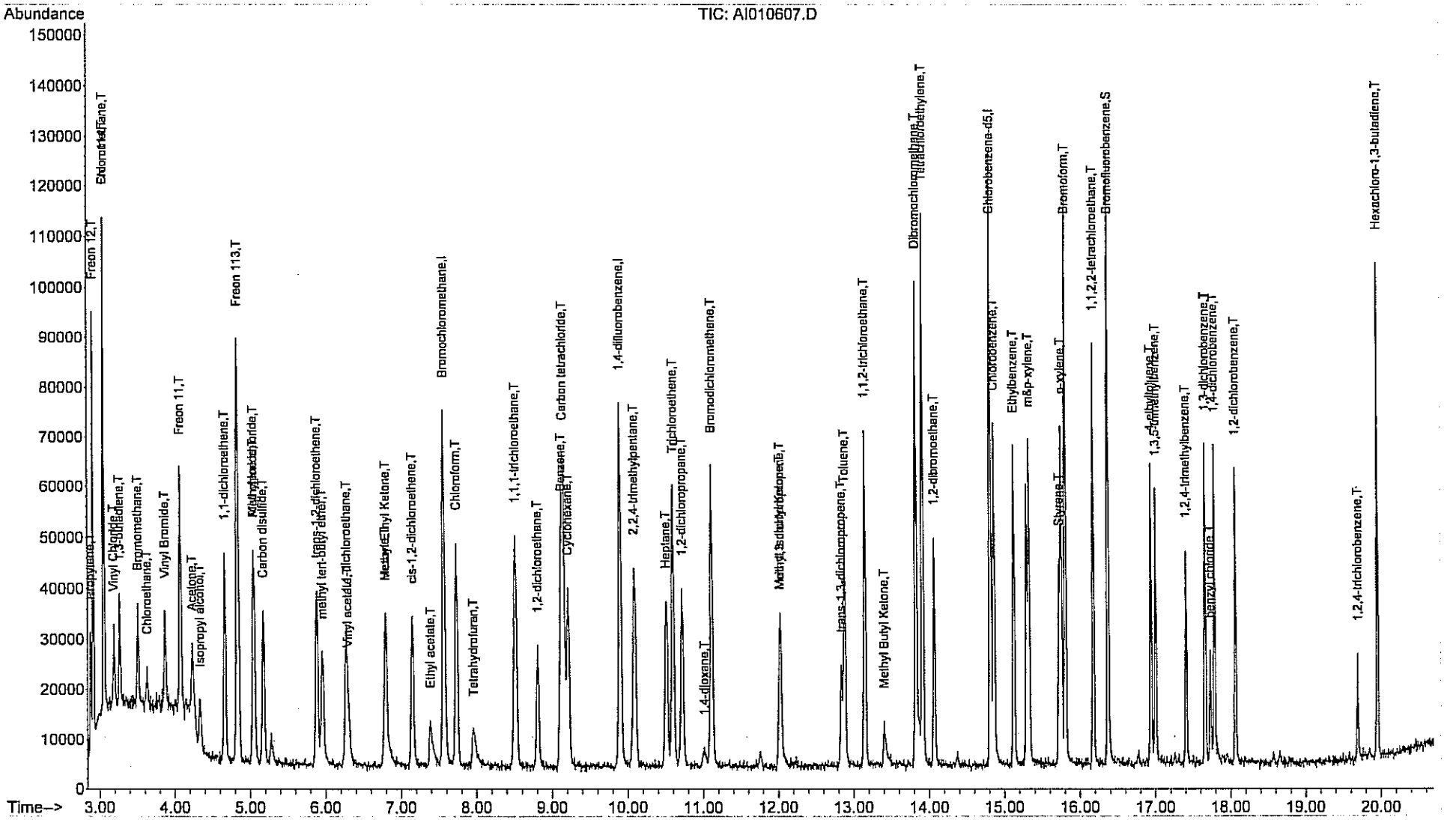
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	49683	0.75	ppb	99
48)	Methyl Butyl Ketone	13.40	43	13542m	0.81	ppb	
49)	1,2-dibromoethane	14.07	107	28197	0.73	ppb	98
50)	Tetrachloroethylene	13.91	164	24336	0.73	ppb	100
51)	Chlorobenzene	14.86	112	36055	0.72	ppb	95
52)	Ethylbenzene	15.12	91	38877	0.69	ppb	98
53)	m&p-xylene	15.32	91	63130	1.35	ppb	99
54)	Styrene	15.72	104	19607	0.69	ppb	95
55)	Bromoform	15.80	173	49460	0.73	ppb	99
56)	o-xylene	15.75	91	44492m	0.87	ppb	
58)	1,1,2,2-tetrachloroethane	16.17	83	33859	0.69	ppb	100
59)	4-ethyltoluene	16.93	105	31800	0.60	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	27948m	0.62	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	24213m	0.70	ppb	
62)	1,3-dichlorobenzene	17.66	146	24251	0.63	ppb	96
63)	benzyl chloride	17.72	91	17410m	0.78	ppb	
64)	1,4-dichlorobenzene	17.78	146	22984	0.61	ppb	97
65)	1,2-dichlorobenzene	18.06	146	22839m	0.69	ppb	
66)	1,2,4-trichlorobenzene	19.69	180	6032m	0.57	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	14085	0.59	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:20 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:40 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	24836	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	71962	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	66504	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	32507	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	6462	0.52	ppb		94
3) Freon 12	2.91	85	38156	0.51	ppb		100
4) Chloromethane	3.05	50	8758	0.54	ppb		97
5) Freon 114	3.05	85	21588	0.50	ppb		97
6) Vinyl Chloride	3.19	62	7020	0.50	ppb		95
7) 1,3-butadiene	3.26	39	5520	0.53	ppb		95
8) Bromomethane	3.50	94	8249	0.59	ppb		88
9) Chloroethane	3.62	64	2886	0.51	ppb		80
10) Vinyl Bromide	3.87	106	7987	0.49	ppb		97
11) Freon 11	4.06	101	22239	0.51	ppb		100
12) Acetone	4.23	58	3944m	0.53	ppb		
13) Isopropyl alcohol	4.33	45	7084	0.46	ppb		87
14) 1,1-dichloroethene	4.66	96	11159	0.54	ppb		98
15) Freon 113	4.83	101	26410	0.49	ppb		95
16) Methylene chloride	5.05	84	10714	0.51	ppb		88
17) Allyl chloride	5.03	41	7573	0.46	ppb		90
18) Carbon disulfide	5.17	76	31916	0.50	ppb		98
19) trans-1,2-dichloroethene	5.88	61	14369	0.51	ppb		89
20) methyl tert-butyl ether	5.96	73	14055	0.48	ppb		83
21) 1,1-dichloroethane	6.27	63	18495	0.49	ppb		100
22) Vinyl acetate	6.31	43	10517	0.49	ppb		98
23) Methyl Ethyl Ketone	6.81	43	14969	0.43	ppb		95
24) cis-1,2-dichloroethene	7.15	61	11883	0.48	ppb		94
25) Hexane	6.79	41	8284	0.47	ppb	#	71
26) Ethyl acetate	7.39	43	11874	0.49	ppb		92
27) Chloroform	7.73	83	26367	0.49	ppb		99
28) Tetrahydrofuran	7.98	42	4923	0.47	ppb	#	26
29) 1,2-dichloroethane	8.81	62	16046	0.50	ppb		99
31) 1,1,1-trichloroethane	8.51	97	23235	0.50	ppb		98
32) Cyclohexane	9.21	56	8397	0.45	ppb		93
33) Carbon tetrachloride	9.15	117	29677	0.50	ppb		98
34) Benzene	9.11	78	24308	0.46	ppb		97
35) 1,4-dioxane	11.02	88	3832	0.50	ppb		98
36) 2,2,4-trimethylpentane	10.08	57	26044	0.45	ppb		94
37) Heptane	10.50	43	8558	0.46	ppb		94
38) Trichloroethene	10.59	130	14422	0.47	ppb		91
39) 1,2-dichloropropane	10.71	63	9839	0.50	ppb		94
40) Bromodichloromethane	11.11	83	29012	0.50	ppb		97
41) cis-1,3-dichloropropene	12.03	75	8792	0.44	ppb		96
42) trans-1,3-dichloropropene	12.84	75	7862	0.50	ppb		94
43) 1,1,2-trichloroethane	13.15	97	13663	0.51	ppb		97
45) Toluene	12.88	92	12938	0.44	ppb		96
46) Methyl Isobutyl Ketone	12.01	43	10696	0.56	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:40 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

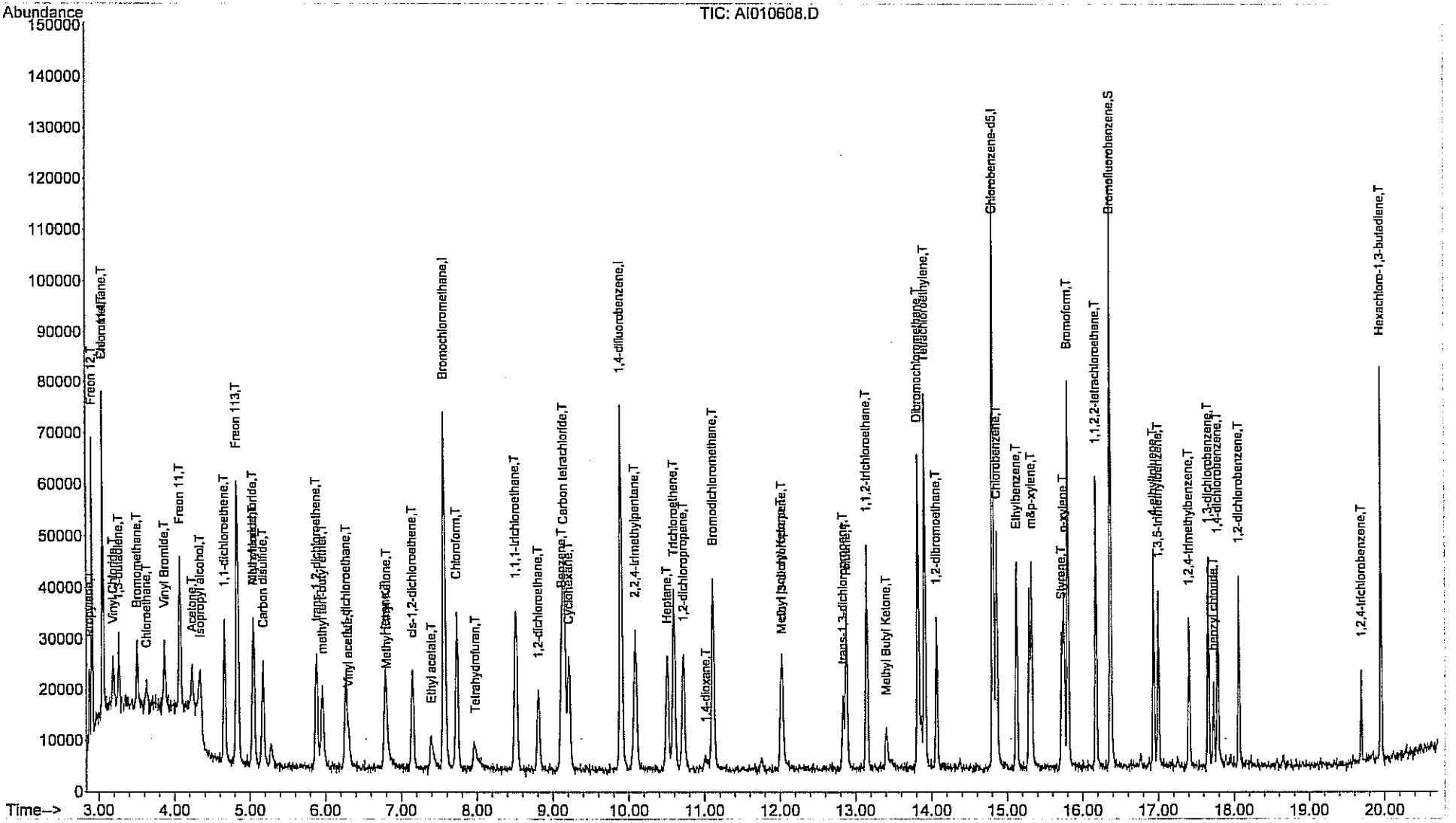
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	32341	0.48	ppb	99
48)	Methyl Butyl Ketone	13.41	43	8322m	0.49	ppb	
49)	1,2-dibromoethane	14.06	107	18722	0.48	ppb	95
50)	Tetrachloroethylene	13.91	164	15577	0.46	ppb	99
51)	Chlorobenzene	14.86	112	23703	0.47	ppb	95
52)	Ethylbenzene	15.13	91	24901	0.44	ppb	95
53)	m&p-xylene	15.32	91	37888	0.80	ppb	97
54)	Styrene	15.72	104	12102	0.42	ppb	95
55)	Bromoform	15.80	173	32139	0.47	ppb	99
56)	o-xylene	15.75	91	19855	0.39	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	23270	0.47	ppb	96
59)	4-ethyltoluene	16.94	105	21941	0.41	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	18645m	0.41	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	15664m	0.45	ppb	
62)	1,3-dichlorobenzene	17.66	146	15418	0.40	ppb	97
63)	benzyl chloride	17.73	91	9315	0.41	ppb	97
64)	1,4-dichlorobenzene	17.78	146	14849	0.39	ppb	98
65)	1,2-dichlorobenzene	18.06	146	13551	0.40	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	4690m	0.44	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	11641	0.49	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:21 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D Vial: 9
Acq On : 6 Jan 2011 10:58 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:00 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25269	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	73157	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	66874	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	33256	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	3973	0.32	ppb		90
3) Freon 12	2.91	85	22851	0.30	ppb		99
4) Chloromethane	3.05	50	5274	0.32	ppb		97
5) Freon 114	3.05	85	12134	0.28	ppb		100
6) Vinyl Chloride	3.18	62	4428	0.31	ppb		99
7) 1,3-butadiene	3.26	39	3934	0.37	ppb		83
8) Bromomethane	3.51	94	4580	0.32	ppb		96
9) Chloroethane	3.62	64	1851	0.32	ppb		82
10) Vinyl Bromide	3.87	106	4620	0.28	ppb		93
11) Freon 11	4.07	101	12982	0.29	ppb		98
12) Acetone	4.23	58	2371	0.31	ppb	#	82
13) Isopropyl alcohol	4.33	45	4784	0.30	ppb		69
14) 1,1-dichloroethene	4.66	96	6201	0.29	ppb		98
15) Freon 113	4.83	101	16027	0.29	ppb		97
16) Methylene chloride	5.04	84	5977	0.28	ppb		95
17) Allyl chloride	5.04	41	4521	0.27	ppb		92
18) Carbon disulfide	5.17	76	19690	0.31	ppb		97
19) trans-1,2-dichloroethene	5.88	61	8274	0.29	ppb		91
20) methyl tert-butyl ether	5.96	73	7608	0.25	ppb		83
21) 1,1-dichloroethane	6.27	63	10791	0.28	ppb		96
22) Vinyl acetate	6.30	43	5638	0.26	ppb		93
23) Methyl Ethyl Ketone	6.79	43	10314m	0.29	ppb		
24) cis-1,2-dichloroethene	7.15	61	7246	0.29	ppb		90
25) Hexane	6.79	41	4763	0.27	ppb	#	67
26) Ethyl acetate	7.40	43	8265m	0.33	ppb		
27) Chloroform	7.74	83	15729	0.29	ppb		100
28) Tetrahydrofuran	7.98	42	3210m	0.30	ppb		
29) 1,2-dichloroethane	8.81	62	9008	0.28	ppb		97
31) 1,1,1-trichloroethane	8.51	97	13824	0.29	ppb		100
32) Cyclohexane	9.20	56	4943	0.26	ppb		92
33) Carbon tetrachloride	9.15	117	18104	0.30	ppb		96
34) Benzene	9.11	78	15311	0.29	ppb		97
35) 1,4-dioxane	11.01	88	2761m	0.36	ppb		
36) 2,2,4-trimethylpentane	10.08	57	15173	0.26	ppb		95
37) Heptane	10.51	43	5184	0.27	ppb		93
38) Trichloroethene	10.59	130	8514	0.27	ppb		96
39) 1,2-dichloropropane	10.72	63	5467	0.27	ppb		99
40) Bromodichloromethane	11.10	83	16394	0.28	ppb		99
41) cis-1,3-dichloropropene	12.03	75	4826	0.24	ppb		96
42) trans-1,3-dichloropropene	12.83	75	4155	0.26	ppb		91
43) 1,1,2-trichloroethane	13.15	97	7421	0.27	ppb		99
45) Toluene	12.87	92	6879	0.23	ppb		95
46) Methyl Isobutyl Ketone	12.01	43	6012	0.31	ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D Vial: 9
Acq On : 6 Jan 2011 10:58 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:00 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	17853	0.26	ppb	100
48)	Methyl Butyl Ketone	13.40	43	6300m	0.37	ppb	
49)	1,2-dibromoethane	14.07	107	10053	0.26	ppb	99
50)	Tetrachloroethylene	13.91	164	9239	0.27	ppb	97
51)	Chlorobenzene	14.86	112	13231	0.26	ppb	95
52)	Ethylbenzene	15.12	91	13439	0.24	ppb	98
53)	m&p-xylene	15.29	91	18813	0.40	ppb	99
54)	Styrene	15.73	104	6078	0.21	ppb	92
55)	Bromoform	15.80	173	17494	0.26	ppb	98
56)	o-xylene	15.75	91	14423m	0.28	ppb	
58)	1,1,2,2-tetrachloroethane	16.18	83	12139	0.25	ppb	98
59)	4-ethyltoluene	16.94	105	10755	0.20	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	8673m	0.19	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	8421m	0.24	ppb	
62)	1,3-dichlorobenzene	17.66	146	8664	0.22	ppb	98
63)	benzyl chloride	17.73	91	4805	0.21	ppb	98
64)	1,4-dichlorobenzene	17.78	146	8019	0.21	ppb	98
65)	1,2-dichlorobenzene	18.06	146	6915	0.20	ppb	93
66)	1,2,4-trichlorobenzene	19.69	180	2403	0.23	ppb	96
67)	Hexachloro-1,3-butadiene	19.95	225	6306	0.26	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

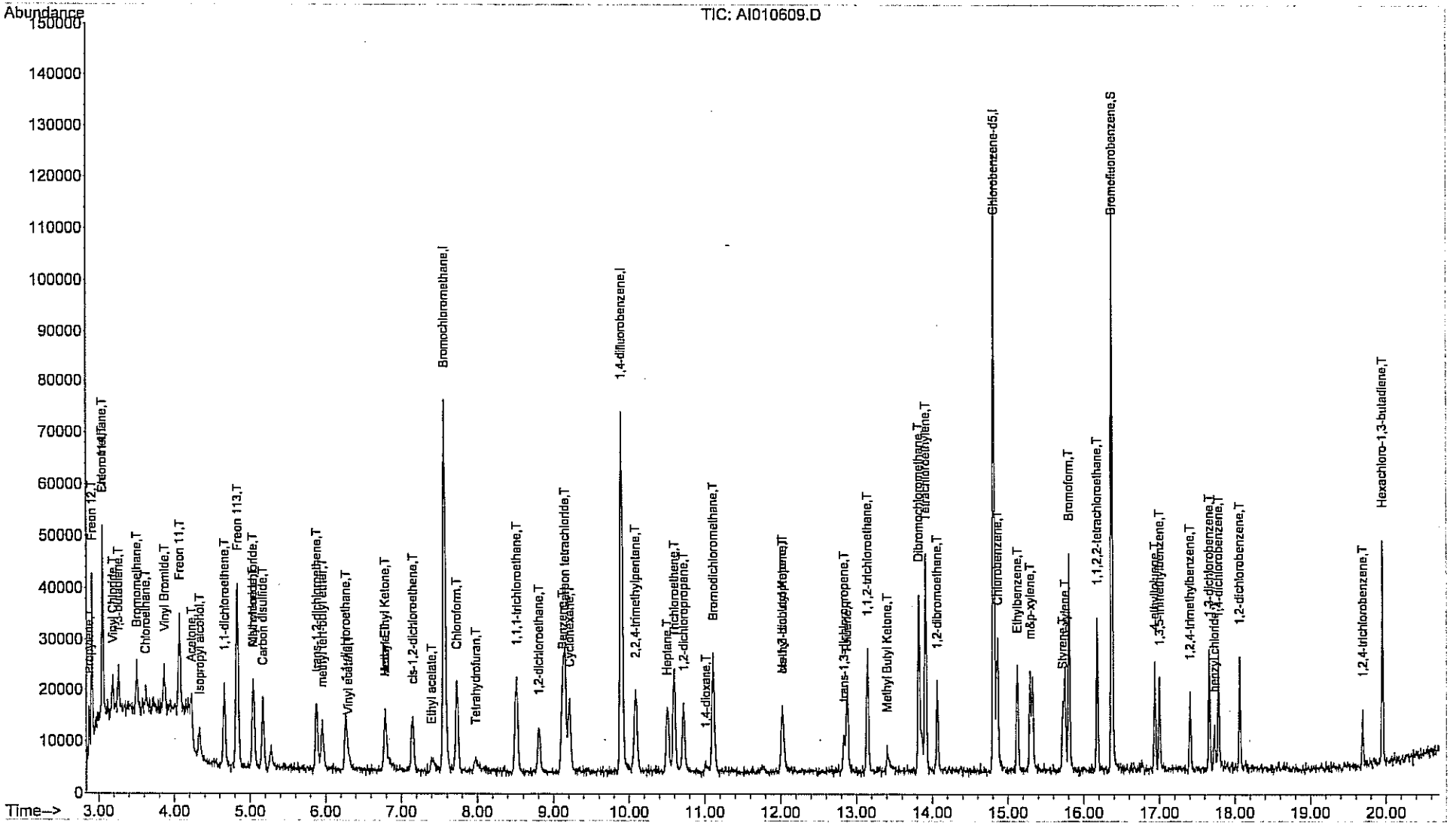
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D
Acq On : 6 Jan 2011 10:58 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:22 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D Vial: 10
Acq On : 6 Jan 2011 11:30 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	26215	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	73623	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	64909	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	30055	0.85	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	2275	0.17	ppb		75
3) Freon 12	2.91	85	11309	0.14	ppb		99
4) Chloromethane	3.05	50	2649	0.15	ppb		76
5) Freon 114	3.05	85	6181	0.14	ppb		92
6) Vinyl Chloride	3.19	62	2080	0.14	ppb		89
7) 1,3-butadiene	3.26	39	1999	0.18	ppb		82
8) Bromomethane	3.51	94	2514	0.17	ppb		90
9) Chloroethane	3.62	64	859	0.14	ppb		83
10) Vinyl Bromide	3.87	106	2625	0.15	ppb		92
11) Freon 11	4.07	101	6724	0.15	ppb		98
12) Acetone	4.23	58	1007	0.13	ppb	#	64
13) Isopropyl alcohol	4.34	45	2247	0.14	ppb		69
14) 1,1-dichloroethene	4.66	96	3041	0.14	ppb		94
15) Freon 113	4.83	101	7407	0.13	ppb		94
16) Methylene chloride	5.05	84	3077	0.14	ppb		93
17) Allyl chloride	5.04	41	2190	0.13	ppb		86
18) Carbon disulfide	5.17	76	10014	0.15	ppb		97
19) trans-1,2-dichloroethene	5.88	61	3778	0.13	ppb		95
20) methyl tert-butyl ether	5.96	73	3640m	0.12	ppb		
21) 1,1-dichloroethane	6.28	63	4964	0.12	ppb		98
22) Vinyl acetate	6.31	43	2739	0.12	ppb		82
24) cis-1,2-dichloroethene	7.15	61	3250	0.13	ppb		94
25) Hexane	6.80	41	2563	0.14	ppb	#	17
27) Chloroform	7.74	83	7453	0.13	ppb		99
29) 1,2-dichloroethane	8.81	62	4371	0.13	ppb		94
31) 1,1,1-trichloroethane	8.51	97	6357	0.13	ppb		97
32) Cyclohexane	9.22	56	2128	0.11	ppb	#	60
33) Carbon tetrachloride	9.15	117	8447	0.14	ppb		100
34) Benzene	9.12	78	6722	0.13	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	7074	0.12	ppb		95
37) Heptane	10.51	43	2404	0.13	ppb		87
38) Trichloroethene	10.59	130	4252	0.13	ppb		96
39) 1,2-dichloropropane	10.72	63	2633	0.13	ppb		99
40) Bromodichloromethane	11.10	83	7755	0.13	ppb		98
41) cis-1,3-dichloropropene	12.02	75	2432m	0.12	ppb		
42) trans-1,3-dichloropropene	12.84	75	2228m	0.14	ppb		
43) 1,1,2-trichloroethane	13.15	97	3507	0.13	ppb		96
45) Toluene	12.88	92	3133	0.11	ppb		96
47) Dibromochloromethane	13.82	129	8617	0.13	ppb		98
49) 1,2-dibromoethane	14.07	107	4583	0.12	ppb		94
50) Tetrachloroethylene	13.91	164	4439	0.14	ppb		97
51) Chlorobenzene	14.87	112	5945	0.12	ppb		92
53) m&p-xylene	15.32	91	7988	0.17	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D Vial: 10
Acq On : 6 Jan 2011 11:30 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54)	Styrene	15.72	104	2833	0.10	ppb	98
55)	Bromoform	15.80	173	7963	0.12	ppb	98
56)	o-xylene	15.75	91	5996m	0.12	ppb	
58)	1,1,2,2-tetrachloroethane	16.18	83	5095	0.11	ppb	100
63)	benzyl chloride	17.73	91	2988m	0.14	ppb	
66)	1,2,4-trichlorobenzene	19.69	180	1322m	0.13	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	2770m	0.12	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

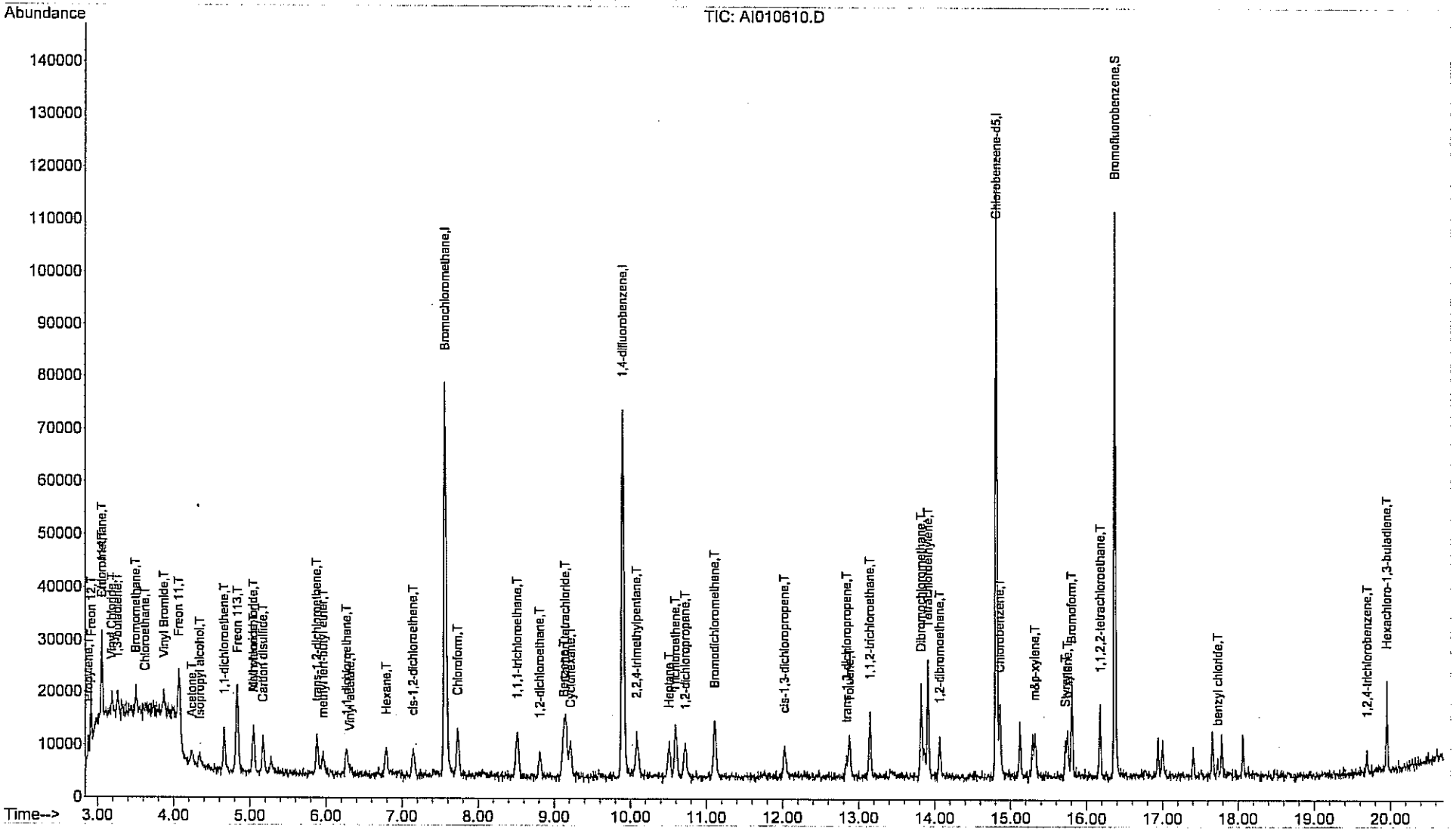
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D
Acq On : 6 Jan 2011 11:30 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:24 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010610.D A106_1UG.M Tue Feb 08 13:42:01 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010611.D Vial: 11
Acq On : 7 Jan 2011 12:02 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:45 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

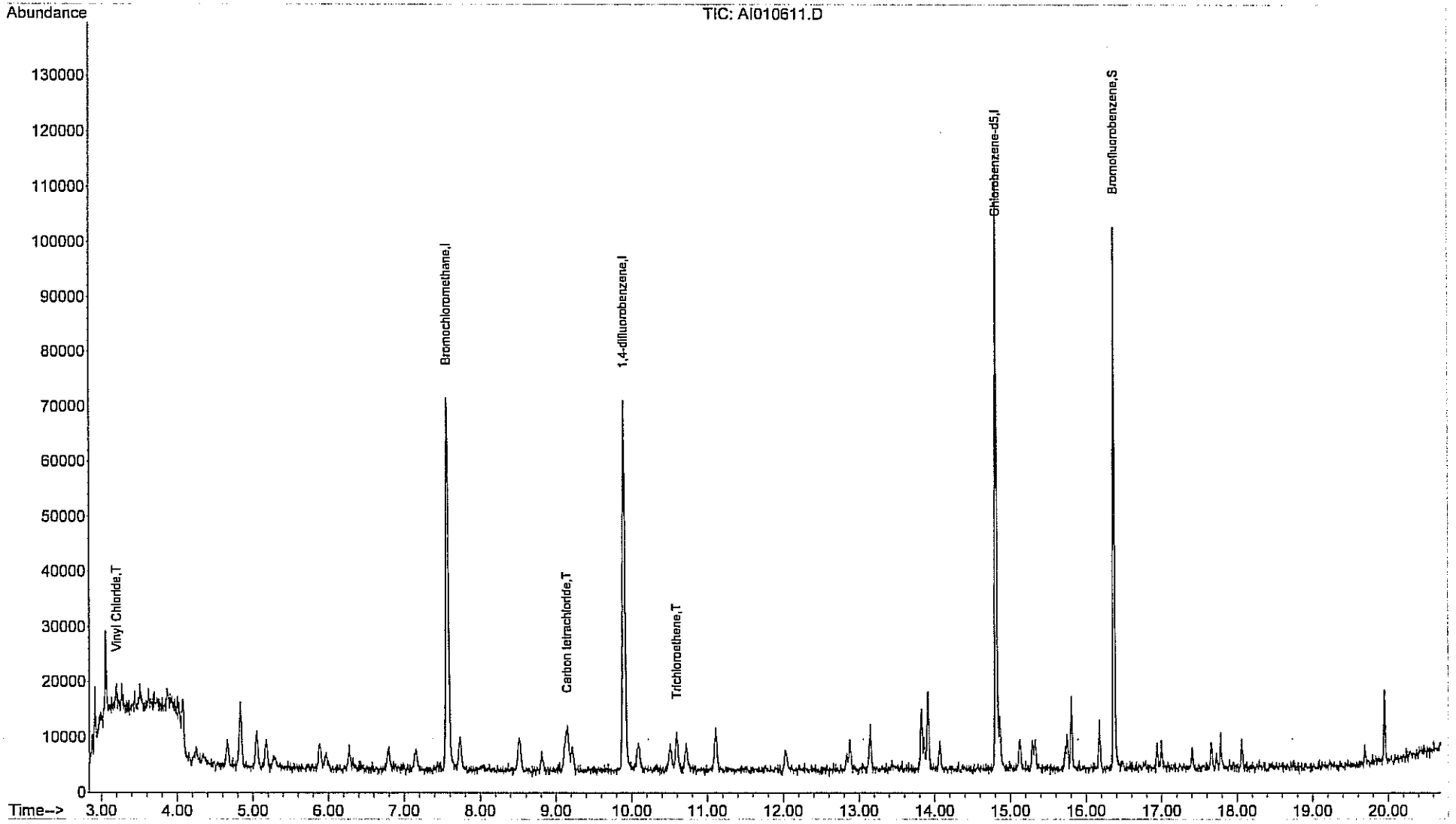
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	25248	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	68882	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	61202	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	28275	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.19	62	1543	0.11	ppb	94
33) Carbon tetrachloride	9.15	117	5615	0.10	ppb	99
38) Trichloroethene	10.59	130	2615	0.09	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010611.D Vial: 11
Acq On : 7 Jan 2011 12:02 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:25 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010612.D Vial: 12
Acq On : 7 Jan 2011 12:33 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:06:14 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	23886	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	66037	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	58877	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	25929	0.81	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%			
Target Compounds						Qvalue
33) Carbon tetrachloride	9.15	117	4074	0.07	ppb	96
38) Trichloroethene	10.59	130	1956	0.07	ppb	92

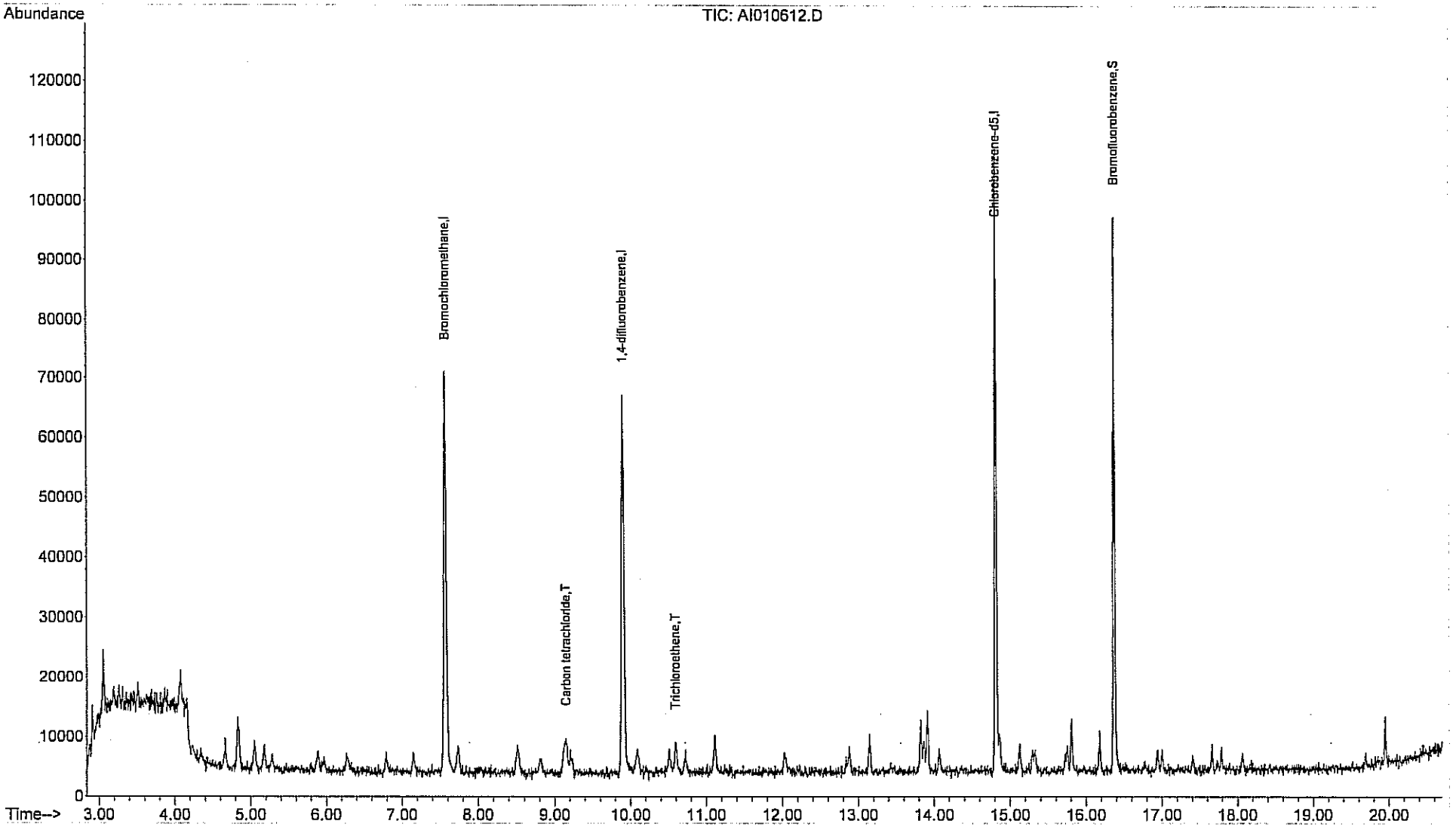
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010612.D
Acq On : 7 Jan 2011 12:33 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:30 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	70	0.00
2	T	Propylene	0.509	0.546	-7.3	77	0.00
3	T	Freon 12	2.933	3.605	-22.9	84	0.00
4	T	Chloromethane	0.673	0.858	-27.5	92	0.00
5	T	Freon 114	1.671	2.014	-20.5	81	0.00
6	T	Vinyl Chloride	0.555	0.668	-20.4	83	0.00
7	T	1,3-butadiene	0.444	0.510	-14.9	84	0.00
8	T	Bromomethane	0.588	0.708	-20.4	89	0.00
9	T	Chloroethane	0.223	0.282	-26.5	86	0.00
10	T	Vinyl Bromide	0.637	0.719	-12.9	76	0.00
11	T	Freon 11	1.724	2.066	-19.8	82	0.00
12	T	Acetone	0.270	0.239	11.5	56	0.00
13	T	Isopropyl alcohol	0.577	0.719	-24.6	81	0.00
14	T	1,1-dichloroethene	0.814	1.015	-24.7	85	0.00
15	T	Freon 113	1.976	2.556	-29.4	83	0.00
16	T	Methylene chloride	0.821	0.993	-21.0	82	0.00
17	T	Allyl chloride	0.644	0.749	-16.3	79	0.00
18	T	Carbon disulfide	2.541	3.038	-19.6	83	0.00
19	T	trans-1,2-dichloroethene	1.122	1.245	-11.0	77	0.00
20	T	methyl tert-butyl ether	1.160	1.436	-23.8	85	0.00
21	T	1,1-dichloroethane	1.462	1.823	-24.7	84	0.00
22	T	Vinyl acetate	0.895	0.955	-6.7	77	0.00
23	T	Methyl Ethyl Ketone	1.441	1.387	3.7	69	0.00
24	T	cis-1,2-dichloroethene	0.973	1.154	-18.6	82	0.00
25	T	Hexane	0.687	0.730	-6.3	73	0.00
26	T	Ethyl acetate	1.070	0.983	8.1	70	0.00
27	T	Chloroform	2.102	2.575	-22.5	83	0.00
28	T	Tetrahydrofuran	0.440	0.430	2.3	71	0.00
29	T	1,2-dichloroethane	1.262	1.607	-27.3	88	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	65	0.00
31	T	1,1,1-trichloroethane	0.637	0.811	-27.3	82	0.00
32	T	Cyclohexane	0.251	0.287	-14.3	72	0.00
33	T	Carbon tetrachloride	0.880	1.086	-23.4	86	0.00
34	T	Benzene	0.693	0.887	-28.0	80	0.00
35	T	1,4-dioxane	0.109	0.100	8.3	62	0.00
36	T	2,2,4-trimethylpentane	0.746	0.858	-15.0	70	0.00
37	T	Heptane	0.248	0.286	-15.3	72	0.00
38	T	Trichloroethene	0.439	0.527	-20.0	80	0.00
39	T	1,2-dichloropropane	0.266	0.341	-28.2	81	0.00
40	T	Bromodichloromethane	0.783	1.008	-28.7	83	0.00
41	T	cis-1,3-dichloropropene	0.263	0.324	-23.2	77	0.00
42	T	trans-1,3-dichloropropene	0.217	0.274	-26.3	81	0.00
43	T	1,1,2-trichloroethane	0.361	0.450	-24.7	79	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
45	T	Toluene	0.417	0.471	-12.9	71	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.247	19.5	58	0.00
47	T	Dibromochloromethane	0.967	1.150	-18.9	76	0.00
48	T	Methyl Butyl Ketone	0.260	0.194	25.4	52	0.00
49	T	1,2-dibromoethane	0.553	0.664	-20.1	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.585	-21.9	78	0.00
51	T	Chlorobenzene	0.716	0.779	-8.8	68	0.00
52	T	Ethylbenzene	0.799	0.849	-6.3	67	0.00
53	T	m&p-xylene	0.655	0.680	-3.8	64	0.00
54	T	Styrene	0.404	0.414	-2.5	64	0.00
55	T	Bromoform	0.971	1.128	-16.2	74	0.00
56	T	o-xylene	0.781	0.709	9.2	61	0.00
57	S	Bromofluorobenzene	0.505	0.576	-14.1	71	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.677	0.4	61	0.00
59	T	4-ethyltoluene	0.725	0.794	-9.5	67	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.559	12.4	54	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.390	22.5	50#	0.00
62	T	1,3-dichlorobenzene	0.512	0.461	10.0	53	0.00
63	T	benzyl chloride	0.327	0.345	-5.5	68	0.00
64	T	1,4-dichlorobenzene	0.496	0.434	12.5	51	0.00
65	T	1,2-dichlorobenzene	0.452	0.382	15.5	51	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.110	23.1	46#	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.268	19.3	50#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AI012504.D A106_1UG.M Tue Feb 08 15:50:22 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:23:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	17855	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.89	114	48897	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	44931	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	25861	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	9740	1.07	ppb		81
3) Freon 12	2.91	85	64364	1.23	ppb		99
4) Chloromethane	3.05	50	15320	1.27	ppb		97
5) Freon 114	3.05	85	35956	1.21	ppb		97
6) Vinyl Chloride	3.18	62	11928	1.20	ppb		97
7) 1,3-butadiene	3.25	39	9109	1.15	ppb		91
8) Bromomethane	3.50	94	12645	1.21	ppb		94
9) Chloroethane	3.62	64	5036	1.26	ppb		95
10) Vinyl Bromide	3.86	106	12829	1.13	ppb		100
11) Freon 11	4.06	101	36888	1.20	ppb		98
12) Acetone	4.22	58	4261	0.88	ppb		98
13) Isopropyl alcohol	4.32	45	12838	1.25	ppb		98
14) 1,1-dichloroethene	4.65	96	18121	1.25	ppb		97
15) Freon 113	4.82	101	45629m	1.29	ppb		
16) Methylene chloride	5.04	84	17725	1.21	ppb		92
17) Allyl chloride	5.03	41	13377	1.16	ppb		98
18) Carbon disulfide	5.16	76	54237	1.20	ppb		98
19) trans-1,2-dichloroethene	5.87	61	22230	1.11	ppb		93
20) methyl tert-butyl ether	5.94	73	25644	1.24	ppb		100
21) 1,1-dichloroethane	6.26	63	32546	1.25	ppb		97
22) Vinyl acetate	6.29	43	17048	1.07	ppb		95
23) Methyl Ethyl Ketone	6.79	43	24766	0.96	ppb		94
24) cis-1,2-dichloroethene	7.14	61	20611	1.19	ppb		95
25) Hexane	6.79	41	13040	1.06	ppb	#	74
26) Ethyl acetate	7.37	43	17543	0.92	ppb		96
27) Chloroform	7.73	83	45978	1.22	ppb		100
28) Tetrahydrofuran	7.95	42	7670	0.98	ppb		79
29) 1,2-dichloroethane	8.80	62	28685	1.27	ppb		99
31) 1,1,1-trichloroethane	8.51	97	39662m	1.27	ppb		
32) Cyclohexane	9.20	56	14030	1.14	ppb		95
33) Carbon tetrachloride	9.14	117	53087	1.23	ppb		97
34) Benzene	9.10	78	43364	1.28	ppb		99
35) 1,4-dioxane	10.99	88	4890m	0.92	ppb		
36) 2,2,4-trimethylpentane	10.08	57	41946	1.15	ppb		95
37) Heptane	10.50	43	13994	1.15	ppb		93
38) Trichloroethene	10.58	130	25774	1.20	ppb		95
39) 1,2-dichloropropane	10.71	63	16679	1.28	ppb		94
40) Bromodichloromethane	11.10	83	49310	1.29	ppb		97
41) cis-1,3-dichloropropene	12.02	75	15832m	1.23	ppb		
42) trans-1,3-dichloropropene	12.83	75	13383	1.26	ppb		99
43) 1,1,2-trichloroethane	13.14	97	21996	1.25	ppb		95
45) Toluene	12.87	92	21175	1.13	ppb		95
46) Methyl Isobutyl Ketone	12.00	43	11088	0.80	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:23:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51685	1.19	ppb	98
48)	Methyl Butyl Ketone	13.39	43	8725m A	0.75	ppb	
49)	1,2-dibromoethane	14.06	107	29812	1.20	ppb	96
50)	Tetrachloroethylene	13.91	164	26296	1.22	ppb	98
51)	Chlorobenzene	14.86	112	35023	1.09	ppb	92
52)	Ethylbenzene	15.12	91	38126	1.06	ppb	100
53)	m&p-xylene	15.31	91	61134	2.08	ppb	100
54)	Styrene	15.72	104	18607	1.02	ppb	98
55)	Bromoform	15.80	173	50669	1.16	ppb	96
56)	o-xylene	15.74	91	31860	0.91	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	30433	1.00	ppb	97
59)	4-ethyltoluene	16.93	105	35671	1.09	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	25133	0.88	ppb	100
61)	1,2,4-trimethylbenzene	17.40	105	17528	0.78	ppb	94
62)	1,3-dichlorobenzene	17.65	146	20717	0.90	ppb	95
63)	benzyl chloride	17.72	91	15506	1.05	ppb	98
64)	1,4-dichlorobenzene	17.78	146	19508	0.88	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17147	0.84	ppb	94
66)	1,2,4-trichlorobenzene	19.68	180	4961	0.77	ppb	96
67)	Hexachloro-1,3-butadiene	19.94	225	12062	0.81	ppb	97

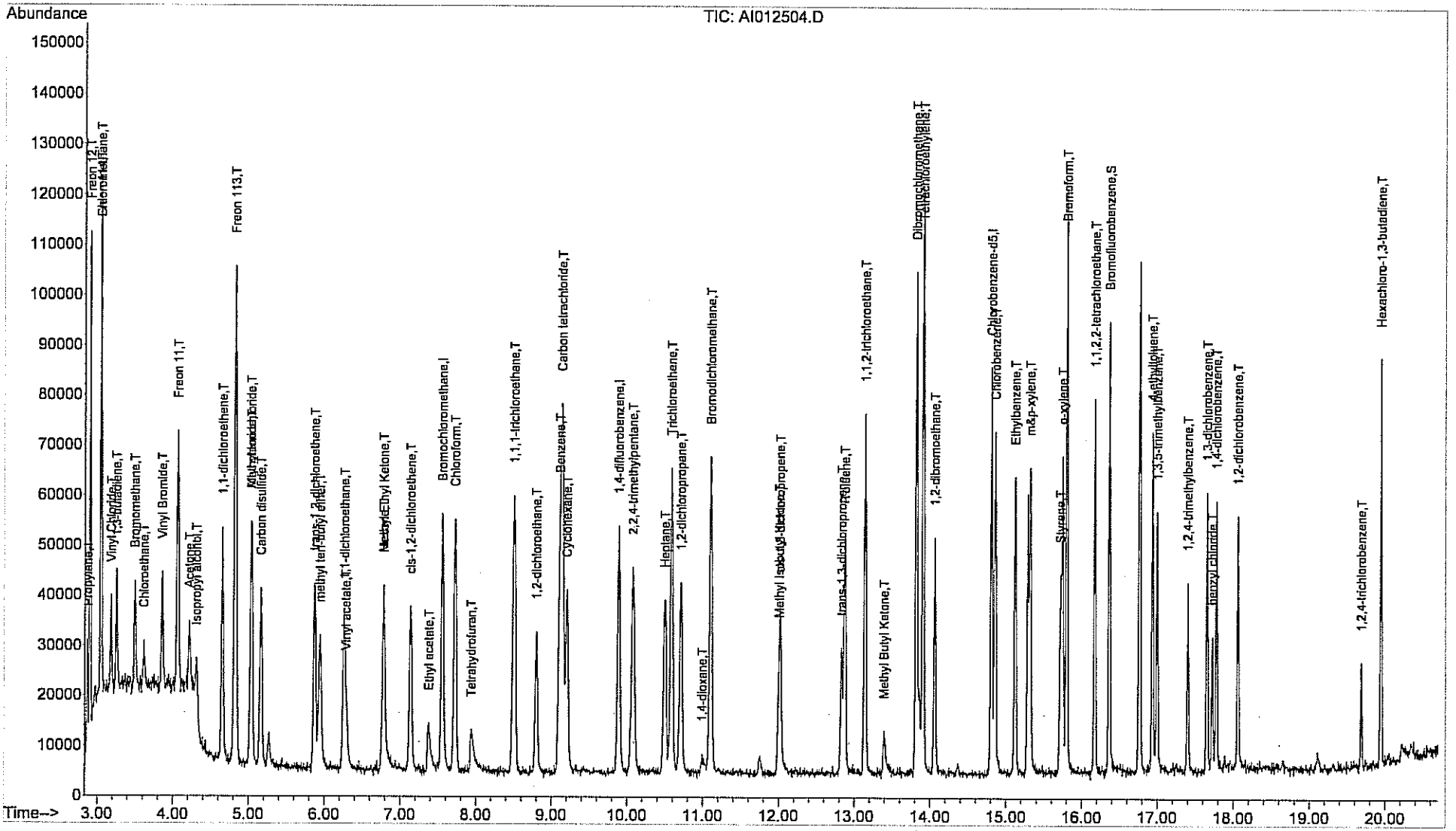
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI012504.D
Acq On : 25 Jan 2011 10:03 am
Sample : A1UG_1.0
Misc : 1UG + 0.25UG
MS Integration Params: RTEINT.P
Quant Time: Jan 25 14:12 2011

Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	73	0.00
2	T	Propylene	0.509	0.589	-15.7	86	0.00
3	T	Freon 12	2.933	3.644	-24.2	89	0.00
4	T	Chloromethane	0.673	0.871	-29.4	97	0.00
5	T	Freon 114	1.671	2.076	-24.2	87	0.00
6	T	Vinyl Chloride	0.555	0.670	-20.7	87	0.00
7	T	1,3-butadiene	0.444	0.553	-24.5	95	0.00
8	T	Bromomethane	0.588	0.690	-17.3	90	0.00
9	T	Chloroethane	0.223	0.286	-28.3	91	0.00
10	T	Vinyl Bromide	0.637	0.722	-13.3	80	0.00
11	T	Freon 11	1.724	2.071	-20.1	86	0.00
12	T	Acetone	0.270	0.248	8.1	61	0.00
13	T	Isopropyl alcohol	0.577	0.623	-8.0	73	0.02
14	T	1,1-dichloroethene	0.814	0.682	16.2	60	0.00
15	T	Freon 113	1.976	1.503	23.9	51	0.00
16	T	Methylene chloride	0.821	1.018	-24.0	87	0.00
17	T	Allyl chloride	0.644	0.808	-25.5	89	0.00
18	T	Carbon disulfide	2.541	3.055	-20.2	87	0.00
19	T	trans-1,2-dichloroethene	1.122	1.357	-20.9	87	0.00
20	T	methyl tert-butyl ether	1.160	1.417	-22.2	87	0.02
21	T	1,1-dichloroethane	1.462	1.789	-22.4	86	0.00
22	T	Vinyl acetate	0.895	1.097	-22.6	92	0.00
23	T	Methyl Ethyl Ketone	1.441	1.640	-13.8	85	0.00
24	T	cis-1,2-dichloroethene	0.973	1.183	-21.6	87	0.00
25	T	Hexane	0.687	0.793	-15.4	82	0.00
26	T	Ethyl acetate	1.070	1.199	-12.1	89	0.00
27	T	Chloroform	2.102	2.695	-28.2	91	0.00
28	T	Tetrahydrofuran	0.440	0.496	-12.7	86	-0.01
29	T	1,2-dichloroethane	1.262	1.591	-26.1	91	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00
31	T	1,1,1-trichloroethane	0.637	0.820	-28.7	97	0.00
32	T	Cyclohexane	0.251	0.285	-13.5	83	0.00
33	T	Carbon tetrachloride	0.880	0.968	-10.0	90	0.00
34	T	Benzene	0.693	0.836	-20.6	88	0.00
35	T	1,4-dioxane	0.109	0.094	13.8	68	0.00
36	T	2,2,4-trimethylpentane	0.746	0.802	-7.5	77	0.00
37	T	Heptane	0.248	0.269	-8.5	80	0.00
38	T	Trichloroethene	0.439	0.480	-9.3	86	0.00
39	T	1,2-dichloropropane	0.266	0.318	-19.5	89	0.00
40	T	Bromodichloromethane	0.783	0.894	-14.2	86	0.00
41	T	cis-1,3-dichloropropene	0.263	0.312	-18.6	87	0.00
42	T	trans-1,3-dichloropropene	0.217	0.252	-16.1	88	0.00
43	T	1,1,2-trichloroethane	0.361	0.422	-16.9	88	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
45	T	Toluene	0.417	0.454	-8.9	84	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.266	13.4	75	0.00
47	T	Dibromochloromethane	0.967	0.995	-2.9	80	0.00
48	T	Methyl Butyl Ketone	0.260	0.217	16.5	70	0.00
49	T	1,2-dibromoethane	0.553	0.589	-6.5	82	0.00

(#) = Out of Range

Calibration Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.520	-8.3	84	0.00
51	T	Chlorobenzene	0.716	0.745	-4.1	79	0.00
52	T	Ethylbenzene	0.799	0.809	-1.3	77	0.00
53	T	m&p-xylene	0.655	0.646	1.4	74	0.00
54	T	Styrene	0.404	0.387	4.2	73	0.00
55	T	Bromoform	0.971	0.952	2.0	76	0.00
56	T	o-xylene	0.781	0.672	14.0	71	0.00
57	S	Bromofluorobenzene	0.505	0.570	-12.9	85	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.622	8.5	69	0.00
59	T	4-ethyltoluene	0.725	0.769	-6.1	79	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.554	13.2	66	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.411	18.3	64	0.00
62	T	1,3-dichlorobenzene	0.512	0.458	10.5	64	0.00
63	T	benzyl chloride	0.327	0.383	-17.1	92	0.00
64	T	1,4-dichlorobenzene	0.496	0.421	15.1	60	0.00
65	T	1,2-dichlorobenzene	0.452	0.393	13.1	63	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.128	10.5	65	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.270	18.7	61	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:01:32 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18641	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	57345	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	54753	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	31213	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10986	1.16	ppb		92
3) Freon 12	2.91	85	67933	1.24	ppb		98
4) Chloromethane	3.05	50	16233m	1.29	ppb		
5) Freon 114	3.05	85	38707m	1.24	ppb		
6) Vinyl Chloride	3.18	62	12497	1.21	ppb		100
7) 1,3-butadiene	3.26	39	10312	1.25	ppb		80
8) Bromomethane	3.50	94	12859	1.17	ppb		99
9) Chloroethane	3.62	64	5334	1.28	ppb		68
10) Vinyl Bromide	3.86	106	13454	1.13	ppb		99
11) Freon 11	4.06	101	38614	1.20	ppb		99
12) Acetone	4.23	58	4625	0.92	ppb		93
13) Isopropyl alcohol	4.33	45	11612	1.08	ppb		99
14) 1,1-dichloroethene	4.65	96	12717	0.84	ppb		90
15) Freon 113	4.82	101	28011	0.76	ppb		93
16) Methylene chloride	5.04	84	18983	1.24	ppb		94
17) Allyl chloride	5.03	41	15055	1.25	ppb		98
18) Carbon disulfide	5.16	76	56942	1.20	ppb		98
19) trans-1,2-dichloroethene	5.87	61	25291	1.21	ppb		92
20) methyl tert-butyl ether	5.96	73	26405m	1.22	ppb		
21) 1,1-dichloroethane	6.27	63	33351m	1.22	ppb		
22) Vinyl acetate	6.30	43	20456	1.23	ppb		94
23) Methyl Ethyl Ketone	6.79	43	30566	1.14	ppb		96
24) cis-1,2-dichloroethene	7.14	61	22047	1.22	ppb		96
25) Hexane	6.78	41	14776	1.15	ppb	#	83
26) Ethyl acetate	7.38	43	22347	1.12	ppb		99
27) Chloroform	7.73	83	50230	1.28	ppb		96
28) Tetrahydrofuran	7.93	42	9251	1.13	ppb		87
29) 1,2-dichloroethane	8.80	62	29649	1.26	ppb		100
31) 1,1,1-trichloroethane	8.50	97	46998	1.29	ppb		98
32) Cyclohexane	9.20	56	16317	1.13	ppb		91
33) Carbon tetrachloride	9.14	117	55501	1.10	ppb		99
34) Benzene	9.11	78	47947	1.21	ppb		96
35) 1,4-dioxane	10.99	88	5378	0.86	ppb		95
36) 2,2,4-trimethylpentane	10.08	57	45975	1.07	ppb		93
37) Heptane	10.49	43	15435	1.09	ppb		95
38) Trichloroethene	10.58	130	27502	1.09	ppb		95
39) 1,2-dichloropropane	10.71	63	18216	1.20	ppb		99
40) Bromodichloromethane	11.10	83	51291	1.14	ppb		97
41) cis-1,3-dichloropropene	12.02	75	17918	1.19	ppb		96
42) trans-1,3-dichloropropene	12.83	75	14448	1.16	ppb		96
43) 1,1,2-trichloroethane	13.14	97	24218	1.17	ppb		93
45) Toluene	12.87	92	24866	1.09	ppb		100
46) Methyl Isobutyl Ketone	12.01	43	14545	0.87	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:01:32 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	54506	1.03	ppb	99
48)	Methyl Butyl Ketone	13.40	43	11857m	0.83	ppb	
49)	1,2-dibromoethane	14.06	107	32257	1.07	ppb	98
50)	Tetrachloroethylene	13.90	164	28476	1.08	ppb	97
51)	Chlorobenzene	14.85	112	40800	1.04	ppb	94
52)	Ethylbenzene	15.12	91	44296	1.01	ppb	98
53)	m&p-xylene	15.31	91	70754	1.97	ppb	98
54)	Styrene	15.72	104	21180	0.96	ppb	97
55)	Bromoform	15.80	173	52133	0.98	ppb	99
56)	o-xylene	15.74	91	36791	0.86	ppb	94
58)	1,1,2,2-tetrachloroethane	16.17	83	34044	0.91	ppb	100
59)	4-ethyltoluene	16.93	105	42092	1.06	ppb	100
60)	1,3,5-trimethylbenzene	16.99	105	30339	0.87	ppb	97
61)	1,2,4-trimethylbenzene	17.40	105	22486	0.82	ppb	95
62)	1,3-dichlorobenzene	17.65	146	25089	0.89	ppb	98
63)	benzyl chloride	17.72	91	20963	1.17	ppb	94
64)	1,4-dichlorobenzene	17.78	146	23045	0.85	ppb	97
65)	1,2-dichlorobenzene	18.06	146	21506	0.87	ppb	96
66)	1,2,4-trichlorobenzene	19.69	180	6999	0.90	ppb	92
67)	Hexachloro-1,3-butadiene	19.95	225	14804	0.82	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

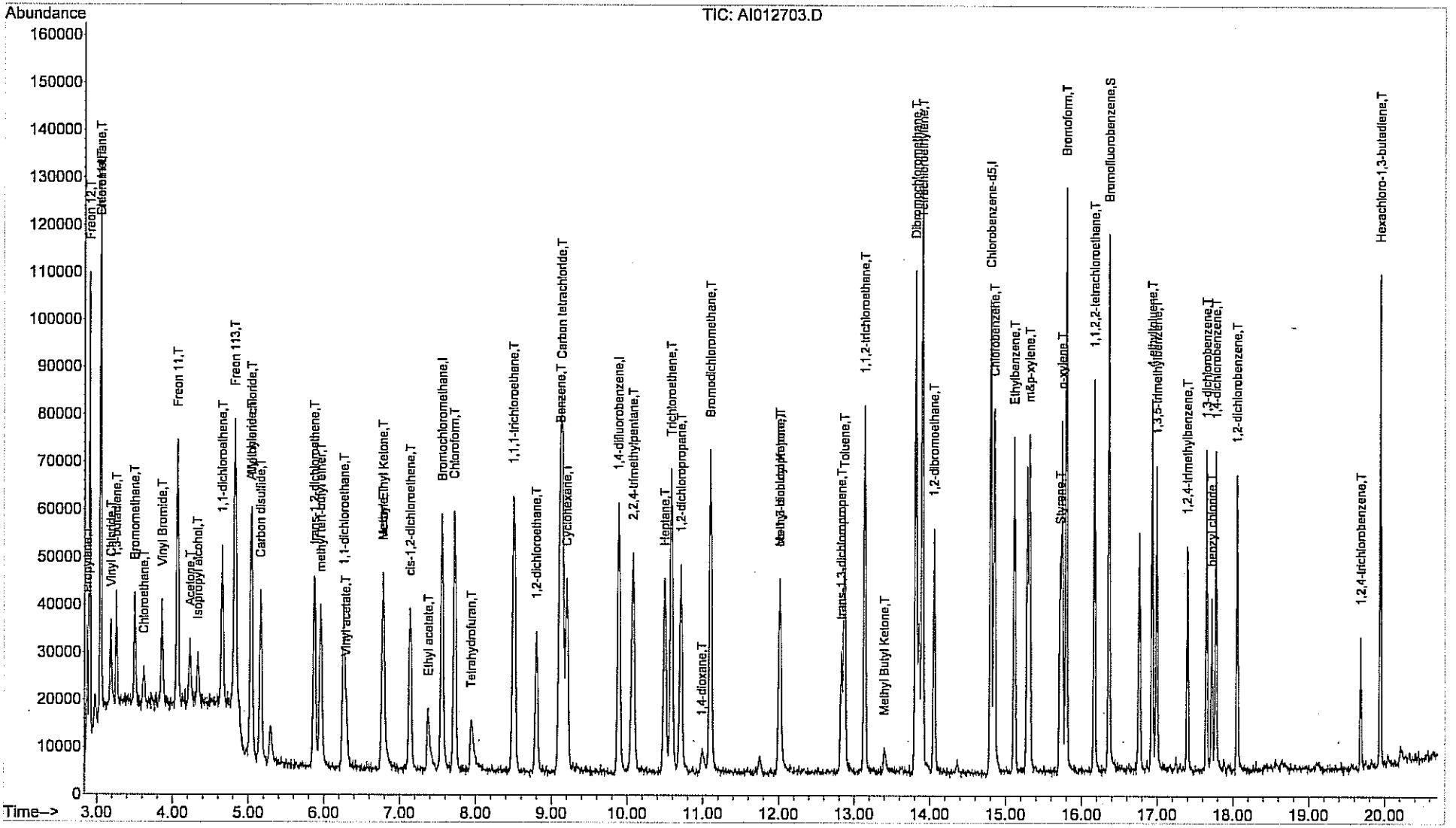
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D
Acq On : 27 Jan 2011 10:40 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:32 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	130	0.00
2	T	Propylene	0.509	0.498	2.2	130	0.00
3	T	Freon 12	2.933	3.300	-12.5	143	0.00
4	T	Chloromethane	0.673	0.766	-13.8	152#	0.00
5	T	Freon 114	1.671	1.879	-12.4	140	0.00
6	T	Vinyl Chloride	0.555	0.610	-9.9	140	0.00
7	T	1,3-butadiene	0.444	0.434	2.3	133	0.00
8	T	Bromomethane	0.588	0.617	-4.9	144	0.00
9	T	Chloroethane	0.223	0.264	-18.4	149	0.00
10	T	Vinyl Bromide	0.637	0.678	-6.4	134	0.00
11	T	Freon 11	1.724	1.891	-9.7	139	0.00
12	T	Acetone	0.270	0.324	-20.0	141	0.00
13	T	Isopropyl alcohol	0.577	0.584	-1.2	122	0.00
14	T	1,1-dichloroethene	0.814	0.620	23.8	97	0.00
15	T	Freon 113	1.976	1.445	26.9	87	0.00
16	T	Methylene chloride	0.821	0.700	14.7	107	0.00
17	T	Allyl chloride	0.644	0.586	9.0	114	0.00
18	T	Carbon disulfide	2.541	1.867	26.5	95	0.00
19	T	trans-1,2-dichloroethene	1.122	1.288	-14.8	147	0.00
20	T	methyl tert-butyl ether	1.160	1.447	-24.7	159#	0.00
21	T	1,1-dichloroethane	1.462	1.727	-18.1	147	0.00
22	T	Vinyl acetate	0.895	1.040	-16.2	156#	0.00
23	T	Methyl Ethyl Ketone	1.441	1.581	-9.7	147	-0.01
24	T	cis-1,2-dichloroethene	0.973	1.101	-13.2	145	0.00
25	T	Hexane	0.687	0.723	-5.2	134	-0.01
26	T	Ethyl acetate	1.070	1.157	-8.1	153#	-0.02
27	T	Chloroform	2.102	2.450	-16.6	147	0.00
28	T	Tetrahydrofuran	0.440	0.462	-5.0	142	-0.02
29	T	1,2-dichloroethane	1.262	1.441	-14.2	146	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	130	0.00
31	T	1,1,1-trichloroethane	0.637	0.755	-18.5	150#	0.00
32	T	Cyclohexane	0.251	0.269	-7.2	133	0.00
33	T	Carbon tetrachloride	0.880	0.912	-3.6	143	0.00
34	T	Benzene	0.693	0.819	-18.2	146	0.00
35	T	1,4-dioxane	0.109	0.097	11.0	119	0.00
36	T	2,2,4-trimethylpentane	0.746	0.770	-3.2	125	0.00
37	T	Heptane	0.248	0.248	0.0	124	0.00
38	T	Trichloroethene	0.439	0.457	-4.1	138	0.00
39	T	1,2-dichloropropane	0.266	0.296	-11.3	139	0.00
40	T	Bromodichloromethane	0.783	0.840	-7.3	136	0.00
41	T	cis-1,3-dichloropropene	0.263	0.294	-11.8	138	0.00
42	T	trans-1,3-dichloropropene	0.217	0.239	-10.1	141	0.00
43	T	1,1,2-trichloroethane	0.361	0.389	-7.8	136	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	137	0.00
45	T	Toluene	0.417	0.438	-5.0	136	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.265	13.7	127	0.00
47	T	Dibromochloromethane	0.967	0.913	5.6	124	0.00
48	T	Methyl Butyl Ketone	0.260	0.223	14.2	122	0.00
49	T	1,2-dibromoethane	0.553	0.566	-2.4	134	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.476	0.8	130	0.00
51	T	Chlorobenzene	0.716	0.687	4.1	124	0.00
52	T	Ethylbenzene	0.799	0.787	1.5	127	0.00
53	T	m&p-xylene	0.655	0.649	0.9	126	0.00
54	T	Styrene	0.404	0.372	7.9	119	0.00
55	T	Bromoform	0.971	0.933	3.9	125	0.00
56	T	o-xylene	0.781	0.654	16.3	116	0.00
57	S	Bromofluorobenzene	0.505	0.534	-5.7	135	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.602	11.5	112	0.00
59	T	4-ethyltoluene	0.725	0.732	-1.0	126	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.529	17.1	106	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.411	18.3	108	0.00
62	T	1,3-dichlorobenzene	0.512	0.447	12.7	105	0.00
63	T	benzyl chloride	0.327	0.368	-12.5	150	0.00
64	T	1,4-dichlorobenzene	0.496	0.409	17.5	99	0.00
65	T	1,2-dichlorobenzene	0.452	0.387	14.4	106	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.111	22.4	96	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.281	15.4	107	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 10:41:01 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	33200	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	96780	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	92339	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	49336	1.06	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 106.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	16548	0.98	ppb	86
3) Freon 12	2.91	85	109563	1.13	ppb	100
4) Chloromethane	3.04	50	25437	1.14	ppb	95
5) Freon 114	3.05	85	62387	1.12	ppb	94
6) Vinyl Chloride	3.18	62	20246	1.10	ppb	93
7) 1,3-butadiene	3.26	39	14420	0.98	ppb	90
8) Bromomethane	3.49	94	20479	1.05	ppb	97
9) Chloroethane	3.62	64	8769	1.18	ppb	95
10) Vinyl Bromide	3.86	106	22525	1.06	ppb	96
11) Freon 11	4.06	101	62794	1.10	ppb	98
12) Acetone	4.22	58	10765	1.20	ppb	98
13) Isopropyl alcohol	4.31	45	19377	1.01	ppb	96
14) 1,1-dichloroethene	4.65	96	20599	0.76	ppb	92
15) Freon 113	4.82	101	47961m	0.73	ppb	
16) Methylene chloride	5.04	84	23243m	0.85	ppb	
17) Allyl chloride	5.02	41	19456	0.91	ppb	93
18) Carbon disulfide	5.16	76	62000m	0.73	ppb	
19) trans-1,2-dichloroethene	5.87	61	42745	1.15	ppb	89
20) methyl tert-butyl ether	5.94	73	48051	1.25	ppb	97
21) 1,1-dichloroethane	6.26	63	57337	1.18	ppb	96
22) Vinyl acetate	6.29	43	34540	1.16	ppb	96
23) Methyl Ethyl Ketone	6.78	43	52505	1.10	ppb	95
24) cis-1,2-dichloroethene	7.14	61	36554	1.13	ppb	93
25) Hexane	6.77	41	24010	1.05	ppb	90
26) Ethyl acetate	7.36	43	38415	1.08	ppb	97
27) Chloroform	7.72	83	81327	1.17	ppb	99
28) Tetrahydrofuran	7.93	42	15337	1.05	ppb	85
29) 1,2-dichloroethane	8.80	62	47849	1.14	ppb	100
31) 1,1,1-trichloroethane	8.50	97	73032	1.18	ppb	99
32) Cyclohexane	9.20	56	25989	1.07	ppb	95
33) Carbon tetrachloride	9.14	117	88221	1.04	ppb	100
34) Benzene	9.11	78	79310	1.18	ppb	92
35) 1,4-dioxane	10.98	88	9390m	0.89	ppb	
36) 2,2,4-trimethylpentane	10.07	57	74474	1.03	ppb	97
37) Heptane	10.49	43	24035	1.00	ppb	93
38) Trichloroethene	10.58	130	44210	1.04	ppb	95
39) 1,2-dichloropropane	10.71	63	28599	1.11	ppb	98
40) Bromodichloromethane	11.10	83	81265	1.07	ppb	98
41) cis-1,3-dichloropropene	12.02	75	28410	1.12	ppb	97
42) trans-1,3-dichloropropene	12.83	75	23142	1.10	ppb	98
43) 1,1,2-trichloroethane	13.14	97	37647	1.08	ppb	94
45) Toluene	12.87	92	40401	1.05	ppb	98
46) Methyl Isobutyl Ketone	11.99	43	24497	0.87	ppb	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 10:41:01 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	84313	0.94	ppb	99
48)	Methyl Butyl Ketone	13.39	43	20586m	0.86	ppb	
49)	1,2-dibromoethane	14.06	107	52253	1.02	ppb	100
50)	Tetrachloroethylene	13.90	164	43963	0.99	ppb	99
51)	Chlorobenzene	14.85	112	63409	0.96	ppb	95
52)	Ethylbenzene	15.12	91	72708	0.99	ppb	96
53)	m&p-xylene	15.31	91	119917	1.98	ppb	96
54)	Styrene	15.72	104	34346	0.92	ppb	94
55)	Bromoform	15.80	173	86128	0.96	ppb	99
56)	o-xylene	15.74	91	60422	0.84	ppb	99
58)	1,1,2,2-tetrachloroethane	16.17	83	55622	0.89	ppb	98
59)	4-ethyltoluene	16.93	105	67596	1.01	ppb	96
60)	1,3,5-trimethylbenzene	16.99	105	48884	0.83	ppb	97
61)	1,2,4-trimethylbenzene	17.40	105	37950	0.82	ppb	96
62)	1,3-dichlorobenzene	17.65	146	41268	0.87	ppb	97
63)	benzyl chloride	17.72	91	33998	1.13	ppb	98
64)	1,4-dichlorobenzene	17.78	146	37737	0.82	ppb	98
65)	1,2-dichlorobenzene	18.06	146	35779	0.86	ppb	98
66)	1,2,4-trichlorobenzene	19.69	180	10256	0.78	ppb	98
67)	Hexachloro-1,3-butadiene	19.95	225	25952	0.85	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

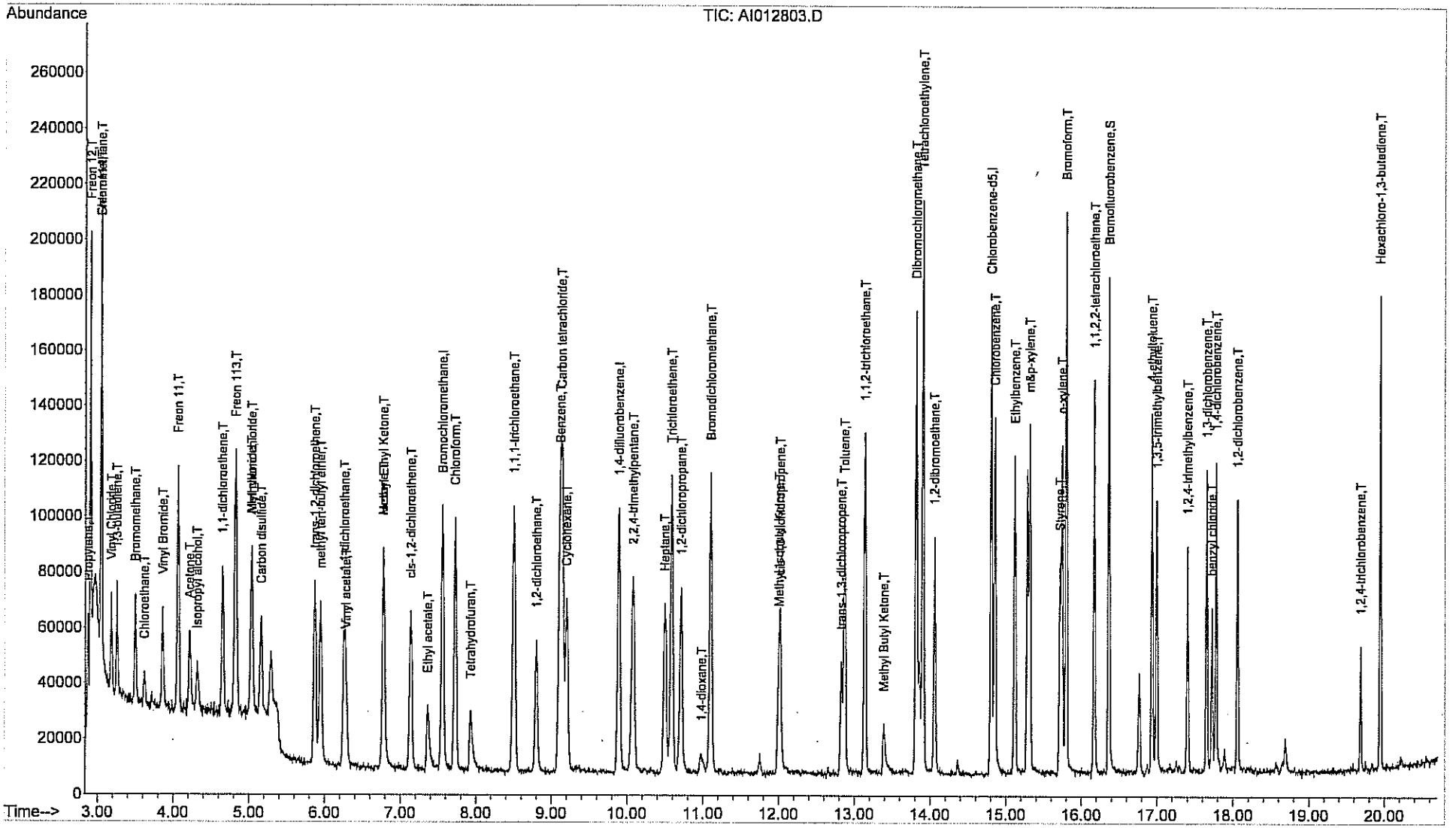
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D
Acq On : 28 Jan 2011 10:20 am
Sample : A1UG
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:06 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012803.D A106_1UG.M Tue Feb 08 15:55:02 2011 MSD1

Centek laboratories, LLC

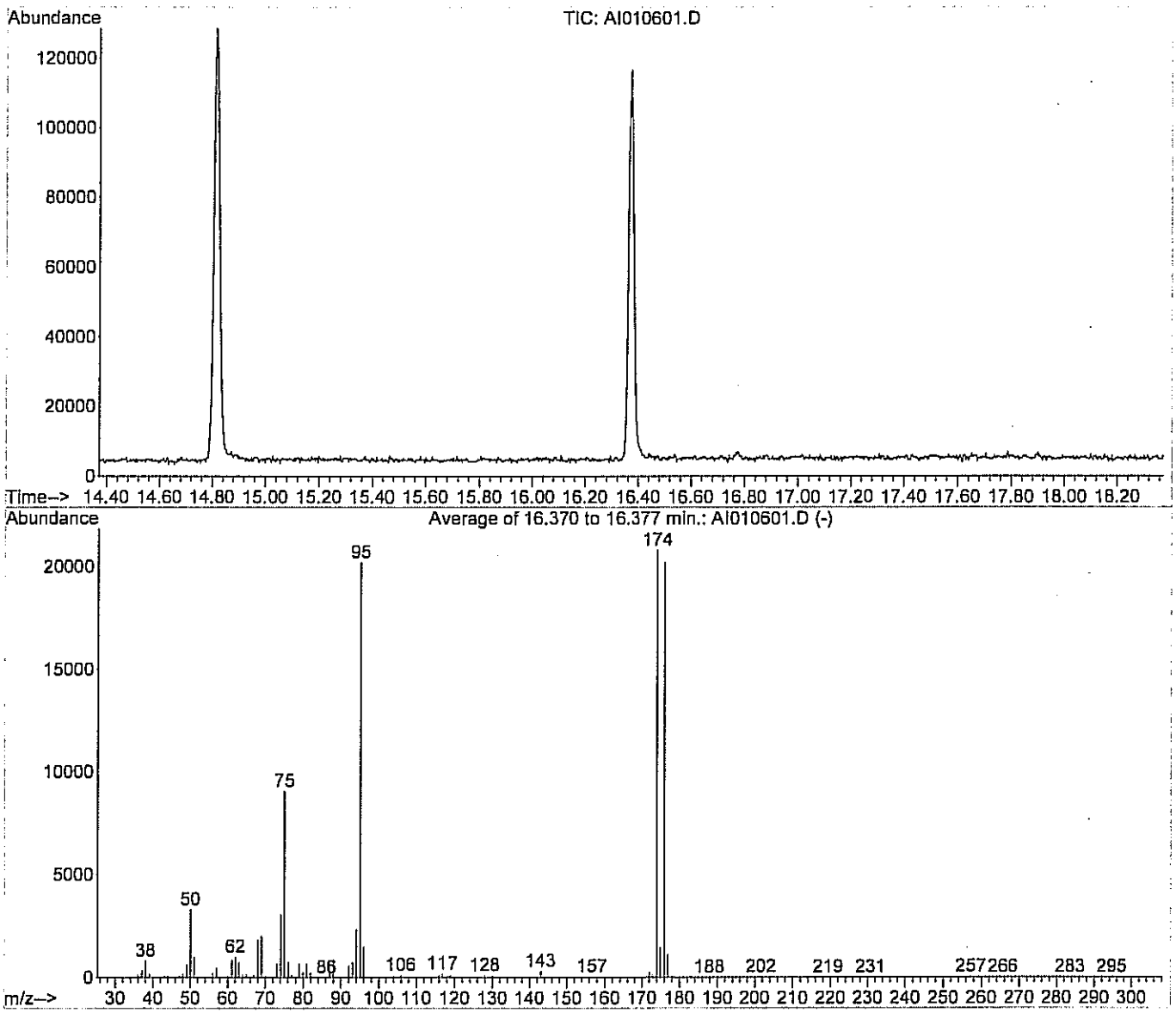
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

```
Data File : C:\HPCHEM\1\DATA\AI010601.D                Vial: 1
Acq On    :  6 Jan 2011    5:13 pm                    Operator: RJP
Sample    : BFB1UG                                    Inst    : MSD #1
Misc      :                                           Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title     : TO-15 VOA  Standards for 5 point calibration
```



Spectrum Information: Average of 16.370 to 16.377 min.

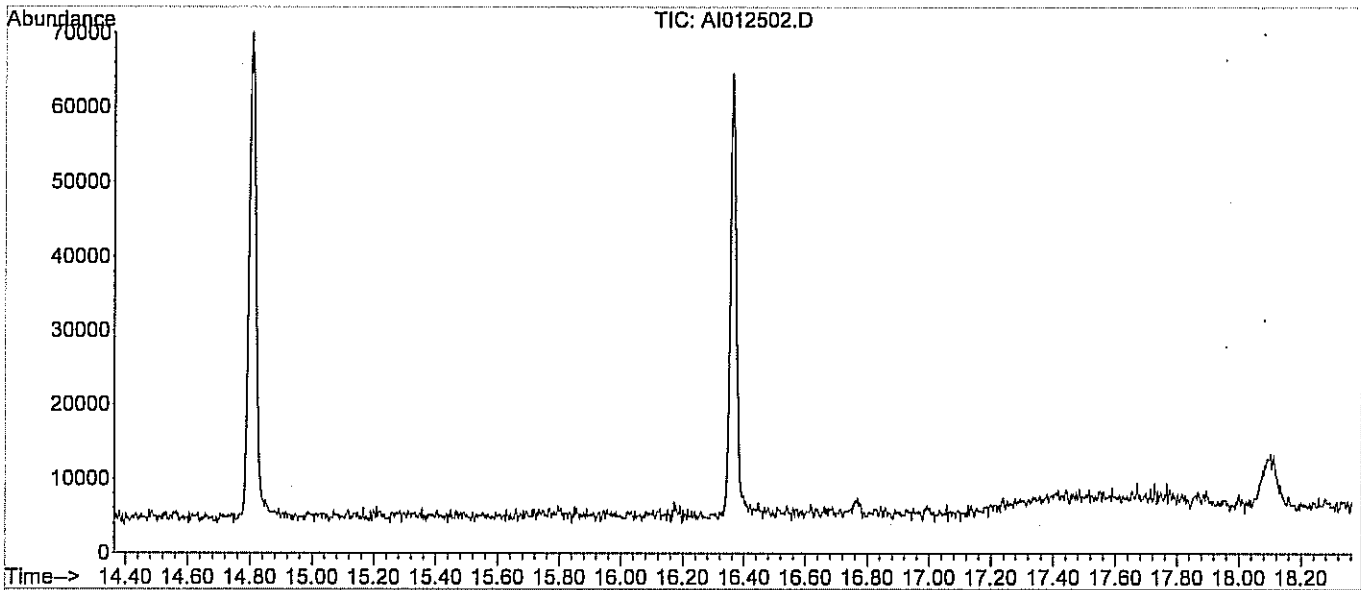
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	3324	PASS
75	95	30	66	44.9	9074	PASS
95	95	100	100	100.0	20221	PASS
96	95	5	9	7.4	1499	PASS
173	174	0.00	2	0.7	137	PASS
174	95	50	120	102.9	20816	PASS
175	174	4	9	7.0	1454	PASS
176	174	95	101	97.3	20244	PASS
177	176	5	9	5.6	1131	PASS

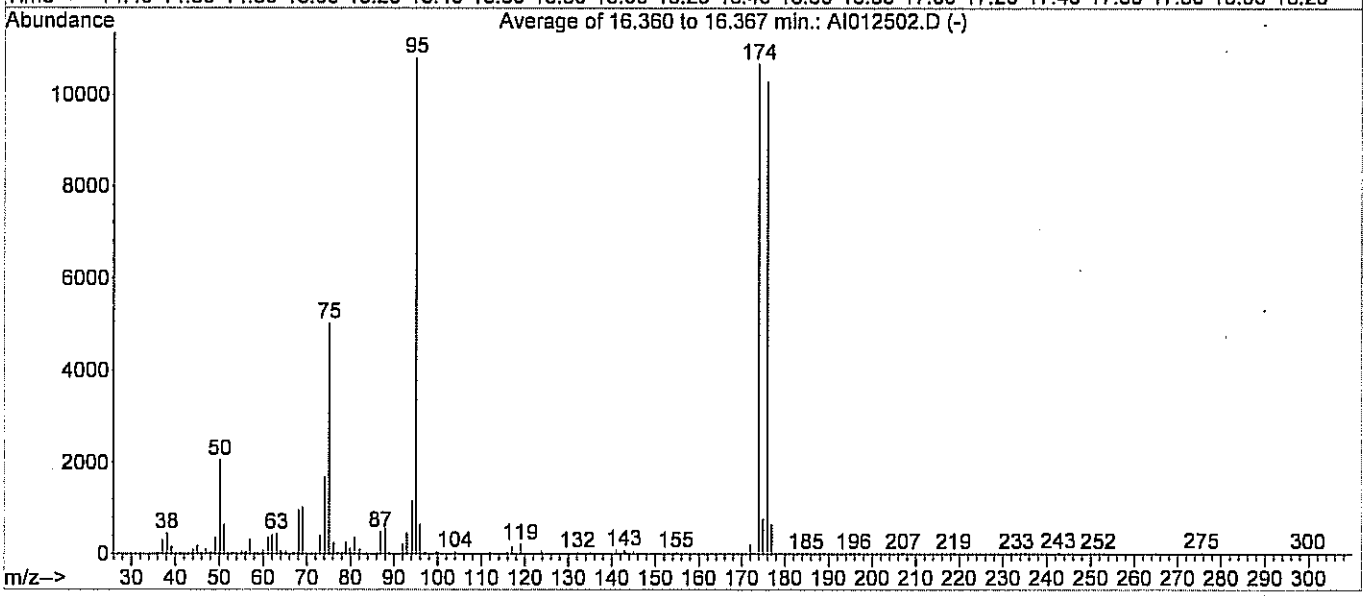
AI010601.D A106_1UG.M Tue Feb 08 13:45:54 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012502.D
Acq On : 25 Jan 2011 8:50 am
Sample : BFB1UG
Misc : 1UG + 0.25UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.360 to 16.367 min.

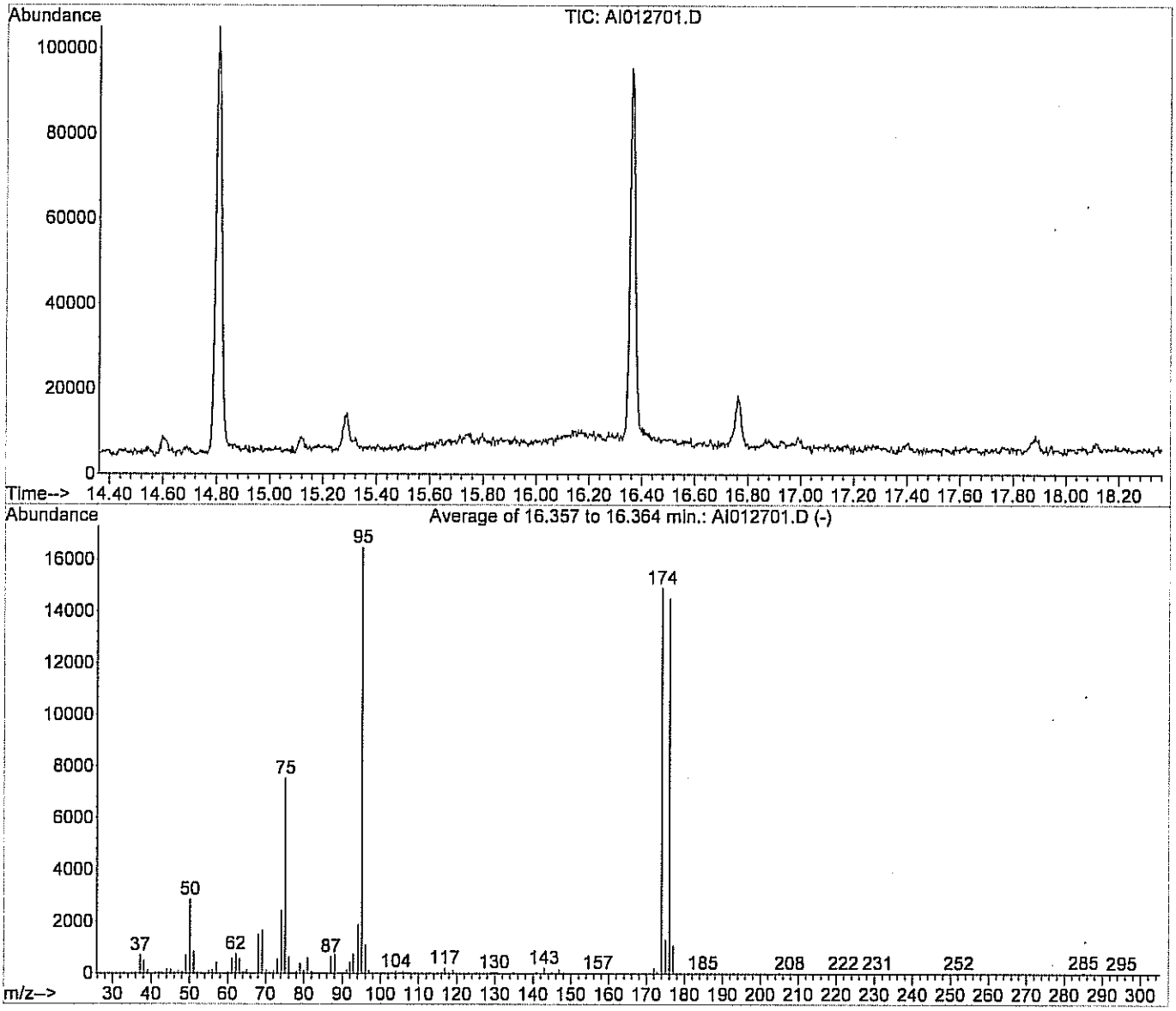
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	2058	PASS
75	95	30	66	46.6	5033	PASS
95	95	100	100	100.0	10809	PASS
96	95	5	9	6.1	658	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.8	10683	PASS
175	174	4	9	7.3	775	PASS
176	174	95	101	96.5	10304	PASS
177	176	5	9	6.4	659	PASS

AI012502.D A106_1UG.M Tue Feb 08 15:48:50 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012701.D
Acq On : 27 Jan 2011 8:51 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.357 to 16.364 min.

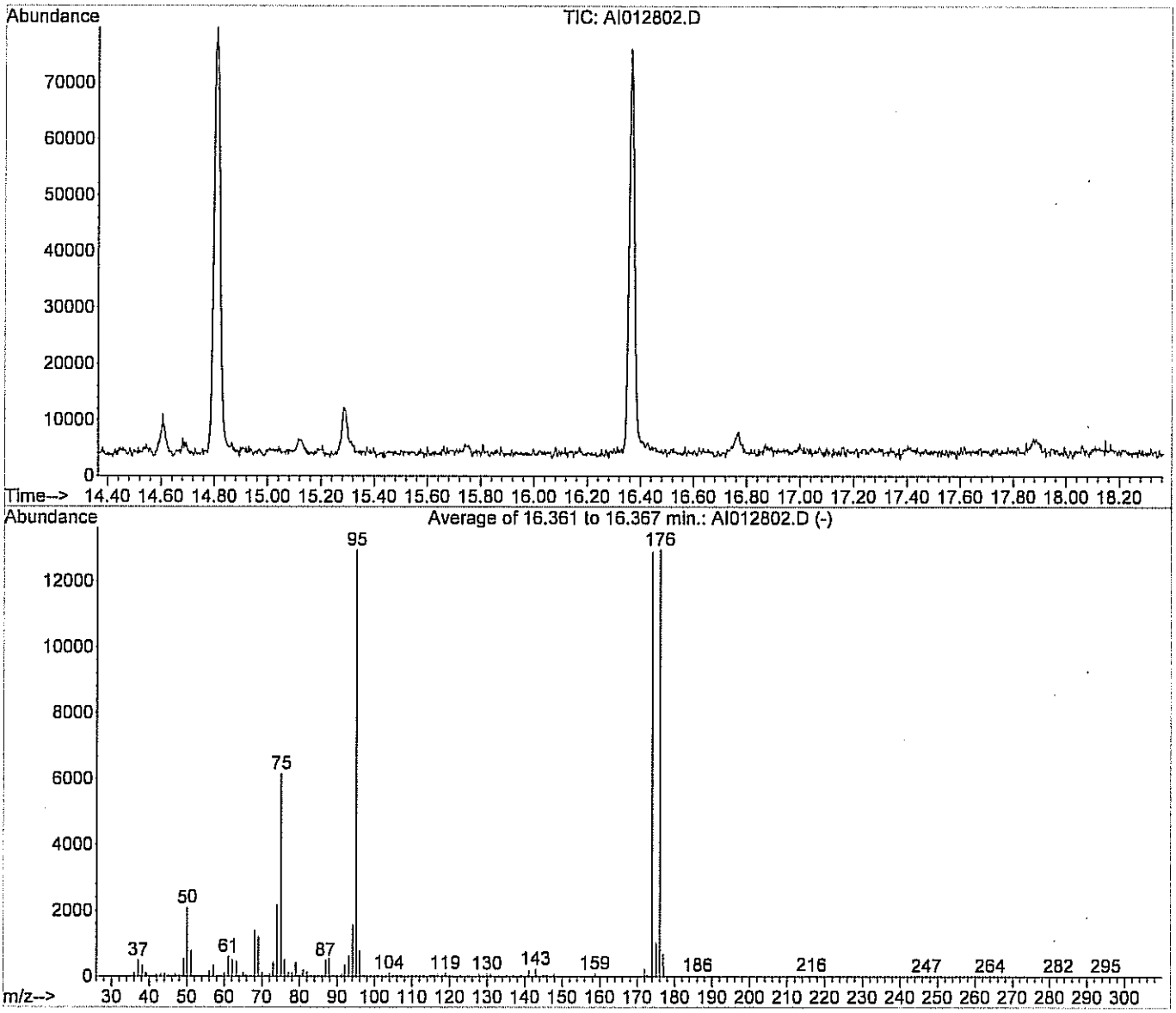
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	2873	PASS
75	95	30	66	45.8	7540	PASS
95	95	100	100	100.0	16474	PASS
96	95	5	9	6.8	1116	PASS
173	174	0.00	2	0.6	84	PASS
174	95	50	120	90.6	14926	PASS
175	174	4	9	8.9	1325	PASS
176	174	95	101	97.3	14524	PASS
177	176	5	9	7.5	1085	PASS

AI012701.D A106_1UG.M Tue Feb 08 15:51:39 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012802.D
Acq On : 28 Jan 2011 8:31 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.361 to 16.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.2	2094	PASS
75	95	30	66	47.5	6159	PASS
95	95	100	100	100.0	12958	PASS
96	95	5	9	6.0	783	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.6	12900	PASS
175	174	4	9	7.9	1023	PASS
176	174	95	101	100.6	12971	PASS
177	176	5	9	5.4	701	PASS

AI012802.D A106_1UG.M Tue Feb 08 15:54:37 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-012511** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-012511** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: CI101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012506.D Vial: 18
Acq On : 25 Jan 2011 11:10 am Operator: RJP
Sample : AMB1UG-012511 Inst : MSD #1
Misc : AMB1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 11:31:15 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

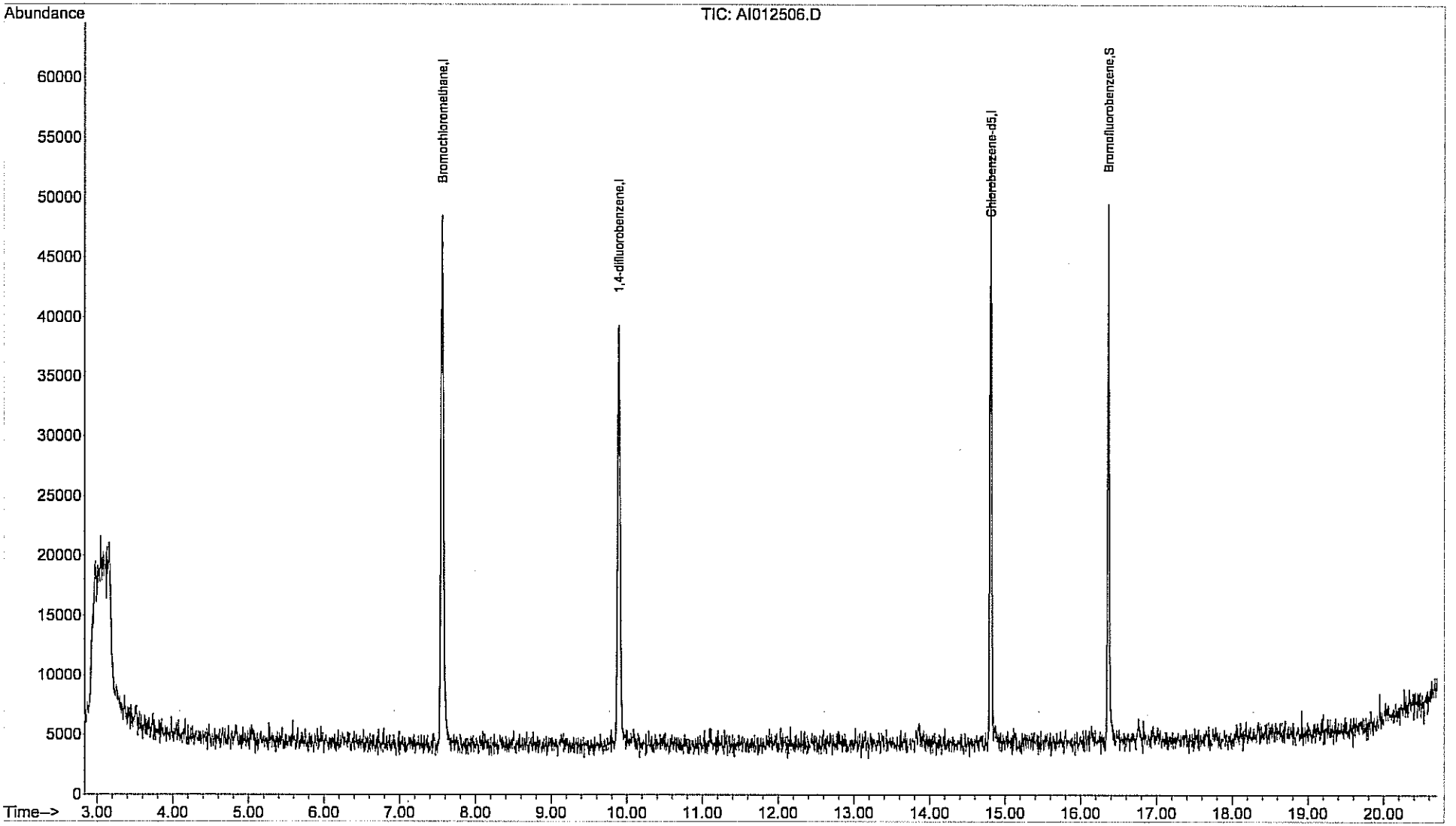
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	16392	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	36302	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	28683	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	12718	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012506.D A106_1UG.M Tue Feb 08 15:47:28 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012506.D Vial: 18
Acq On : 25 Jan 2011 11:10 am Operator: RJP
Sample : AMB1UG-012511 Inst : MSD #1
Misc : AMB1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 11:31 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012705.D Vial: 5
Acq On : 27 Jan 2011 11:56 am Operator: RJP
Sample : AMB1UG-012711 Inst : MSD #1
Misc : AMB1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 12:17:05 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

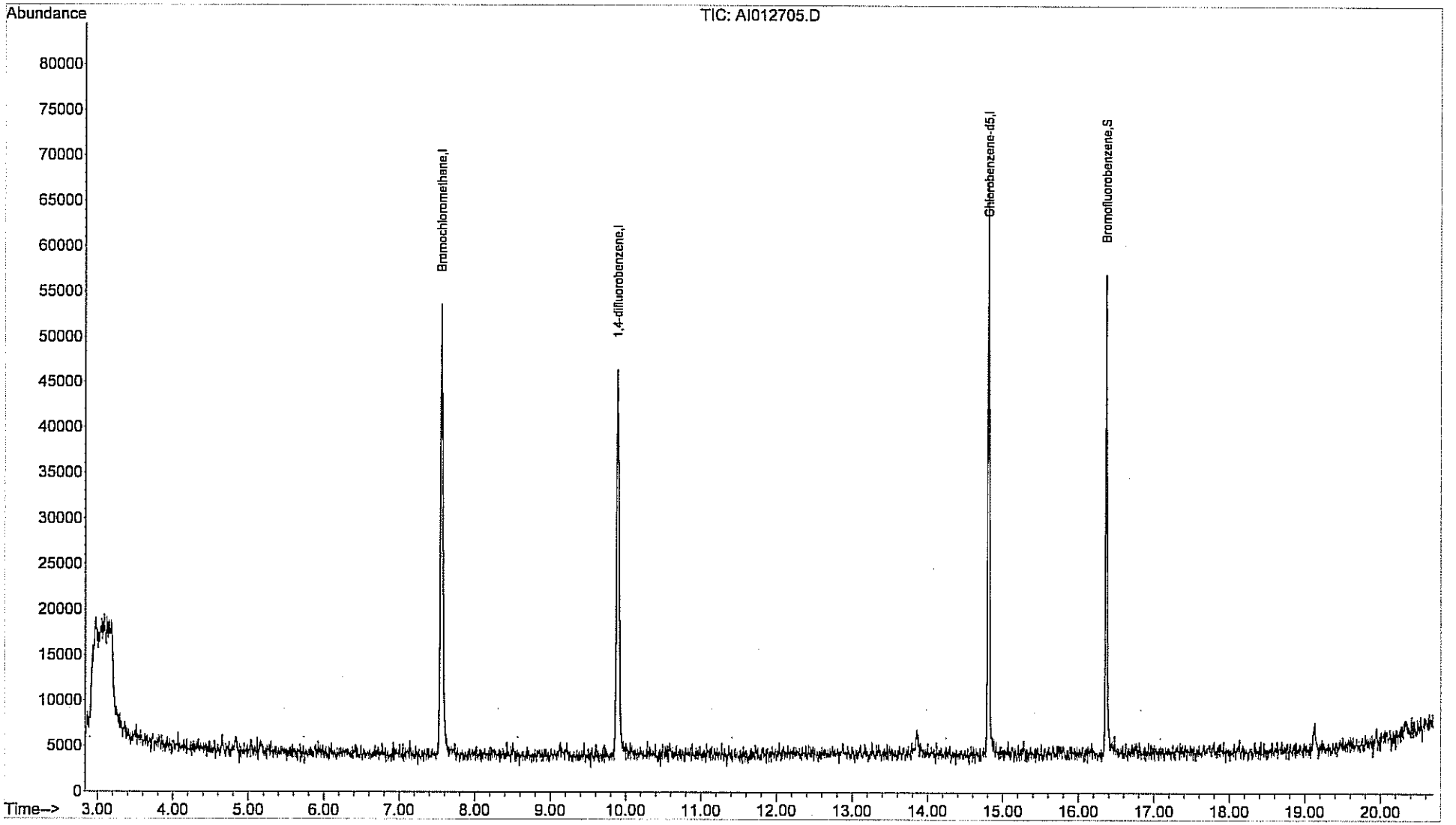
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17220	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	43450	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	34689	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	15842	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012705.D A106_1UG.M Tue Feb 08 15:47:33 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012705.D Vial: 5
Acq On : 27 Jan 2011 11:56 am Operator: RJP
Sample : AMB1UG-012711 Inst : MSD #1
Misc : AMB1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 12:17 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012805.D Vial: 5
Acq On : 28 Jan 2011 12:13 pm Operator: RJP
Sample : AMB1UG-012811 Inst : MSD #1
Misc : AMB1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:34:15 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	29774	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	82180	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	75429	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	36795	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue

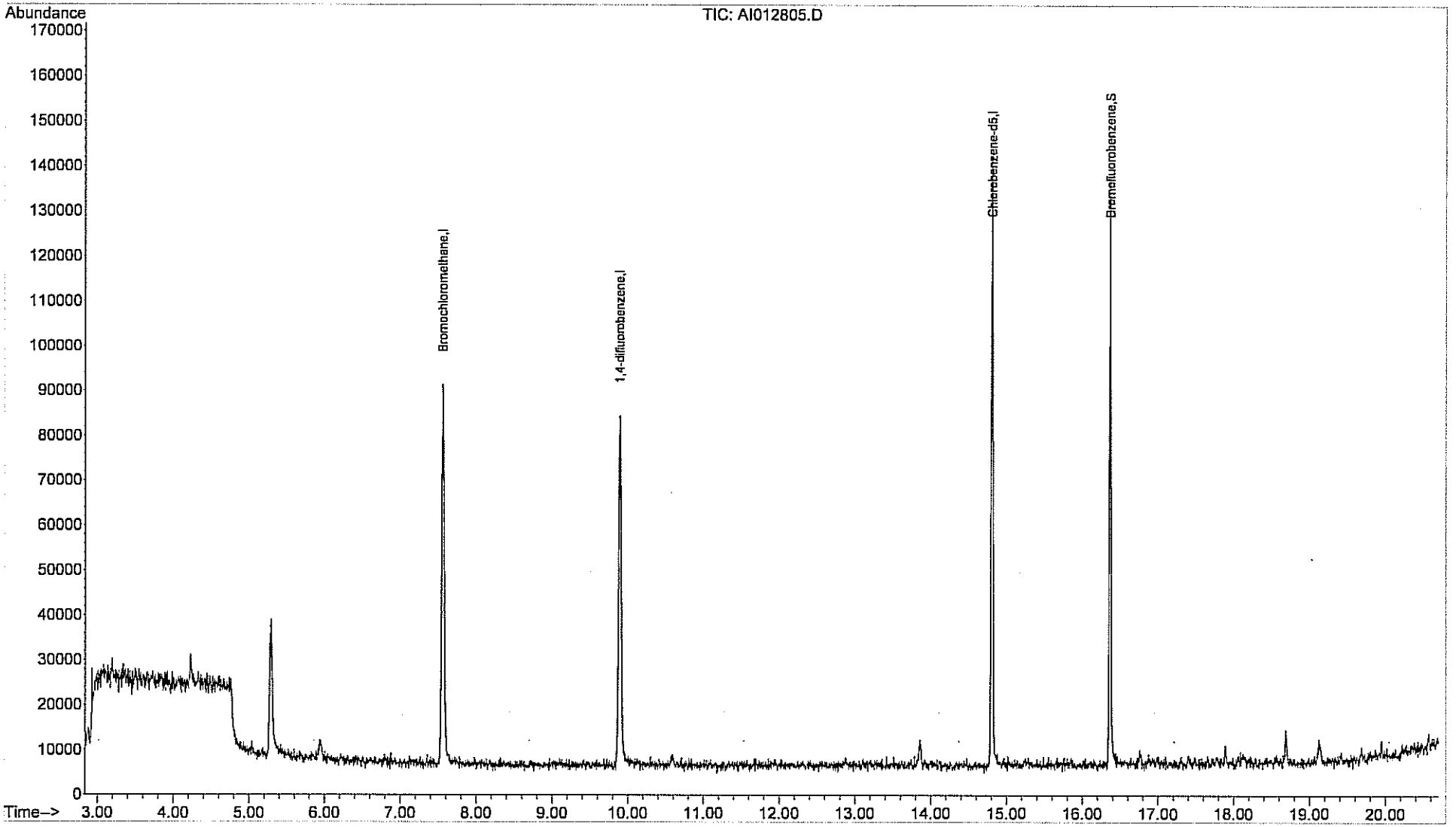
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012805.D
Acq On : 28 Jan 2011 12:13 pm
Sample : AMB1UG-012811
Misc : AMB1UG-012811
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:08 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-012511** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Date: *08-Feb-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.140	0.15	1	0	114	70	130				
Chlorobenzene	1.050	0.15	1	0	105	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				
Chloroform	1.200	0.15	1	0	120	70	130				
Chloromethane	1.230	0.15	1	0	123	70	130				
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.000	0.15	1	0	100	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.9000	0.25	1	0	90.0	70	130				
Ethylbenzene	1.020	0.15	1	0	102	70	130				
Freon 11	2.110	0.15	1	0	211	70	130				S
Freon 113	1.240	0.15	1	0	124	70	130				
Freon 114	1.140	0.15	1	0	114	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.050	0.15	1	0	105	70	130				
Hexachloro-1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
Hexane	1.060	0.15	1	0	106	70	130				
Isopropyl alcohol	1.150	0.15	1	0	115	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130				
Methylene chloride	1.150	0.15	1	0	115	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9900	0.15	1	0	99.0	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.110	0.15	1	0	111	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.160	0.15	1	0	116	70	130				

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130				
1,2-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130				
1,3,5-Trimethylbenzene	0.8100	0.15	1	0	81.0	70	130				
1,3-butadiene	1.170	0.15	1	0	117	70	130				
1,3-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130				
1,4-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130				
2,2,4-trimethylpentane	1.040	0.15	1	0	104	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012711	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.8600	0.30	1	0	86.0	70	130				
Allyl chloride	1.150	0.15	1	0	115	70	130				
Benzene	1.260	0.15	1	0	126	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.160	0.15	1	0	116	70	130				
Bromoform	1.000	0.15	1	0	100	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.130	0.15	1	0	113	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	1.140	0.15	1	0	114	70	130				
Chloroform	1.220	0.15	1	0	122	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130				
cis-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130				
Cyclohexane	1.130	0.15	1	0	113	70	130				
Dibromochloromethane	1.050	0.15	1	0	105	70	130				
Ethyl acetate	0.9400	0.25	1	0	94.0	70	130				
Ethylbenzene	1.000	0.15	1	0	100	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.260	0.15	1	0	126	70	130				
Freon 114	1.240	0.15	1	0	124	70	130				
Freon 12	1.190	0.15	1	0	119	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.7100	0.15	1	0	71.0	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.960	0.30	2	0	98.0	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Isobutyl Ketone	0.8500	0.30	1	0	85.0	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.260	0.15	1	0	126	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	1.080	0.15	1	0	108	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.130	0.15	1	0	113	70	130				
Tetrahydrofuran	1.000	0.15	1	0	100	70	130				
Toluene	1.100	0.15	1	0	110	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.030	0.15	1	0	103	70	130				
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130				
1,2-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-012811** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4197**
Client ID: **ZZZZZ** Batch ID: **R4197** TestNo: **TO-15** Analysis Date: **1/28/2011** SeqNo: **50409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	0.8200	0.30	1	0	82.0	70	130				
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	1.140	0.30	1	0	114	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.100	0.15	1	0	110	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.040	0.15	1	0	104	70	130				
Carbon disulfide	0.7500	0.15	1	0	75.0	70	130				
Carbon tetrachloride	1.010	0.15	1	0	101	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	1.120	0.15	1	0	112	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9900	0.15	1	0	99.0	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	0.7200	0.15	1	0	72.0	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.120	0.15	1	0	112	70	130				
Heptane	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130				
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.080	0.15	1	0	108	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.160	0.15	1	0	116	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8600	0.15	1	0	86.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9600	0.15	1	0	96.0	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				
Toluene	1.090	0.15	1	0	109	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	1.090	0.15	1	0	109	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D Vial: 17
Acq On : 25 Jan 2011 10:36 am Operator: RJP
Sample : ALCS1UG-012511 Inst : MSD #1
Misc : ALCS1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:57:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18022	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	50948	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	46978	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	26882	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	8736	0.95	ppb		79
3) Freon 12	2.91	85	62619	1.18	ppb		99
4) Chloromethane	3.05	50	14968	1.23	ppb		100
5) Freon 114	3.05	85	34405	1.14	ppb		95
6) Vinyl Chloride	3.18	62	11620	1.16	ppb		99
7) 1,3-butadiene	3.25	39	9680	1.21	ppb		80
8) Bromomethane	3.50	94	11312	1.07	ppb		96
9) Chloroethane	3.62	64	4788	1.19	ppb		84
10) Vinyl Bromide	3.86	106	12331	1.07	ppb		98
11) Freon 11	4.06	101	65445	2.11	ppb		99
12) Acetone	4.22	58	5875	1.21	ppb	#	60
13) Isopropyl alcohol	4.33	45	11984	1.15	ppb	#	38
14) 1,1-dichloroethene	4.65	96	16498	1.12	ppb		96
15) Freon 113	4.82	101	44082	1.24	ppb		96
16) Methylene chloride	5.04	84	16998	1.15	ppb		93
17) Allyl chloride	5.03	41	12303	1.06	ppb		98
18) Carbon disulfide	5.16	76	51904	1.13	ppb		99
19) trans-1,2-dichloroethene	5.87	61	21305	1.05	ppb		90
20) methyl tert-butyl ether	5.94	73	25222	1.21	ppb		94
21) 1,1-dichloroethane	6.26	63	31674	1.20	ppb		98
22) Vinyl acetate	6.30	43	16062	1.00	ppb		95
23) Methyl Ethyl Ketone	6.79	43	23374	0.90	ppb		97
24) cis-1,2-dichloroethene	7.14	61	19820	1.13	ppb		96
25) Hexane	6.78	41	13068	1.06	ppb	#	68
26) Ethyl acetate	7.38	43	17272	0.90	ppb		98
27) Chloroform	7.73	83	45436	1.20	ppb		99
28) Tetrahydrofuran	7.95	42	6830	0.86	ppb		90
29) 1,2-dichloroethane	8.80	62	27142	1.19	ppb		99
31) 1,1,1-trichloroethane	8.51	97	40629m	1.25	ppb		
32) Cyclohexane	9.20	56	12825	1.00	ppb		87
33) Carbon tetrachloride	9.14	117	50931	1.14	ppb		99
34) Benzene	9.10	78	40628	1.15	ppb		97
35) 1,4-dioxane	11.00	88	4091	0.74	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	38406	1.01	ppb		94
37) Heptane	10.49	43	13231	1.05	ppb		93
38) Trichloroethene	10.58	130	24538	1.10	ppb		94
39) 1,2-dichloropropane	10.70	63	16431	1.21	ppb		98
40) Bromodichloromethane	11.10	83	47748	1.20	ppb		98
41) cis-1,3-dichloropropene	12.02	75	16389	1.22	ppb		98
42) trans-1,3-dichloropropene	12.83	75	13219	1.20	ppb		99
43) 1,1,2-trichloroethane	13.14	97	21315	1.16	ppb		99
45) Toluene	12.87	92	21664	1.11	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	12408	0.86	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D Vial: 17
Acq On : 25 Jan 2011 10:36 am Operator: RJP
Sample : ALCS1UG-012511 Inst : MSD #1
Misc : ALCS1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:57:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51043	1.12	ppb	100
48)	Methyl Butyl Ketone	13.40	43	8729	0.71	ppb	86
49)	1,2-dibromoethane	14.06	107	28773	1.11	ppb	100
50)	Tetrachloroethylene	13.91	164	25223	1.12	ppb	98
51)	Chlorobenzene	14.86	112	35154	1.05	ppb	94
52)	Ethylbenzene	15.12	91	38463	1.02	ppb	96
53)	m&p-xylene	15.32	91	60548	1.97	ppb	96
54)	Styrene	15.72	104	18715	0.99	ppb	98
55)	Bromoform	15.80	173	50824	1.11	ppb	99
56)	o-xylene	15.74	91	31793	0.87	ppb	94
58)	1,1,2,2-tetrachloroethane	16.17	83	30248	0.95	ppb	98
59)	4-ethyltoluene	16.93	105	36342	1.07	ppb	99
60)	1,3,5-trimethylbenzene	16.99	105	26216	0.87	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	18448	0.78	ppb	98
62)	1,3-dichlorobenzene	17.65	146	20868	0.87	ppb	97
63)	benzyl chloride	17.72	91	15968	1.04	ppb	100
64)	1,4-dichlorobenzene	17.78	146	18838	0.81	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17636	0.83	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	5021m	0.75	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	13389	0.86	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

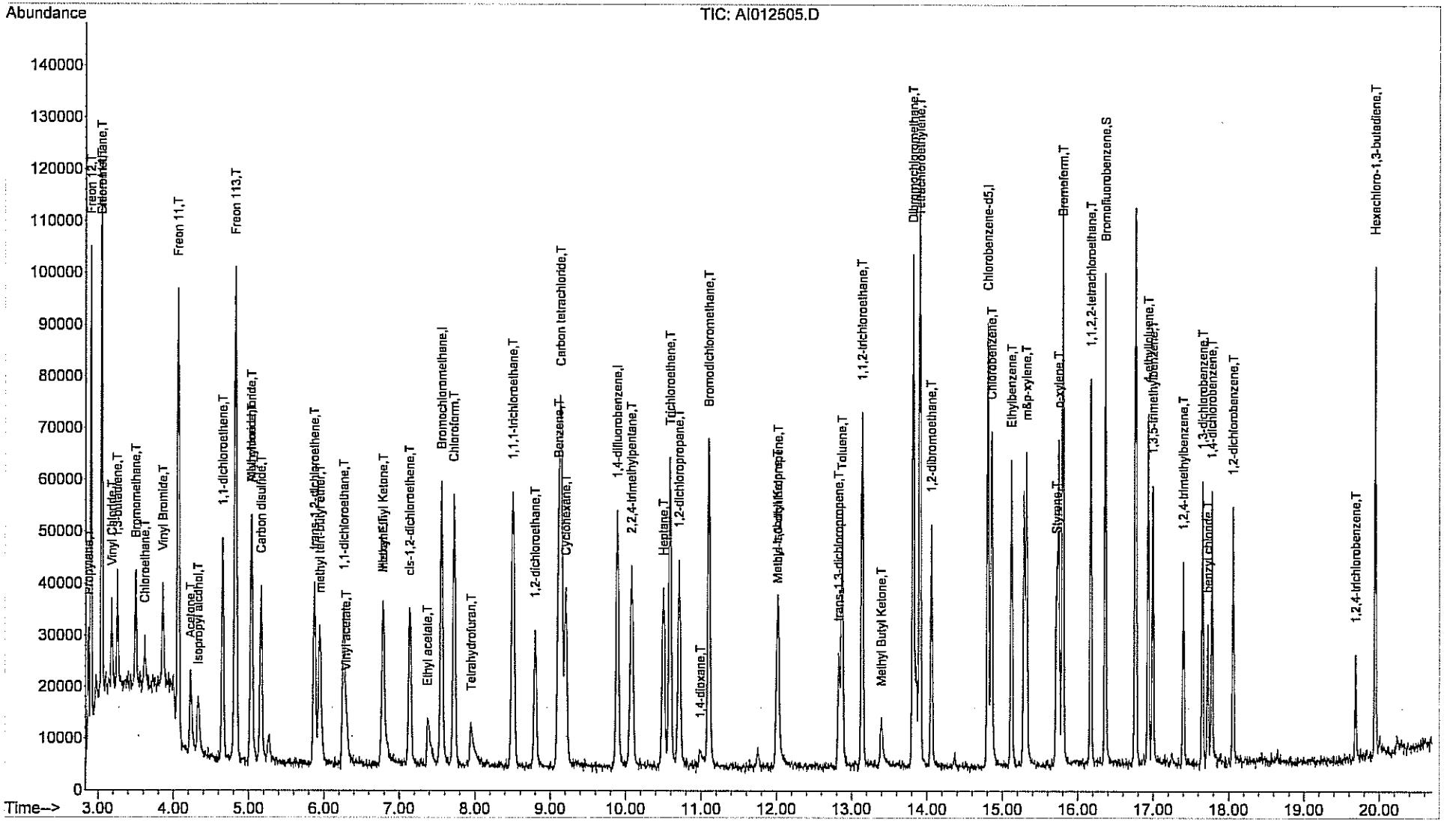
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D
Acq On : 25 Jan 2011 10:36 am
Sample : ALCS1UG-012511
Misc : ALCS1UG-012511
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:05 2011

Vial: 17
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012505.D A106_1UG.M Tue Feb 08 15:47:26 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D Vial: 4
Acq On : 27 Jan 2011 11:21 am Operator: RJP
Sample : ALCS1UG-012711 Inst : MSD #1
Misc : ALCS1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:42:36 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18733	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	52317	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	50239	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	28117	1.11	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10351	1.08	ppb		94
3) Freon 12	2.91	85	65180	1.19	ppb		100
4) Chloromethane	3.05	50	15910m	1.26	ppb		
5) Freon 114	3.05	85	38678m	1.24	ppb		
6) Vinyl Chloride	3.18	62	12311	1.18	ppb		99
7) 1,3-butadiene	3.26	39	9703	1.17	ppb		82
8) Bromomethane	3.50	94	12262	1.11	ppb		100
9) Chloroethane	3.62	64	4767	1.14	ppb		74
10) Vinyl Bromide	3.87	106	12465	1.04	ppb		99
11) Freon 11	4.07	101	37499	1.16	ppb		98
12) Acetone	4.24	58	4360	0.86	ppb		92
13) Isopropyl alcohol	4.35	45	8722	0.81	ppb		98
14) 1,1-dichloroethene	4.66	96	12044	0.79	ppb	#	88
15) Freon 113	4.83	101	46810	1.26	ppb		94
16) Methylene chloride	5.05	84	17970	1.17	ppb		95
17) Allyl chloride	5.03	41	13914	1.15	ppb		95
18) Carbon disulfide	5.17	76	53619	1.13	ppb		98
19) trans-1,2-dichloroethene	5.88	61	23186	1.10	ppb		93
20) methyl tert-butyl ether	5.97	73	27371	1.26	ppb		99
21) 1,1-dichloroethane	6.27	63	32970	1.20	ppb		100
22) Vinyl acetate	6.31	43	17793	1.06	ppb		97
23) Methyl Ethyl Ketone	6.80	43	24608	0.91	ppb		94
24) cis-1,2-dichloroethene	7.14	61	21183	1.16	ppb		94
25) Hexane	6.79	41	13217	1.03	ppb	#	74
26) Ethyl acetate	7.39	43	18740	0.94	ppb		99
27) Chloroform	7.73	83	47950	1.22	ppb		96
28) Tetrahydrofuran	7.97	42	8201	1.00	ppb		82
29) 1,2-dichloroethane	8.81	62	28229	1.19	ppb		99
31) 1,1,1-trichloroethane	8.51	97	41814m	1.25	ppb		
32) Cyclohexane	9.20	56	14799	1.13	ppb		93
33) Carbon tetrachloride	9.14	117	52024	1.13	ppb		100
34) Benzene	9.11	78	45630	1.26	ppb		96
35) 1,4-dioxane	11.02	88	5038m	0.88	ppb		
36) 2,2,4-trimethylpentane	10.08	57	40648	1.04	ppb		96
37) Heptane	10.50	43	12920	1.00	ppb		95
38) Trichloroethene	10.59	130	25271	1.10	ppb		94
39) 1,2-dichloropropane	10.71	63	16928	1.22	ppb		98
40) Bromodichloromethane	11.11	83	47370	1.16	ppb		100
41) cis-1,3-dichloropropene	12.03	75	16420	1.19	ppb		97
42) trans-1,3-dichloropropene	12.83	75	12863	1.13	ppb		97
43) 1,1,2-trichloroethane	13.14	97	22354	1.18	ppb		98
45) Toluene	12.87	92	23092	1.10	ppb		100
46) Methyl Isobutyl Ketone	12.01	43	13133	0.85	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D Vial: 4
Acq On : 27 Jan 2011 11:21 am Operator: RJP
Sample : ALCS1UG-012711 Inst : MSD #1
Misc : ALCS1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:42:36 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51082	1.05	ppb	99
48)	Methyl Butyl Ketone	13.40	43	11057m p	0.85	ppb	
49)	1,2-dibromoethane	14.06	107	30343	1.09	ppb	99
50)	Tetrachloroethylene	13.91	164	27194	1.13	ppb	97
51)	Chlorobenzene	14.86	112	37272	1.04	ppb	95
52)	Ethylbenzene	15.12	91	40162	1.00	ppb	95
53)	m&p-xylene	15.32	91	64569	1.96	ppb	97
54)	Styrene	15.72	104	18872	0.93	ppb	98
55)	Bromoform	15.80	173	49014	1.00	ppb	100
56)	o-xylene	15.74	91	32900	0.84	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	32046	0.94	ppb	98
59)	4-ethyltoluene	16.93	105	36443	1.00	ppb	96
60)	1,3,5-trimethylbenzene	16.99	105	25846	0.81	ppb	95
61)	1,2,4-trimethylbenzene	17.40	105	19432	0.77	ppb	95
62)	1,3-dichlorobenzene	17.65	146	21676	0.84	ppb	97
63)	benzyl chloride	17.72	91	15682	0.95	ppb	98
64)	1,4-dichlorobenzene	17.78	146	19937	0.80	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17509	0.77	ppb	95
66)	1,2,4-trichlorobenzene	19.69	180	5231m p	0.73	ppb	
67)	Hexachloro-1,3-butadiene	19.96	225	11875	0.71	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

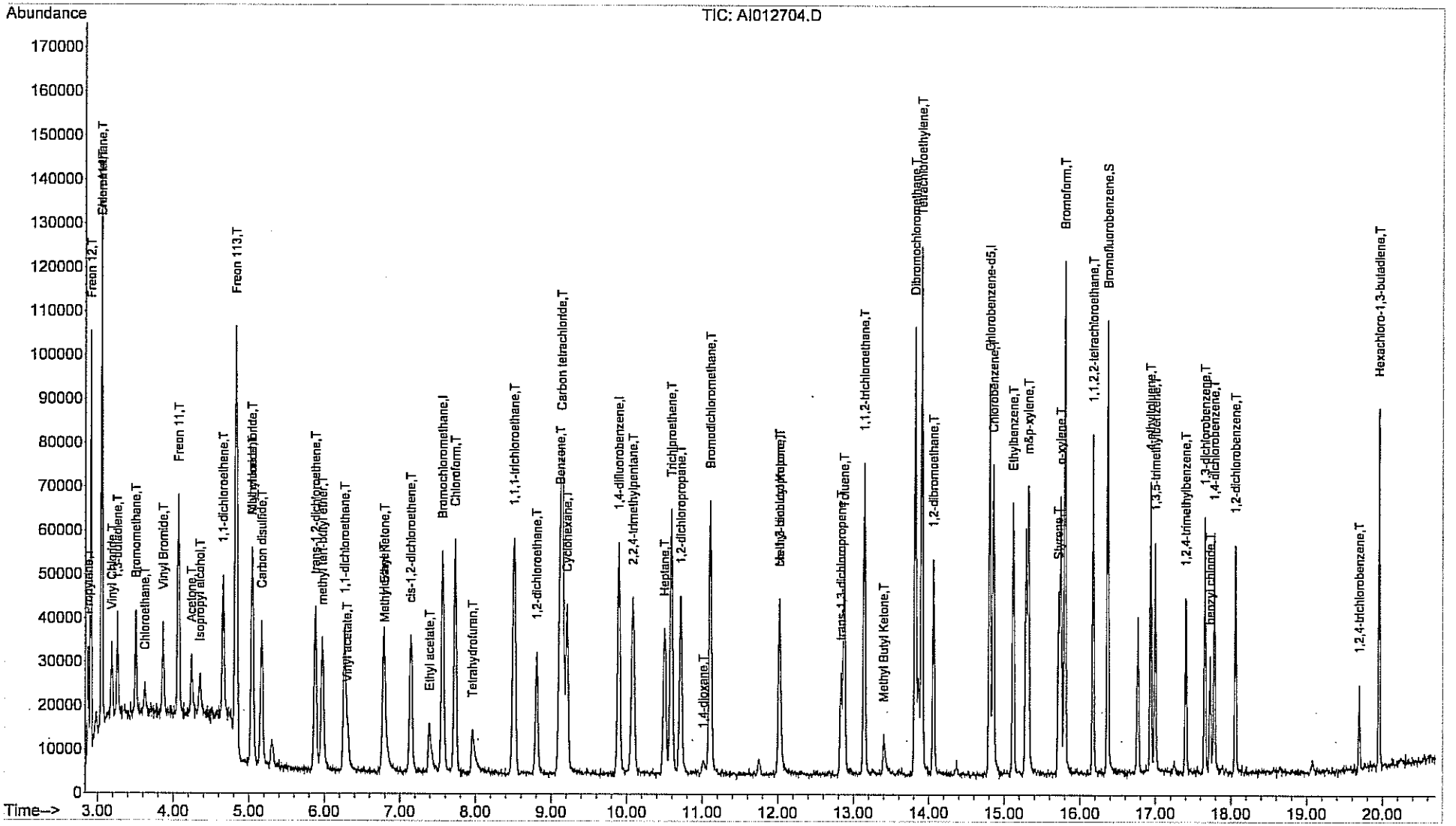
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D
Acq On : 27 Jan 2011 11:21 am
Sample : ALCS1UG-012711
Misc : ALCS1UG-012711
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:33 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012704.D A106_1UG.M Tue Feb 08 15:47:31 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D Vial: 4
Acq On : 28 Jan 2011 11:40 am Operator: RJP
Sample : ALCS1UG-012811 Inst : MSD #1
Misc : ALCS1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:01:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	31472	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	90987	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	81922	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	46321	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	15267	0.95	ppb		87
3) Freon 12	2.90	85	103129	1.12	ppb		99
4) Chloromethane	3.04	50	24416	1.15	ppb		94
5) Freon 114	3.04	85	59385	1.13	ppb		95
6) Vinyl Chloride	3.18	62	18682	1.07	ppb		100
7) 1,3-butadiene	3.26	39	15661	1.12	ppb		89
8) Bromomethane	3.50	94	19268	1.04	ppb		99
9) Chloroethane	3.61	64	7855	1.12	ppb		96
10) Vinyl Bromide	3.86	106	20203	1.01	ppb		99
11) Freon 11	4.06	101	58680	1.08	ppb		98
12) Acetone	4.21	58	9712	1.14	ppb		87
13) Isopropyl alcohol	4.31	45	19691	1.08	ppb		91
14) 1,1-dichloroethene	4.65	96	19331	0.75	ppb		90
15) Freon 113	4.82	101	45024m	0.72	ppb		
16) Methylene chloride	5.04	84	22136m	0.86	ppb		
17) Allyl chloride	5.03	41	19050	0.94	ppb		89
18) Carbon disulfide	5.16	76	60355m	0.75	ppb		
19) trans-1,2-dichloroethene	5.87	61	38689	1.10	ppb		88
20) methyl tert-butyl ether	5.94	73	42225	1.16	ppb		95
21) 1,1-dichloroethane	6.26	63	50115	1.09	ppb		99
22) Vinyl acetate	6.29	43	30775	1.09	ppb		94
23) Methyl Ethyl Ketone	6.78	43	44959	0.99	ppb		95
24) cis-1,2-dichloroethene	7.14	61	33579	1.10	ppb		93
25) Hexane	6.78	41	22752	1.05	ppb	#	78
26) Ethyl acetate	7.36	43	32605	0.97	ppb		95
27) Chloroform	7.73	83	73796	1.12	ppb		99
28) Tetrahydrofuran	7.93	42	11871	0.86	ppb		90
29) 1,2-dichloroethane	8.80	62	43883	1.11	ppb		100
31) 1,1,1-trichloroethane	8.50	97	67842	1.17	ppb		99
32) Cyclohexane	9.20	56	23049	1.01	ppb		91
33) Carbon tetrachloride	9.13	117	81117	1.01	ppb		100
34) Benzene	9.11	78	69302	1.10	ppb		97
35) 1,4-dioxane	10.98	88	8136m	0.82	ppb		
36) 2,2,4-trimethylpentane	10.07	57	65576	0.97	ppb		96
37) Heptane	10.50	43	20955	0.93	ppb		94
38) Trichloroethene	10.58	130	39293	0.98	ppb		94
39) 1,2-dichloropropane	10.71	63	26588	1.10	ppb		98
40) Bromodichloromethane	11.10	83	74760	1.05	ppb		98
41) cis-1,3-dichloropropene	12.02	75	25824	1.08	ppb		96
42) trans-1,3-dichloropropene	12.83	75	20355	1.03	ppb		98
43) 1,1,2-trichloroethane	13.14	97	36035	1.10	ppb		99
45) Toluene	12.87	92	37324	1.09	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	18197	0.72	ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D Vial: 4
Acq On : 28 Jan 2011 11:40 am Operator: RJP
Sample : ALCS1UG-012811 Inst : MSD #1
Misc : ALCS1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:01:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	79686	1.01	ppb	98
48)	Methyl Butyl Ketone	13.39	43	19321m	0.91	ppb	
49)	1,2-dibromoethane	14.06	107	46643	1.03	ppb	99
50)	Tetrachloroethylene	13.91	164	41436	1.05	ppb	99
51)	Chlorobenzene	14.85	112	58421	1.00	ppb	93
52)	Ethylbenzene	15.12	91	64938	0.99	ppb	97
53)	m&p-xylene	15.32	91	108743	2.03	ppb	96
54)	Styrene	15.72	104	31880	0.96	ppb	99
55)	Bromoform	15.80	173	78498	0.99	ppb	98
56)	o-xylene	15.75	91	54778	0.86	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	51637	0.93	ppb	98
59)	4-ethyltoluene	16.93	105	59686	1.00	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	43648	0.83	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	33770	0.82	ppb	97
62)	1,3-dichlorobenzene	17.65	146	36629	0.87	ppb	95
63)	benzyl chloride	17.72	91	29867	1.11	ppb	99
64)	1,4-dichlorobenzene	17.78	146	36285	0.89	ppb	96
65)	1,2-dichlorobenzene	18.06	146	32033	0.86	ppb	94
66)	1,2,4-trichlorobenzene	19.69	180	10419	0.89	ppb	92
67)	Hexachloro-1,3-butadiene	19.95	225	25088	0.92	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

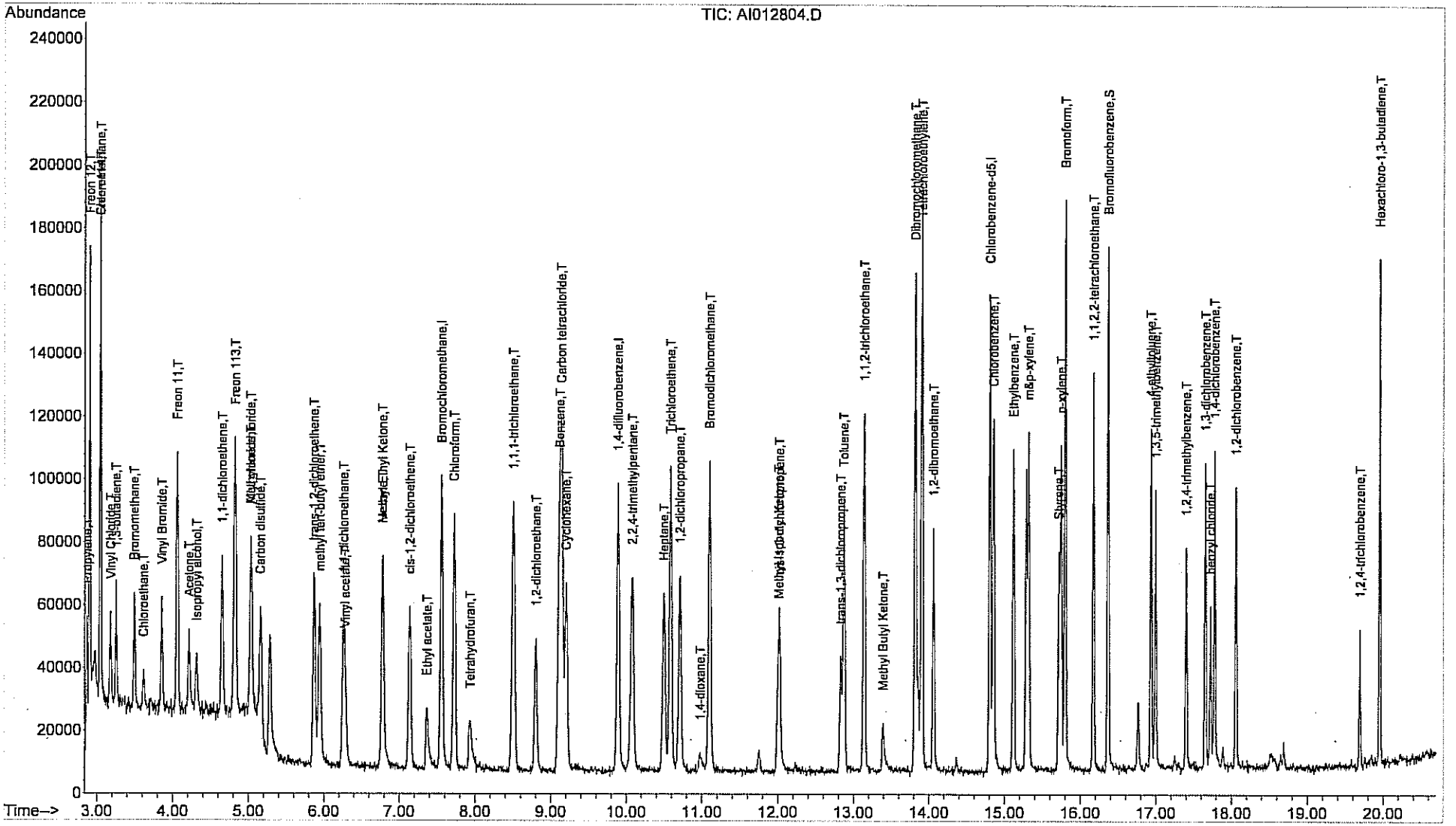
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D
Acq On : 28 Jan 2011 11:40 am
Sample : ALCS1UG-012811
Misc : ALCS1UG-012811
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:07 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012804.D A106_1UG.M Tue Feb 08 15:47:39 2011 MSD1 Page 3

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4196
Client ID: ZZZZZ Batch ID: R4196 TestNo: TO-15 Analysis Date: 1/28/2011 SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.010	0.15	1	0	101	70	130	1.25	21.2	30	
1,1,2,2-Tetrachloroethane	0.7800	0.15	1	0	78.0	70	130	0.94	18.6	30	
1,1,2-Trichloroethane	1.010	0.15	1	0	101	70	130	1.18	15.5	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1-Dichloroethene	1.200	0.15	1	0	120	70	130	0.79	41.2	30	R
1,2,4-Trichlorobenzene	0.6100	0.15	1	0	61.0	70	130	0.73	17.9	30	S
1,2,4-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,2-Dibromoethane	0.8600	0.15	1	0	86.0	70	130	1.09	23.6	30	
1,2-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
1,2-Dichloroethane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130	1.22	12.2	30	
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.81	8.28	30	
1,3-butadiene	1.010	0.15	1	0	101	70	130	1.17	14.7	30	
1,3-Dichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
1,4-Dichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
1,4-Dioxane	0.3200	0.30	1	0	32.0	70	130	0.88	93.3	30	SR
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
4-ethyltoluene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Acetone	1.280	0.30	1	0	128	70	130	0.86	39.3	30	R
Allyl chloride	1.150	0.15	1	0	115	70	130	1.15	0	30	
Benzene	1.100	0.15	1	0	110	70	130	1.26	13.6	30	
Benzyl chloride	1.010	0.15	1	0	101	70	130	0.95	6.12	30	
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130	1.16	26.3	30	
Bromoform	0.7000	0.15	1	0	70.0	70	130	1	35.3	30	R
Bromomethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012711	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.050	0.15	1	0	105	70	130	1.13	7.34	30	
Carbon tetrachloride	0.7900	0.15	1	0	79.0	70	130	1.13	35.4	30	R
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30	
Chloroethane	1.100	0.15	1	0	110	70	130	1.14	3.57	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.22	4.18	30	
Chloromethane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
cis-1,2-Dichloroethene	1.270	0.15	1	0	127	70	130	1.16	9.05	30	
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130	1.19	17.4	30	
Cyclohexane	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Dibromochloromethane	0.7400	0.15	1	0	74.0	70	130	1.05	34.6	30	R
Ethyl acetate	1.040	0.25	1	0	104	70	130	0.94	10.1	30	
Ethylbenzene	1.230	0.15	1	0	123	70	130	1	20.6	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	30	
Freon 113	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.24	12.9	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.19	7.86	30	
Heptane	1.290	0.15	1	0	129	70	130	1	25.3	30	
Hexachloro-1,3-butadiene	0.5500	0.15	1	0	55.0	70	130	0.71	25.4	30	S
Hexane	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130	0.81	19.0	30	
m&p-Xylene	3.090	0.30	2	0	154	70	130	1.96	44.8	30	SR
Methyl Butyl Ketone	0.3900	0.30	1	0	39.0	70	130	0.85	74.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Methyl Isobutyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.85	44.6	30	SR
Methyl tert-butyl ether	1.240	0.15	1	0	124	70	130	1.26	1.60	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
o-Xylene	0.9400	0.15	1	0	94.0	70	130	0.84	11.2	30	
Propylene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Styrene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.13	19.4	30	
Tetrahydrofuran	1.090	0.15	1	0	109	70	130	1	8.61	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.380	0.15	1	0	238	70	130	1.1	73.6	30	SR
trans-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.13	2.69	30	
Trichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Vinyl acetate	1.170	0.15	1	0	117	70	130	1.06	9.87	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1.04	2.93	30	
Vinyl chloride	1.080	0.15	1	0	108	70	130	1.18	8.85	30	

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1-Dichloroethene	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
1,2,4-Trichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.89	18.4	30	
1,2,4-Trimethylbenzene	0.7400	0.15	1	0	74.0	70	130	0.82	10.3	30	
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130	1.03	5.66	30	
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
1,2-Dichloropropane	1.130	0.15	1	0	113	70	130	1.1	2.69	30	
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
1,3-butadiene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	30	
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.89	9.41	30	
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130	0.82	10.3	30	
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	1	9.42	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.250	0.30	1	0	125	70	130	1.14	9.21	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.94	16.1	30	
Benzene	1.050	0.15	1	0	105	70	130	1.1	4.65	30	
Benzyl chloride	0.9700	0.15	1	0	97.0	70	130	1.11	13.5	30	
Bromodichloromethane	1.150	0.15	1	0	115	70	130	1.05	9.09	30	
Bromoform	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
Bromomethane	1.090	0.15	1	0	109	70	130	1.04	4.69	30	
Carbon disulfide	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
Carbon tetrachloride	1.110	0.15	1	0	111	70	130	1.01	9.43	30	
Chlorobenzene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.12	0.889	30	
Chloroform	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Chloromethane	1.140	0.15	1	0	114	70	130	1.15	0.873	30	
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	1.1	13.6	30	
cis-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.01	8.25	30	
Dibromochloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130	0.97	26.9	30	
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.08	3.64	30	
Freon 113	1.160	0.15	1	0	116	70	130	0.72	46.8	30	R
Freon 114	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Heptane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.92	15.2	30	
Hexane	0.8500	0.15	1	0	85.0	70	130	1.05	21.1	30	
Isopropyl alcohol	0.8400	0.15	1	0	84.0	70	130	1.08	25.0	30	
m&p-Xylene	1.890	0.30	2	0	94.5	70	130	2.03	7.14	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.91	20.6	30	
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.99	28.9	30	
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130	0.72	2.82	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7700	0.15	1	0	77.0	70	130	1.16	40.4	30	R
Methylene chloride	1.080	0.15	1	0	108	70	130	0.86	22.7	30	
o-Xylene	0.8100	0.15	1	0	81.0	70	130	0.86	5.99	30	
Propylene	0.8200	0.15	1	0	82.0	70	130	0.95	14.7	30	
Styrene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	0.7600	0.15	1	0	76.0	70	130	0.86	12.3	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.1	18.9	30	
trans-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
Trichloroethene	1.080	0.15	1	0	108	70	130	0.98	9.71	30	
Vinyl acetate	0.8100	0.15	1	0	81.0	70	130	1.09	29.5	30	
Vinyl Bromide	1.030	0.15	1	0	103	70	130	1.01	1.96	30	
Vinyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 01:19:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20088	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	68662	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	70738	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	38886	1.09	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	11023	1.08	ppb		92
3) Freon 12	2.91	85	64877	1.10	ppb		99
4) Chloromethane	3.04	50	15209	1.12	ppb		100
5) Freon 114	3.04	85	36694	1.09	ppb		94
6) Vinyl Chloride	3.18	62	12061	1.08	ppb		99
7) 1,3-butadiene	3.25	39	9037	1.01	ppb		83
8) Bromomethane	3.49	94	12177	1.03	ppb		99
9) Chloroethane	3.61	64	4953	1.10	ppb		86
10) Vinyl Bromide	3.86	106	12912	1.01	ppb		95
11) Freon 11	4.06	101	35232	1.02	ppb		99
12) Acetone	4.22	58	6935	1.28	ppb		95
13) Isopropyl alcohol	4.32	45	11400	0.98	ppb		81
14) 1,1-dichloroethene	4.65	96	19690	1.20	ppb		95
15) Freon 113	4.82	101	46622	1.17	ppb		95
16) Methylene chloride	5.03	84	19415	1.18	ppb		93
17) Allyl chloride	5.02	41	14913	1.15	ppb		96
18) Carbon disulfide	5.16	76	53813	1.05	ppb		98
19) trans-1,2-dichloroethene	5.87	61	26191	1.16	ppb		89
20) methyl tert-butyl ether	5.94	73	28941	1.24	ppb		93
21) 1,1-dichloroethane	6.26	63	35716	1.22	ppb		100
22) Vinyl acetate	6.29	43	20981	1.17	ppb		96
23) Methyl Ethyl Ketone	6.78	43	29414	1.02	ppb		96
24) cis-1,2-dichloroethene	7.13	61	24884	1.27	ppb		93
25) Hexane	6.79	41	15522	1.13	ppb	#	76
26) Ethyl acetate	7.38	43	22332	1.04	ppb		99
27) Chloroform	7.72	83	49283	1.17	ppb		97
28) Tetrahydrofuran	7.94	42	9644	1.09	ppb		84
29) 1,2-dichloroethane	8.80	62	30674	1.21	ppb		99
31) 1,1,1-trichloroethane	8.50	97	44085	1.01	ppb		100
32) Cyclohexane	9.20	56	19384	1.12	ppb	#	83
33) Carbon tetrachloride	9.14	117	48038	0.79	ppb		99
34) Benzene	9.11	78	52520	1.10	ppb		98
35) 1,4-dioxane	11.03	88	2365m	0.32	ppb		
36) 2,2,4-trimethylpentane	10.08	57	51272	1.00	ppb		99
37) Heptane	10.50	43	21944	1.29	ppb		90
38) Trichloroethene	10.58	130	34845	1.16	ppb		94
39) 1,2-dichloropropane	10.71	63	19738	1.08	ppb		100
40) Bromodichloromethane	11.10	83	47607	0.89	ppb		98
41) cis-1,3-dichloropropene	12.02	75	18062	1.00	ppb		95
42) trans-1,3-dichloropropene	12.83	75	16366	1.10	ppb		93
43) 1,1,2-trichloroethane	13.14	97	24944	1.01	ppb		97
45) Toluene	12.87	92	70167	2.38	ppb		99
46) Methyl Isobutyl Ketone	12.02	43	11653m	0.54	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 01:19:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

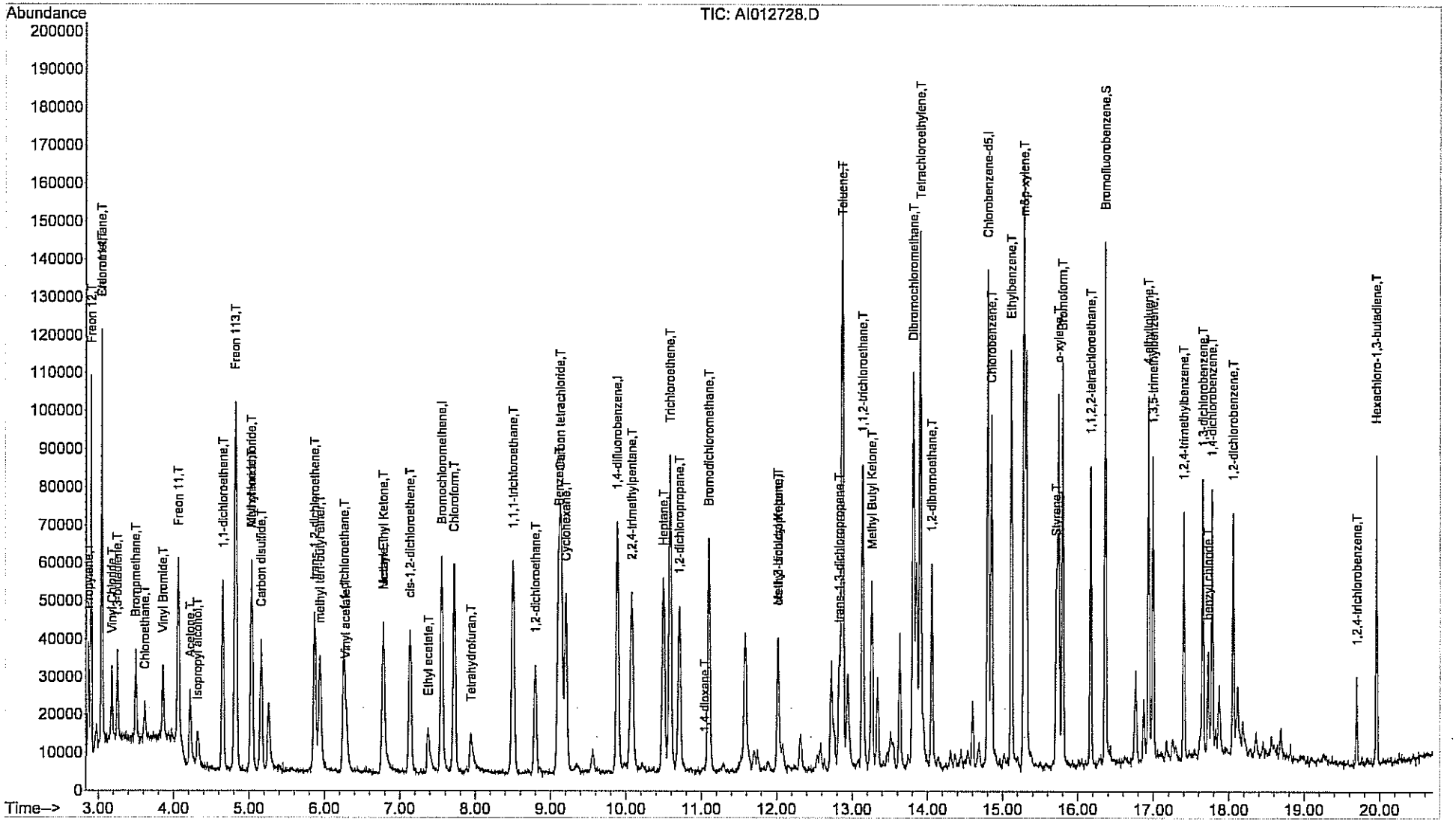
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.81	129	50735	0.74	ppb	98
48)	Methyl Butyl Ketone	13.27	43	7242m	0.39	ppb	
49)	1,2-dibromoethane	14.06	107	33496	0.86	ppb	99
50)	Tetrachloroethylene	13.91	164	31471	0.93	ppb	99
51)	Chlorobenzene	14.85	112	47076	0.93	ppb	95
52)	Ethylbenzene	15.12	91	69511	1.23	ppb	98
53)	m&p-xylene	15.29	91	143114	3.09	ppb	97
54)	Styrene	15.72	104	24281	0.85	ppb	92
55)	Bromoform	15.80	173	47769m	0.70	ppb	
56)	o-xylene	15.74	91	51857	0.94	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	37488m	0.78	ppb	
59)	4-ethyltoluene	16.93	105	49804	0.97	ppb	99
60)	1,3,5-trimethylbenzene	16.99	105	39731	0.88	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	32456	0.91	ppb	98
62)	1,3-dichlorobenzene	17.65	146	27239	0.75	ppb	96
63)	benzyl chloride	17.72	91	23430m	1.01	ppb	
64)	1,4-dichlorobenzene	17.78	146	26083	0.74	ppb	98
65)	1,2-dichlorobenzene	18.05	146	23202	0.73	ppb	94
66)	1,2,4-trichlorobenzene	19.70	180	6162m	0.61	ppb	
67)	Hexachloro-1,3-butadiene	19.96	225	12795m	0.55	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:06 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012728.D A106_1UG.M Tue Feb 08 15:47:36 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 29 03:11:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	25975	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.88	114	67394	1.00	ppb		-0.01
44) Chlorobenzene-d5	14.80	117	64100	1.00	ppb		-0.01
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	35605	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	10908	0.82	ppb		87
3) Freon 12	2.90	85	83749	1.10	ppb		96
4) Chloromethane	3.04	50	20011	1.14	ppb		96
5) Freon 114	3.04	85	48793	1.12	ppb		96
6) Vinyl Chloride	3.18	62	16539	1.15	ppb		94
7) 1,3-butadiene	3.25	39	11322	0.98	ppb		90
8) Bromomethane	3.50	94	16631	1.09	ppb		99
9) Chloroethane	3.61	64	6533	1.13	ppb		92
10) Vinyl Bromide	3.86	106	17049	1.03	ppb		99
11) Freon 11	4.06	101	50058	1.12	ppb		98
12) Acetone	4.22	58	8763m	1.25	ppb		
13) Isopropyl alcohol	4.33	45	12634	0.84	ppb	#	65
14) 1,1-dichloroethene	4.65	96	21218	1.00	ppb		100
15) Freon 113	4.82	101	59368	1.16	ppb		96
16) Methylene chloride	5.03	84	23090	1.08	ppb		90
17) Allyl chloride	5.02	41	13432	0.80	ppb		92
18) Carbon disulfide	5.16	76	65836	1.00	ppb		99
19) trans-1,2-dichloroethene	5.87	61	26512	0.91	ppb		92
20) methyl tert-butyl ether	5.94	73	23089	0.77	ppb		85
21) 1,1-dichloroethane	6.26	63	38934	1.03	ppb		97
22) Vinyl acetate	6.29	43	18836	0.81	ppb		100
23) Methyl Ethyl Ketone	6.79	43	27567	0.74	ppb		97
24) cis-1,2-dichloroethene	7.14	61	24344	0.96	ppb		95
25) Hexane	6.77	41	15240	0.85	ppb	#	70
26) Ethyl acetate	7.37	43	20692	0.74	ppb		95
27) Chloroform	7.71	83	60205	1.10	ppb		99
28) Tetrahydrofuran	7.94	42	8660	0.76	ppb		82
29) 1,2-dichloroethane	8.79	62	35838	1.09	ppb		98
31) 1,1,1-trichloroethane	8.49	97	49235	1.15	ppb		98
32) Cyclohexane	9.19	56	15677	0.93	ppb		91
33) Carbon tetrachloride	9.14	117	65857	1.11	ppb		98
34) Benzene	9.10	78	49094	1.05	ppb		97
35) 1,4-dioxane	10.99	88	5445m	0.74	ppb		
36) 2,2,4-trimethylpentane	10.07	57	46035	0.92	ppb		93
37) Heptane	10.49	43	15687	0.94	ppb		97
38) Trichloroethene	10.58	130	31902	1.08	ppb		94
39) 1,2-dichloropropane	10.70	63	20231	1.13	ppb		99
40) Bromodichloromethane	11.10	83	60490	1.15	ppb		100
41) cis-1,3-dichloropropene	12.01	75	17952	1.01	ppb		96
42) trans-1,3-dichloropropene	12.82	75	14848	1.02	ppb		98
43) 1,1,2-trichloroethane	13.14	97	28293	1.16	ppb		99
45) Toluene	12.87	92	25858	0.97	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	13847m	0.70	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 29 03:11:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

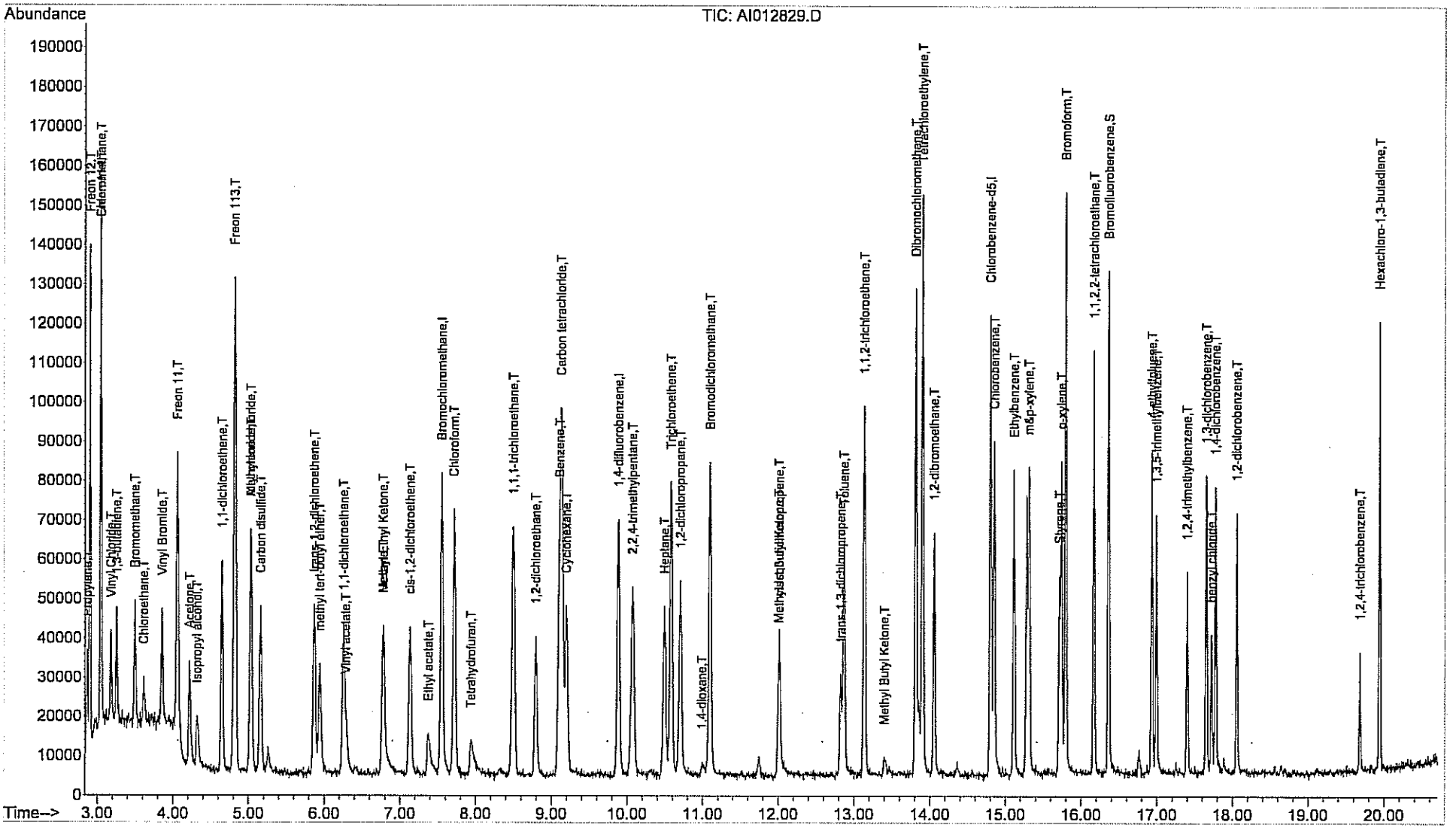
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.81	129	64423	1.04	ppb	100
48)	Methyl Butyl Ketone	13.40	43	12419m	0.74	ppb	
49)	1,2-dibromoethane	14.05	107	38668	1.09	ppb	96
50)	Tetrachloroethylene	13.90	164	32501	1.06	ppb	99
51)	Chlorobenzene	14.85	112	44364	0.97	ppb	93
52)	Ethylbenzene	15.12	91	47461	0.93	ppb	99
53)	m&p-xylene	15.31	91	79161	1.89	ppb	97
54)	Styrene	15.71	104	22906	0.88	ppb	93
55)	Bromoform	15.80	173	63426	1.02	ppb	99
56)	o-xylene	15.74	91	40357	0.81	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	40448	0.93	ppb	99
59)	4-ethyltoluene	16.93	105	42529	0.91	ppb	98
60)	1,3,5-trimethylbenzene	16.99	105	32304	0.79	ppb	96
61)	1,2,4-trimethylbenzene	17.40	105	23700	0.74	ppb	98
62)	1,3-dichlorobenzene	17.65	146	28235	0.86	ppb	98
63)	benzyl chloride	17.72	91	20364	0.97	ppb	96
64)	1,4-dichlorobenzene	17.77	146	25914	0.81	ppb	98
65)	1,2-dichlorobenzene	18.06	146	23167	0.80	ppb	96
66)	1,2,4-trichlorobenzene	19.69	180	6764	0.74	ppb	97
67)	Hexachloro-1,3-butadiene	19.94	225	16882	0.79	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:08 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8238
Standard Stock #(s) 8239
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1JG	AI01601	.		A106-1U6		1/6/11	1713		
	A1U6-2.0	03	-		↓		↓			
	1.5	04	-							
	1.25	05	-							
	1.0	06	-	200						
	0.75	07	-							
	0.50	08	-							
	0.30	09	-							
	0.15	10	-							
	0.10	11	-				↓			
	0.09	12	-				1/7/11	0033		
	BLK	13	-		↓					

Analyzed by: _____

Page No: 36

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8259
Standard Stock #(s) 8260
LCS Stock #(s) 8261
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1101033-001	A10125 24	-	200	A106-10L		1/25/11	0958		
	002	25	-	↓	↓		↓	↓		
	003	26	-	↓	↓		↓	↓		
	C1101032-003 OL	27	10	20						
	002 ↓	28	↓	↓						
	001 ↓	29	↓	↓			1/26/11	0038		
	BLK	30	1	1	↓					
	BFBIUL	A10127 01	-	-	A106-10L		1/27/11	0851		
	AIUG-10	02	-	200						
	ALCSIUG-012711	04	-							
	AMBIUG- ↓	05	-							
	WAC-012711A	06	-							
	B	07	-							
	C	08	-							
	D	09	-							
	E	05 R1	-							
	F	10	-							
	C1101031-006	12	1	↓						
	001 OL	13	10	20						
	↓	14	40	5						
	002	15	10	20						
	003	17	↓	↓						
	↓	18	40	5						
	004	19	10	20						
	↓	20	40	20(5)						
	005	21	5	40						
	C1101033-001	22	10	20	↓		↓	0943 1043		

Analyzed by: [signature]

Page No: 43

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: _____
Standard Stock #(s) _____
LCS Stock #(s) _____
Method Reference: Toxic Organic Componds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	CJ101033-002 DL	AI012723	20	10	A106_1U6		1/27/11	2015		
	CJ101032-003	24	-	200						
	002	25	-	↓			↓			
	001	26	-							
	↓ DL	27	50	20 (5)*			1/28/11	0025		
	LCS1U6-012711	28	-	200						
	CJ101038-002	29	-							
	004	30	-							
	005	31	-							
	008	32	-							
	001	33	-							
	003	34	-							
	006	35	-							
	007	36	-							
	CJ101040-001 DL	37	-							
	002	38	-							
	003 ↓	39	-	↓				0706		
	BLK	40	-	-	↓		↓			
	BFB1U6	AI012802	-	-	A106_1U6		1/28/11	0831		
	A1U6-1.6	03	-	200						
	ALCS1U6-012811	04	-							
	AMB1U6 ↓	05	-							
	CJ101040-001	06	-							
	002	07	-							
	003	08	-	↓						
	CJ101031-001 DL	09	10	20 (5)*				1623		
	002-6	10	50	↓ (5)*	↓		↓			

Page No: 54

Analyzed by: _____

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: _____
Standard Stock #(s) _____
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1101031-003 OL	AZ01281	510	20 (51)*	A106-1U6		1/28/11	1657		
	004	12	2430	(243)*						
	005	13	180	10(5)*						
	C1101032-001	14	2430	20 (243)*						
	B1101038-002	15	5	40						
	004	16	10	20						
	005	17	5	40						
	006	18	6	1						
	001	19	10	20						
	003	20	1	1						
	1	22	40	5						
	006	23	10	20						
	007	24	5	40			1/29/11	0040		
	C1101040-001	26	270	20 (27)*						
	002	27	90	20(5)						
	003	28	180	10						
	LCS1060-012811	25	-	200				0250		
	BLK	30	-	-						

Analyzed by: _____

* OL IN CAN

Page No: 45

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15IUT IS^A	6112	50ppb	0.5psig	30psia	1 ppb	AD	
6118	11/12/08	11/09	TO15 IS	AB-2153	1 ppm	SPECTRA GASES			mp	
6119	↓	↓	TO15 SUBSET	AB-2274	↓	↓	↓	↓	↓	RECEAT 3/11/10 7140A+B
6120	↓	↓	TO14 MIX	AB-2238	↓	↓	↓	↓	↓	
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psig	30psia	30 ppb	mp	
6122	↓	↓	↓ STD	4192/4193	↓	↓	↓	↓	↓	
6123	↓	↓	↓ LCS	2056/2057	↓	↓	↓	↓	↓	
6124	↓	↓	TO15IUT IS^A	6121	50ppb	0.5psig	45psia	1ppb	↓	
6125	↓	↓	↓ STD^A	6122	↓	↓	↓	↓	↓	
6126	↓	↓	↓ LCS	6123	↓	↓	↓	↓	↓	
6127	11/15/08	↓	TO15IUT IS^A	6121	50 ppb	0.5psig	45psia	1ppb	↓	
6128	11/17/08	11/21/08	TO15IUT IS^B	6121	↓	↓	↓	↓	↓	
6129	↓	↓	↓ STD^B	6122	↓	↓	↓	↓	↓	
6130	↓	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6131	11/18/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6132	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	
6133	11/19/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6134	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	

Page 321 of 333

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	TO15IVT IS[A]	7352	50ppb	0.9psig	45psia	1ppb	MP	
7366	8/31/09	9/10	TO15 IS	06503 003	1ppm	SCOTT GASES		1ppm	MP	
7367	8/31/09	9/6/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	MP	
7368	↓	↓	STD	6119/20	↓	↓	↓	↓		
7369			LCS	6192/93						
7370			SIL/SUL	6194						
7371			TO15IVT IS[A]	7367	50ppb	0.9psig	45psia	1ppb		
7372			STD[A]	7368						
7373			LCS	7369						
7374	9/1/09		TO15IVT IS[A]	7367						
7375	9/2/09	↓	↓	↓	↓	↓	↓	↓		
7376	9/1/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7377	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	
7378	9/2/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7379	9/2/09	9/6/09	↓ IS[A]	7367	↓	↓	↓	↓	L.L.	
7380	9/3/09	9/10/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7381	9/3/09	9/10/09	TO15IVT IS[A]	7380	50ppb	0.9psig	45psia	1ppb	L.L.	
7382	9/3/09	9/10/09	↓ IS[B]	7380	↓	↓	↓	↓	↓	
7382A	8/31/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	I.L.	
7382B	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	

Page # 65

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.	
7611	1/26/10	1/25/10	SILX/SUL-F	6194/7046	1ppm	1.5psig	30psia	50ppb	I.I.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.I.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	I.I.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	% VARIES	10L	MATHESON TRI-GAS		MI	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	I.I.	
7621	↓	↓	STD(A)	7617/7418 7384						
7622	↓	↓	LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	I.I.	
7624			STD(A)	7621						
7625			LCS	7622	↓					
7626	↓	↓	IS(B)	7620	↓	↓	↓	↓	↓	

Page 323 of 333

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8259	1/17/11	1/24/11	TO15 1UG IS(A)	8253	50ppb	0.9psiG	45psiA	1ppb		
8260	↓	↓	↓ STD(A)	8254	↓	↓	↓	↓		
8261	↓	↓	↓ LCS	8255	↓	↓	↓	↓		
8262	1/18/11	1/24/11	TO15 1UG IS(B)	8253	50ppb	0.9psiG	45psiA	1ppb	L.L.	
8263	↓	↓	↓ STD(B)	8254	↓	↓	↓	↓	↓	
8264	1/21/11	1/24/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	
8265	1/24/11	1/31/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	
8266	↓	↓	↓ STD	7617/7618					↓	
8267			LCS	TTHOA/TTHOB						
8268			4PCH	7384	↓	↓	↓	↓		
8269			FORM	7068	36.5%	1.1ul	.5opsiG	10ppm		
8270			FORM.50	8269	10ppm	0.23psiG	45psiA	50ppb		
8271	↓	↓	↓ SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb	↓	
8272	1/17/11	1/24/11	TO15 SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb		
8273	1/24/11	1/31/11	TO15 1UG IS(A)	8265	50ppb	0.9psiG	45psiA	1ppb		
8274	↓	↓	↓ STD(A)	8266	↓	↓	↓	↓		
8275	↓	↓	↓ LCS	8267	↓	↓	↓	↓		
8276	1/26/11	1/31/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	

Page # 115

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
367	130	30	12/13/10	WAC121310A	1ug/m³ +0.25	+ 30	+ 30
407					TCE, CT, VNCL	+	+
465						+	+
231						+	+
130						+	+
496	552			WAC121310B		+	+
88						+	+
564						+	+
485						+	+
552						+	+
541	316			WAC121310C		+	+
289						+	+
410						+	+
195						+	+
316						+	+
419	138			WAC121310D		+	+
479						+	+
463						+	+
197						+	+
138						+	+
86	467			WAC121310E		+	+
417						+	+
551						+	+
107						+	+
467						+	+

Cleaned by: I.I.

Page # 118

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
358	158	30	12/13/10	WAC121310F	1 ug/m³ + 0.25	+ 30	+ 30
313	↓	↓	↓	↓	TCE, CT, VNCL	+	+
171					↓	+	+
92						+	+
158	↓			↓		+	+
159	325			WAC121310G		+	+
201	↓			↓		+	+
420						+	+
131						+	+
325	↓			↓		+	+
368	241			WAC121310H		+	+
429	↓			↓		+	+
493						+	+
428						+	+
241	↓	↓	↓	↓	↓	+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L.

Page # 119

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121310.D Vial: 5
Acq On : 13 Dec 2010 1:42 pm Operator: RJP
Sample : WAC121310E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 14:02:48 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

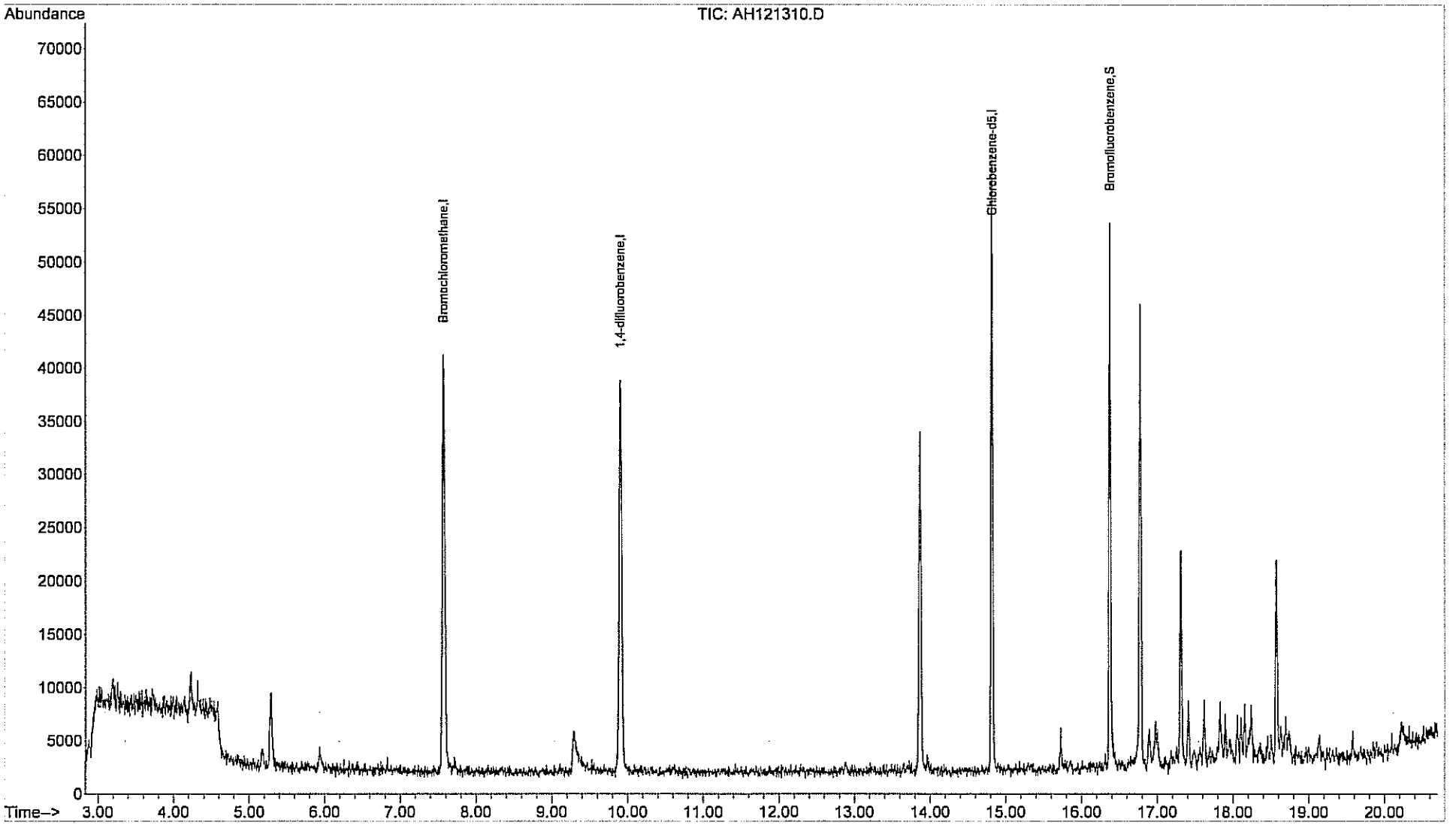
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	15125	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	40143	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	32664	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	13841	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121310.D Vial: 5
Acq On : 13 Dec 2010 1:42 pm Operator: RJP
Sample : WAC121310E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 15:34 2011 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121309.D Vial: 4
Acq On : 13 Dec 2010 1:02 pm Operator: RJP
Sample : WAC121310D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 13:23:01 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

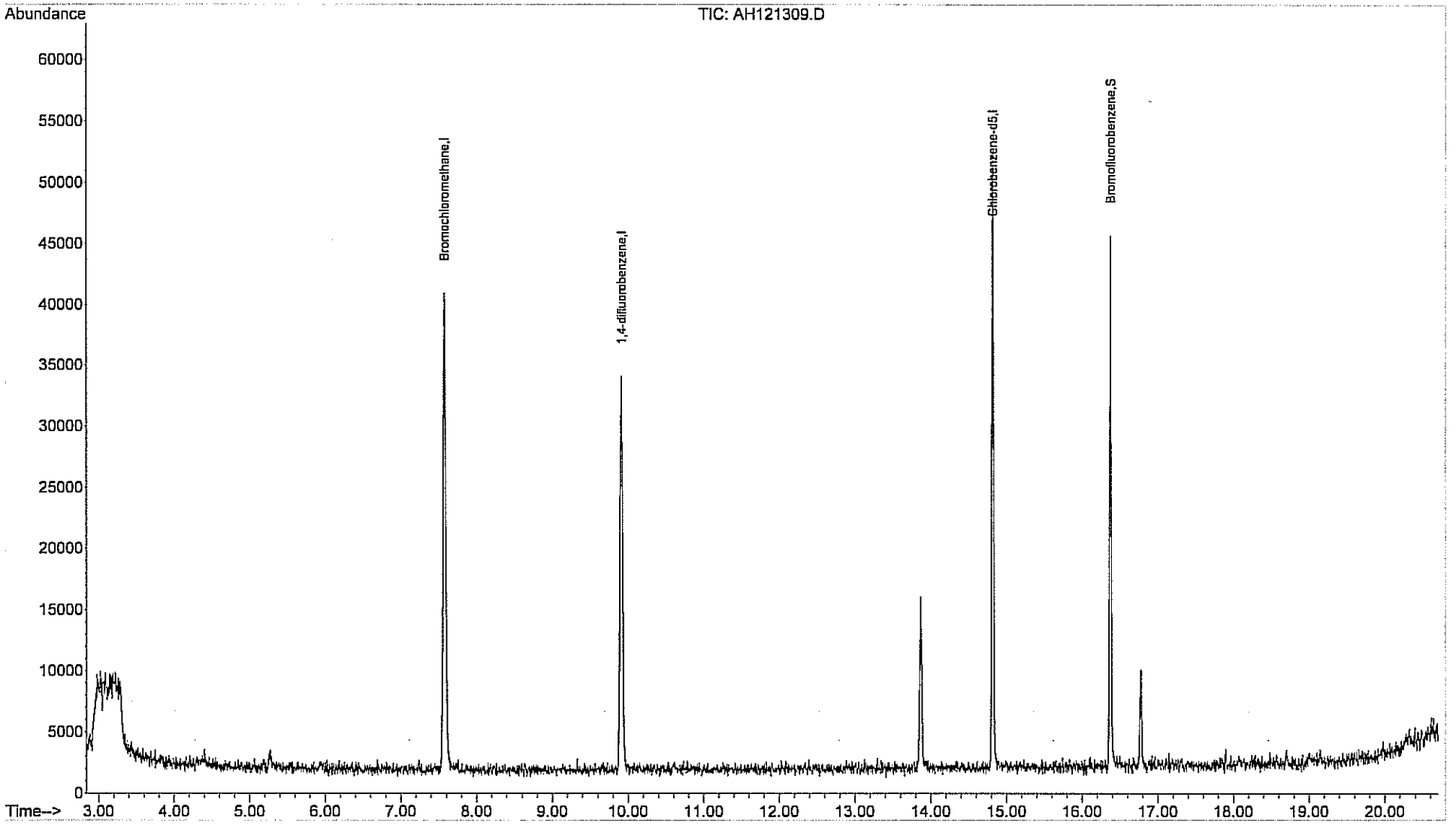
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	15345	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	35482	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	28857	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	11124	0.79	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 79.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH121309.D A206_1UG.M Fri Feb 18 17:16:53 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121309.D Vial: 4
Acq On : 13 Dec 2010 1:02 pm Operator: RJP
Sample : WAC121310D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 13:23 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121313.D Vial: 6
Acq On : 13 Dec 2010 4:10 pm Operator: RJP
Sample : WAC121310F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 16:31:43 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

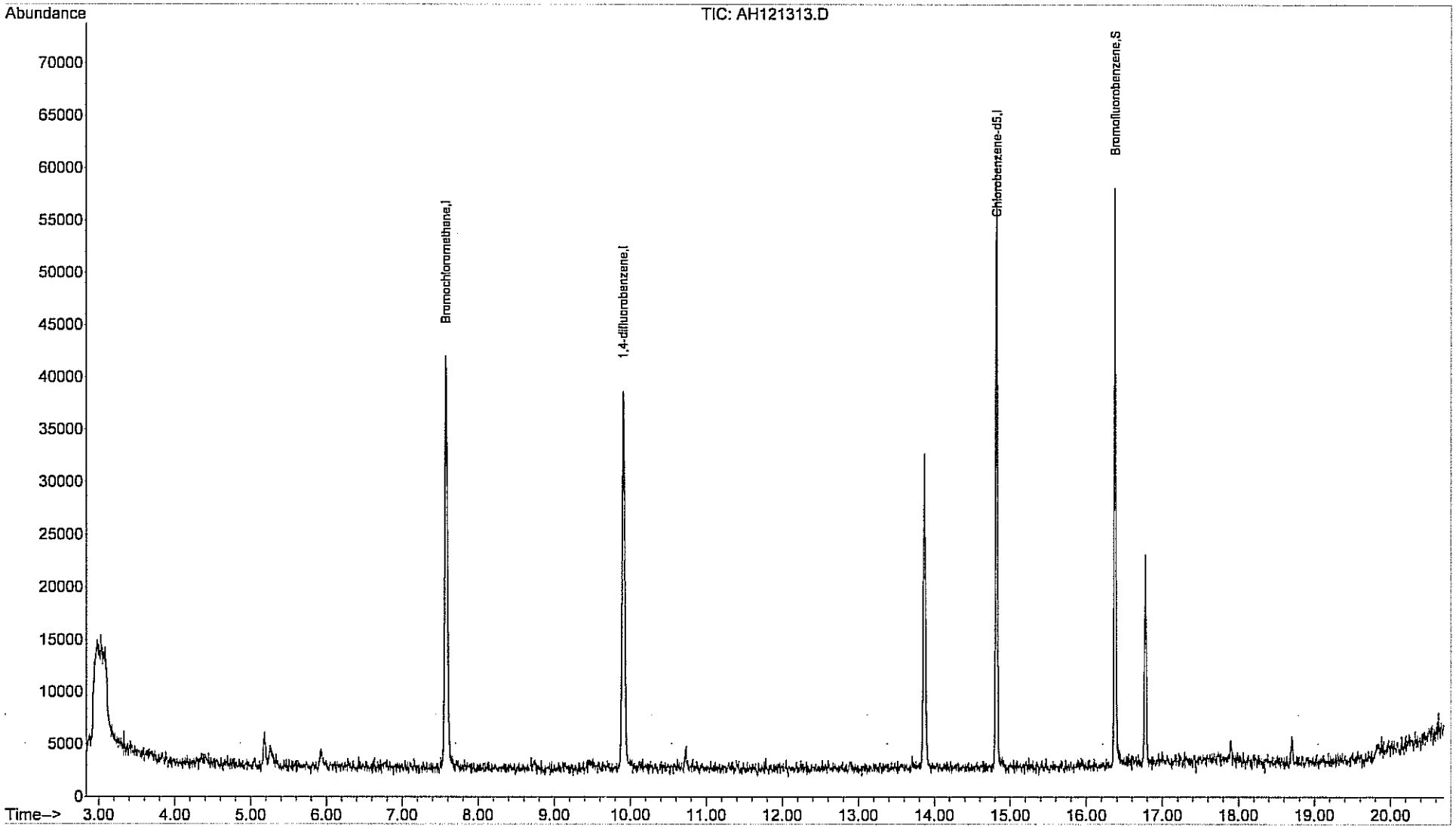
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	15574	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	39264	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	34054	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	14994	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH121313.D A206_1UG.M Fri Feb 18 17:17:03 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121313.D Vial: 6
Acq On : 13 Dec 2010 4:10 pm Operator: RJP
Sample : WAC121310F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 14 10:14 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Group Project: B785 SSVM Sampling SDG: C1103055

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		

Comments: * SEE CASE NARRATIVE *

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits		✓	
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: * SEE CASE NARRATIVE *
* NO MS/MSD *

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B785 SSVM Sampling SDG: C1103055

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	√	—	—
	Calibration(s) met criteria	√	—	—
Continuing Calibration Summary	Present and Complete	√	—	—
	Calibration(s) met criteria	—	√	—
Standards Raw Data	Present and Complete	√	—	—

Comments: * SEE CASE NARRATIVE *

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	√	—	—
Method Blank Data	MB Results <PQL	√	—	—
	Associated results flagged "B"	—	—	√
LCS sample data	Present and Complete	√	—	—
LCSD sample data	Present and Complete	√	—	—
MS/MSD sample data	Present and Complete	√	—	—

Comments:

Logbooks				
Injection Log	Present and Complete	√	—	—
Standards Log	Present and Complete	√	—	—
Can Cleaning Log	Present and Complete	√	—	—
	Raw Data Present	√	—	—
Calculation sheet	Present and Complete	√	—	—
IDL's	Present and Complete	√	—	—
Bottle Order Form	Present and Complete	√	—	—
Sample Tracking Form	Present and Complete	√	—	—

Additional Comments:

Section Supervisor: [signature] Date: 4/27/11

QC Supervisor: [signature] Date: 4/27/11

CENTEK LABORATORIES, LLC
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Thursday, March 31, 2011
Order No.: C1103055

RE: B785 SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 5 sample(s) on 3/24/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell J. Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and

all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

ASP CAT B LIKE DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking History

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. QC Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form I and (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1103055

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2174] CC did not meet criteria.
See Corrective Action: [2175] LCSD did not meet criteria.
See Corrective Action: [2186] Surrogate did not meet criteria.
See Corrective Action: [2187] IS did not meet criteria.
See Corrective Action: [2189] CC did not meet criteria.
See Corrective Action: [2183] LCS and LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 25-Mar-11
Initiated By: Leo Lucisano
Corrective Action Report ID: 2174
Department: MSVOA

Corrective Action Description

CAR Summary: CC did not meet criteria.

Description of Nonconformance: Continuing calibration did not meet criteria on 03/25/11 for hexachloro-1,3-butadiene. The compound in question was more sensitive. However, the compound in question was not detected for the associated samples. The results would have been biased high. All other QC met criteria.

Description of Corrective Action: Since the compound of interest was not detected for the associated samples and all other QC met criteria, no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Leo Lucisano
Completion Date: 26-Mar-11

Client Notification

Client Notification Required: No
Notified By:
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits than recalibrate system. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino
Close Date: 27-Mar-11

QA Officer Approval: Leo Lucisano
QA Date: 26-Mar-11

ast Updated BY LEO
Updated: 19-Apr-2011 6:01 PM
Reported 25-Apr-2011 12:16 P

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 25-Mar-11 **Corrective Action Report ID:** 2175

Initiated By: Leo Lucisano **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: BLCSD1UG-032511 did not reproduce for methyl butyl ketone, methyl isobutyl ketone & 1,4-dioxane. The compounds were less sensitive. However, all other QC did meet criteria for the compounds in question. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister and all other QC met criteria for the associated samples, no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Leo Lucisano **Completion Date:** 26-Mar-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits than recalibrate system. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino — Close Date: 27-Mar-11

QA Officer Approval: Nick Scala — QA Date: 26-Mar-11

Last Updated BY LEO Updated: 19-Apr-2011 6:06 PM Reported 25-Apr-2011 12:17 P

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 30-Mar-11
Initiated By: Leo Lucisano
Corrective Action Report ID: 2186
Department: MSVOA

Corrective Action Description

CAR Summary: Surrogate did not meet criteria.

Description of Nonconformance: Surrogate was low and did not meet criteria for sample C1103055-001DL5. This is most likely due to matrix. The sample was analyzed at the 1x concentration and met criteria.

Description of Corrective Action: The sample was analyzed at the 1x concentration with criteria being met. All sets of data submitted.

Performed By: Leo Lucisano
Completion Date: 31-Mar-11

Client Notification

Client Notification Required: No
Notified By:
Comment:

Quality Assurance Review

Nonconformance Type: Deficiency
Further Action required by QA: No further corrective action taken at this time. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino
Close Date: 01-Apr-11

QA Officer Approval: Nick Scala
QA Date: 31-Mar-11

Updated BY LEO
Updated: 25-Apr-2011 2:26 PM
Reported 25-Apr-2011 2:26 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 30-Mar-11 **Corrective Action Report ID:** 2187

Initiated By: Leo Lucisano **Department:** MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was low and did not meet criteria for samples C1103055-002DL80, 003DL16, 003DL40, 003DL320, 004DL10 & 004DL40. This is most likely due to matrix. The samples were analyzed at the 1x concentration and met criteria.

Description of Corrective Action: The samples were analyzed at the 1x concentration with criteria being met. All sets of data submitted.

Performed By: Leo Lucisano **Completion Date:** 31-Mar-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken at this time. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 01-Apr-11

QA Officer Approval: Nick Scala **QA Date:** 31-Mar-11

Last Updated BY LEO Updated: 25-Apr-2011 2:21 PM Reported 25-Apr-2011 2:21 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 30-Mar-11 **Corrective Action Report ID:** 2189

Initiated By: Leo Lucisano **Department:** MSVOA

Corrective Action Description

CAR Summary: CC did not meet criteria.

Description of Nonconformance: Continuing calibration did not meet criteria on 03/30/11 for several compounds including m&p-xylene & tetrahydrofuran. However, all other QC met criteria for the compounds in question.

Description of Corrective Action: Since the compounds of interest met criteria for all other QC required for the associated sample dilutions , no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Leo Lucisano **Completion Date:** 31-Mar-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits than recalibrate system. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 01-Apr-11

QA Officer Approval: Nick Scala **QA Date:** 31-Mar-11

Last Updated BY LEO **Updated:** 25-Apr-2011 2:46 PM **Reported** 25-Apr-2011 2:46 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 30-Mar-11 **Corrective Action Report ID:** 2183

Initiated By: Leo Lucisano **Department:** MSVOA

Corrective Action Description

CAR Summary: LCS and LCSD did not meet criteria.

Description of Nonconformance: BLCS1UG-033011 did not meet criteria for hexachloro-1,3-butadiene. The compound was more sensitive. BLCSD1UG-033011 did not meet criteria for several %recoveries and RPD's. However, hexachloro-1,3-butadiene and all other compounds in question were not needed for the associated sample dilutions.The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the compounds in question were not needed for the associated sample dilutions, no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Leo Lucisano **Completion Date:** 31-Mar-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits than recalibrate system. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 01-Apr-11

QA Officer Approval: Nick Scala QA Date: 31-Mar-11

Last Updated BY LEO Updated: 21-Apr-2011 12:06 PM Reported 25-Apr-2011 2:48 PM

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: K. Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
785VMP0202AD	785VMP-02	3/18	1435	GS	AC	0/0	N	-	Unf.	1	1	1	Canister#368, Regulator#186 PID =0 ppb
785VMP0401AA	785VMP-04	3/18	1442	GS	AC	0/0	N	-	Unf.	1	1	1	Canister#349, Regulator#145, PID =123ppb
785CA0100AB	785 Carbon Influent	3/22	1430	GS	AC	0/0	N	-	Unf.	1	1	1	Canister#163, PID= 933ppb
785CA0200AA	785 Carbon Effluent	3/22	1435	GS	AC	0/0	N	-	Unf.	1	1	1	Canister#171, PID= 0ppb
Trip Blank	Trip Blank	3/22	1450	GS	AC	0/0	TB	-	Unf.	1	1	1	Canister#203

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1030055

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 3/23/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1200	Company Name: CentekLabs	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 3/16/11	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1200	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Canister

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group
Project:	B785 SSVM Sampling
Lab Order:	C1103055

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1103055-001A	785VMP0202AD	368,186	3/18/2011	3/24/2011
C1103055-002A	785VMP0401AA	349,145	3/18/2011	3/24/2011
C1103055-003A	785CA0100AB	163,	3/22/2011	3/24/2011
C1103055-004A	785CA0200AA	171	3/22/2011	3/24/2011
C1103055-005A	Trip Blank	203	3/22/2011	3/24/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name FPM-ROME

Date and Time Receive 3/24/2011

Work Order Numbe C1103055

Received by JDS

Checklist completed by _____ 3/23/11
Signature Date

Reviewed by _____ 3/23/11
Initials Date

Matrix:

Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: Regarding:

Comments: _____

Corrective Action _____

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1103055-001A	Login	3/24/2011 12:11:22 PM	jans	Sample Log In
C1103055-005A	Login	3/24/2011 12:14:06 PM	jans	Sample Log In
C1103055-004A	Login	3/24/2011 12:14:06 PM	jans	Sample Log In
C1103055-003A	Login	3/24/2011 12:14:06 PM	jans	Sample Log In
C1103055-002A	Login	3/24/2011 12:14:06 PM	jans	Sample Log In
C1103055-001A	Transfer	3/25/2011 3:49:15 PM	ADM	GC/MS Lab
C1103055-002A	Transfer	3/25/2011 3:49:15 PM	ADM	GC/MS Lab
C1103055-003A	Transfer	3/25/2011 3:49:15 PM	ADM	GC/MS Lab
C1103055-004A	Transfer	3/25/2011 3:49:15 PM	ADM	GC/MS Lab
C1103055-005A	Transfer	3/25/2011 3:49:15 PM	ADM	GC/MS Lab
C1103055-001A	Mark as Consumed	3/31/2011 4:53:01 PM	ADM	Consumed
C1103055-005A	Mark as Consumed	3/31/2011 4:53:01 PM	ADM	Consumed
C1103055-004A	Mark as Consumed	3/31/2011 4:53:01 PM	ADM	Consumed
C1103055-003A	Mark as Consumed	3/31/2011 4:53:01 PM	ADM	Consumed
C1103055-002A	Mark as Consumed	3/31/2011 4:53:01 PM	ADM	Consumed

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2247

25-Apr-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 3/15/2011
VIA: FedEx
Due Date: 3/17/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	6

Can / Reg ID	Description
95	1L Mini-Can - 1087
145	Time-Set Reg - 640
155	Time-Set Reg - 650
163	1L Mini-Can - 1133
171	1L Mini-Can - 1142
186	Time-Set Reg - 657
203	1L Mini-Can - 1158
349	1L Mini-Can - 1271
368	1L Mini-Can - 1317
795	Shipping Cooler S
804	Shipping Cooler S

Comments: 3 (L) + trip blank with QGWAC 030911 B-C + 2 (1L)022811

1 of 1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.13	0.15	J	ppbV	1	3/26/2011 2:23:00 AM
Acetone	4.2	1.5		ppbV	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzene	0.90	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.26	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroform	0.31	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloromethane	0.69	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Cyclohexane	0.36	0.15		ppbV	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
Ethylbenzene	0.33	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 11	0.18	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 12	0.55	0.15		ppbV	1	3/26/2011 2:23:00 AM
Heptane	0.50	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexane	1.9	0.15		ppbV	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
m&p-Xylene	1.1	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Methylene chloride	0.39	0.15		ppbV	1	3/26/2011 2:23:00 AM
o-Xylene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	2.8	0.75		ppbV	5	3/30/2011 4:28:00 PM
Toluene	3.8	0.75		ppbV	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Trichloroethene	4.2	0.75		ppbV	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Surr: Bromofluorobenzene	81.0	70-130		%REC	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	1.5	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	3/26/2011 2:23:00 AM
Acetone	10	3.6		ug/m3	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:23:00 AM
Benzene	2.9	0.49		ug/m3	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.82	0.47		ug/m3	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:23:00 AM
Chloroform	1.5	0.74		ug/m3	1	3/26/2011 2:23:00 AM
Chloromethane	1.4	0.31		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
Ethylbenzene	1.5	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Freon 11	1.0	0.86		ug/m3	1	3/26/2011 2:23:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.8	0.75		ug/m3	1	3/26/2011 2:23:00 AM
Heptane	2.1	0.62		ug/m3	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Hexane	6.9	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:23:00 AM
m&p-Xylene	4.7	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:23:00 AM
Methylene chloride	1.4	0.53		ug/m3	1	3/26/2011 2:23:00 AM
o-Xylene	1.3	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:23:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	8.2	2.2		ug/m3	5	3/30/2011 4:28:00 PM
Toluene	15	2.9		ug/m3	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Trichloroethene	23	4.1		ug/m3	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.31	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Acetone	6.2	3.0		ppbV	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Benzene	1.5	1.5		ppbV	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromodichloromethane	0.38	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon disulfide	1.5	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroform	18	1.5		ppbV	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	0.58	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Cyclohexane	1.8	0.15		ppbV	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.24	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 11	0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 113	0.14	0.15	J	ppbV	1	3/26/2011 2:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 12	0.57	0.15		ppbV	1	3/26/2011 2:56:00 AM
Heptane	0.86	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexane	2.3	1.5		ppbV	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
m&p-Xylene	0.61	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	0.77	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Methylene chloride	0.27	0.15		ppbV	1	3/26/2011 2:56:00 AM
o-Xylene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Toluene	6.8	1.5		ppbV	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Trichloroethene	130	12		ppbV	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	1.7	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Acetone	15	7.2		ug/m3	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:56:00 AM
Benzene	4.9	4.9		ug/m3	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:56:00 AM
Bromodichloromethane	2.6	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:56:00 AM
Carbon disulfide	4.8	0.47		ug/m3	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:56:00 AM
Chloroform	91	7.4		ug/m3	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	2.3	0.60		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Cyclohexane	6.2	0.52		ug/m3	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Freon 11	0.86	0.86		ug/m3	1	3/26/2011 2:56:00 AM
Freon 113	1.1	1.2	J	ug/m3	1	3/26/2011 2:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.9	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Heptane	3.6	0.62		ug/m3	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Hexane	8.2	5.4		ug/m3	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:56:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:56:00 AM
Methylene chloride	0.95	0.53		ug/m3	1	3/26/2011 2:56:00 AM
o-Xylene	0.84	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 2:56:00 AM
Toluene	26	5.7		ug/m3	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Trichloroethene	720	66		ug/m3	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.81	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Acetone	78	12		ppbV	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzene	0.35	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.12	0.15	J	ppbV	1	3/26/2011 3:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroform	5.6	2.4		ppbV	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	1.4	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 11	0.16	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 113	0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 12	0.48	0.15		ppbV	1	3/26/2011 3:30:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
m&p-Xylene	2.4	4.8	J	ppbV	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	6.2	4.8		ppbV	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Methylene chloride	0.31	0.15		ppbV	1	3/26/2011 3:30:00 AM
o-Xylene	1.1	0.15		ppbV	1	3/26/2011 3:30:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	1.3	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	200	48		ppbV	320	3/30/2011 9:25:00 PM
Toluene	0.45	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Trichloroethene	400	48		ppbV	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.60	0.75	J	ug/m3	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Acetone	190	29		ug/m3	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 3:30:00 AM
Benzene	1.1	0.49		ug/m3	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.82	1.0	J	ug/m3	1	3/26/2011 3:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 3:30:00 AM
Chloroform	28	12		ug/m3	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
Ethylbenzene	6.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Freon 11	0.91	0.86		ug/m3	1	3/26/2011 3:30:00 AM
Freon 113	1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.4	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 3:30:00 AM
m&p-Xylene	11	21	J	ug/m3	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	19	14		ug/m3	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 3:30:00 AM
Methylene chloride	1.1	0.53		ug/m3	1	3/26/2011 3:30:00 AM
o-Xylene	5.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 3:30:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	9.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	610	140		ug/m3	320	3/30/2011 9:25:00 PM
Toluene	1.7	0.57		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Trichloroethene	2200	260		ug/m3	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Acetone	20	3.0		ppbV	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloromethane	1.2	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.12	0.15	J	ppbV	1	3/26/2011 4:04:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 12	0.75	0.15		ppbV	1	3/26/2011 4:04:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
m&p-Xylene	0.52	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	3.6	3.0		ppbV	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Methylene chloride	0.14	0.15	J	ppbV	1	3/26/2011 4:04:00 AM
o-Xylene	0.18	0.15		ppbV	1	3/26/2011 4:04:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	27	6.0		ppbV	40	3/30/2011 10:29:00 PM
Toluene	0.58	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Trichloroethene	0.20	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Acetone	48	7.2		ug/m3	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 4:04:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 4:04:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 4:04:00 AM
Chloromethane	2.5	0.31		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
Ethylbenzene	0.53	0.66	J	ug/m3	1	3/26/2011 4:04:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 4:04:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
Freon 12	3.8	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 4:04:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	11	9.0		ug/m3	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 4:04:00 AM
Methylene chloride	0.49	0.53	J	ug/m3	1	3/26/2011 4:04:00 AM
o-Xylene	0.79	0.66		ug/m3	1	3/26/2011 4:04:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 4:04:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	82	18		ug/m3	40	3/30/2011 10:29:00 PM
Toluene	2.2	0.57		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Trichloroethene	1.1	0.82		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 4:04:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Acetone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 12	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Toluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Surr: Bromofluorobenzene	70.0	70-130		%REC	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Acetone	< 0.72	0.72		ug/m3	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 1:49:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 1:49:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 1:49:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
Freon 12	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 1:49:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 1:49:00 AM
Toluene	< 0.57	0.57		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

CENTEK LABORATORIES, LLC

Date: 25-Apr-11

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
BLCS1UG-032511	80.0							
BLCS1UG-033011	75.0							
BLCSD1UG-032511	86.0							
BLCSD1UG-033011	73.0							
BMB1UG-032511	73.0							
BMB1UG-033011	71.0							
C1103055-001A	81.0							
C1103055-002A	86.0							
C1103055-003A	91.0							
C1103055-004A	87.0							
C1103055-005A	70.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\MSDCHEM\1\DATA\BG032503.D
Tune Time : 25 Mar 2011 2:46 pm

Daily Calibration File : C:\MSDCHEM\1\DATA\BG032503.D

		(BFB)	(IS1)	(IS2)	(IS3)
			15803	56527	44855
File	Sample	Surrogate Recovery %	Internal Standard Responses		
BG032504.D	BLCS1UG-032511	80	14661	53798	43283
BG032505.D	BMB1UG-032511	73	15767	52667	43667
BG032521.D	C1103055-005A	70	15178	50614	48364
BG032522.D	C1103055-001A	81	15436	56562	52087
BG032523.D	C1103055-002A	86	17237	66011	56853
BG032524.D	C1103055-003A	91	18769	70024	53870
BG032525.D	C1103055-004A	87	17086	62069	53164
BG032526.D	BLCSD1UG-032511	86	17238	52641	48913

t - fails 24hr time check * - fails criteria

Created: Mon Apr 25 11:51:57 2011 MSD #2/

Tune Check Report

Tune File : C:\MSDCHEM\1\DATA\BG033003.D
Tune Time : 30 Mar 2011 12:13 pm

Daily Calibration File : C:\MSDCHEM\1\DATA\BG033003.D

	(BFB)			(IS1)	(IS2)	(IS3)
				23589	85556	75269
File	Sample	Surrogate Recovery %		Internal Standard Responses		
BG033004.D	BLCS1UG-033011	75		23298	75113	62445
BG033005.D	BMB1UG-033011	71		21638	55834	57120
BG033010.D	C1103055-001A	69*	DL5X	22896	71585	55068
BG033011.D	C1103055-002A	81	DL10X	23704	78027	57180
BG033013.D	C1103055-002A	71	DL80X	20028	50415*	46707
BG033015.D	C1103055-003A	72	DL16X	21043	55900	43889*
BG033016.D	C1103055-003A	71	DL40X	19186	48468*	44036*
BG033017.D	C1103055-003A	70	DL320X	19840	46663*	40250*
BG033018.D	C1103055-004A	80	DL10X	20163	62761	44689*
BG033019.D	C1103055-004A	70	DL40X	18792	48797*	46245
BG033030.D	BLCSD1UG-033011	73		21293	49442*	53098

t - fails 24hr time check * - fails criteria

Created: Mon Apr 25 12:03:09 2011 MSD #2/

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **BMB1UG-033011** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4391**
Client ID: **ZZZZZ** Batch ID: **R4391** TestNo: **TO-15** Analysis Date: **3/30/2011** SeqNo: **52825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BMB1UG-033011	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4391
Client ID:	ZZZZZ	Batch ID:	R4391	TestNo:	TO-15			Analysis Date:	3/30/2011	SeqNo:	52825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BMB1UG-033011	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/30/2011	SeqNo: 52825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID BMB1UG-032511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BMB1UG-032511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BMB1UG-032511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **BLCS1UG-033011** SampType: LCS TestCode: **1ugM3_TO15** Units: ppbV Prep Date: RunNo: **4391**
Client ID: ZZZZZ Batch ID: R4391 TestNo: TO-15 Analysis Date: **3/30/2011** SeqNo: **52826**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8500	0.15	1	0	85.0	70	130				
1,1,2,2-Tetrachloroethane	0.9600	0.15	1	0	96.0	70	130				
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,1-Dichloroethane	0.7500	0.15	1	0	75.0	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,2,4-Trimethylbenzene	0.7000	0.15	1	0	70.0	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,2-Dichloroethane	0.7300	0.15	1	0	73.0	70	130				
1,2-Dichloropropane	0.7300	0.15	1	0	73.0	70	130				
1,3,5-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,3-butadiene	0.7200	0.15	1	0	72.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	0.7700	0.30	1	0	77.0	70	130				
2,2,4-trimethylpentane	0.7100	0.15	1	0	71.0	70	130				
4-ethyltoluene	0.7900	0.15	1	0	79.0	70	130				
Acetone	0.7100	0.30	1	0	71.0	70	130				
Allyl chloride	0.7200	0.15	1	0	72.0	70	130				
Benzene	0.8700	0.15	1	0	87.0	70	130				
Benzyl chloride	0.7300	0.15	1	0	73.0	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	1.170	0.15	1	0	117	70	130				
Bromomethane	0.9800	0.15	1	0	98.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCS1UG-033011	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4391
Client ID:	ZZZZZ	Batch ID:	R4391	TestNo:	TO-15			Analysis Date:	3/30/2011	SeqNo:	52826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130				
Carbon tetrachloride	0.8700	0.15	1	0	87.0	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8800	0.15	1	0	88.0	70	130				
Chloroform	0.8700	0.15	1	0	87.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	0.7100	0.15	1	0	71.0	70	130				
Cyclohexane	0.7000	0.15	1	0	70.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.7300	0.25	1	0	73.0	70	130				
Ethylbenzene	0.7400	0.15	1	0	74.0	70	130				
Freon 11	0.8500	0.15	1	0	85.0	70	130				
Freon 113	0.9000	0.15	1	0	90.0	70	130				
Freon 114	1.030	0.15	1	0	103	70	130				
Freon 12	1.020	0.15	1	0	102	70	130				
Heptane	0.7000	0.15	1	0	70.0	70	130				
Hexachloro-1,3-butadiene	1.400	0.15	1	0	140	70	130				S
Hexane	0.7000	0.15	1	0	70.0	70	130				
Isopropyl alcohol	0.7100	0.15	1	0	71.0	70	130				
m&p-Xylene	1.520	0.30	2	0	76.0	70	130				
Methyl Butyl Ketone	0.7000	0.30	1	0	70.0	70	130				
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				
Methyl tert-butyl ether	0.7500	0.15	1	0	75.0	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	0.7600	0.15	1	0	76.0	70	130				
Styrene	0.7300	0.15	1	0	73.0	70	130				
Tetrachloroethylene	1.060	0.15	1	0	106	70	130				
Tetrahydrofuran	0.7200	0.15	1	0	72.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCS1UG-033011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/30/2011	SeqNo: 52826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.7900	0.15	1	0	79.0	70	130				
trans-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.9300	0.15	1	0	93.0	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	0.8400	0.15	1	0	84.0	70	130				
Vinyl chloride	0.8300	0.15	1	0	83.0	70	130				

Sample ID BLCS1UG-032511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8800	0.15	1	0	88.0	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
1,2,4-Trichlorobenzene	0.7800	0.15	1	0	78.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.100	0.15	1	0	110	70	130				
1,2-Dichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloropropane	0.8000	0.15	1	0	80.0	70	130				
1,3,5-Trimethylbenzene	0.9300	0.15	1	0	93.0	70	130				
1,3-butadiene	0.8300	0.15	1	0	83.0	70	130				
1,3-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.7100	0.30	1	0	71.0	70	130				
2,2,4-trimethylpentane	0.7400	0.15	1	0	74.0	70	130				
4-ethyltoluene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCS1UG-032511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9400	0.30	1	0	94.0	70	130				
Allyl chloride	0.7600	0.15	1	0	76.0	70	130				
Benzene	0.9100	0.15	1	0	91.0	70	130				
Benzyl chloride	0.8000	0.15	1	0	80.0	70	130				
Bromodichloromethane	0.9300	0.15	1	0	93.0	70	130				
Bromoform	1.160	0.15	1	0	116	70	130				
Bromomethane	1.130	0.15	1	0	113	70	130				
Carbon disulfide	1.030	0.15	1	0	103	70	130				
Carbon tetrachloride	0.9000	0.15	1	0	90.0	70	130				
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130				
Chloroethane	1.100	0.15	1	0	110	70	130				
Chloroform	1.020	0.15	1	0	102	70	130				
Chloromethane	1.080	0.15	1	0	108	70	130				
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
cis-1,3-Dichloropropene	0.7100	0.15	1	0	71.0	70	130				
Cyclohexane	0.7400	0.15	1	0	74.0	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.8200	0.25	1	0	82.0	70	130				
Ethylbenzene	0.7900	0.15	1	0	79.0	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	1.050	0.15	1	0	105	70	130				
Freon 114	1.250	0.15	1	0	125	70	130				
Freon 12	1.300	0.15	1	0	130	70	130				
Heptane	0.7300	0.15	1	0	73.0	70	130				
Hexachloro-1,3-butadiene	1.300	0.15	1	0	130	70	130				
Hexane	0.8000	0.15	1	0	80.0	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.780	0.30	2	0	89.0	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCS1UG-032511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8000	0.15	1	0	80.0	70	130				
Methylene chloride	1.010	0.15	1	0	101	70	130				
o-Xylene	0.9100	0.15	1	0	91.0	70	130				
Propylene	1.060	0.15	1	0	106	70	130				
Styrene	0.8900	0.15	1	0	89.0	70	130				
Tetrachloroethylene	1.090	0.15	1	0	109	70	130				
Tetrahydrofuran	0.7400	0.15	1	0	74.0	70	130				
Toluene	0.8000	0.15	1	0	80.0	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.8800	0.15	1	0	88.0	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.000	0.15	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-033011 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4391
Client ID: ZZZZZ Batch ID: R4391 TestNo: TO-15 Analysis Date: 3/31/2011 SeqNo: 52827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.100	0.15	1	0	110	70	130	0.85	25.6	30	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	0.96	8.96	30	
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130	0.84	38.5	30	R
1,1-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.75	2.63	30	
1,1-Dichloroethene	0.7200	0.15	1	0	72.0	70	130	0.79	9.27	30	
1,2,4-Trichlorobenzene	0.9600	0.15	1	0	96.0	70	130	0.8	18.2	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.7	4.20	30	
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	0.88	11.8	30	
1,2-Dichlorobenzene	1.160	0.15	1	0	116	70	130	1.04	10.9	30	
1,2-Dichloroethane	0.6400	0.15	1	0	64.0	70	130	0.73	13.1	30	S
1,2-Dichloropropane	0.9100	0.15	1	0	91.0	70	130	0.73	22.0	30	
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130	0.82	9.30	30	
1,3-butadiene	0.5800	0.15	1	0	58.0	70	130	0.72	21.5	30	S
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.01	4.83	30	
1,4-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1	11.3	30	
1,4-Dioxane	0.7000	0.30	1	0	70.0	70	130	0.77	9.52	30	
2,2,4-trimethylpentane	0.7600	0.15	1	0	76.0	70	130	0.71	6.80	30	
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.79	1.26	30	
Acetone	1.050	0.30	1	0	105	70	130	0.71	38.6	30	R
Allyl chloride	0.5300	0.15	1	0	53.0	70	130	0.72	30.4	30	SR
Benzene	1.050	0.15	1	0	105	70	130	0.87	18.8	30	
Benzyl chloride	0.9000	0.15	1	0	90.0	70	130	0.73	20.9	30	
Bromodichloromethane	1.170	0.15	1	0	117	70	130	0.88	28.3	30	
Bromoform	1.320	0.15	1	0	132	70	130	1.17	12.0	30	S
Bromomethane	0.9400	0.15	1	0	94.0	70	130	0.98	4.17	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-033011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/31/2011	SeqNo: 52827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8000	0.15	1	0	80.0	70	130	0.83	3.68	30	
Carbon tetrachloride	1.160	0.15	1	0	116	70	130	0.87	28.6	30	
Chlorobenzene	1.010	0.15	1	0	101	70	130	0.9	11.5	30	
Chloroethane	0.8500	0.15	1	0	85.0	70	130	0.88	3.47	30	
Chloroform	0.7900	0.15	1	0	79.0	70	130	0.87	9.64	30	
Chloromethane	0.8300	0.15	1	0	83.0	70	130	0.82	1.21	30	
cis-1,2-Dichloroethene	0.7000	0.15	1	0	70.0	70	130	0.72	2.82	30	
cis-1,3-Dichloropropene	0.8200	0.15	1	0	82.0	70	130	0.71	14.4	30	
Cyclohexane	0.7900	0.15	1	0	79.0	70	130	0.7	12.1	30	
Dibromochloromethane	1.100	0.15	1	0	110	70	130	1	9.52	30	
Ethyl acetate	0.4900	0.25	1	0	49.0	70	130	0.73	39.3	30	SR
Ethylbenzene	0.7200	0.15	1	0	72.0	70	130	0.74	2.74	30	
Freon 11	0.8200	0.15	1	0	82.0	70	130	0.85	3.59	30	
Freon 113	0.8500	0.15	1	0	85.0	70	130	0.9	5.71	30	
Freon 114	0.9400	0.15	1	0	94.0	70	130	1.03	9.14	30	
Freon 12	1.030	0.15	1	0	103	70	130	1.02	0.976	30	
Heptane	0.7000	0.15	1	0	70.0	70	130	0.7	0	30	
Hexachloro-1,3-butadiene	1.490	0.15	1	0	149	70	130	1.4	6.23	30	S
Hexane	0.6200	0.15	1	0	62.0	70	130	0.7	12.1	30	S
Isopropyl alcohol	0.7200	0.15	1	0	72.0	70	130	0.71	1.40	30	
m&p-Xylene	1.630	0.30	2	0	81.5	70	130	1.52	6.98	30	
Methyl Butyl Ketone	0.4300	0.30	1	0	43.0	70	130	0.7	47.8	30	SR
Methyl Ethyl Ketone	0.3000	0.30	1	0	30.0	70	130	0.75	85.7	30	SR
Methyl Isobutyl Ketone	0.6300	0.30	1	0	63.0	70	130	0.7	10.5	30	S
Methyl tert-butyl ether	0.5100	0.15	1	0	51.0	70	130	0.75	38.1	30	SR
Methylene chloride	0.8700	0.15	1	0	87.0	70	130	0.86	1.16	30	
o-Xylene	0.9000	0.15	1	0	90.0	70	130	0.84	6.90	30	
Propylene	0.7000	0.15	1	0	70.0	70	130	0.76	8.22	30	
Styrene	0.7700	0.15	1	0	77.0	70	130	0.73	5.33	30	
Tetrachloroethylene	1.140	0.15	1	0	114	70	130	1.06	7.27	30	
Tetrahydrofuran	0.5500	0.15	1	0	55.0	70	130	0.72	26.8	30	S

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-033011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/31/2011	SeqNo: 52827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8400	0.15	1	0	84.0	70	130	0.79	6.13	30	
trans-1,2-Dichloroethene	0.7300	0.15	1	0	73.0	70	130	0.75	2.70	30	
trans-1,3-Dichloropropene	0.8000	0.15	1	0	80.0	70	130	0.73	9.15	30	
Trichloroethene	1.270	0.15	1	0	127	70	130	0.93	30.9	30	R
Vinyl acetate	0.5100	0.15	1	0	51.0	70	130	0.75	38.1	30	SR
Vinyl Bromide	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
Vinyl chloride	0.7500	0.15	1	0	75.0	70	130	0.83	10.1	30	

Sample ID BLCSD1UG-032511	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/26/2011	SeqNo: 52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9400	0.15	1	0	94.0	70	130	0.88	6.59	30	
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	30	
1,1,2-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.83	15.6	30	
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.91	11.6	30	
1,1-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.95	2.13	30	
1,2,4-Trichlorobenzene	0.7100	0.15	1	0	71.0	70	130	0.78	9.40	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.78	6.62	30	
1,2-Dibromoethane	1.000	0.15	1	0	100	70	130	0.88	12.8	30	
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130	1.1	28.0	30	
1,2-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.9	10.5	30	
1,2-Dichloropropane	0.8600	0.15	1	0	86.0	70	130	0.8	7.23	30	
1,3,5-Trimethylbenzene	0.8000	0.15	1	0	80.0	70	130	0.93	15.0	30	
1,3-butadiene	0.7100	0.15	1	0	71.0	70	130	0.83	15.6	30	
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	0.99	10.6	30	
1,4-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130	1.01	14.9	30	
1,4-Dioxane	0.4600	0.30	1	0	46.0	70	130	0.71	42.7	30	SR
2,2,4-trimethylpentane	0.7400	0.15	1	0	74.0	70	130	0.74	0	30	
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.85	6.06	30	

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCSD1UG-032511	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/26/2011	SeqNo:	52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.230	0.30	1	0	123	70	130	0.94	26.7	30	
Allyl chloride	0.7100	0.15	1	0	71.0	70	130	0.76	6.80	30	
Benzene	0.9300	0.15	1	0	93.0	70	130	0.91	2.17	30	
Benzyl chloride	0.7100	0.15	1	0	71.0	70	130	0.8	11.9	30	
Bromodichloromethane	0.9700	0.15	1	0	97.0	70	130	0.93	4.21	30	
Bromoform	1.160	0.15	1	0	116	70	130	1.16	0	30	
Bromomethane	1.040	0.15	1	0	104	70	130	1.13	8.29	30	
Carbon disulfide	0.8500	0.15	1	0	85.0	70	130	1.03	19.1	30	
Carbon tetrachloride	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130	0.93	3.17	30	
Chloroethane	0.8700	0.15	1	0	87.0	70	130	1.1	23.4	30	
Chloroform	0.8900	0.15	1	0	89.0	70	130	1.02	13.6	30	
Chloromethane	0.9400	0.15	1	0	94.0	70	130	1.08	13.9	30	
cis-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
cis-1,3-Dichloropropene	0.7900	0.15	1	0	79.0	70	130	0.71	10.7	30	
Cyclohexane	0.8200	0.15	1	0	82.0	70	130	0.74	10.3	30	
Dibromochloromethane	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
Ethyl acetate	0.7200	0.25	1	0	72.0	70	130	0.82	13.0	30	
Ethylbenzene	0.7700	0.15	1	0	77.0	70	130	0.79	2.56	30	
Freon 11	0.9600	0.15	1	0	96.0	70	130	1.06	9.90	30	
Freon 113	0.9600	0.15	1	0	96.0	70	130	1.05	8.96	30	
Freon 114	1.110	0.15	1	0	111	70	130	1.25	11.9	30	
Freon 12	1.140	0.15	1	0	114	70	130	1.3	13.1	30	
Heptane	0.7600	0.15	1	0	76.0	70	130	0.73	4.03	30	
Hexachloro-1,3-butadiene	0.9500	0.15	1	0	95.0	70	130	1.3	31.1	30	R
Hexane	0.7600	0.15	1	0	76.0	70	130	0.8	5.13	30	
Isopropyl alcohol	0.7600	0.15	1	0	76.0	70	130	0.81	6.37	30	
m&p-Xylene	1.670	0.30	2	0	83.5	70	130	1.78	6.38	30	
Methyl Butyl Ketone	0.3100	0.30	1	0	31.0	70	130	0.71	78.4	30	SR
Methyl Ethyl Ketone	1.050	0.30	1	0	105	70	130	0.74	34.6	30	R
Methyl Isobutyl Ketone	0.4700	0.30	1	0	47.0	70	130	0.72	42.0	30	SR

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-032511	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/26/2011	SeqNo: 52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8100	0.15	1	0	81.0	70	130	0.8	1.24	30	
Methylene chloride	0.8900	0.15	1	0	89.0	70	130	1.01	12.6	30	
o-Xylene	0.8800	0.15	1	0	88.0	70	130	0.91	3.35	30	
Propylene	0.8500	0.15	1	0	85.0	70	130	1.06	22.0	30	
Styrene	0.7500	0.15	1	0	75.0	70	130	0.89	17.1	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	1.09	3.74	30	
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130	0.74	9.03	30	
Toluene	0.8500	0.15	1	0	85.0	70	130	0.8	6.06	30	
trans-1,2-Dichloroethene	0.8300	0.15	1	0	83.0	70	130	0.89	6.98	30	
trans-1,3-Dichloropropene	0.7900	0.15	1	0	79.0	70	130	0.73	7.89	30	
Trichloroethene	0.9600	0.15	1	0	96.0	70	130	0.88	8.70	30	
Vinyl acetate	0.7400	0.15	1	0	74.0	70	130	0.75	1.34	30	
Vinyl Bromide	0.9400	0.15	1	0	94.0	70	130	1.01	7.18	30	
Vinyl chloride	0.8900	0.15	1	0	89.0	70	130	1	11.6	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek Laboratories, LLC
IDL Study
RL=Reporting Limit

1ug/m3 Detection Limit
September 2009

Method TO-15
Units=ppb

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL	RL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060	0.15
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025	0.15
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034	0.15
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034	0.15
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035	0.15
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048	0.15
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035	0.15
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034	0.15
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031	0.15
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026	0.15
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047	0.30
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035	0.15
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065	0.15
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034	0.15
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050	0.15
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075	0.15
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025	0.15
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025	0.15
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031	0.15
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068	0.15
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104	0.15
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048	0.30
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022	0.15
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054	0.15
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066	0.30
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022	0.15
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095	0.30
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024	0.15
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042	0.15
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090	0.15
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034	0.15
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026	0.15
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050	0.30
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038	0.15

Centek laboratories, LLC

Centek Laboratories, LLC
IDL Study
RL=Reporting Limit

1ug/m3 Detection Limit
September 2009

Method TO-15
Units=ppb

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL	RL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092	0.15
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015	0.15
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038	0.15
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031	0.15
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035	0.15
trans-1,3-dichloropropen	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042	0.15
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034	0.15
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034	0.15
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102	0.30
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044	0.15
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054	0.30
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050	0.15
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042	0.15
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031	0.15
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031	0.15
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059	0.15
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022	0.15
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034	0.15
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079	0.15
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069	0.15
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022	0.15
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030	0.15
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025	0.15
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025	0.15
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034	0.15
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035	0.15
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024	0.15
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034	0.15
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038	0.15
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024	0.15
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025	0.15

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL	Detl mt
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017	0.04
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017	0.04
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026	0.04
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038	0.04
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024	0.04
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030	0.04
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022	0.04
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030	0.04
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022	0.04
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025	0.04
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017	0.04
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031	0.04
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024	0.04
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047	0.04

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\%D = \frac{(RRFc - \text{mean } RRFi) * 100}{\text{mean } RRFi}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.13	0.15	J	ppbV	1	3/26/2011 2:23:00 AM
Acetone	4.2	1.5		ppbV	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzene	0.90	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.26	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroform	0.31	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloromethane	0.69	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Cyclohexane	0.36	0.15		ppbV	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.33	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 11	0.18	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 12	0.55	0.15		ppbV	1	3/26/2011 2:23:00 AM
Heptane	0.50	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexane	1.9	0.15		ppbV	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
m&p-Xylene	1.1	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Methylene chloride	0.39	0.15		ppbV	1	3/26/2011 2:23:00 AM
o-Xylene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	2.8	0.75		ppbV	5	3/30/2011 4:28:00 PM
Toluene	3.8	0.75		ppbV	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Trichloroethene	4.2	0.75		ppbV	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Surr: Bromofluorobenzene	81.0	70-130		%REC	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	1.5	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	3/26/2011 2:23:00 AM
Acetone	10	3.6		ug/m3	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:23:00 AM
Benzene	2.9	0.49		ug/m3	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.82	0.47		ug/m3	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:23:00 AM
Chloroform	1.5	0.74		ug/m3	1	3/26/2011 2:23:00 AM
Chloromethane	1.4	0.31		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
Ethylbenzene	1.5	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Freon 11	1.0	0.86		ug/m3	1	3/26/2011 2:23:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.8	0.75		ug/m3	1	3/26/2011 2:23:00 AM
Heptane	2.1	0.62		ug/m3	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Hexane	6.9	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:23:00 AM
m&p-Xylene	4.7	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:23:00 AM
Methylene chloride	1.4	0.53		ug/m3	1	3/26/2011 2:23:00 AM
o-Xylene	1.3	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:23:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	8.2	2.2		ug/m3	5	3/30/2011 4:28:00 PM
Toluene	15	2.9		ug/m3	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Trichloroethene	23	4.1		ug/m3	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032522.D Vial: 19
Acq On : 26 Mar 2011 2:23 am Operator: LL
Sample : C1103055-001A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 15:55:31 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	15436	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	56562	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	52087	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	33892	0.81	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%				
Target Compounds							Qvalue
3) Freon 12	3.08	85	73967	0.55	ppb		98
4) Chloromethane	3.23	50	24286	0.69	ppb		71
11) Freon 11	4.27	101	22223	0.18	ppb		97
12) Acetone	4.61	58	24765m	4.32	ppb		
16) Methylene chloride	5.28	84	7111m	0.39	ppb		
18) Carbon disulfide	5.39	76	15587	0.26	ppb		95
23) Methyl Ethyl Ketone	7.36	72	5045m	1.00	ppb		
25) Hexane	6.98	57	54036	1.93	ppb	#	73
27) Chloroform	7.95	83	18854	0.31	ppb		96
28) Tetrahydrofuran	8.36	42	75175m	5.70	ppb		
32) Cyclohexane	9.39	56	10683	0.36	ppb	#	45
34) Benzene	9.30	78	52836	0.90	ppb		97
37) Heptane	10.66	43	17997	0.50	ppb		88
38) Trichloroethene	10.77	130	165109	4.43	ppb		93
45) Toluene	13.00	92	191565	4.48	ppb		89
52) Ethylbenzene	15.21	91	31409	0.33	ppb		91
53) m&p-xylene	15.38	91	85418	1.07	ppb		84
56) o-xylene	15.83	91	24028	0.30	ppb		95
59) 4-ethyltoluene	17.00	105	9474	0.13	ppb		75
60) 1,3,5-trimethylbenzene	17.07	105	6697	0.09	ppb		98
61) 1,2,4-trimethylbenzene	17.47	105	18560	0.30	ppb		97

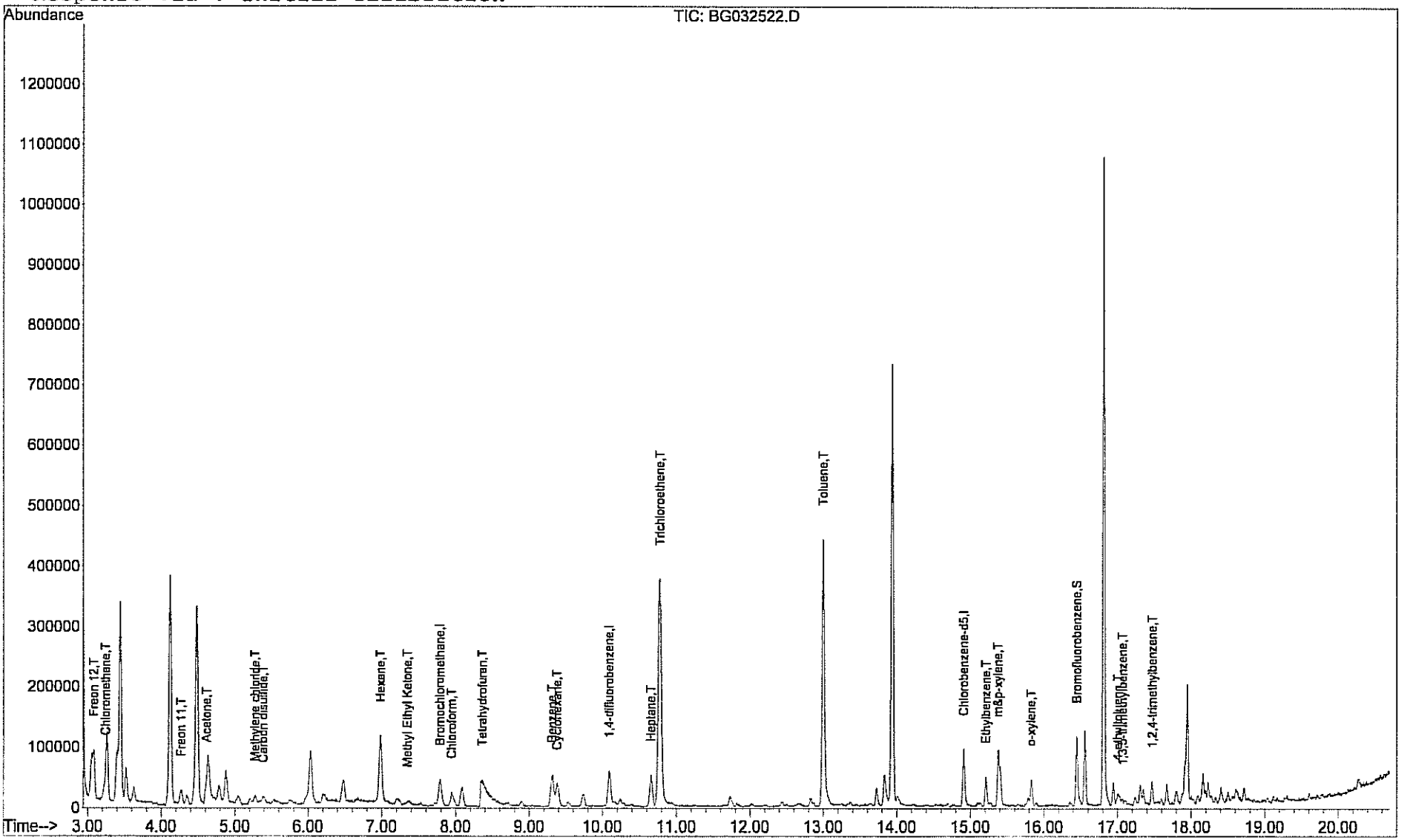
E.L.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

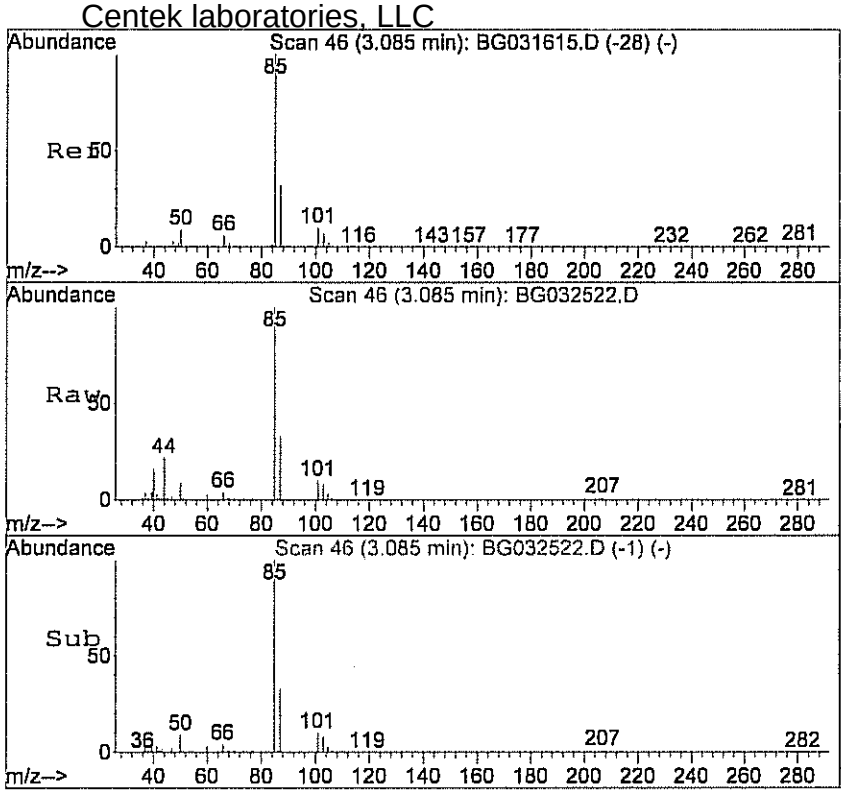
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032522.D Vial: 19
Acq On : 26 Mar 2011 2:23 am Operator: LL
Sample : C1103055-001A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:03 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



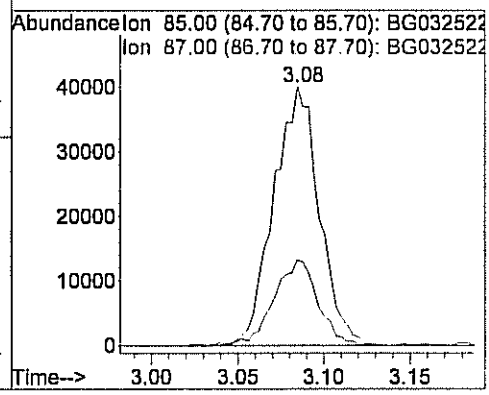
Centek laboratories, LLC

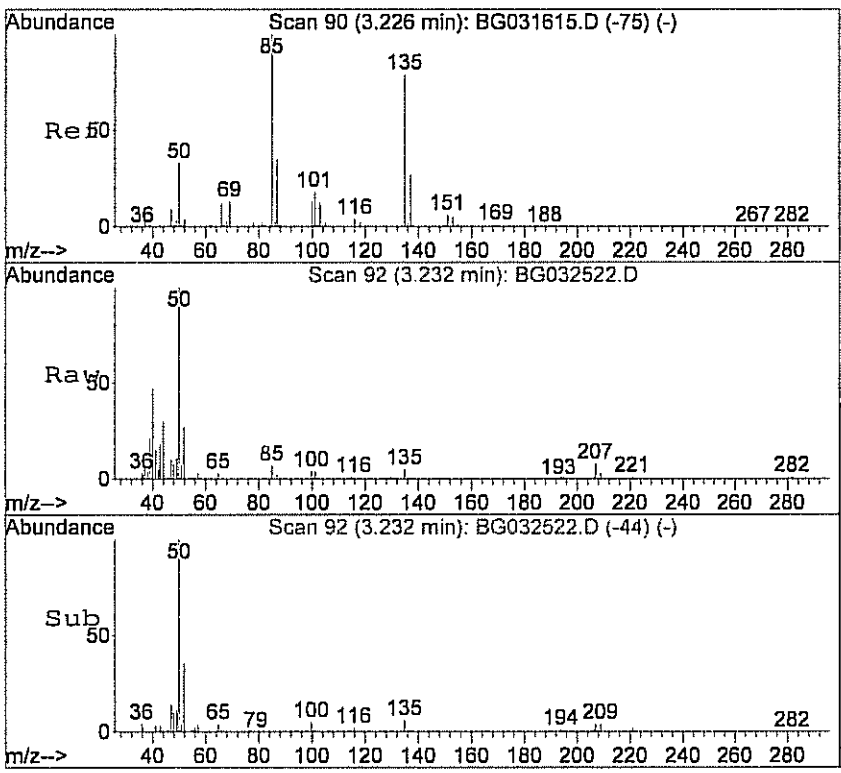


#3
Freon 12
Concen: 0.55 ppb
RT: 3.08 min Scan# 46
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 85 Resp: 73967

Ion	Ratio	Lower	Upper
85	100		
87	31.8	10.7	50.7

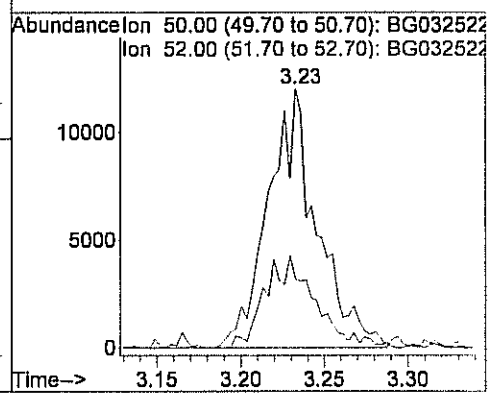


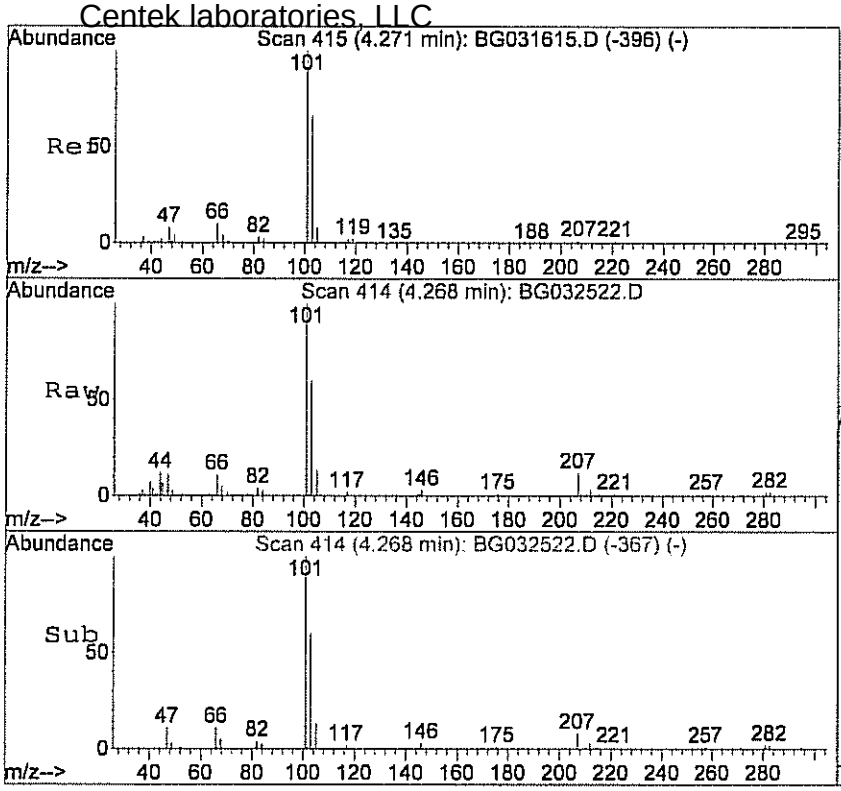


#4
Chloromethane
Concen: 0.69 ppb
RT: 3.23 min Scan# 92
Delta R.T. 0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 50 Resp: 24286

Ion	Ratio	Lower	Upper
50	100		
52	36.4	2.3	42.3

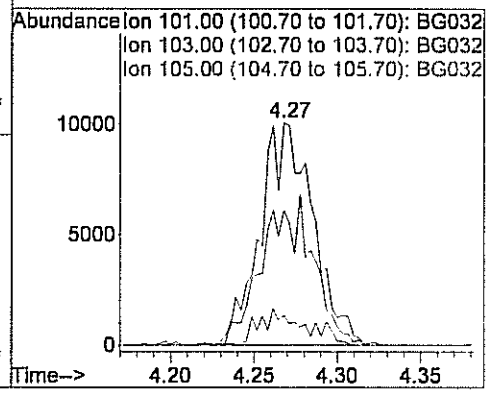


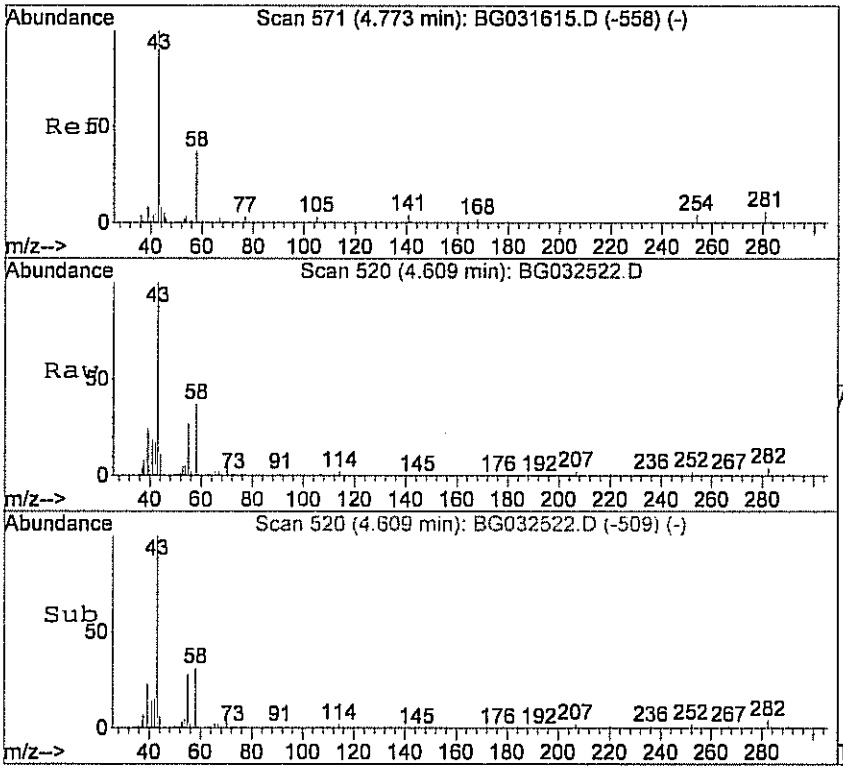


#11
Freon 11
Concen: 0.18 ppb
RT: 4.27 min Scan# 414
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion:101 Resp: 22223

Ion	Ratio	Lower	Upper
101	100		
103	63.9	42.4	82.4
105	13.8	0.0	29.9

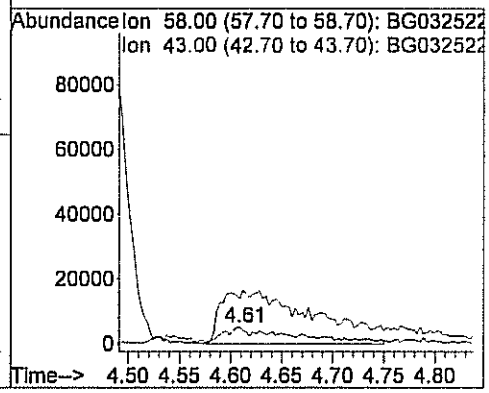


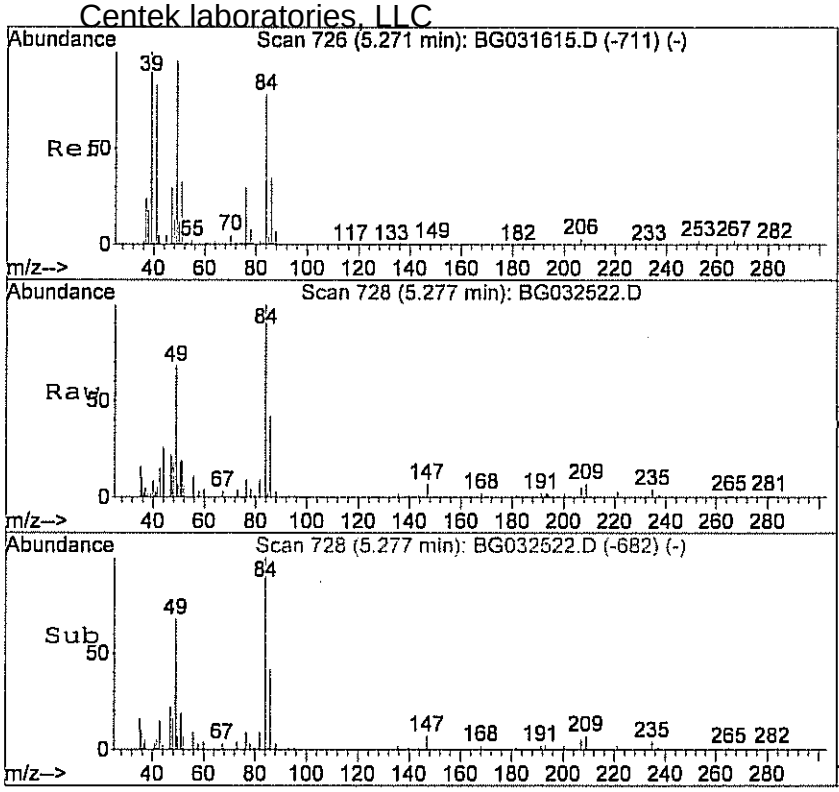


#12
Acetone
Concen: 4.32 ppb m
RT: 4.61 min Scan# 520
Delta R.T. -0.12 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 58 Resp: 24765

Ion	Ratio	Lower	Upper
58	100		
43	410.5	381.2	441.2

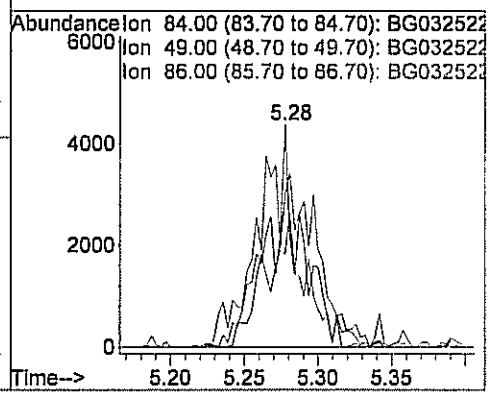


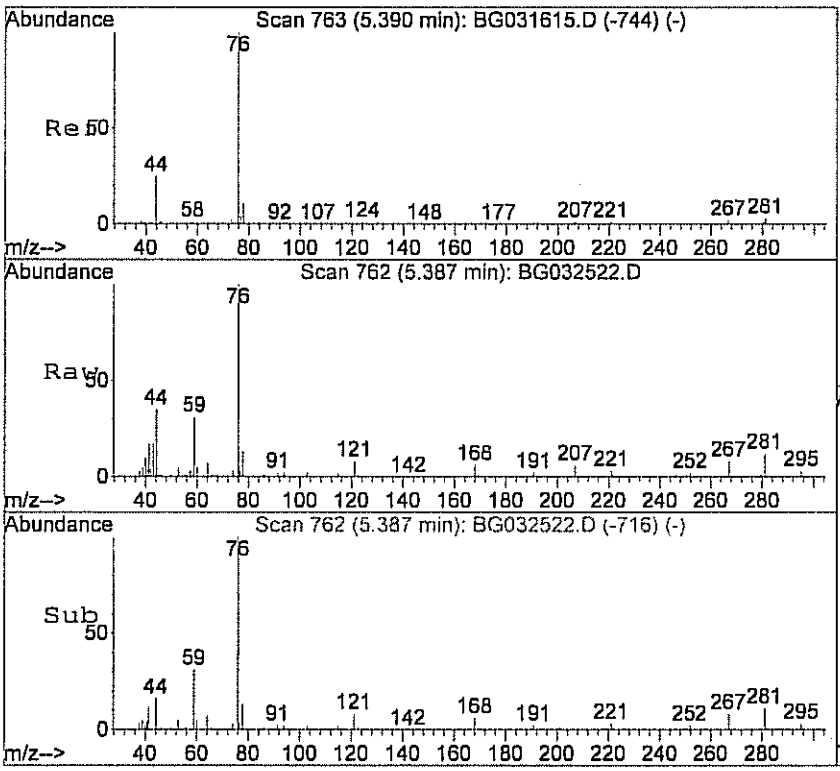


#16
Methylene chloride
Concen: 0.39 ppb m
RT: 5.28 min Scan# 728
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 84 Resp: 7111

Ion	Ratio	Lower	Upper
84	100		
49	129.4	111.4	151.4
86	67.7	39.2	79.2

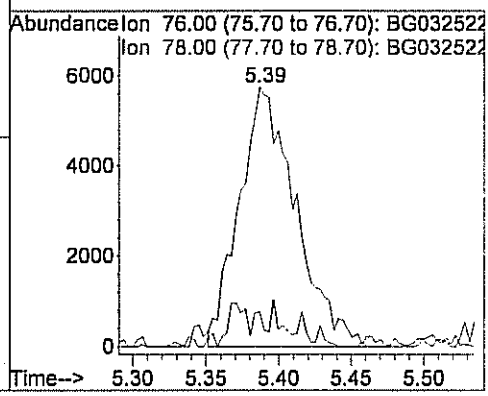


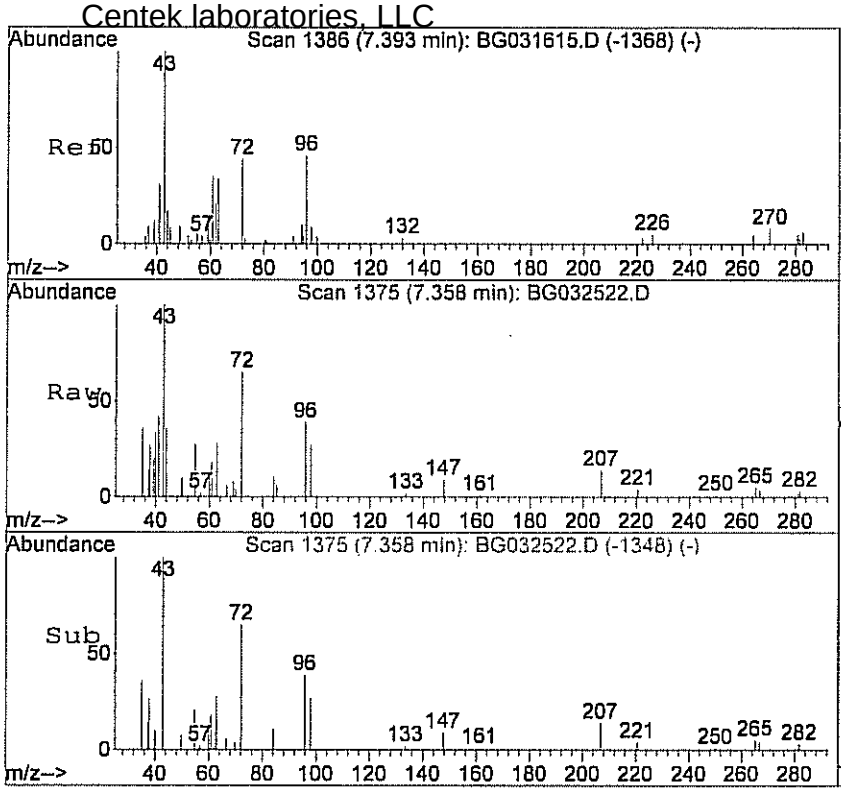


#18
Carbon disulfide
Concen: 0.26 ppb
RT: 5.39 min Scan# 762
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 76 Resp: 15587

Ion	Ratio	Lower	Upper
76	100		
78	8.0	0.0	30.0

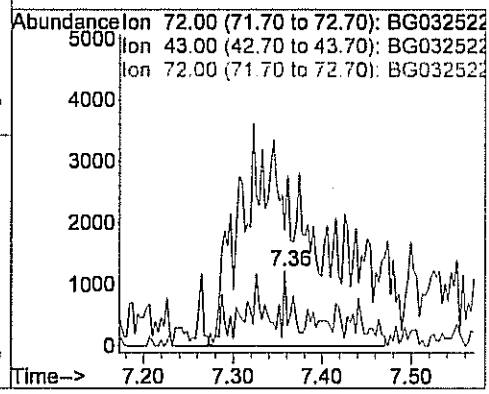


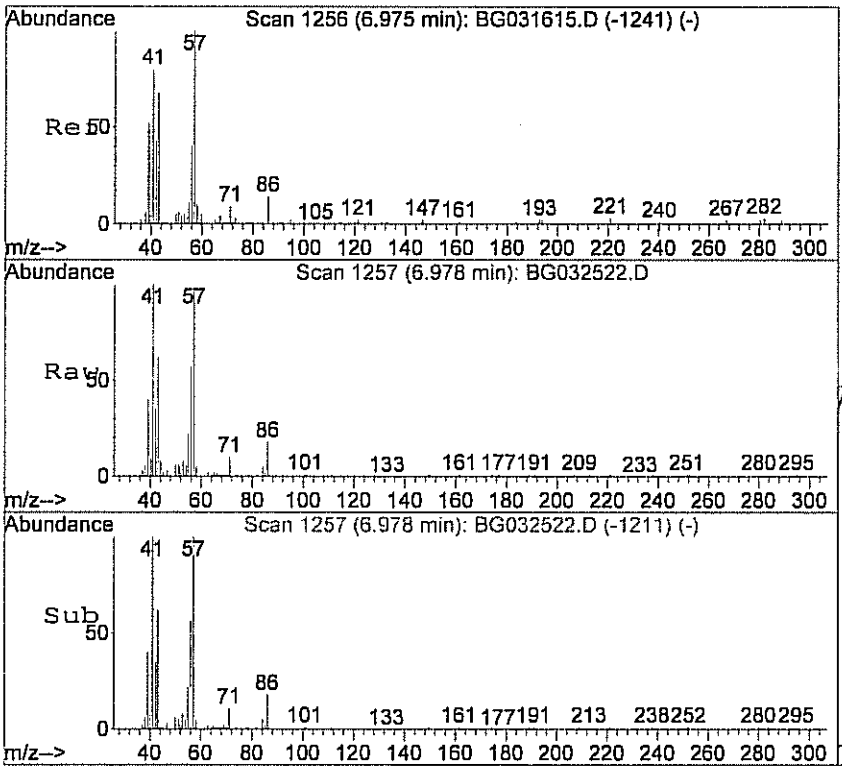


#23
Methyl Ethyl Ketone
Concen: 1.00 ppb m
RT: 7.36 min Scan# 1375
Delta R.T. -0.06 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 72 Resp: 5045

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	5.2	80.0	120.0#

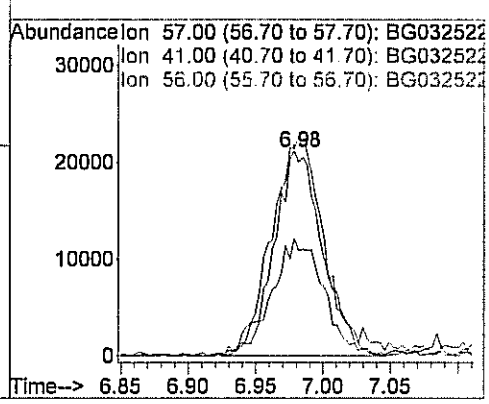


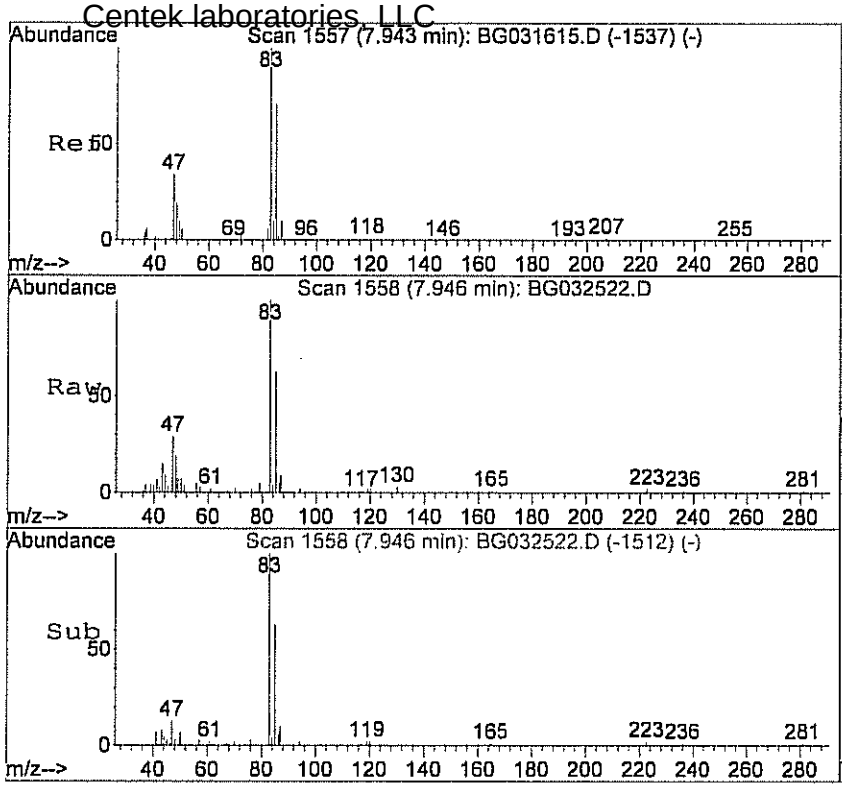


#25
Hexane
Concen: 1.93 ppb
RT: 6.98 min Scan# 1257
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 57 Resp: 54036

Ion	Ratio	Lower	Upper
57	100		
41	121.2	69.7	109.7#
56	58.9	28.5	68.5

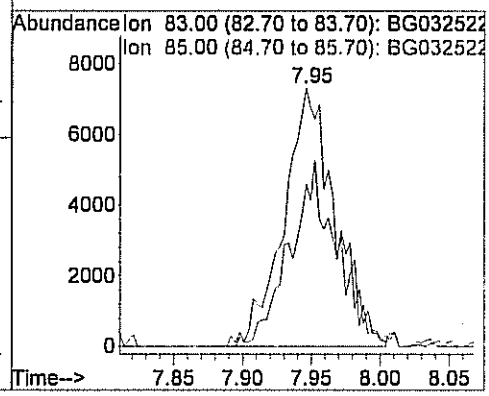


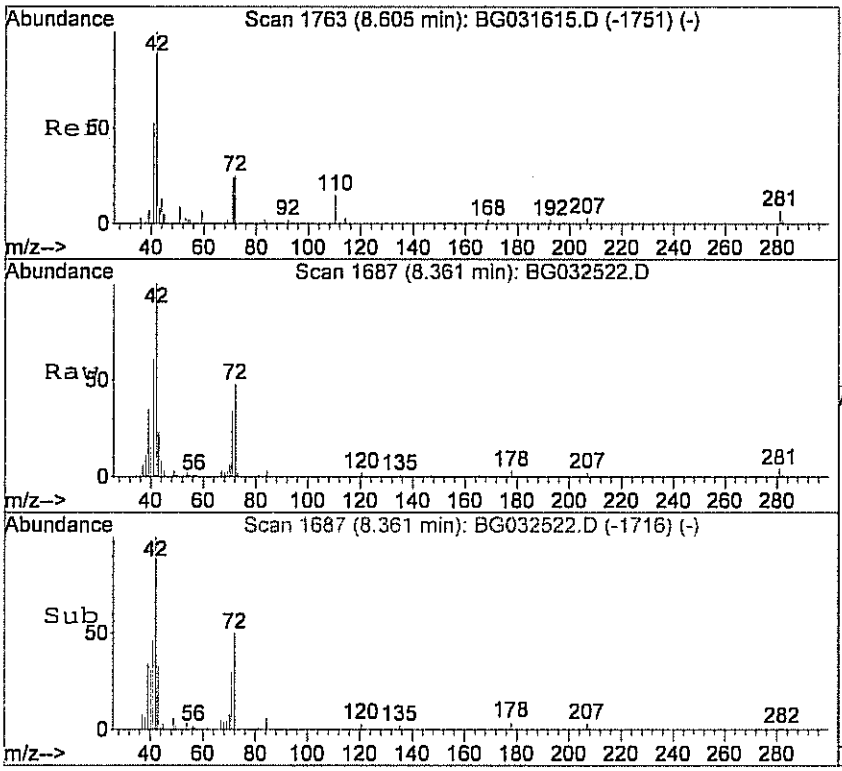


#27
Chloroform
Concen: 0.31 ppb
RT: 7.95 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 83 Resp: 18854

Ion	Ratio	Lower	Upper
83	100		
85	67.0	43.8	83.8

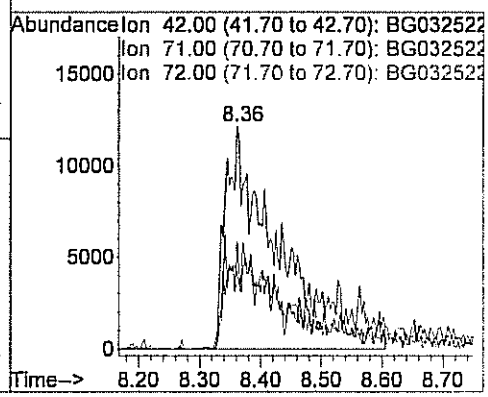


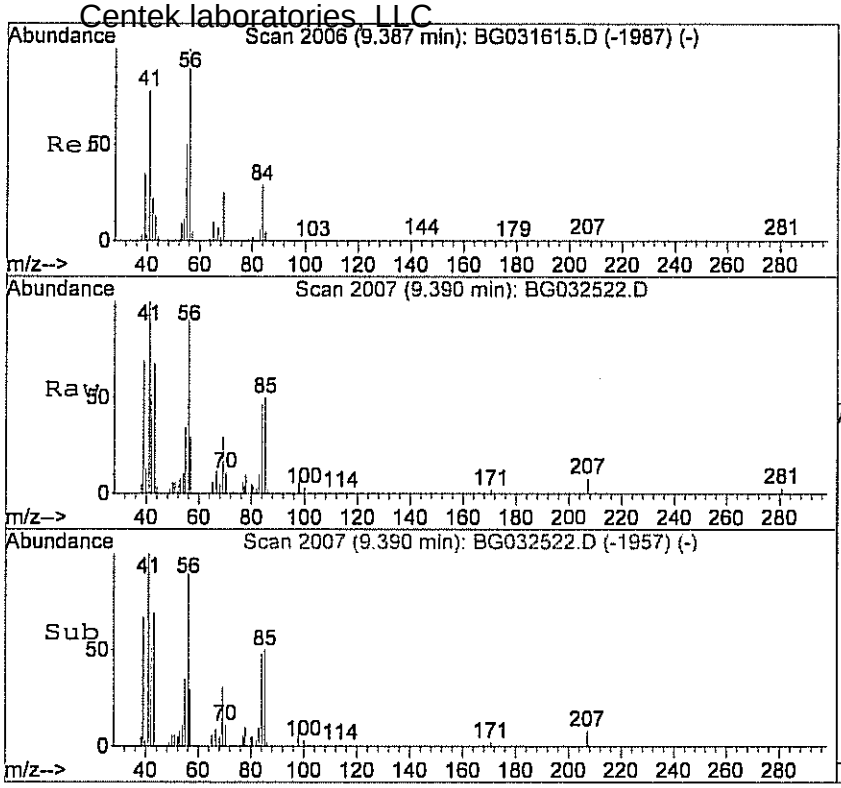


#28
Tetrahydrofuran
Concen: 5.70 ppb m
RT: 8.36 min Scan# 1687
Delta R.T. -0.24 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 42 Resp: 75175

Ion	Ratio	Lower	Upper
42	100		
71	1.1	32.2	72.2#
72	1.5	29.3	69.3#

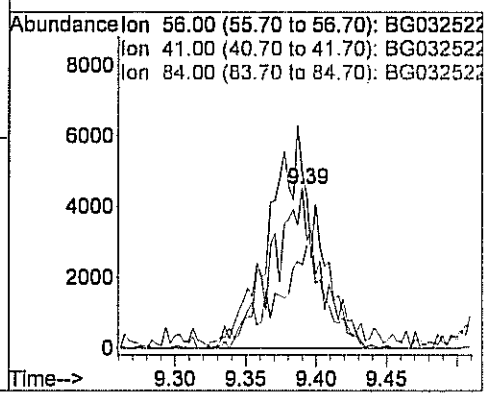


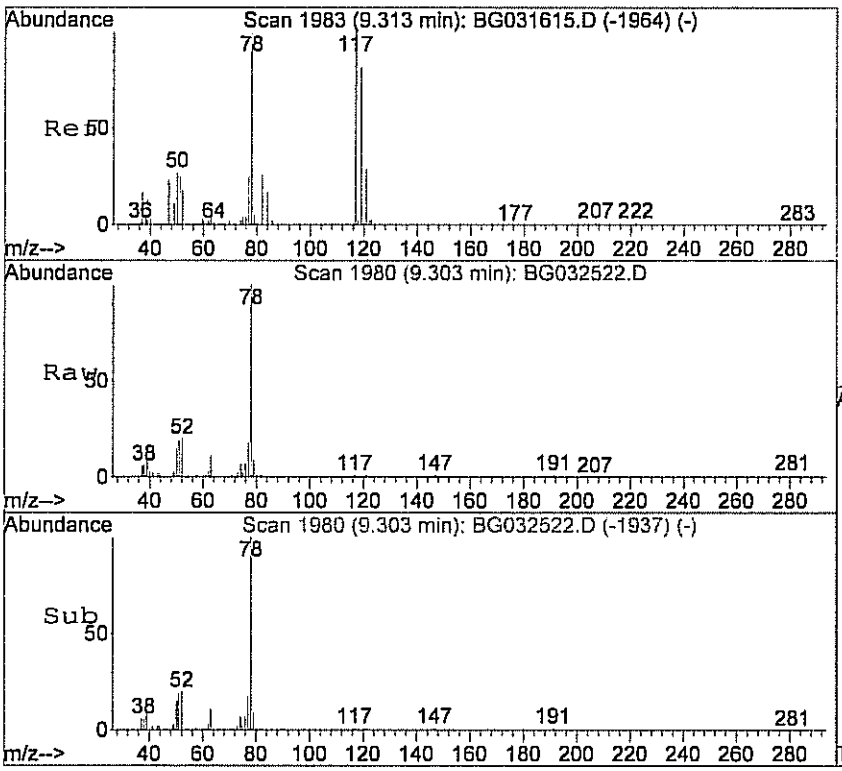


#32
Cyclohexane
Concen: 0.36 ppb
RT: 9.39 min Scan# 2007
Delta R.T. 0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 56 Resp: 10683

Ion	Ratio	Lower	Upper
56	100		
41	146.8	46.6	86.6#
84	65.4	59.9	99.9

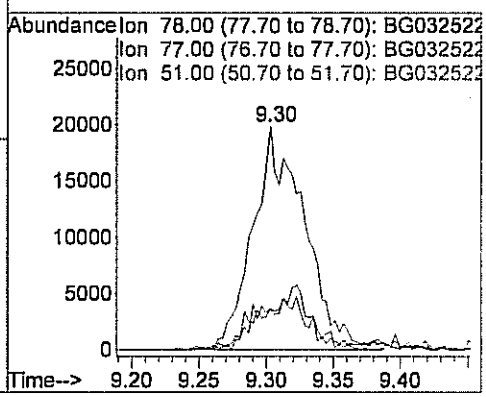


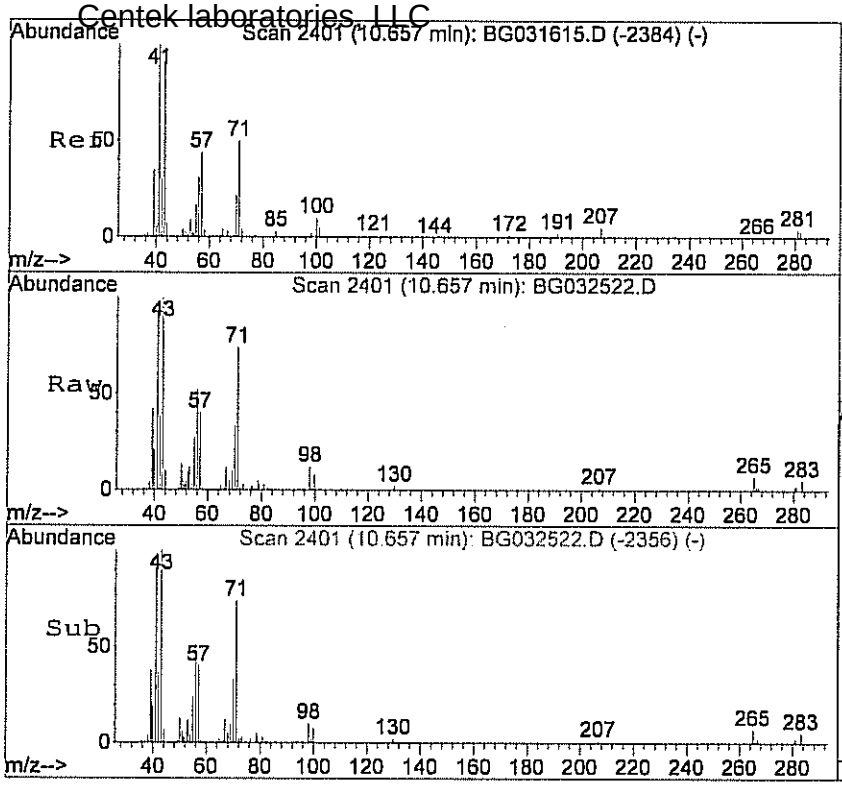


#34
Benzene
Concen: 0.90 ppb
RT: 9.30 min Scan# 1980
Delta R.T. -0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 78 Resp: 52836

Ion	Ratio	Lower	Upper
78	100		
77	26.7	4.6	44.6
51	23.0	1.9	41.9

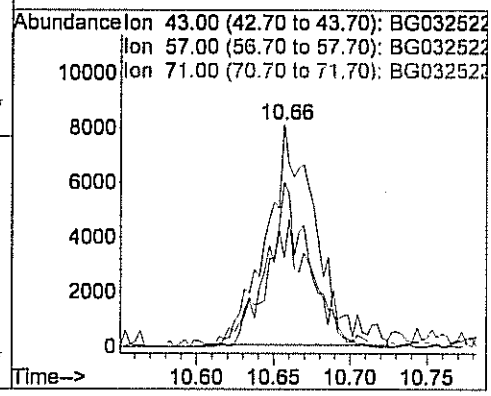


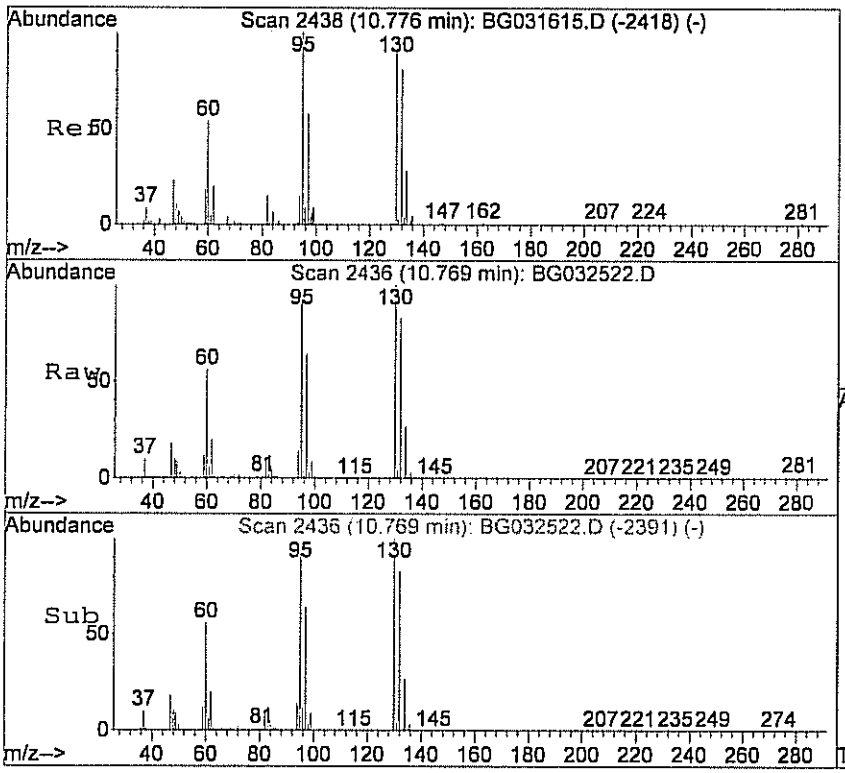


#37
Heptane
Concen: 0.50 ppb
RT: 10.66 min Scan# 2401
Delta R.T. -0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 43 Resp: 17997

Ion	Ratio	Lower	Upper
43	100		
57	44.9	29.2	69.2
71	64.9	32.6	72.6

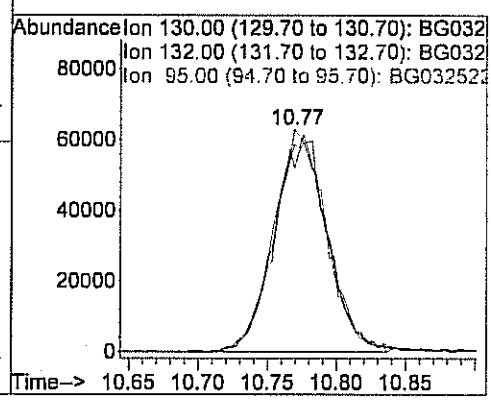


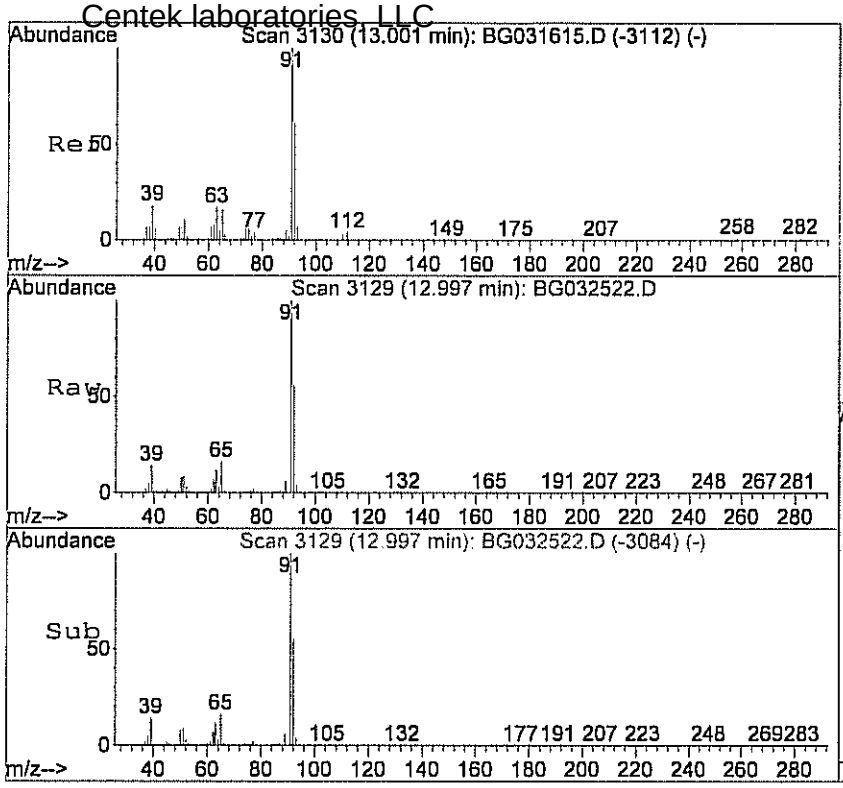


#38
Trichloroethene
Concen: 4.43 ppb
RT: 10.77 min Scan# 2436
Delta R.T. -0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion:130 Resp: 165109

Ion	Ratio	Lower	Upper
130	100		
132	100.5	74.9	114.9
95	100.9	89.5	129.5

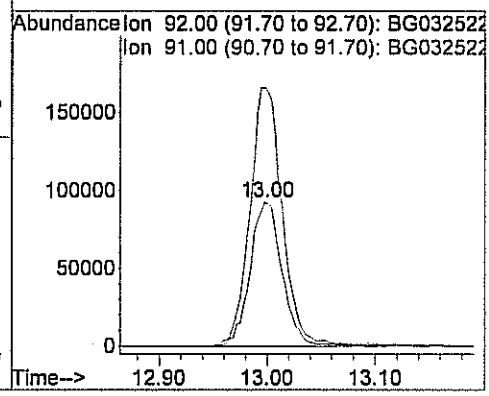


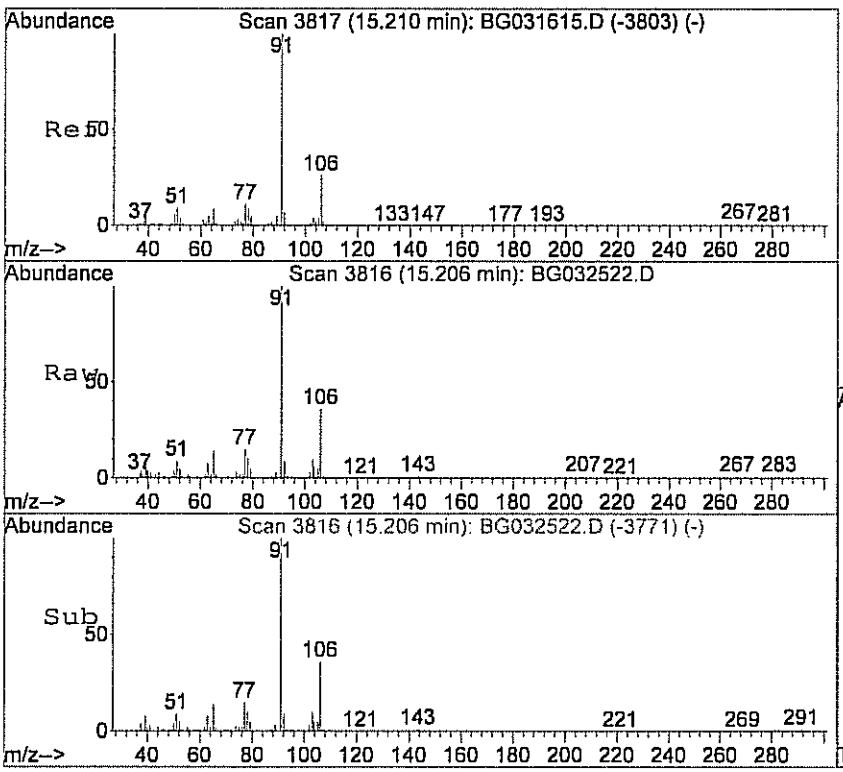


#45
Toluene
Concen: 4.48 ppb
RT: 13.00 min Scan# 3129
Delta R.T. -0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 92 Resp: 191565

Ion	Ratio	Lower	Upper
92	100		
91	180.4	145.8	185.8

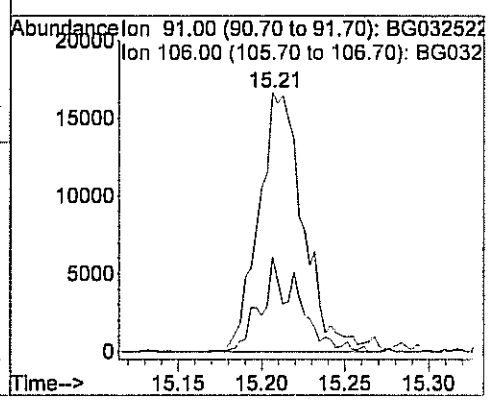


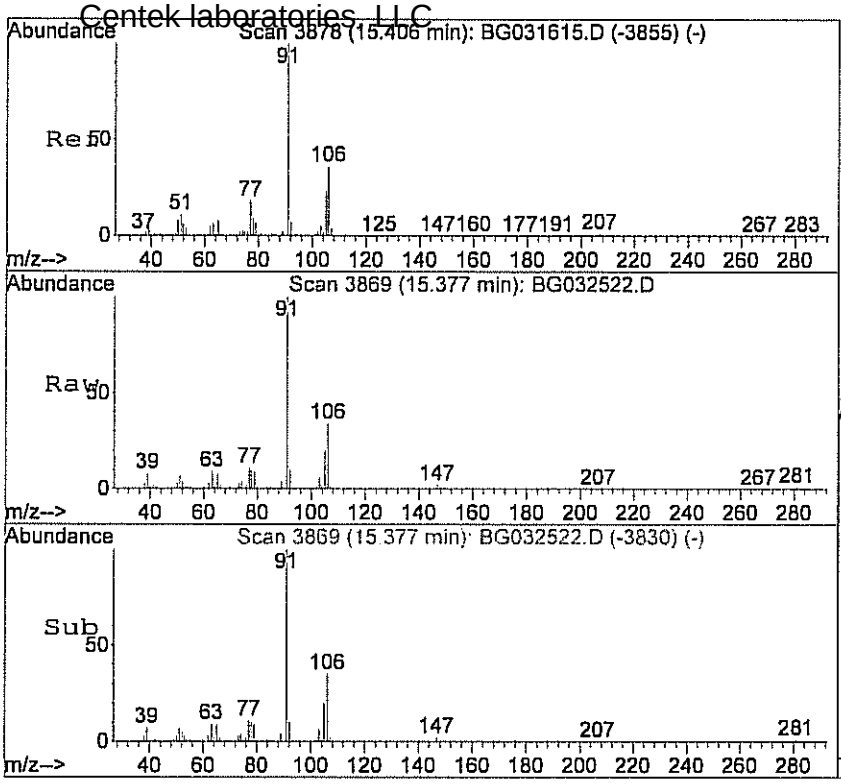


#52
Ethylbenzene
Concen: 0.33 ppb
RT: 15.21 min Scan# 3816
Delta R.T. -0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 91 Resp: 31409

Ion	Ratio	Lower	Upper
91	100		
106	29.8	5.5	45.5

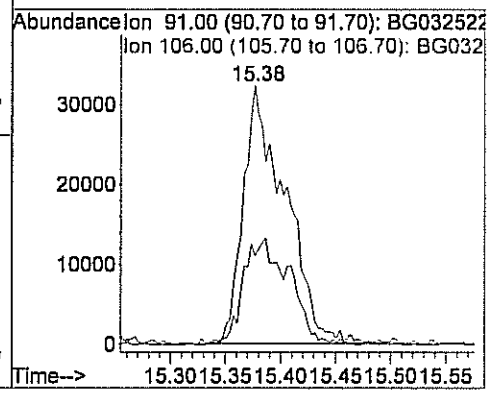


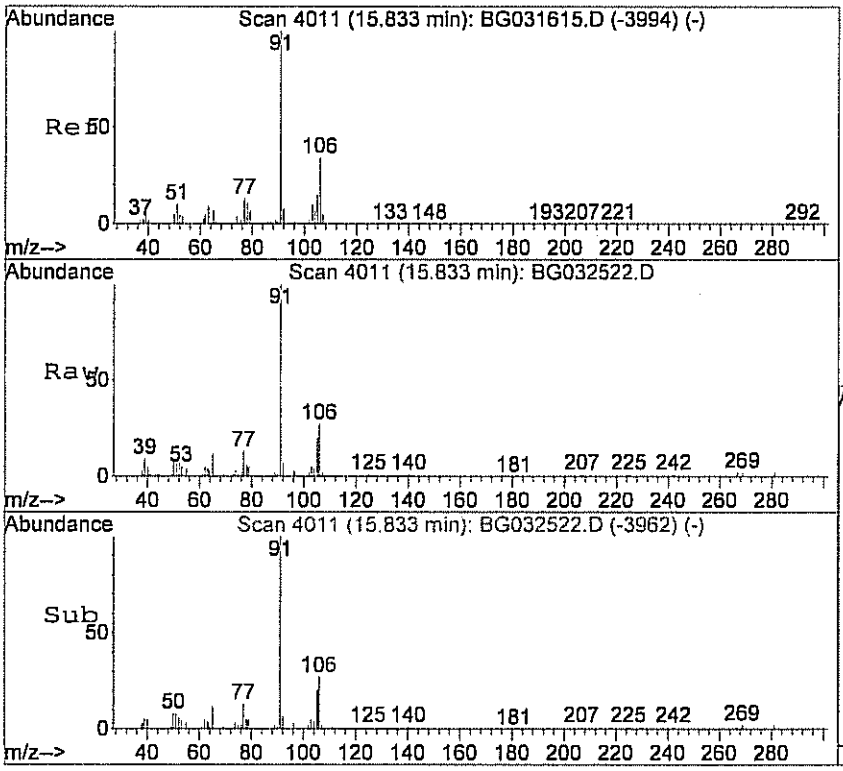


#53
m&p-xylene
Concen: 1.07 ppb
RT: 15.38 min Scan# 3869
Delta R.T. -0.03 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 91 Resp: 85418

Ion	Ratio	Lower	Upper
91	100		
106	44.7	15.6	55.6

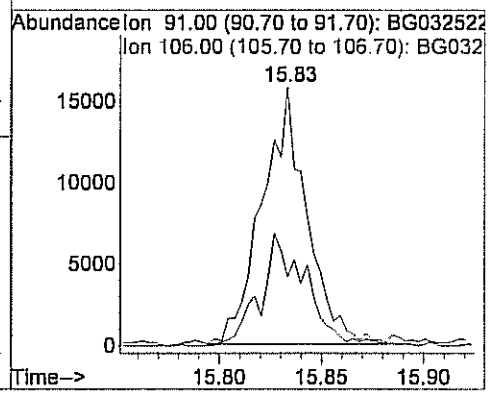


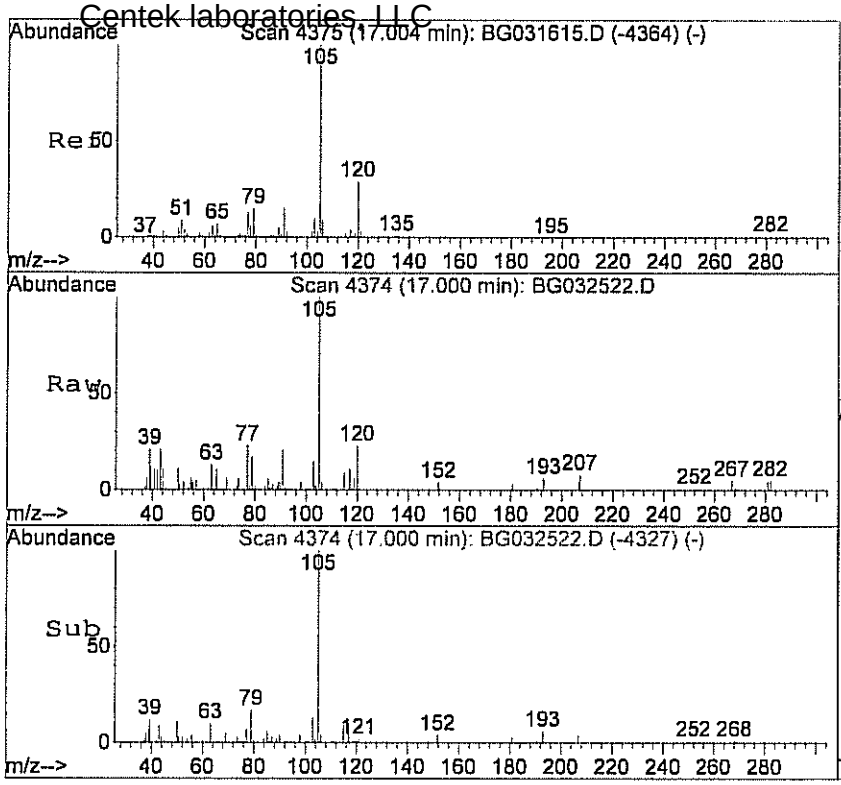


#56
o-xylene
Concen: 0.30 ppb
RT: 15.83 min Scan# 4011
Delta R.T. 0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion: 91 Resp: 24028

Ion	Ratio	Lower	Upper
91	100		
106	44.0	20.9	60.9

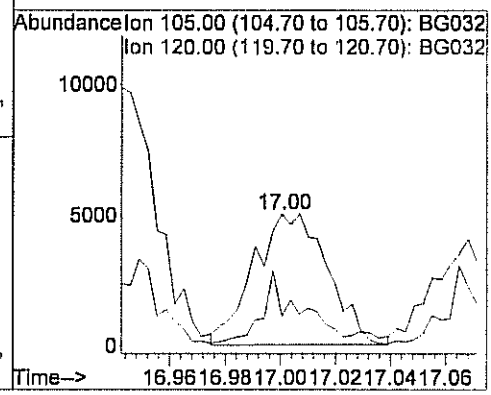


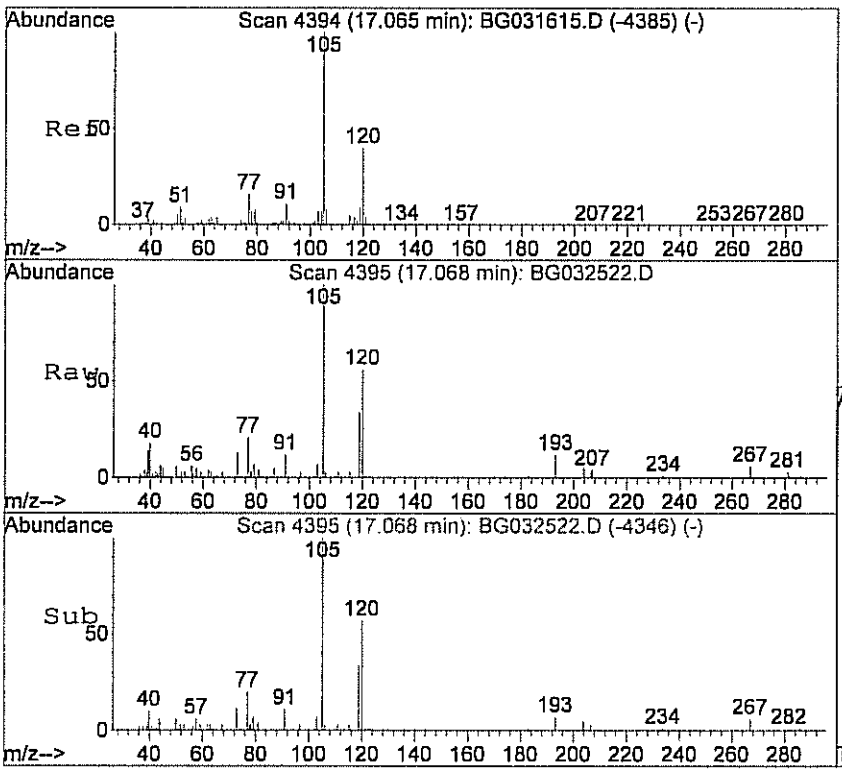


#59
4-ethyltoluene
Concen: 0.13 ppb
RT: 17.00 min Scan# 4374
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion:105 Resp: 9474

Ion	Ratio	Lower	Upper
105	100		
120	32.8	1.1	41.1

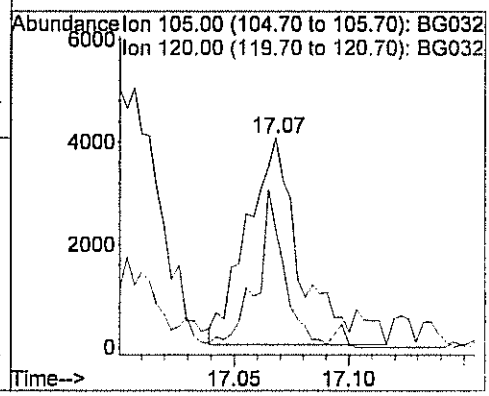


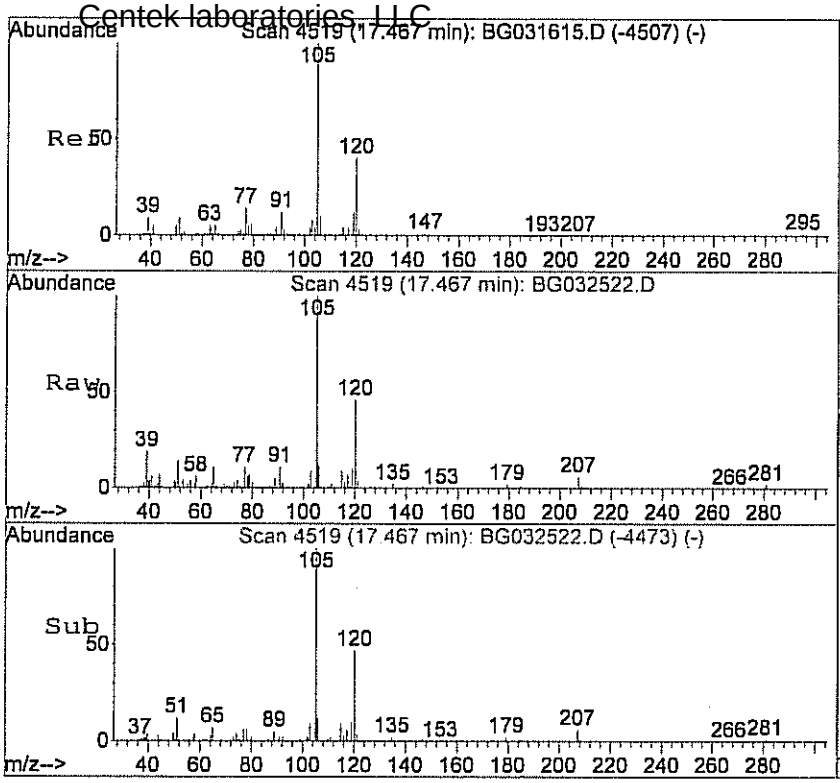


#60
1,3,5-trimethylbenzene
Concen: 0.09 ppb
RT: 17.07 min Scan# 4395
Delta R.T. 0.01 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion:105 Resp: 6697

Ion	Ratio	Lower	Upper
105	100		
120	37.4	18.7	58.7

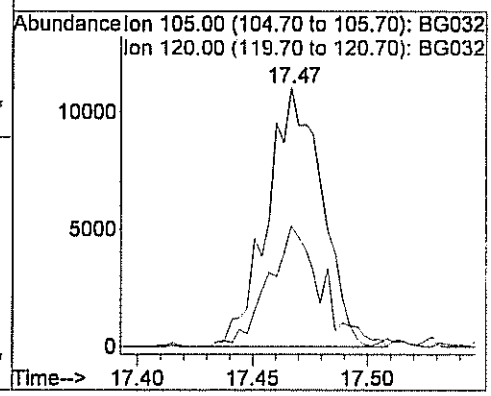




#61
1,2,4-trimethylbenzene
Concen: 0.30 ppb
RT: 17.47 min Scan# 4519
Delta R.T. -0.00 min
Lab File: BG032522.D
Acq: 26 Mar 2011 2:23 am

Tgt Ion:105 Resp: 18560

Ion	Ratio	Lower	Upper
105	100		
120	42.9	21.2	61.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033010.D Vial: 19
Acq On : 30 Mar 2011 4:28 pm Operator: LL
Sample : C1103055-001A 5X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:10:28 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

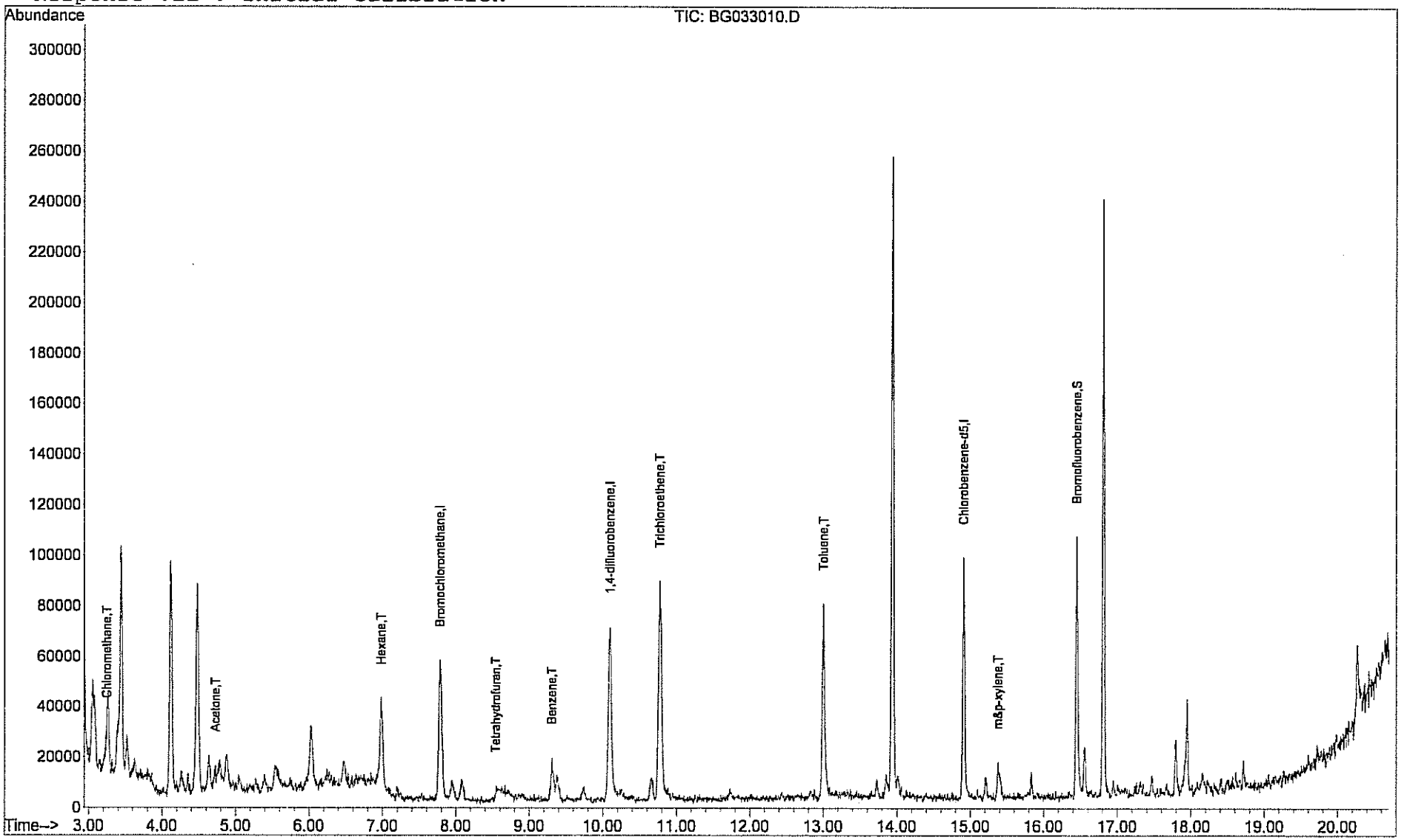
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	22896	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	71585	1.00	ppb		0.01
44) Chlorobenzene-d5	14.91	117	55068	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	30331	0.69	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 69.00%#				
Target Compounds							Qvalue
4) Chloromethane	3.24	50	7191	0.14	ppb		72
12) Acetone	4.73	58	7082	0.83	ppb	#	1
25) Hexane	6.99	57	13126	0.32	ppb	#	78
28) Tetrahydrofuran	8.54	42	10800m	0.55	ppb		
34) Benzene	9.30	78	12597	0.17	ppb		93
38) Trichloroethene	10.77	130	39604	0.84	ppb		89
45) Toluene	13.00	92	34504	0.76	ppb	#	85
53) m&p-xylene	15.38	91	11978	0.14	ppb		86

(#) = qualifier out of range (m) = manual integration (+) = signals summed
BG033010.D B316_1UG.M Mon Apr 25 11:59:15 2011 Page 1

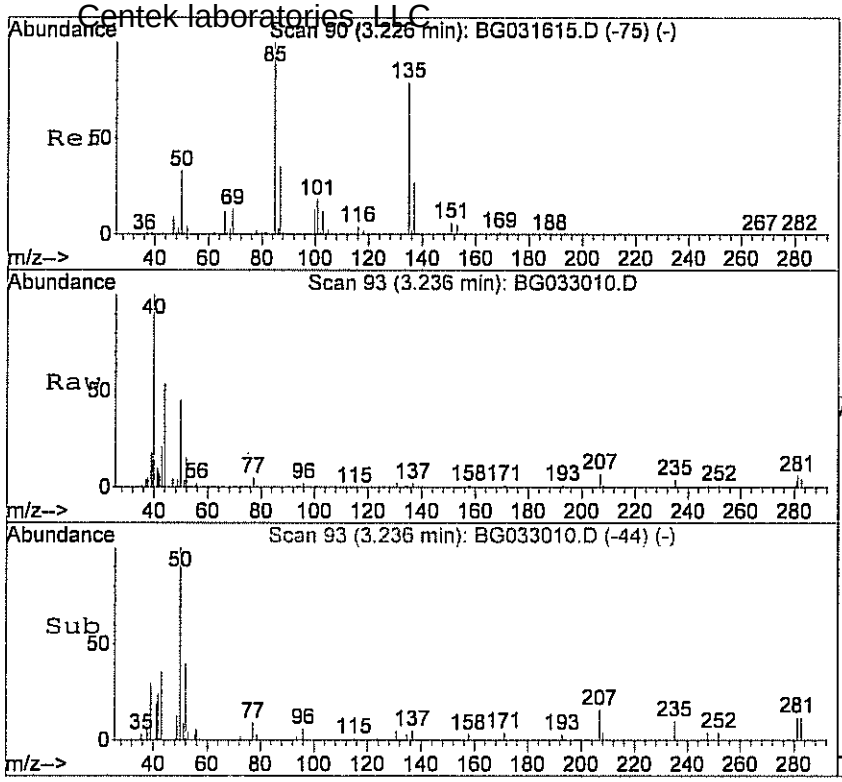
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033010.D Vial: 19
Acq On : 30 Mar 2011 4:28 pm Operator: LL
Sample : C1103055-001A 5X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:14 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



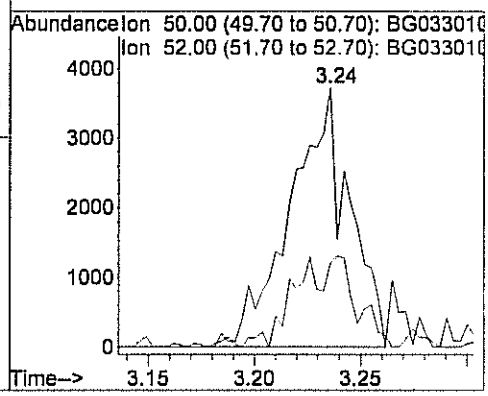
Centek laboratories, LLC

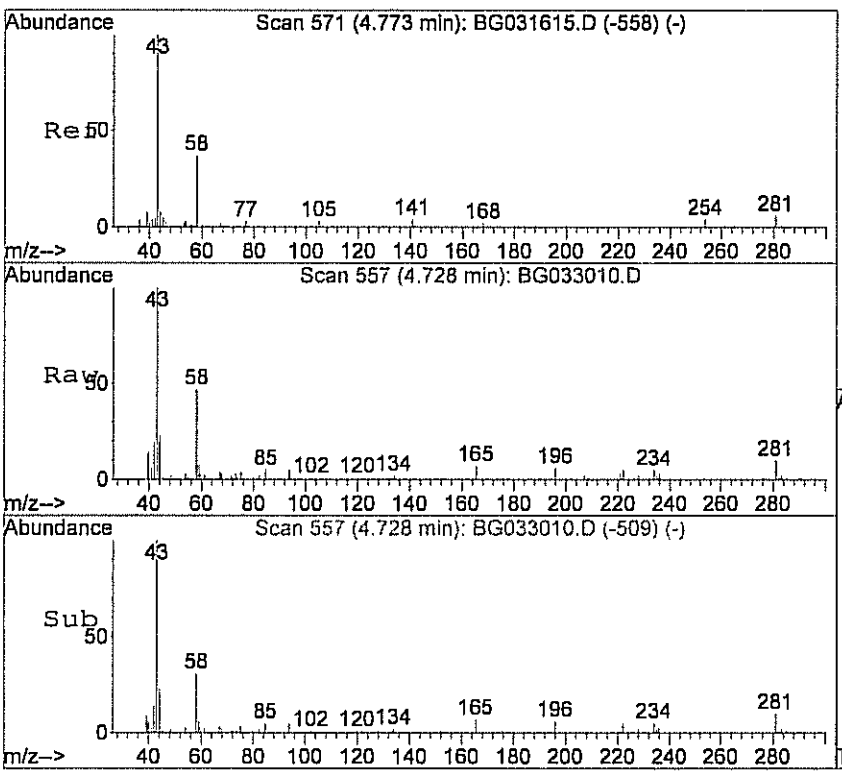


#4
Chloromethane
Concen: 0.14 ppb
RT: 3.24 min Scan# 93
Delta R.T. 0.01 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 50 Resp: 7191

Ion	Ratio	Lower	Upper
50	100		
52	35.5	2.3	42.3

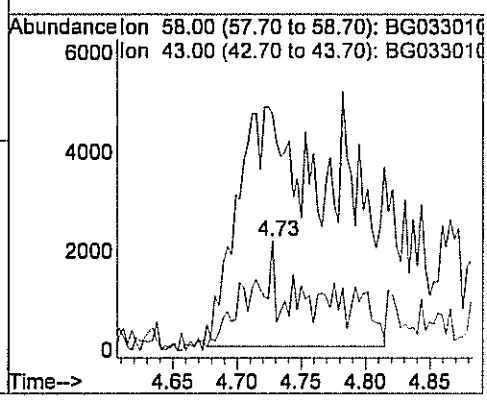


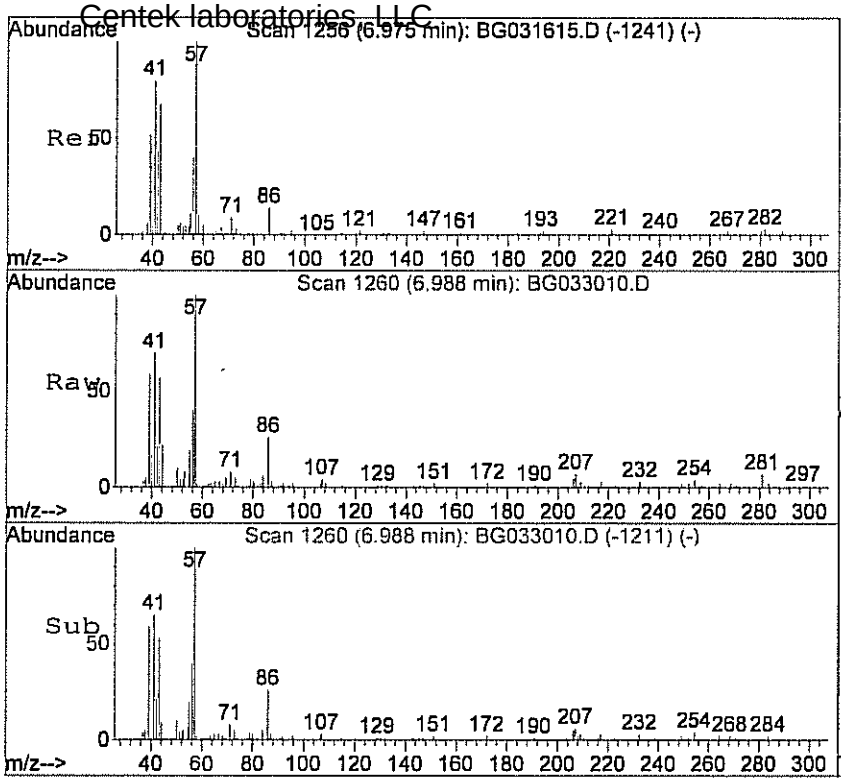


#12
Acetone
Concen: 0.83 ppb
RT: 4.73 min Scan# 557
Delta R.T. 0.00 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 58 Resp: 7082

Ion	Ratio	Lower	Upper
58	100		
43	0.0	381.2	441.2#

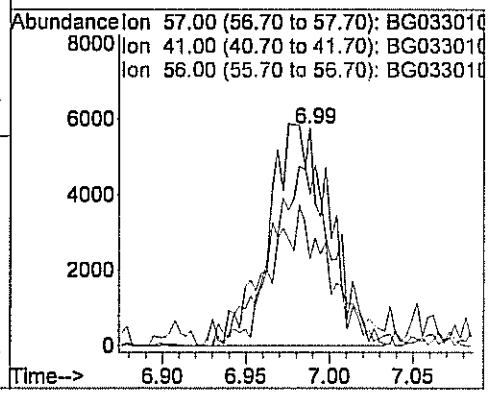


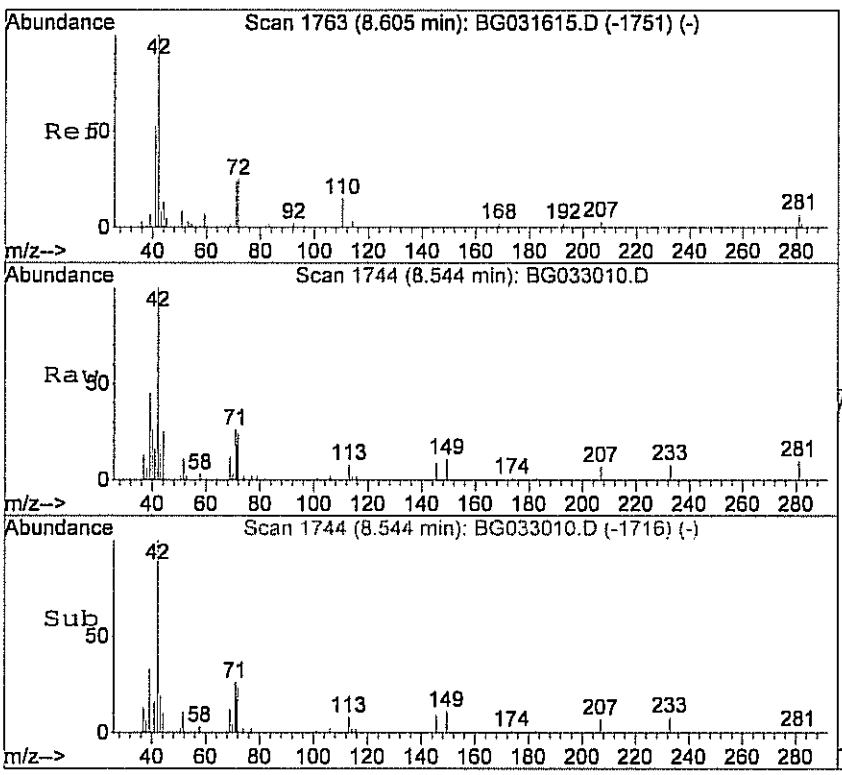


#25
Hexane
Concen: 0.32 ppb
RT: 6.99 min Scan# 1260
Delta R.T. 0.01 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 57 Resp: 13126

Ion	Ratio	Lower	Upper
57	100		
41	109.9	69.7	109.7#
56	63.9	28.5	68.5

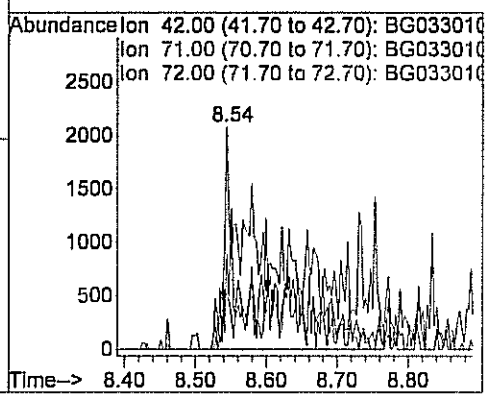


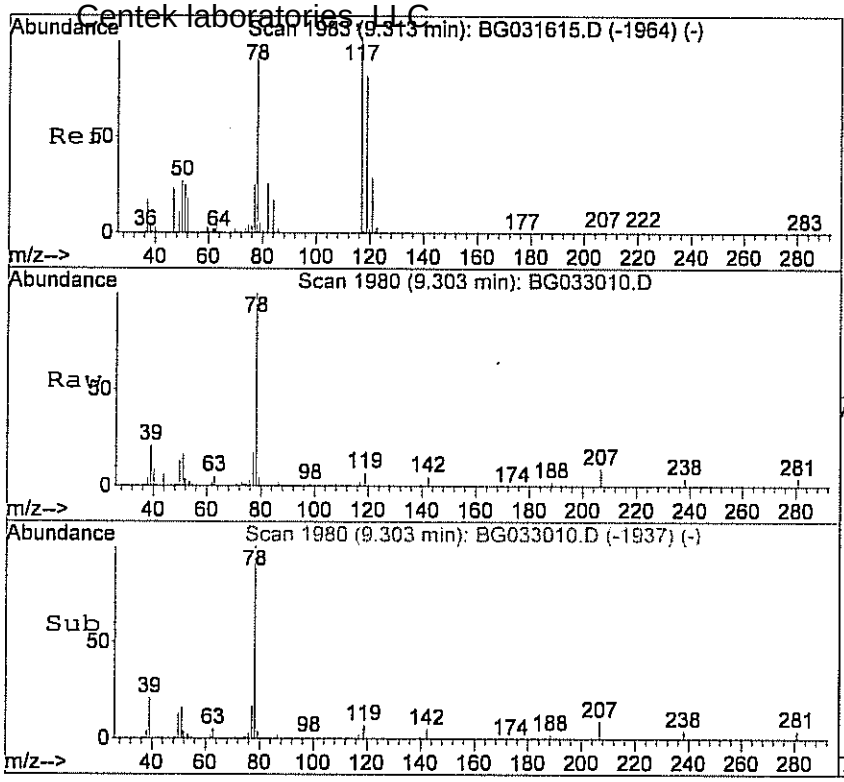


#28
Tetrahydrofuran
Concen: 0.55 ppb m
RT: 8.54 min Scan# 1744
Delta R.T. -0.06 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 42 Resp: 10800

Ion	Ratio	Lower	Upper
42	100		
71	0.0	32.2	72.2#
72	3.8	29.3	69.3#

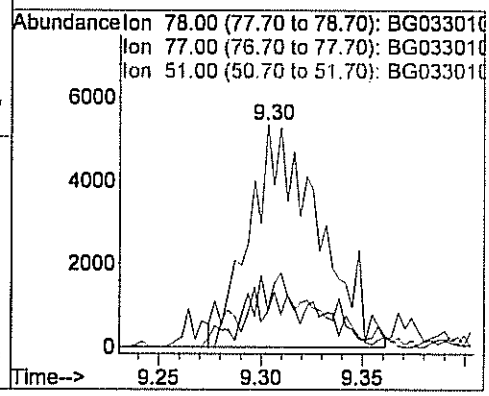


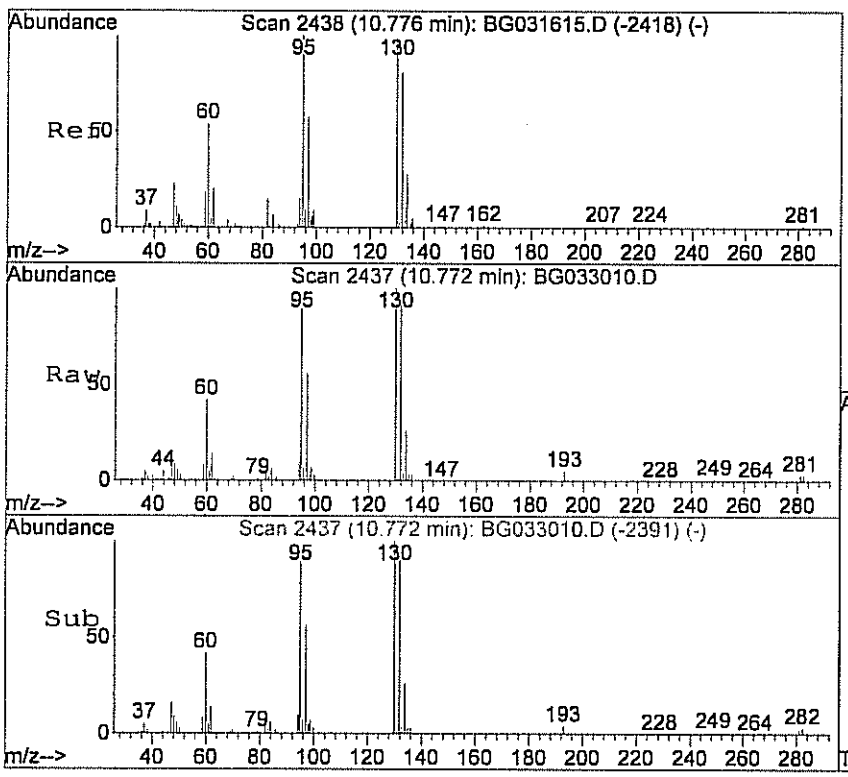


#34
Benzene
Concen: 0.17 ppb
RT: 9.30 min Scan# 1980
Delta R.T. -0.01 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 78 Resp: 12597

Ion	Ratio	Lower	Upper
78	100		
77	30.3	4.6	44.6
51	22.9	1.9	41.9

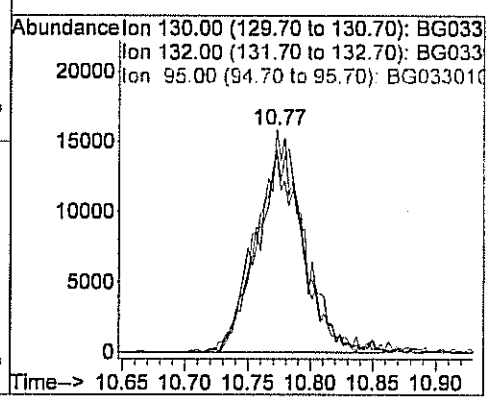


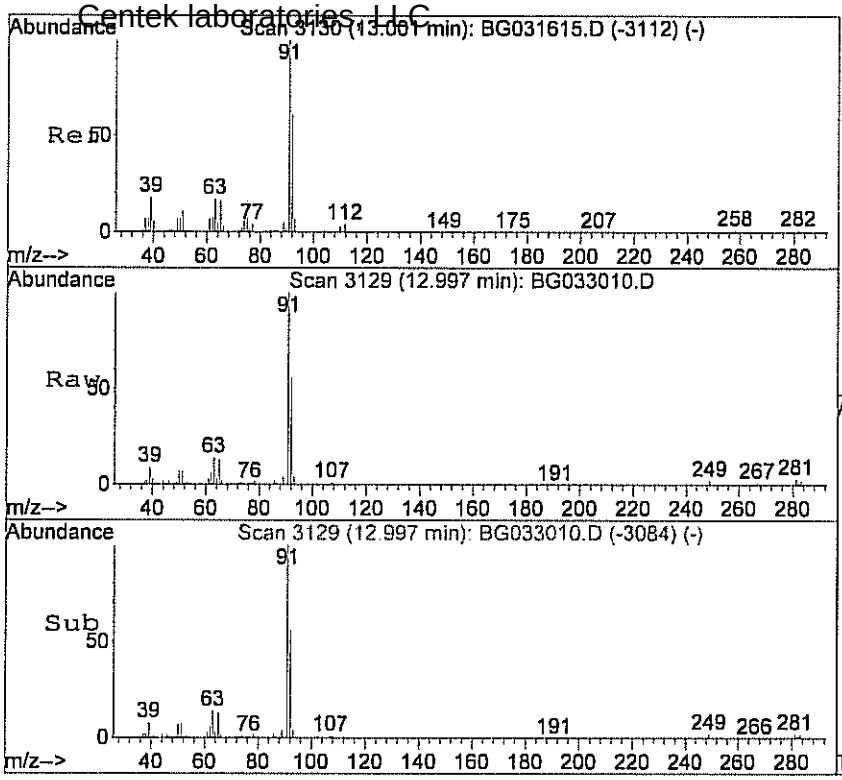


#38
Trichloroethene
Concen: 0.84 ppb
RT: 10.77 min Scan# 2437
Delta R.T. -0.00 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion:130 Resp: 39604

Ion	Ratio	Lower	Upper
130	100		
132	100.1	74.9	114.9
95	92.8	89.5	129.5

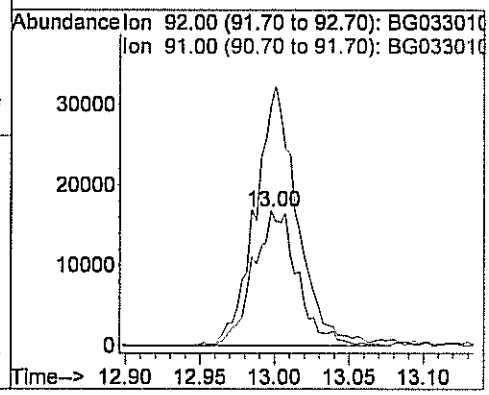


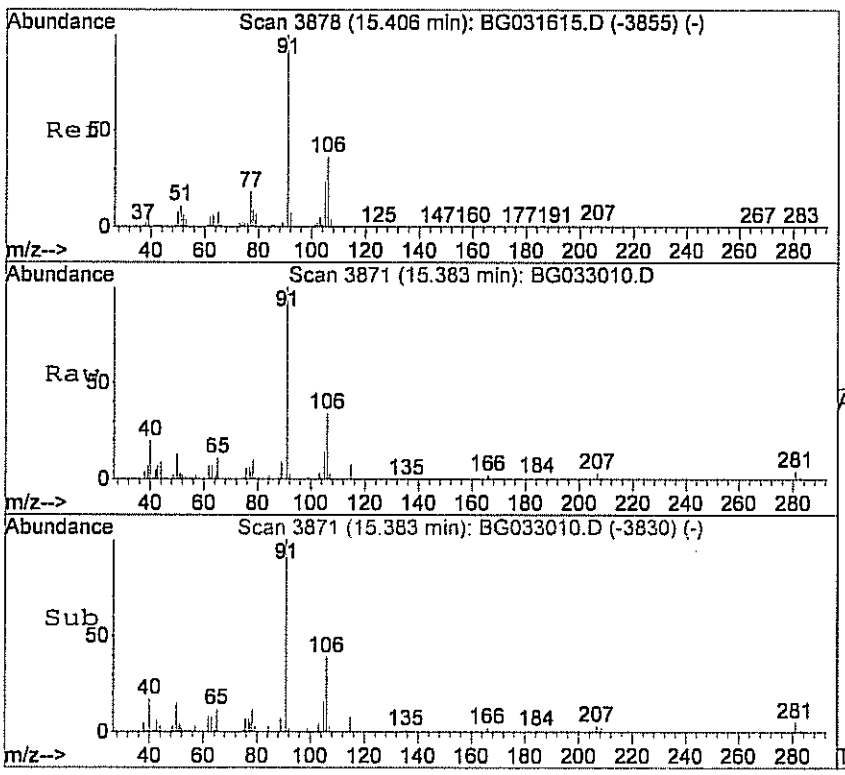


#45
Toluene
Concen: 0.76 ppb
RT: 13.00 min Scan# 3129
Delta R.T. -0.01 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 92 Resp: 34504

Ion	Ratio	Lower	Upper
92	100		
91	186.6	145.8	185.8#

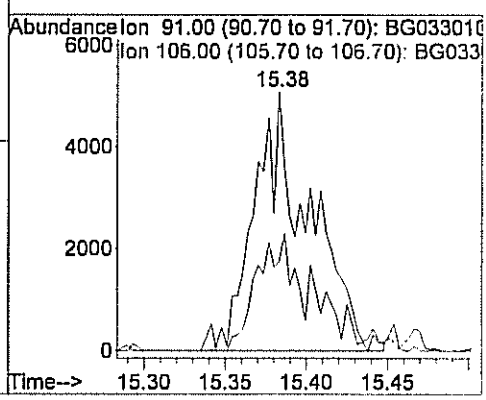




#53
m&p-xylene
Concen: 0.14 ppb
RT: 15.38 min Scan# 3871
Delta R.T. -0.02 min
Lab File: BG033010.D
Acq: 30 Mar 2011 4:28 pm

Tgt Ion: 91 Resp: 11978

Ion	Ratio	Lower	Upper
91	100		
106	43.9	15.6	55.6



Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.31	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Acetone	6.2	3.0		ppbV	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Benzene	1.5	1.5		ppbV	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromodichloromethane	0.38	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon disulfide	1.5	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroform	18	1.5		ppbV	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	0.58	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Cyclohexane	1.8	0.15		ppbV	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.24	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 11	0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 113	0.14	0.15	J	ppbV	1	3/26/2011 2:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 12	0.57	0.15		ppbV	1	3/26/2011 2:56:00 AM
Heptane	0.86	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexane	2.3	1.5		ppbV	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
m&p-Xylene	0.61	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	0.77	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Methylene chloride	0.27	0.15		ppbV	1	3/26/2011 2:56:00 AM
o-Xylene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Toluene	6.8	1.5		ppbV	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Trichloroethene	130	12		ppbV	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
1,1,1-Trichloroethane	1.7	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Acetone	15	7.2		ug/m3	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:56:00 AM
Benzene	4.9	4.9		ug/m3	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:56:00 AM
Bromodichloromethane	2.6	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:56:00 AM
Carbon disulfide	4.8	0.47		ug/m3	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:56:00 AM
Chloroform	91	7.4		ug/m3	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	2.3	0.60		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Cyclohexane	6.2	0.52		ug/m3	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Freon 11	0.86	0.86		ug/m3	1	3/26/2011 2:56:00 AM
Freon 113	1.1	1.2	J	ug/m3	1	3/26/2011 2:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.9	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Heptane	3.6	0.62		ug/m3	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Hexane	8.2	5.4		ug/m3	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:56:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:56:00 AM
Methylene chloride	0.95	0.53		ug/m3	1	3/26/2011 2:56:00 AM
o-Xylene	0.84	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 2:56:00 AM
Toluene	26	5.7		ug/m3	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Trichloroethene	720	66		ug/m3	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032523.D Vial: 10
Acq On : 26 Mar 2011 2:56 am Operator: LL
Sample : C1103055-002A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:04:20 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

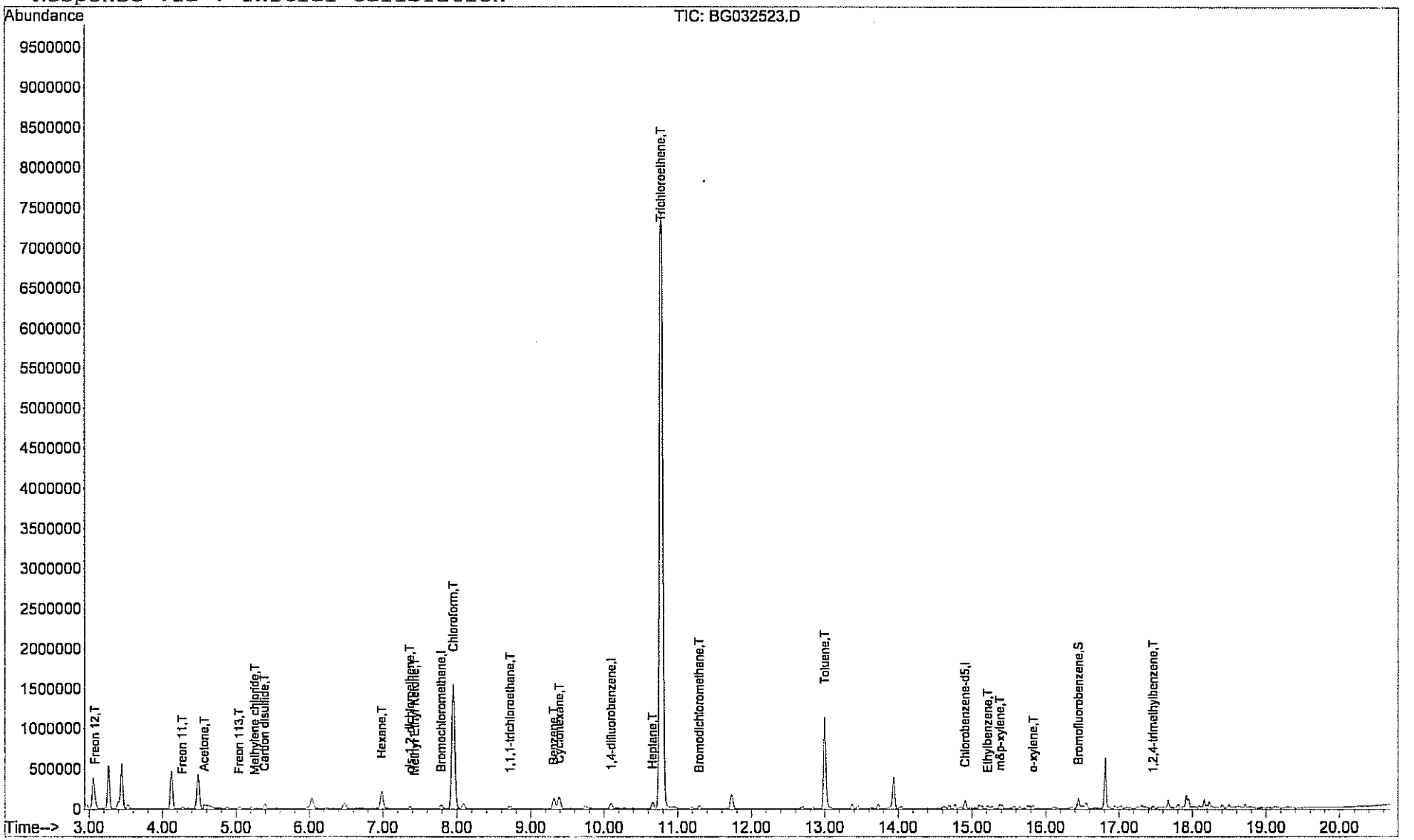
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	17237	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	66011	1.00	ppb		0.01
44) Chlorobenzene-d5	14.91	117	56853	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	39434	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
3) Freon 12	3.09	85	84830	0.57	ppb		99
11) Freon 11	4.27	101	20975 LL	0.15	ppb		94
12) Acetone	4.57	58	47763m	7.47	ppb		
15) Freon 113	5.04	101	9428	0.14	ppb		94
16) Methylene chloride	5.27	84	5634	0.27	ppb		91
18) Carbon disulfide	5.39	76	102832	1.51	ppb		99
23) Methyl Ethyl Ketone	7.44	72	4321m	0.77	ppb		
24) cis-1,2-dichloroethene	7.37	61	19738	0.58	ppb		74
25) Hexane	6.98	57	101617	3.25	ppb	#	77
27) Chloroform	7.95	83	1700153	24.82	ppb		97
31) 1,1,1-trichloroethane	8.71	97	32809	0.31	ppb		95
32) Cyclohexane	9.39	56	60849	1.76	ppb	#	81
34) Benzene	9.32	78	147939	2.16	ppb		93
37) Heptane	10.67	43	36239	0.86	ppb		88
38) Trichloroethene	10.78	130	3643858	83.78	ppb		93
40) Bromodichloromethane	11.29	83	30636	0.38	ppb		89
45) Toluene	13.00	92	497826	10.67	ppb		89
52) Ethylbenzene	15.21	91	24753	0.24	ppb		93
53) m&p-xylene	15.38	91	52920	0.61	ppb		84
56) o-xylene	15.83	91	16996	0.19	ppb		95
61) 1,2,4-trimethylbenzene	17.47	105	13088	0.19	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

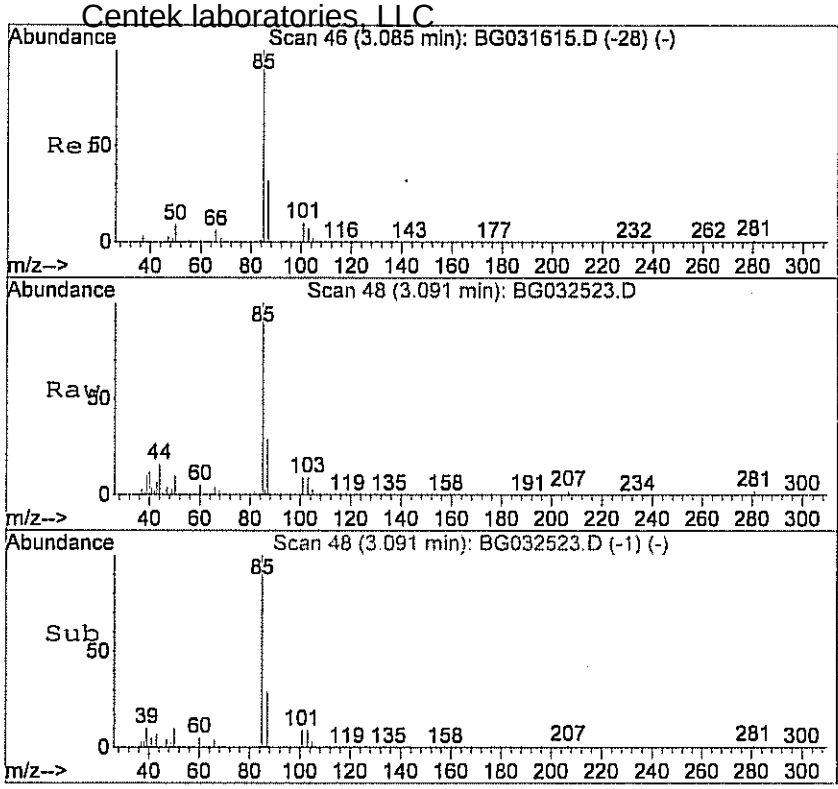
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032523.D Vial: 10
Acq On : 26 Mar 2011 2:56 am Operator: LL
Sample : C1103055-002A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:08 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



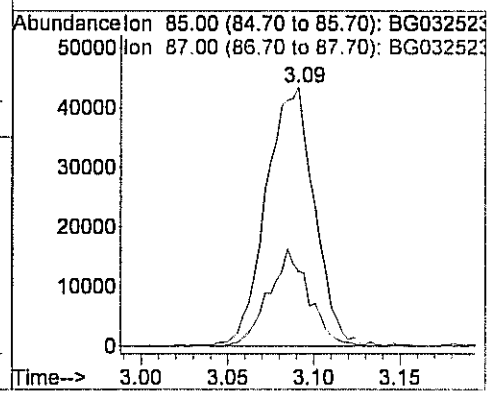
Centek laboratories, LLC

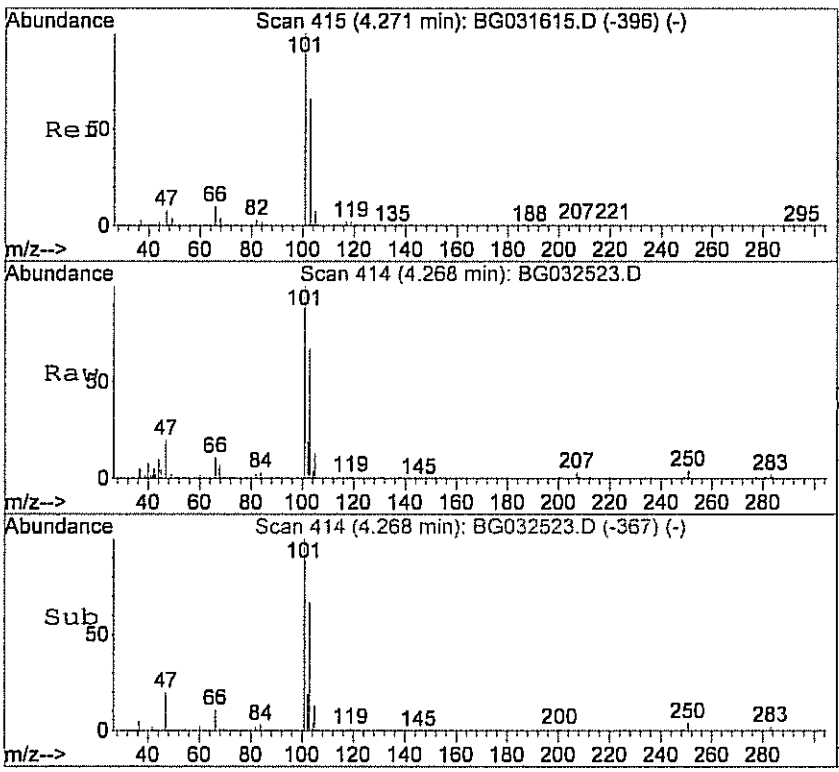


#3
Freon 12
Concen: 0.57 ppb
RT: 3.09 min Scan# 48
Delta R.T. 0.01 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 85 Resp: 84830

Ion	Ratio	Lower	Upper
85	100		
87	31.1	10.7	50.7

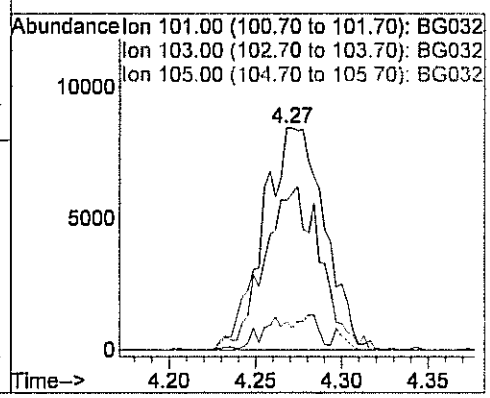


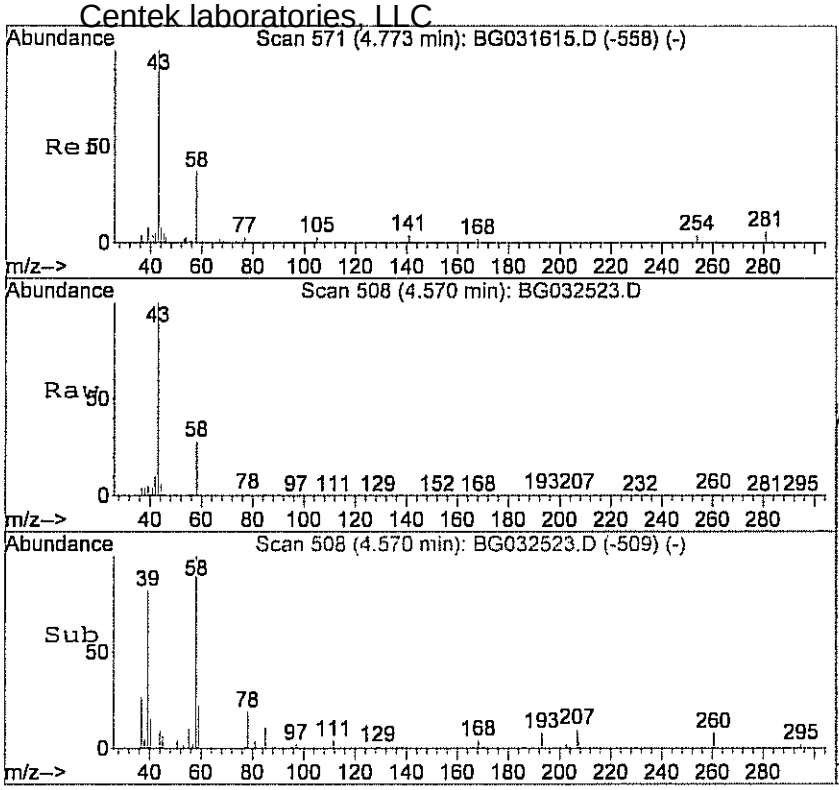


#11
Freon 11
Concen: 0.15 ppb
RT: 4.27 min Scan# 414
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion:101 Resp: 20975

Ion	Ratio	Lower	Upper
101	100		
103	66.9	42.4	82.4
105	12.4	0.0	29.9

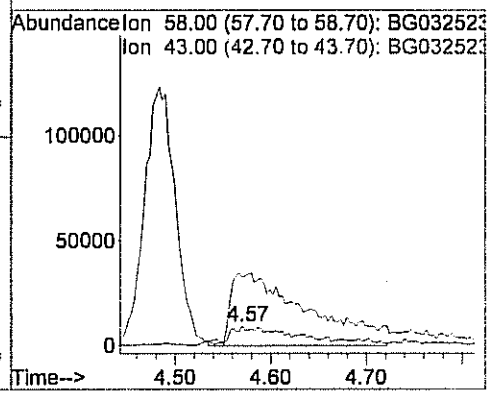


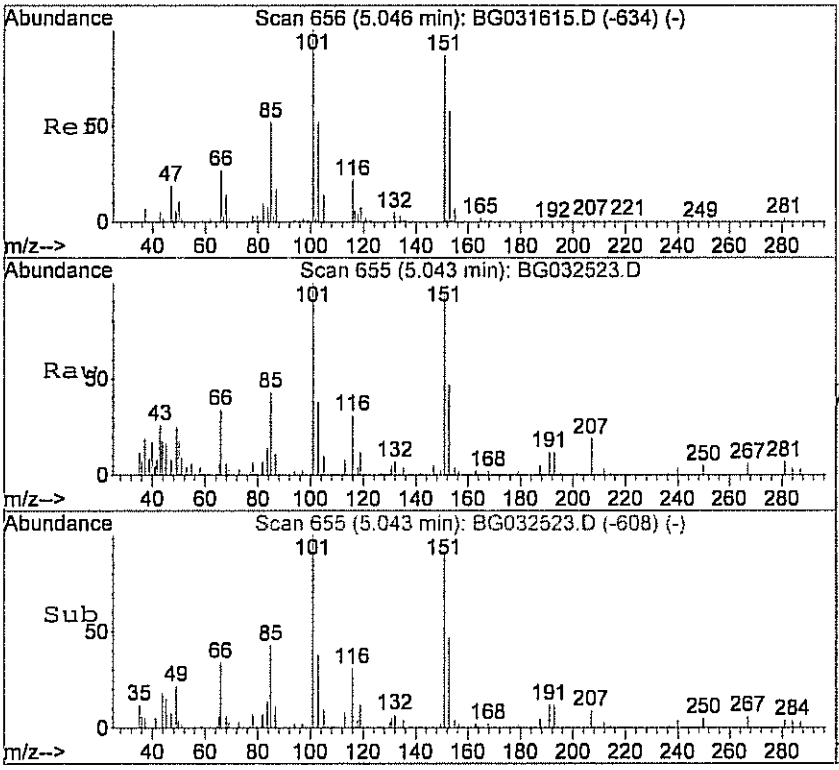


#12
Acetone
Concen: 7.47 ppb m
RT: 4.57 min Scan# 508
Delta R.T. -0.15 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 58 Resp: 47763

Ion	Ratio	Lower	Upper
58	100		
43	0.0	381.2	441.2#

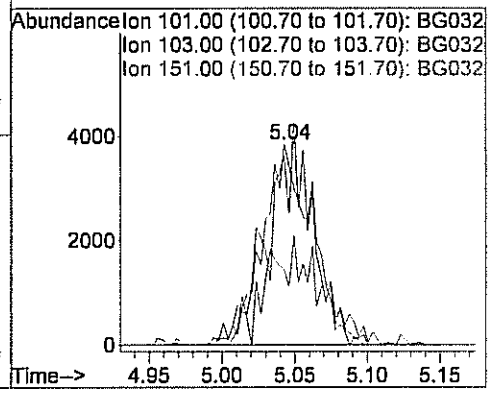


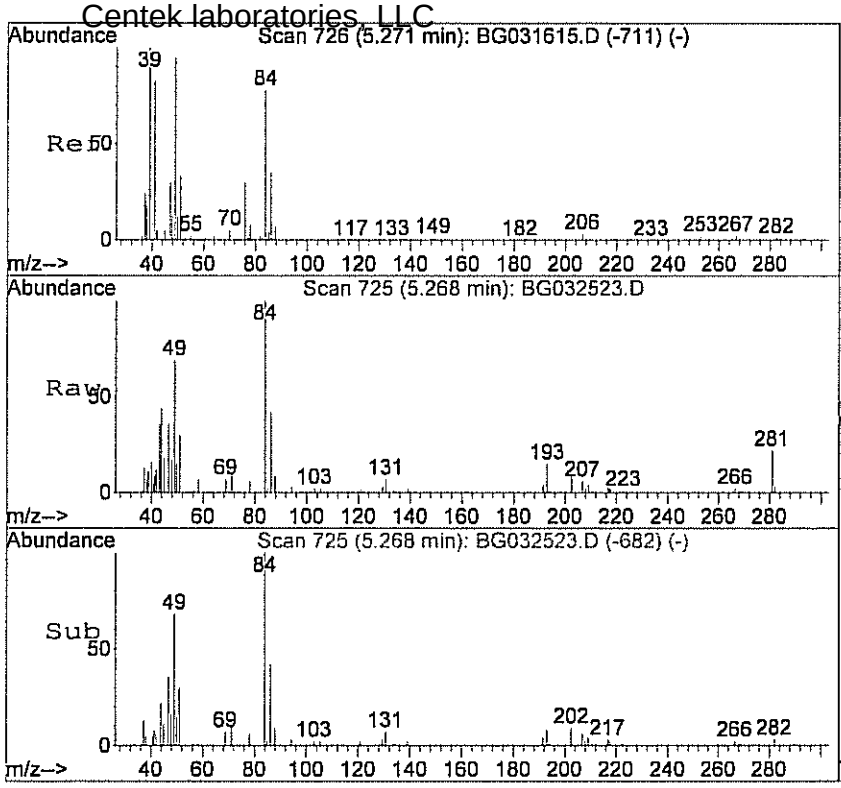


#15
Freon 113
Concen: 0.14 ppb
RT: 5.04 min Scan# 655
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion:101 Resp: 9428

Ion	Ratio	Lower	Upper
101	100		
103	48.9	37.2	77.2
151	71.2	52.4	92.4

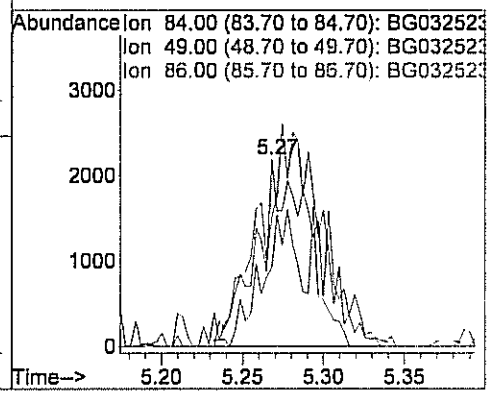


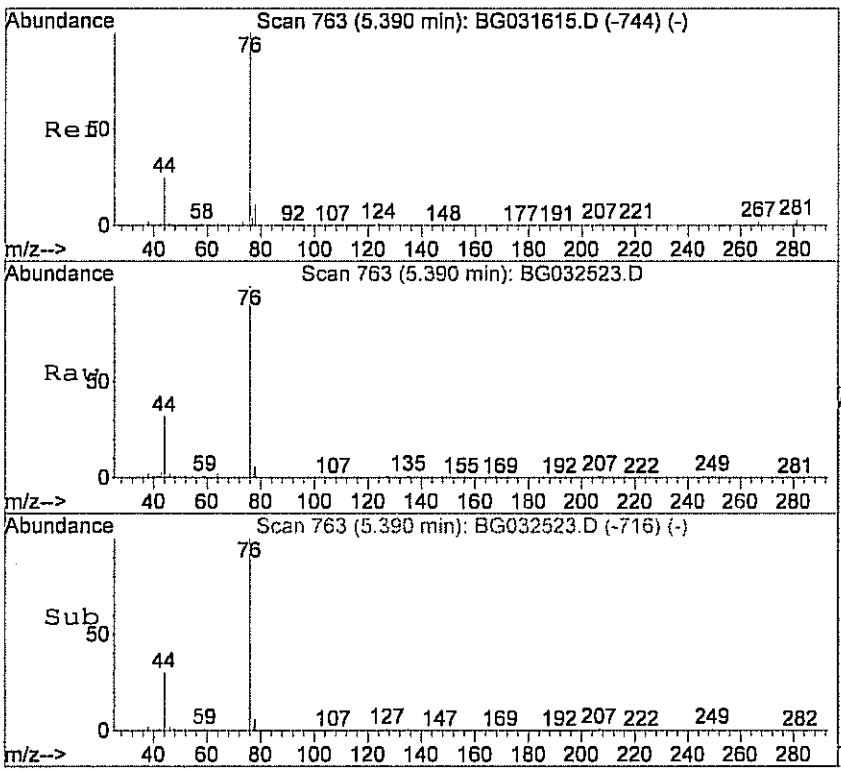


#16
Methylene chloride
Concen: 0.27 ppb
RT: 5.27 min Scan# 725
Delta R.T. -0.01 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 84 Resp: 5634

Ion	Ratio	Lower	Upper
84	100		
49	118.7	111.4	151.4
86	56.2	39.2	79.2

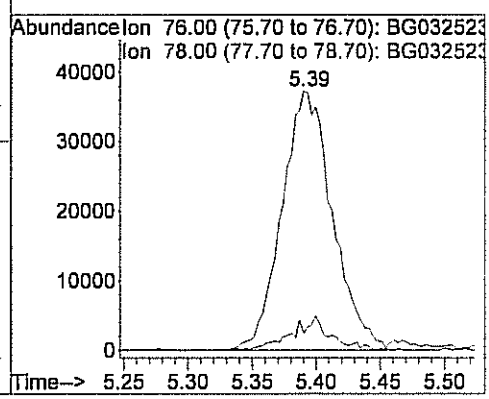


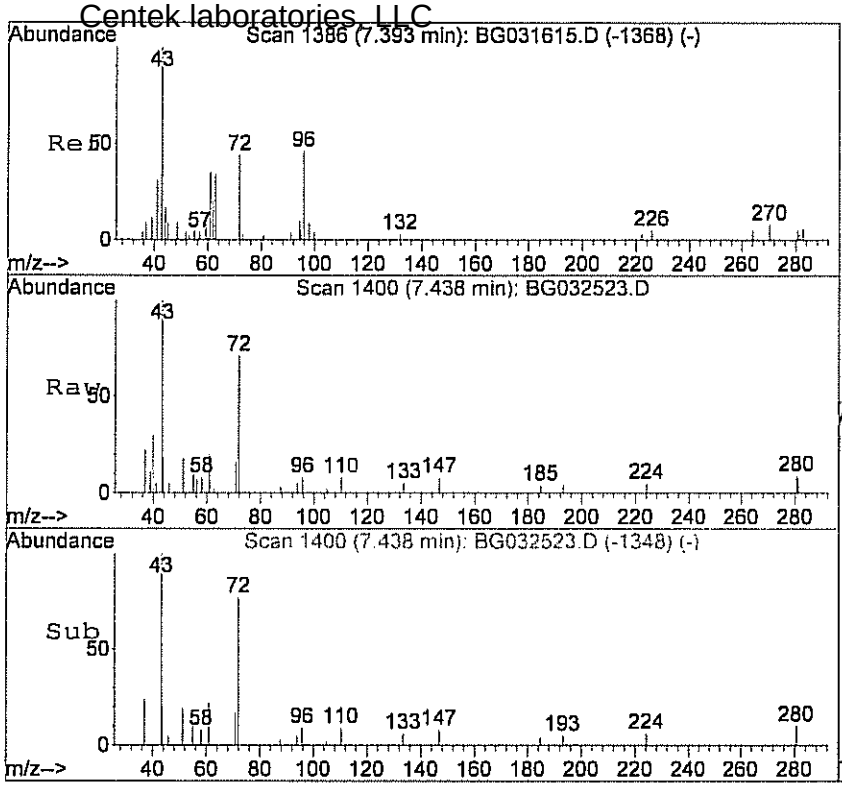


#18
Carbon disulfide
Concen: 1.51 ppb
RT: 5.39 min Scan# 763
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 76 Resp: 102832

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	30.0

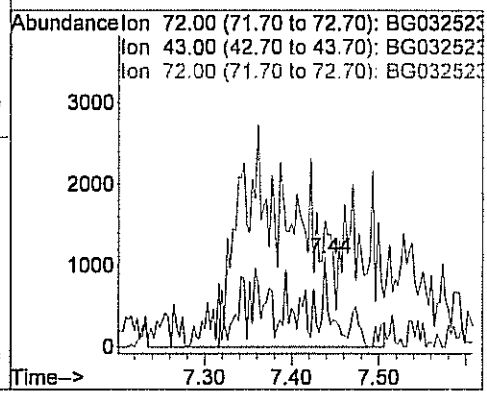


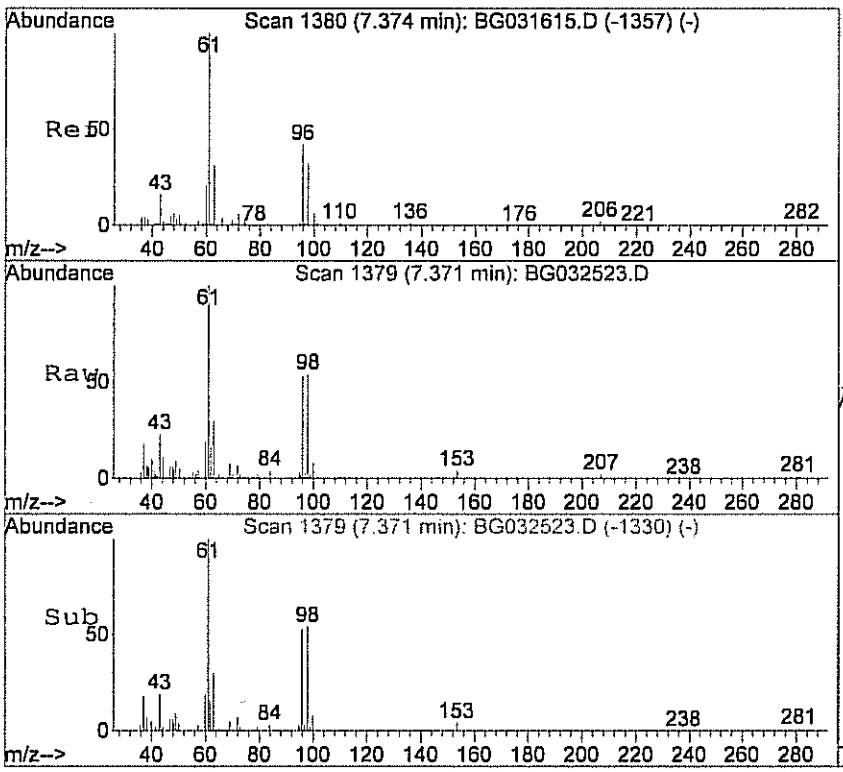


#23
Methyl Ethyl Ketone
Concen: 0.77 ppb m
RT: 7.44 min Scan# 1400
Delta R.T. 0.02 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 72 Resp: 4321

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	9.4	80.0	120.0#

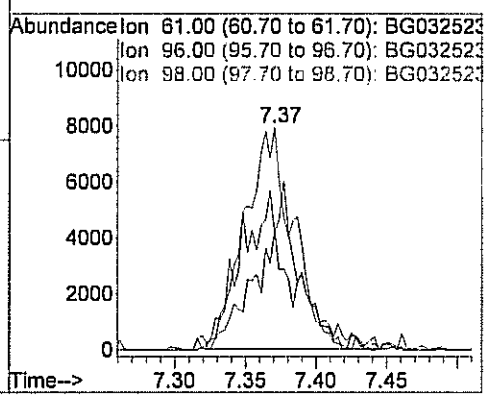


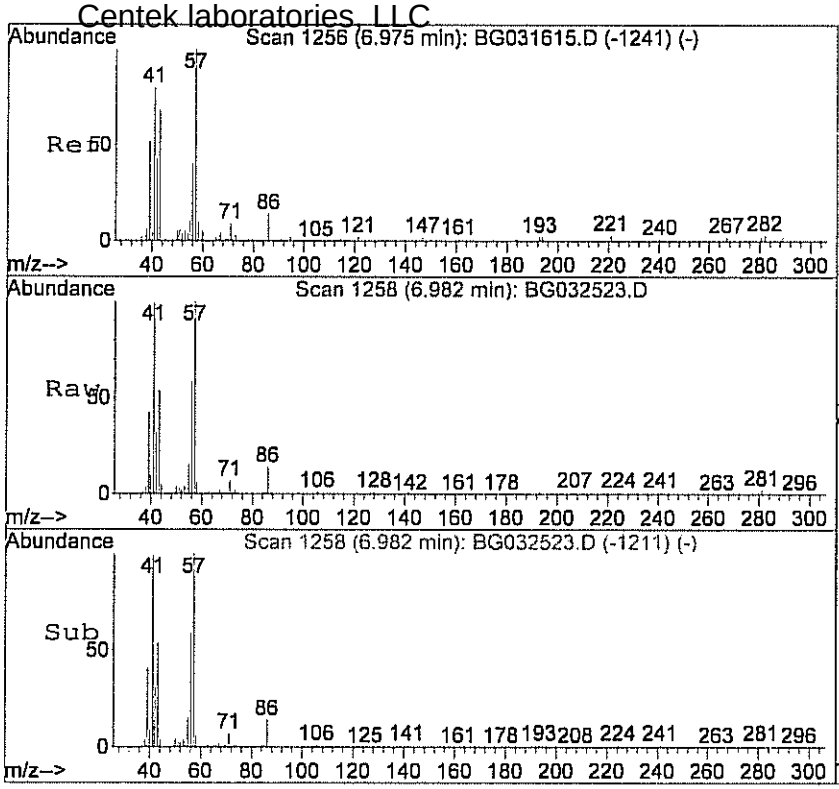


#24
cis-1,2-dichloroethene
Concen: 0.58 ppb
RT: 7.37 min Scan# 1379
Delta R.T. 0.01 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 61 Resp: 19738

Ion	Ratio	Lower	Upper
61	100		
96	77.5	40.4	80.4
98	50.1	11.6	51.6

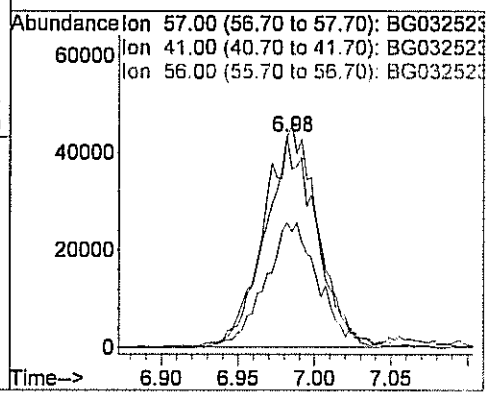


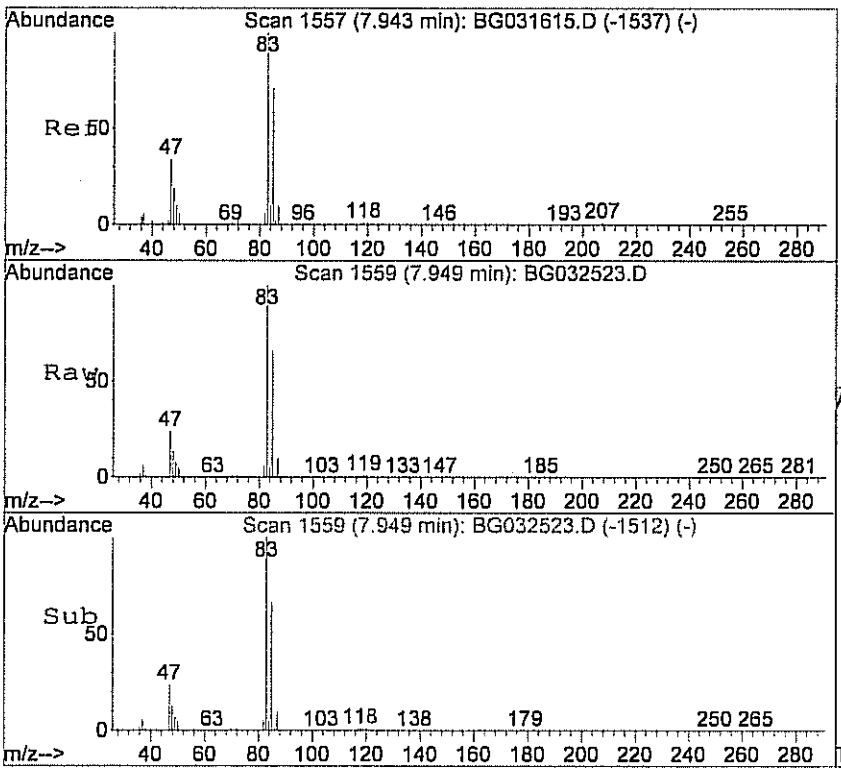


#25
Hexane
Concen: 3.25 ppb
RT: 6.98 min Scan# 1258
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 57 Resp: 101617

Ion	Ratio	Lower	Upper
57	100		
41	112.8	69.7	109.7#
56	62.2	28.5	68.5

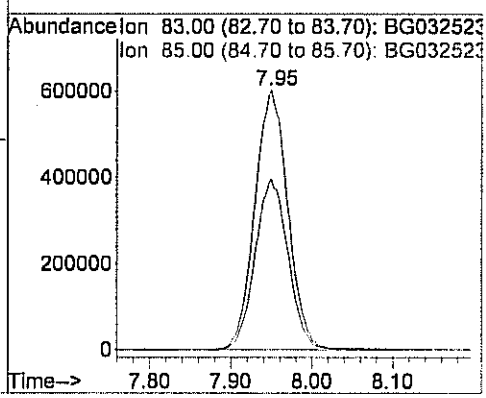


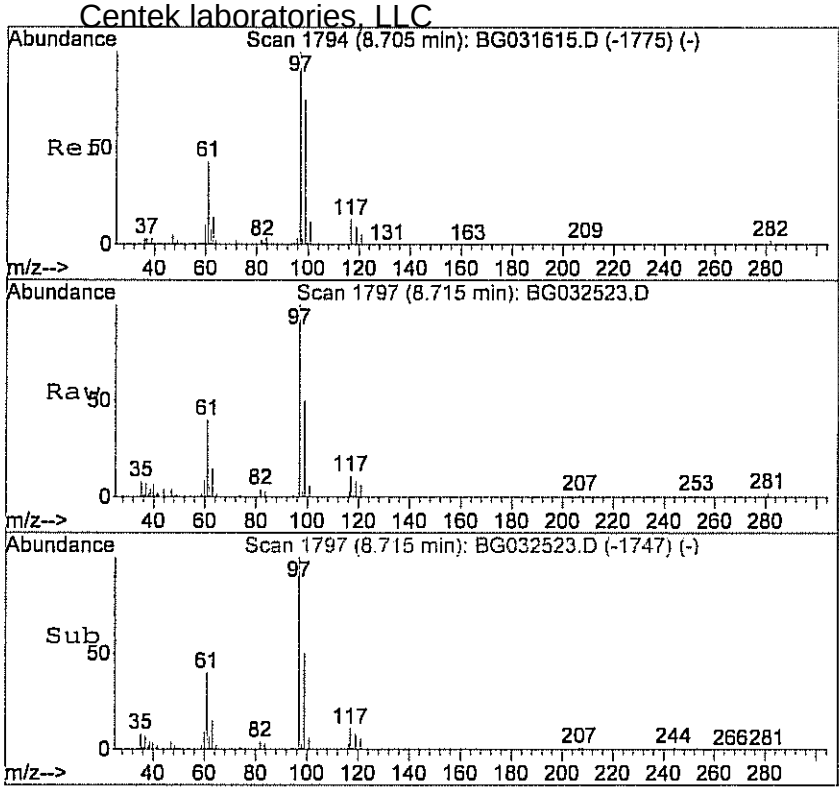


#27
Chloroform
Concen: 24.82 ppb
RT: 7.95 min Scan# 1559
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 83 Resp: 1700153

Ion	Ratio	Lower	Upper
83	100		
85	65.8	43.8	83.8

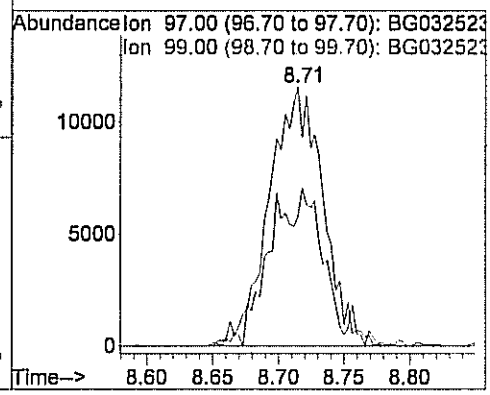


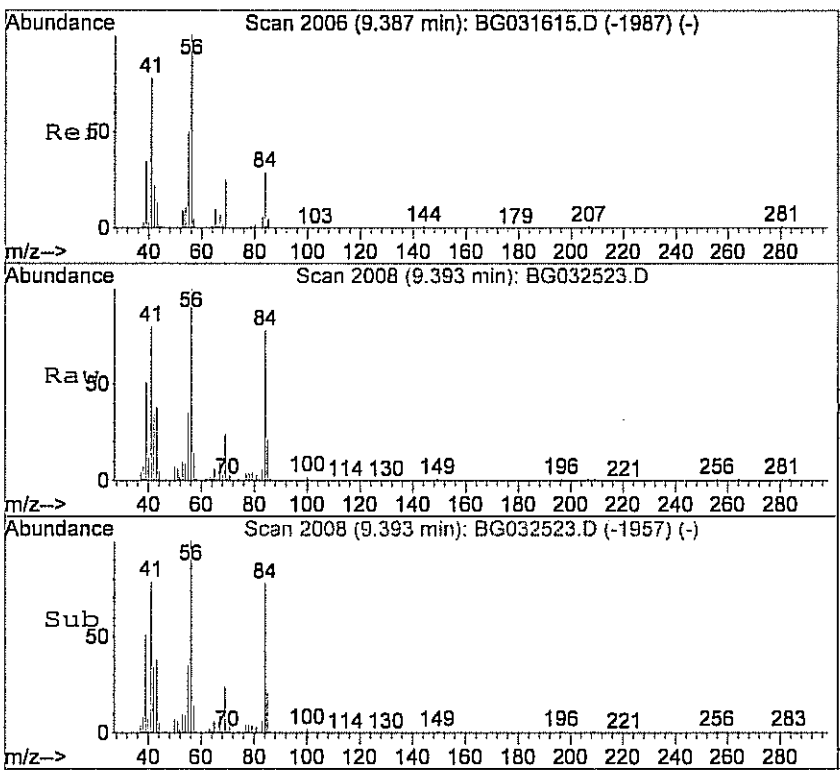


#31
1,1,1-trichloroethane
Concen: 0.31 ppb
RT: 8.71 min Scan# 1797
Delta R.T. 0.01 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 97 Resp: 32809

Ion	Ratio	Lower	Upper
97	100		
99	59.5	36.0	76.0

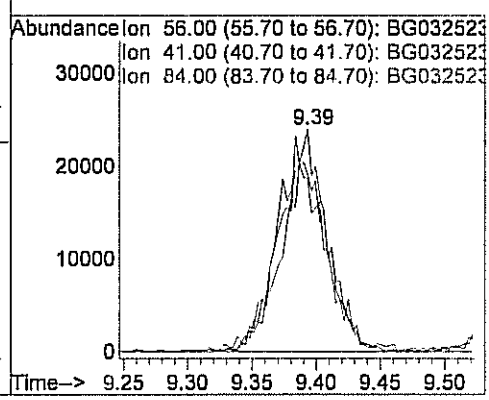


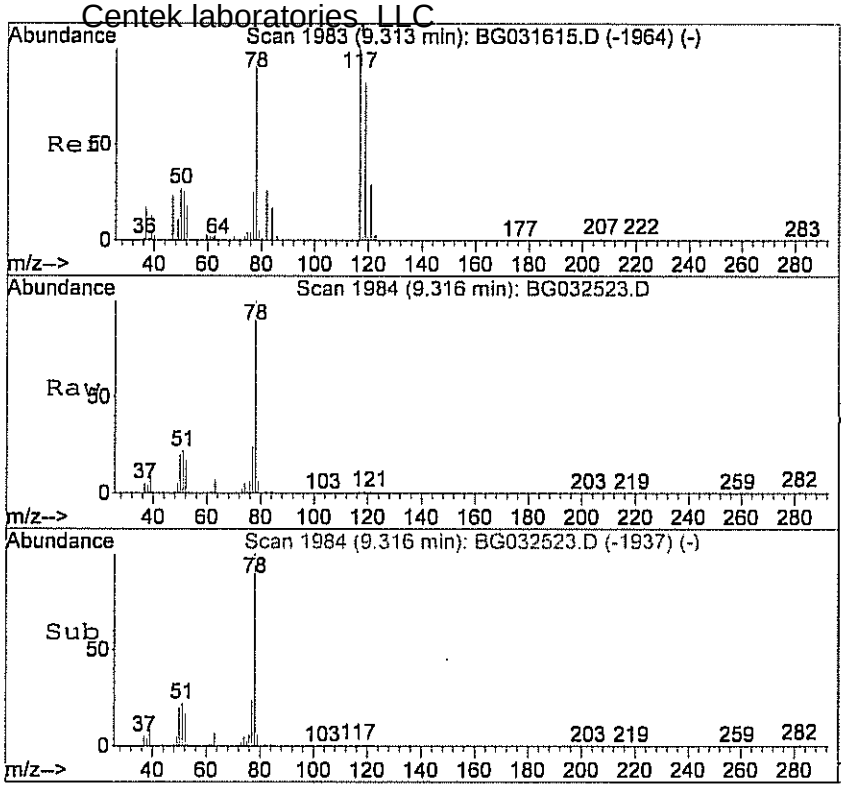


#32
Cyclohexane
Concen: 1.76 ppb
RT: 9.39 min Scan# 2008
Delta R.T. 0.01 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 56 Resp: 60849

Ion	Ratio	Lower	Upper
56	100		
41	97.2	46.6	86.6#
84	82.7	59.9	99.9

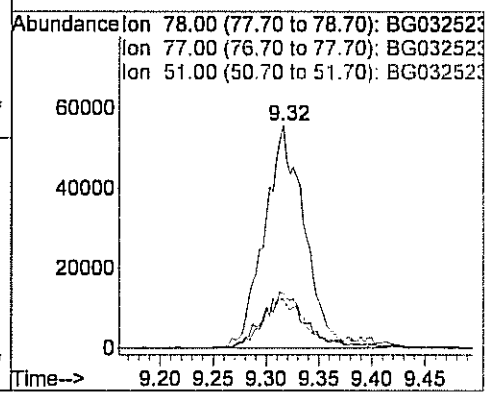


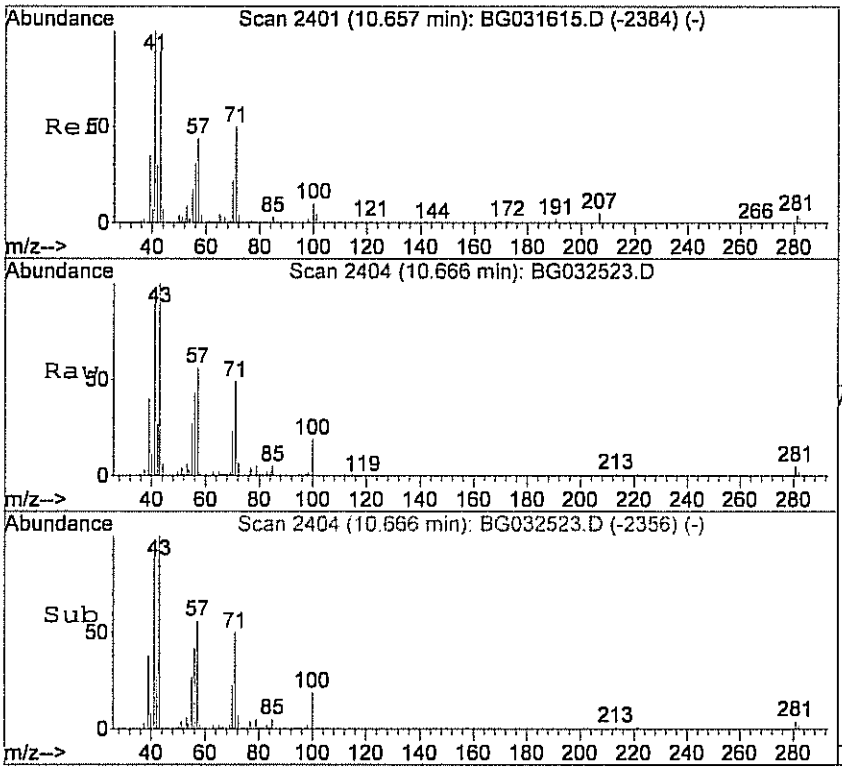


#34
Benzene
Concen: 2.16 ppb
RT: 9.32 min Scan# 1984
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 78 Resp: 147939

Ion	Ratio	Lower	Upper
78	100		
77	26.5	4.6	44.6
51	26.8	1.9	41.9

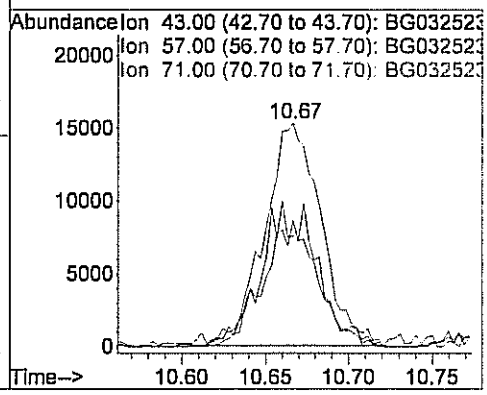


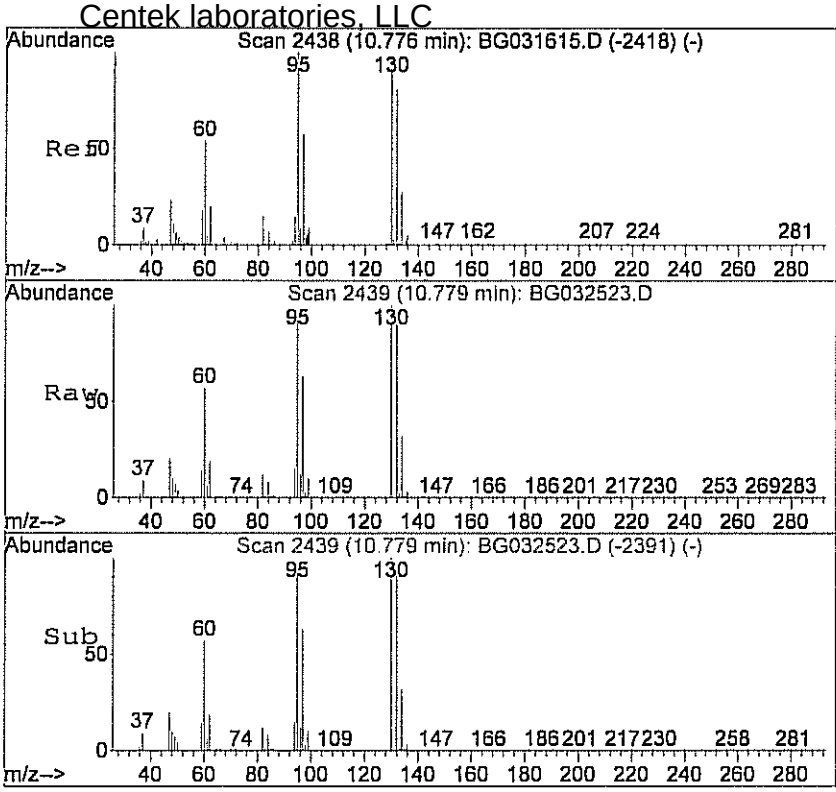


#37
Heptane
Concen: 0.86 ppb
RT: 10.67 min Scan# 2404
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 43 Resp: 36239

Ion	Ratio	Lower	Upper
43	100		
57	55.0	29.2	69.2
71	62.9	32.6	72.6

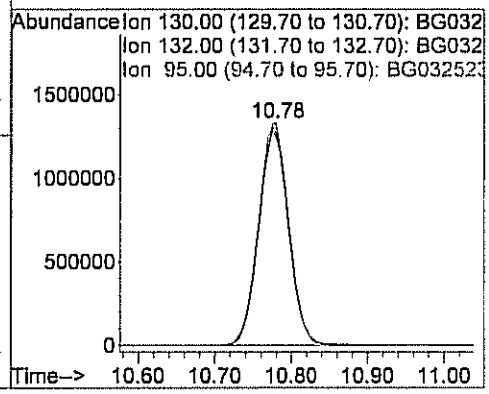


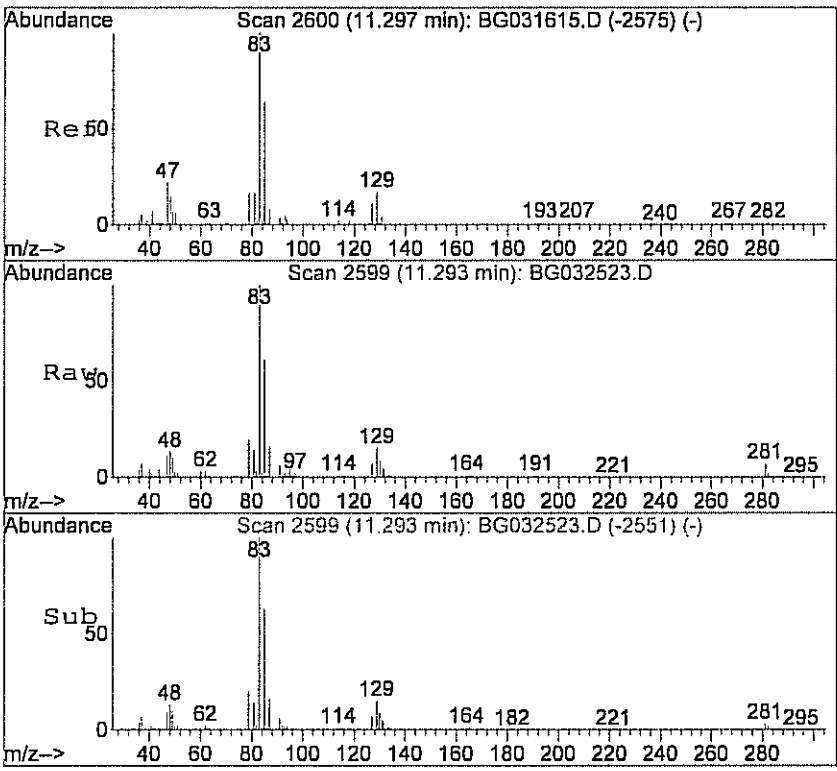


#38
Trichloroethene
Concen: 83.78 ppb
RT: 10.78 min Scan# 2439
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion:130 Resp: 3643858

Ion	Ratio	Lower	Upper
130	100		
132	97.0	74.9	114.9
95	97.1	89.5	129.5

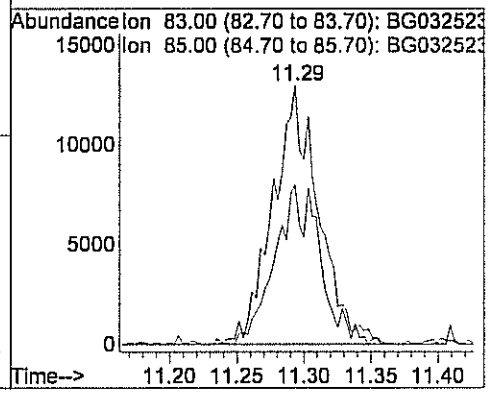


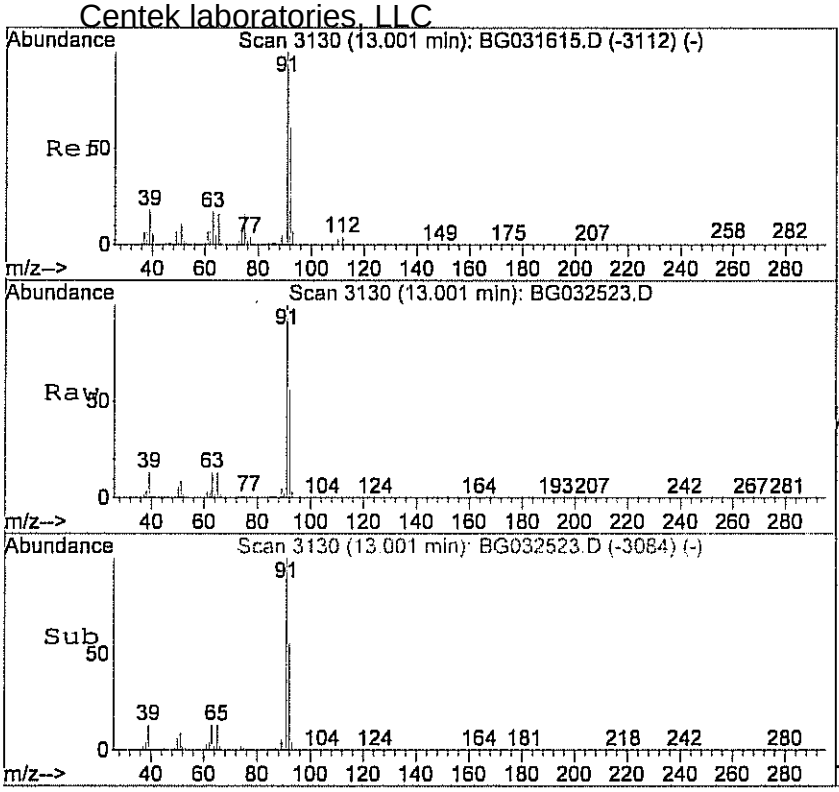


#40
Bromodichloromethane
Concen: 0.38 ppb
RT: 11.29 min Scan# 2599
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 83 Resp: 30636

Ion	Ratio	Lower	Upper
83	100		
85	60.8	49.4	89.4

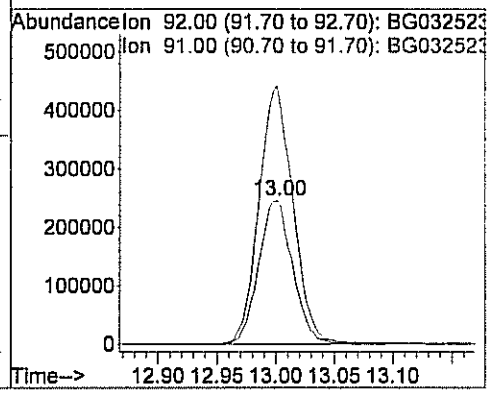


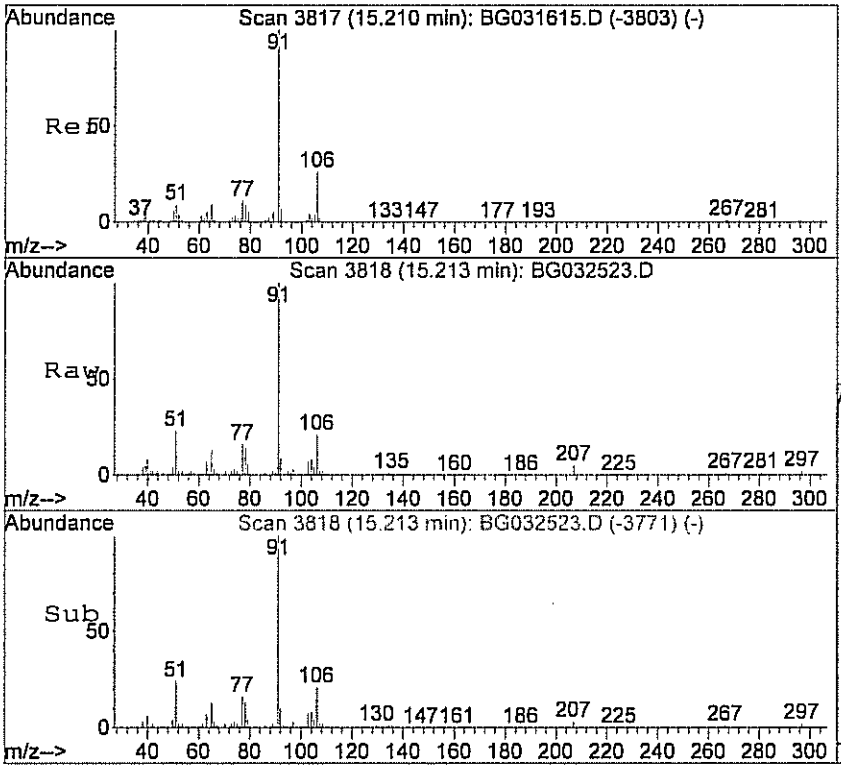


#45
Toluene
Concen: 10.67 ppb
RT: 13.00 min Scan# 3130
Delta R.T. -0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 92 Resp: 497826

Ion	Ratio	Lower	Upper
92	100		
91	180.0	145.8	185.8

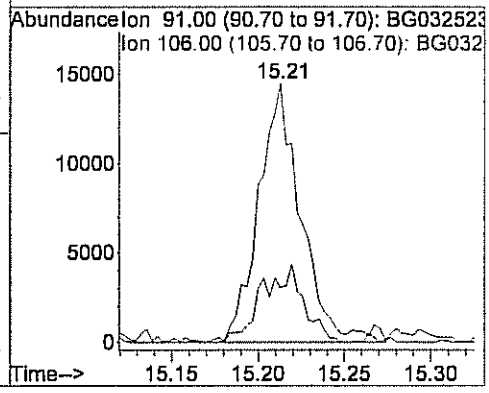


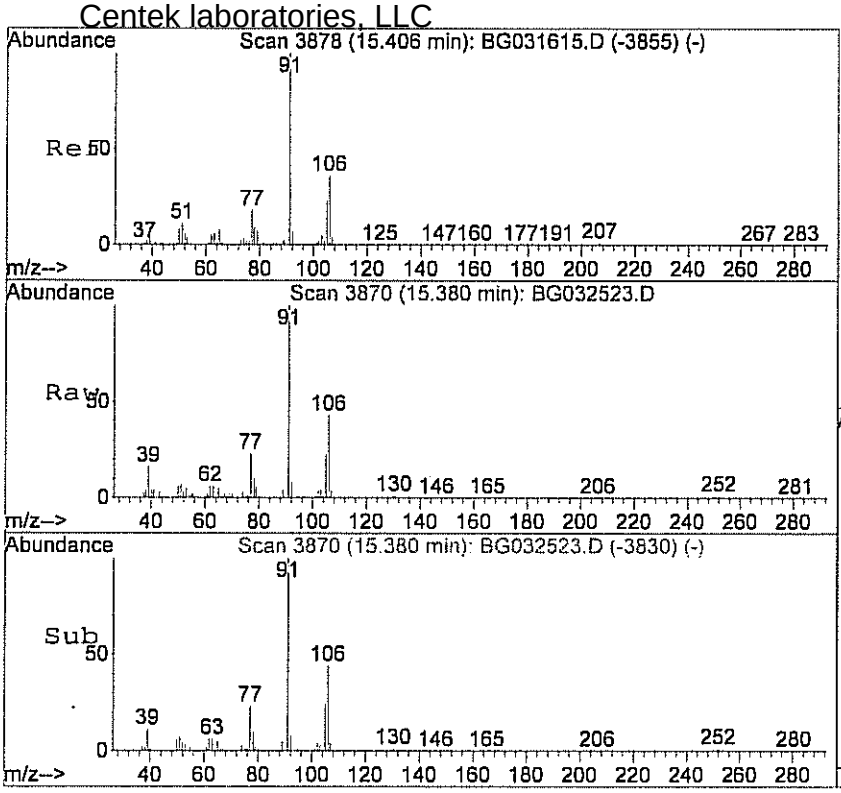


#52
Ethylbenzene
Concen: 0.24 ppb
RT: 15.21 min Scan# 3818
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 91 Resp: 24753

Ion	Ratio	Lower	Upper
91	100		
106	29.1	5.5	45.5

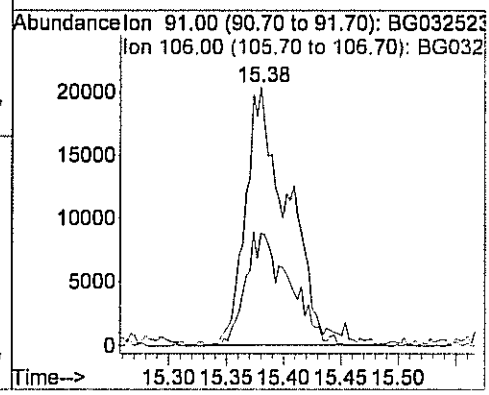


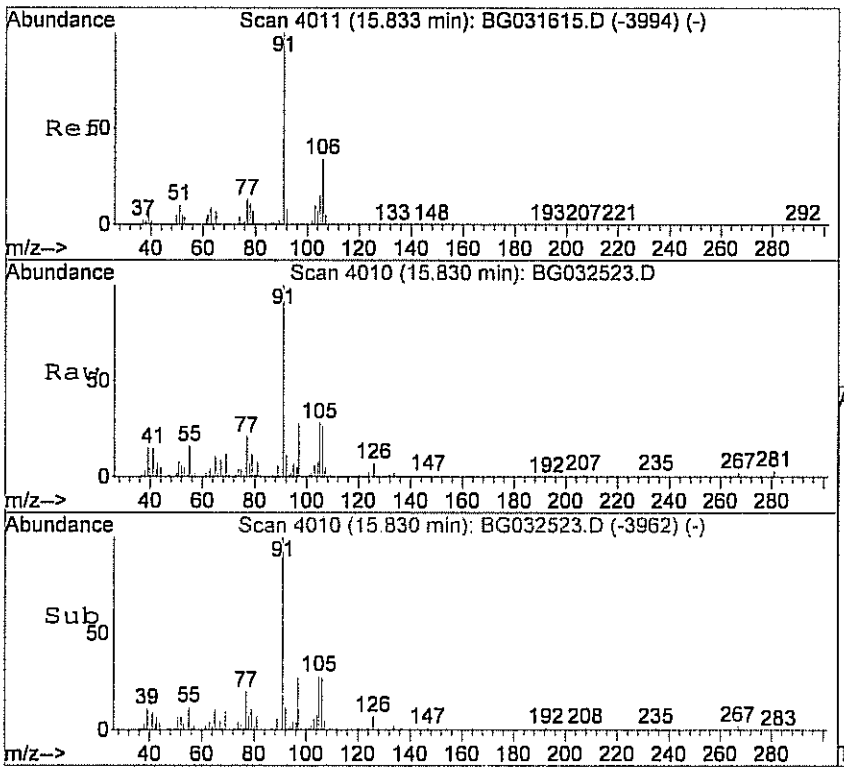


#53
m&p-xylene
Concen: 0.61 ppb
RT: 15.38 min Scan# 3870
Delta R.T. -0.02 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 91 Resp: 52920

Ion	Ratio	Lower	Upper
91	100		
106	45.1	15.6	55.6

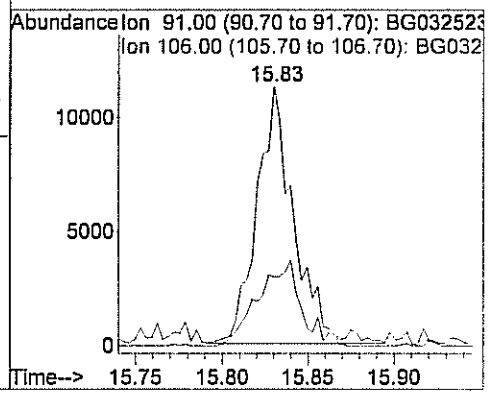


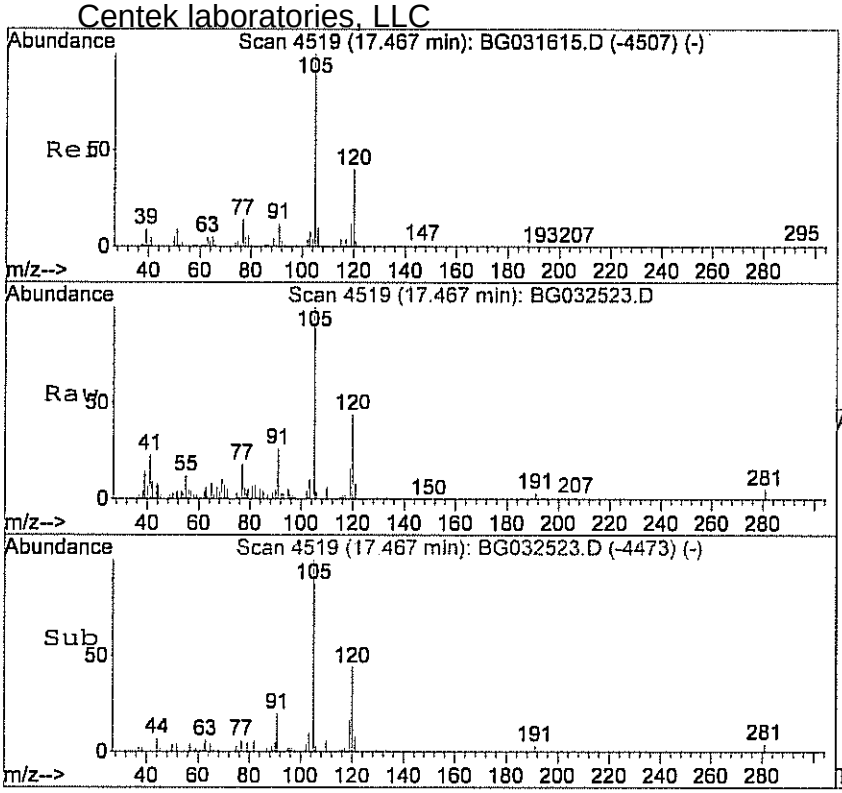


#56
o-xylene
Concen: 0.19 ppb
RT: 15.83 min Scan# 4010
Delta R.T. 0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion: 91 Resp: 16996

Ion	Ratio	Lower	Upper
91	100		
106	38.0	20.9	60.9

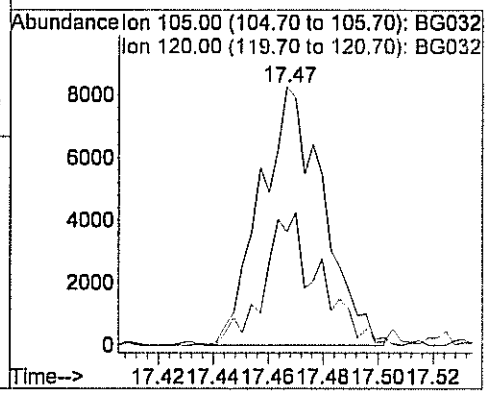




#61
1,2,4-trimethylbenzene
Concen: 0.19 ppb
RT: 17.47 min Scan# 4519
Delta R.T. -0.00 min
Lab File: BG032523.D
Acq: 26 Mar 2011 2:56 am

Tgt Ion:105 Resp: 13088

Ion	Ratio	Lower	Upper
105	100		
120	44.5	21.2	61.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033011.D Vial: 11
Acq On : 30 Mar 2011 5:06 pm Operator: LL
Sample : C1103055-002A 10X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:16:56 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

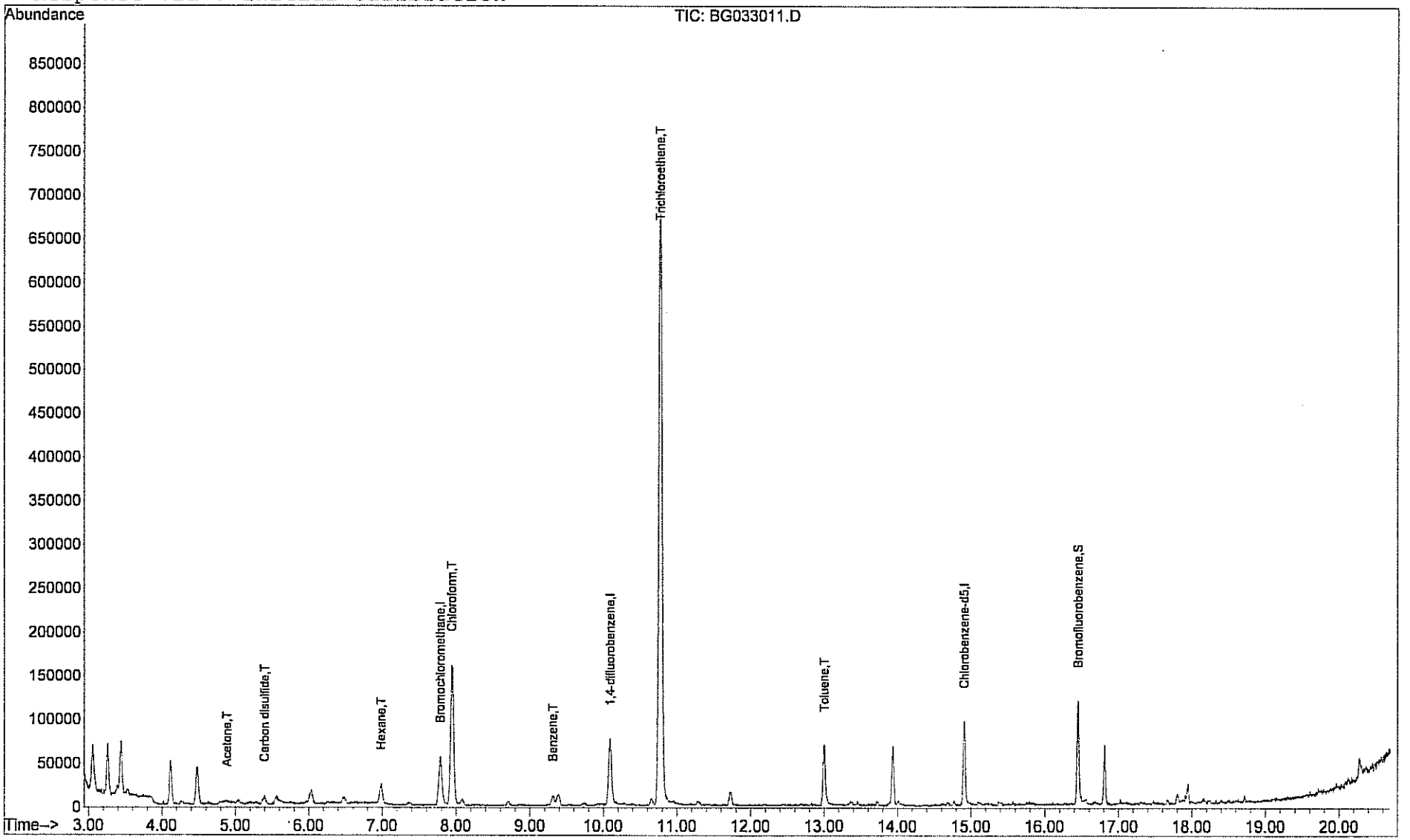
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.79	128	23704	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.10	114	78027	1.00	ppb	0.00
44) Chlorobenzene-d5	14.90	117	57180	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	37027	0.81	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%			
Target Compounds						Qvalue
12) Acetone	4.89	58	5438m	0.62	ppb	
18) Carbon disulfide	5.40	76	17354	0.19	ppb	97
25) Hexane	6.99	57	10053m	0.23	ppb	
27) Chloroform	7.95	83	172627	1.83	ppb	98
34) Benzene	9.31	78	12022	0.15	ppb	87
38) Trichloroethene	10.77	130	343799	6.69	ppb	93
45) Toluene	13.00	92	31878	0.68	ppb	96

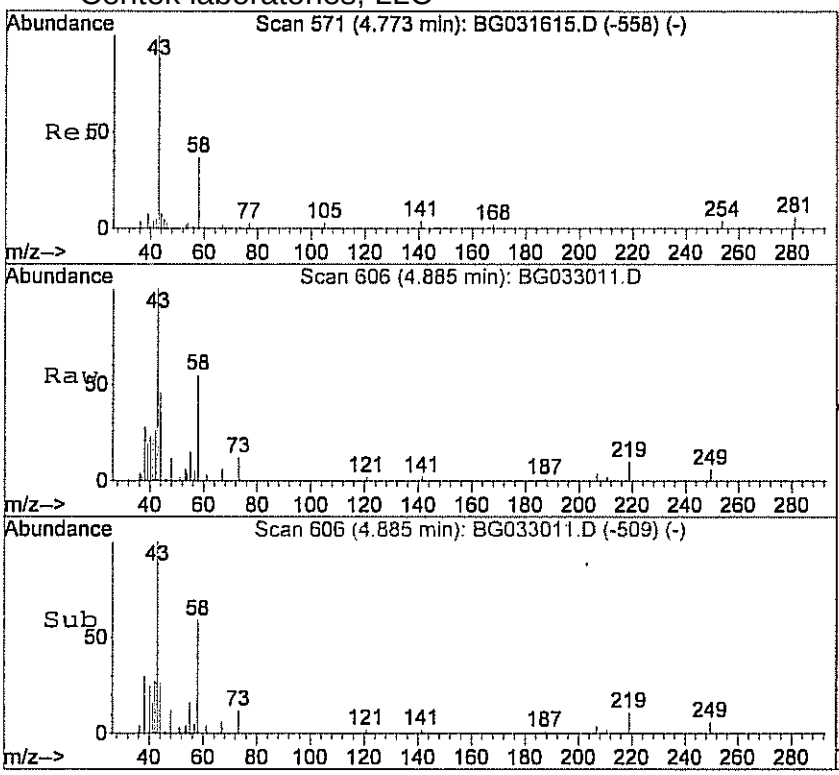
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033011.D Vial: 11
Acq On : 30 Mar 2011 5:06 pm Operator: LL
Sample : C1103055-002A 10X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:19 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

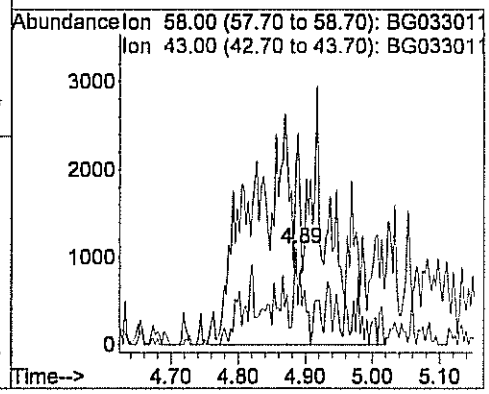


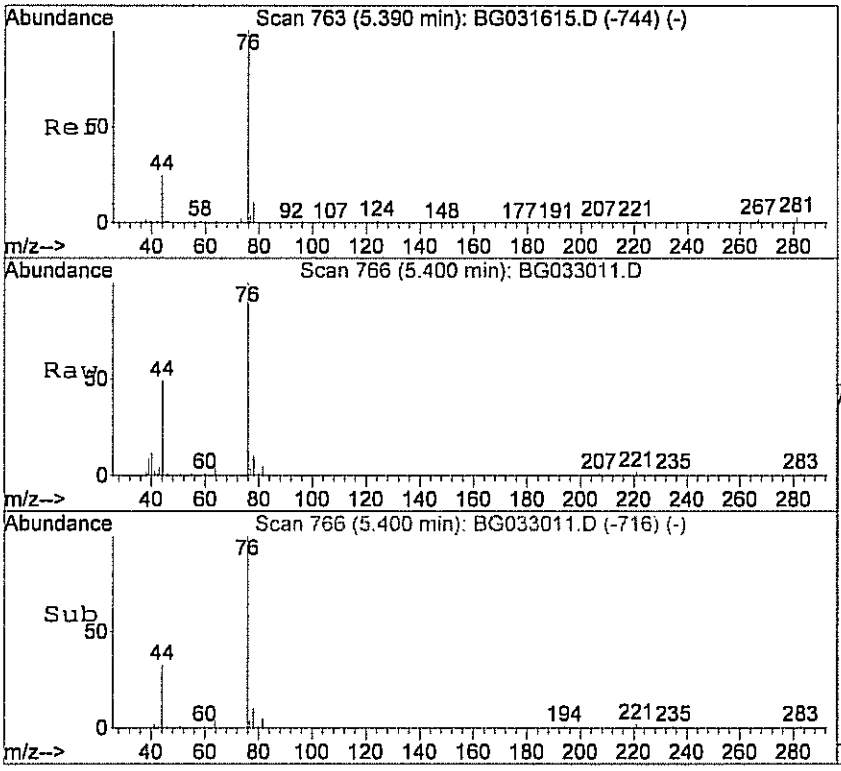


#12
Acetone
Concen: 0.62 ppb m
RT: 4.89 min Scan# 606
Delta R.T. 0.16 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 58 Resp: 5438

Ion	Ratio	Lower	Upper
58	100		
43	0.0	381.2	441.2#

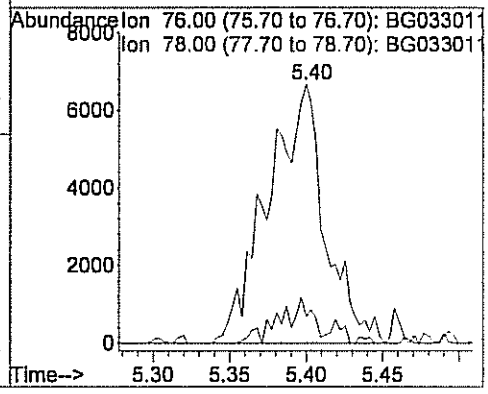


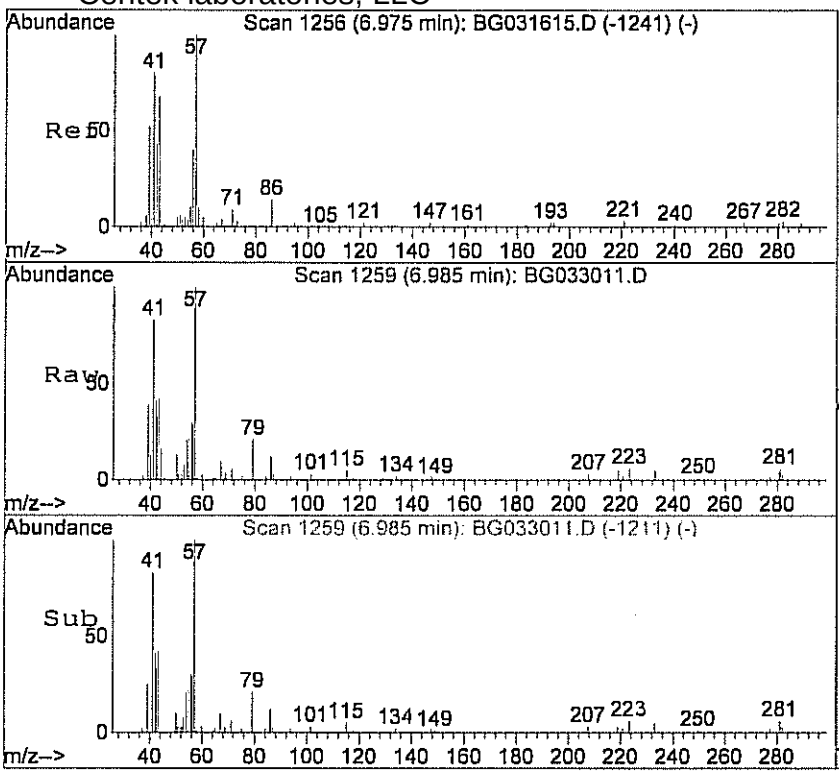


#18
Carbon disulfide
Concen: 0.19 ppb
RT: 5.40 min Scan# 766
Delta R.T. 0.01 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 76 Resp: 17354

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	30.0

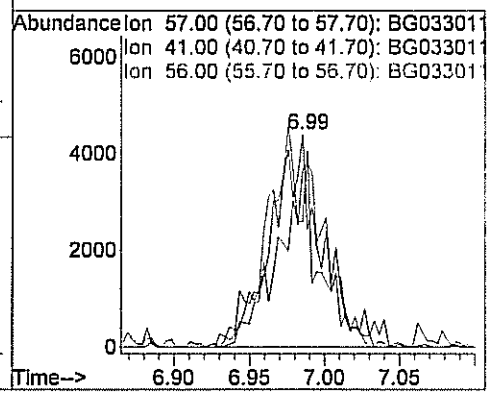


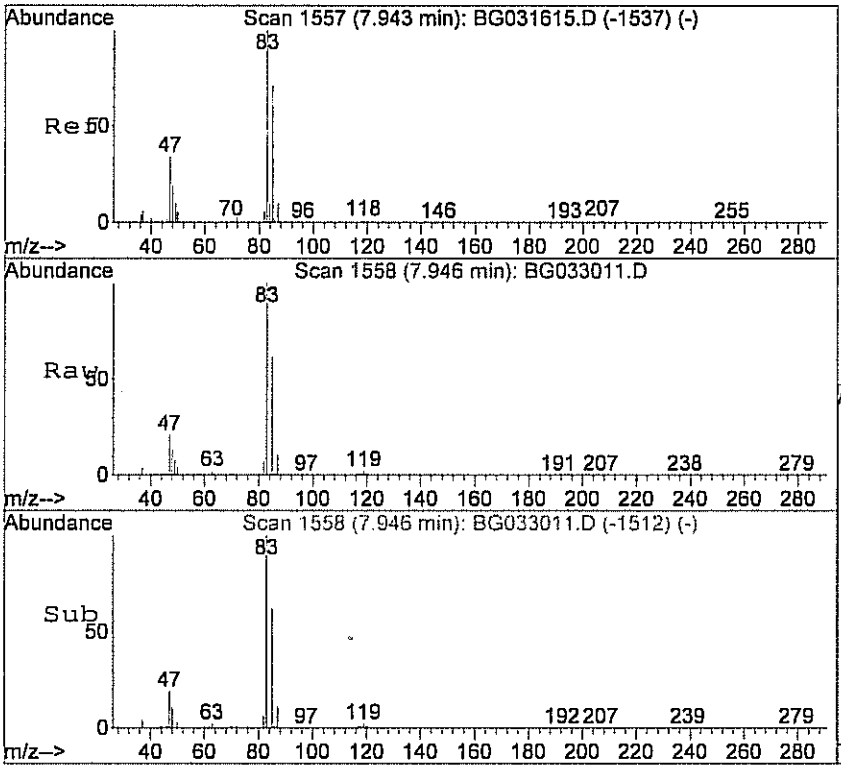


#25
Hexane
Concen: 0.23 ppb m
RT: 6.99 min Scan# 1259
Delta R.T. 0.00 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 57 Resp: 10053

Ion	Ratio	Lower	Upper
57	100		
41	106.7	69.7	109.7
56	73.5	28.5	68.5#

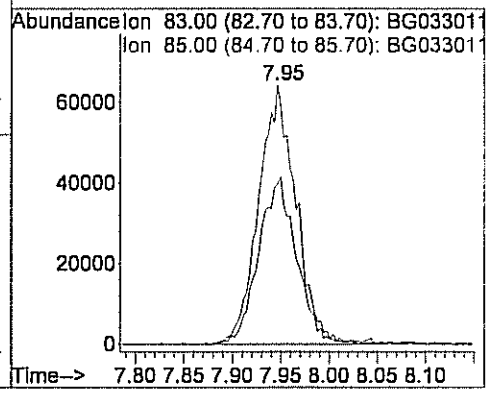


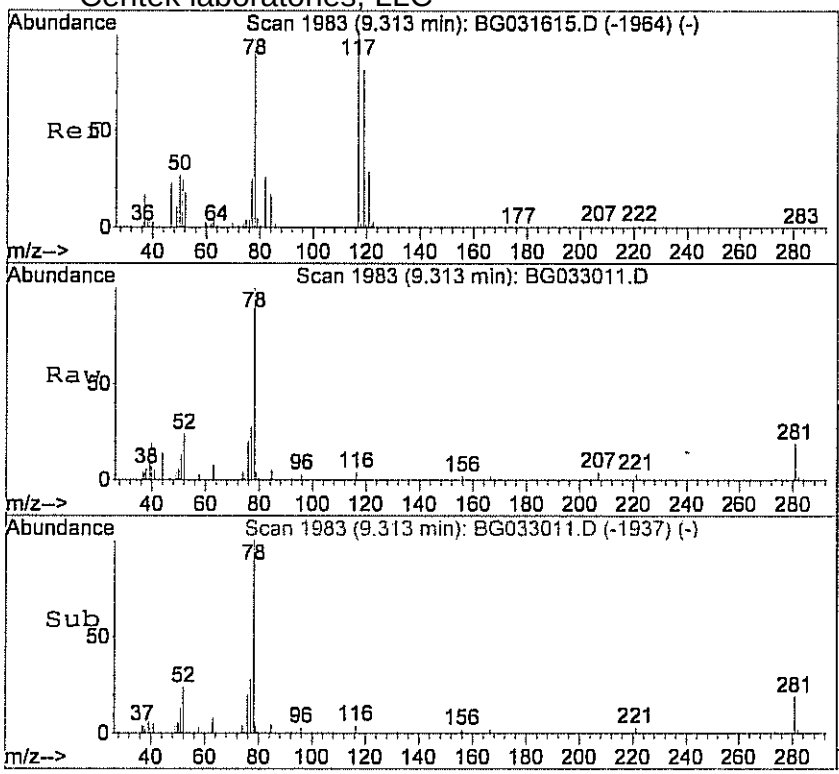


#27
Chloroform
Concen: 1.83 ppb
RT: 7.95 min Scan# 1558
Delta R.T. -0.00 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 83 Resp: 172627

Ion	Ratio	Lower	Upper
83	100		
85	65.3	43.8	83.8

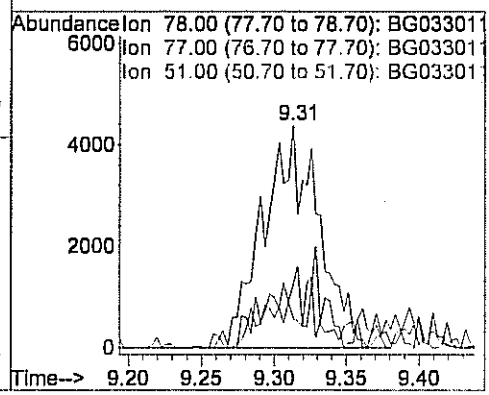


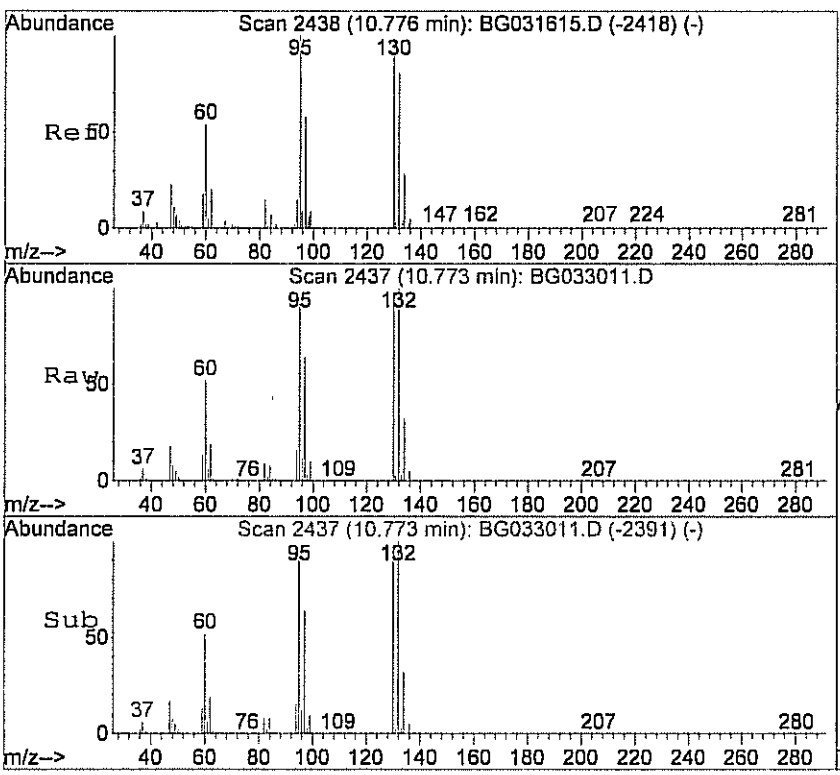


#34
Benzene
Concen: 0.15 ppb
RT: 9.31 min Scan# 1983
Delta R.T. -0.00 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 78 Resp: 12022

Ion	Ratio	Lower	Upper
78	100		
77	29.2	4.6	44.6
51	13.8	1.9	41.9

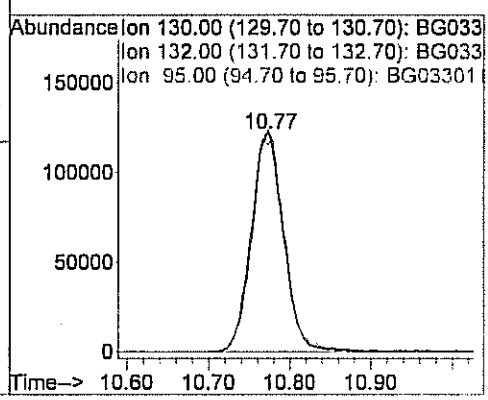


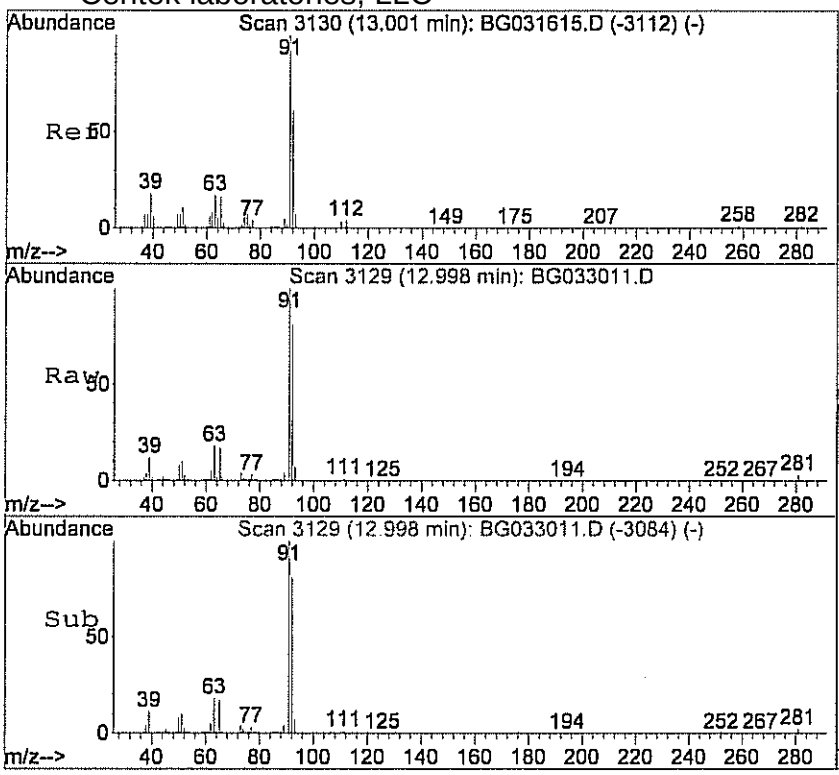


#38
Trichloroethene
Concen: 6.69 ppb
RT: 10.77 min Scan# 2437
Delta R.T. -0.00 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion:130 Resp: 343799

Ion	Ratio	Lower	Upper
130	100		
132	97.3	74.9	114.9
95	97.6	89.5	129.5

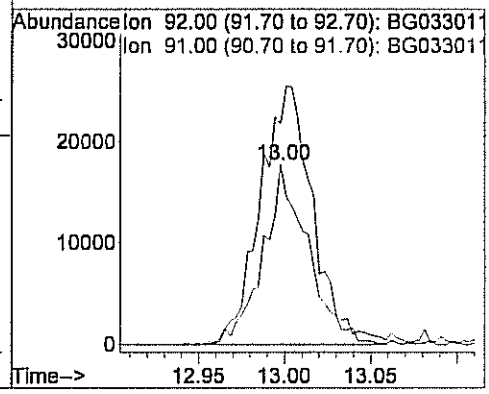




#45
Toluene
Concen: 0.68 ppb
RT: 13.00 min Scan# 3129
Delta R.T. -0.01 min
Lab File: BG033011.D
Acq: 30 Mar 2011 5:06 pm

Tgt Ion: 92 Resp: 31878

Ion	Ratio	Lower	Upper
92	100		
91	170.7	145.8	185.8



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033013.D Vial: 10
Acq On : 30 Mar 2011 7:07 pm Operator: LL
Sample : C1103055-002A 80X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:21:39 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

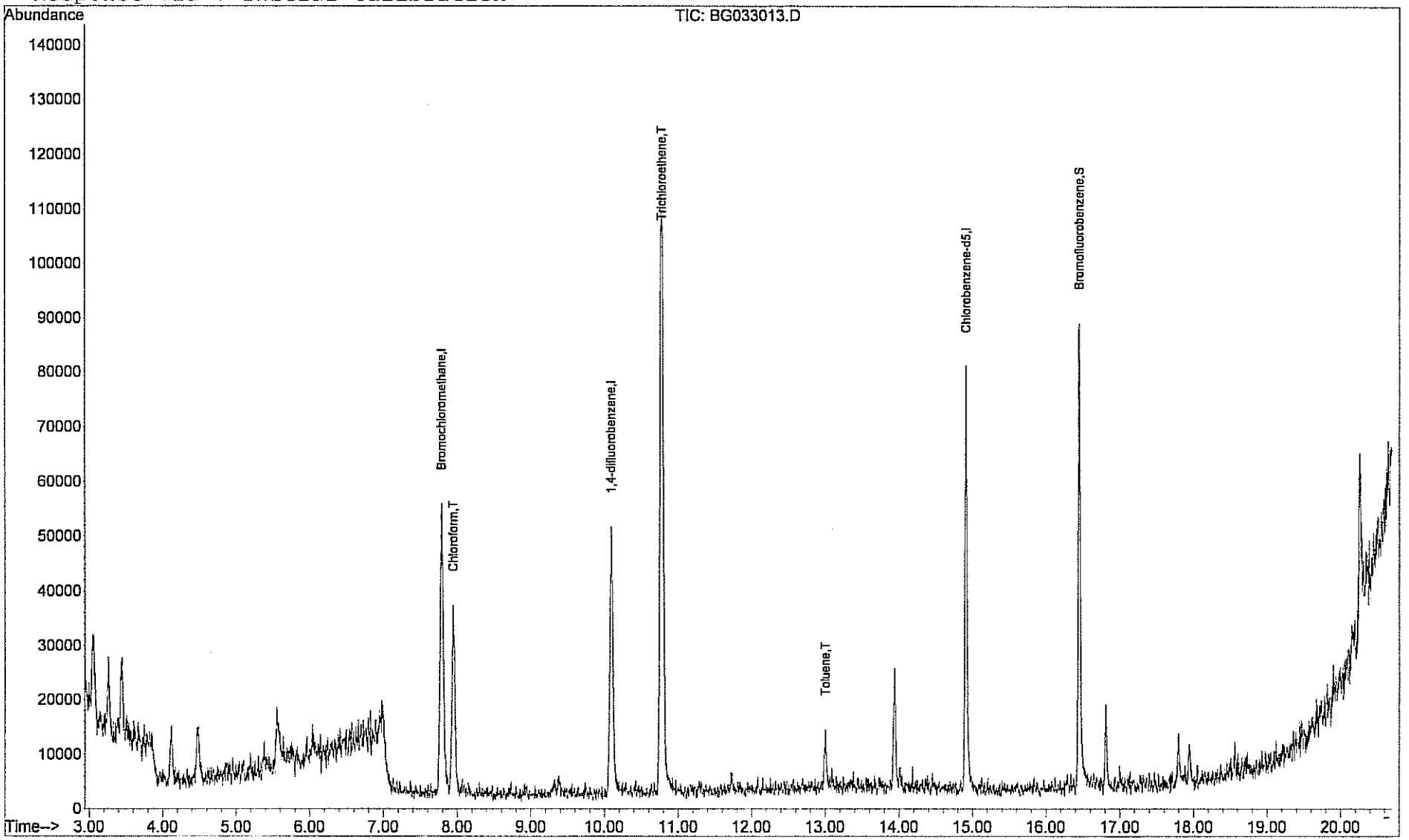
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	20028	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	50415	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	46707	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.44	95	26573m	0.71	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%				
Target Compounds							Qvalue
27) Chloroform	7.94	83	32955	0.41	ppb		98
38) Trichloroethene	10.77	130	54358	1.64	ppb		93
45) Toluene	13.01	92	3926	0.10	ppb	#	79

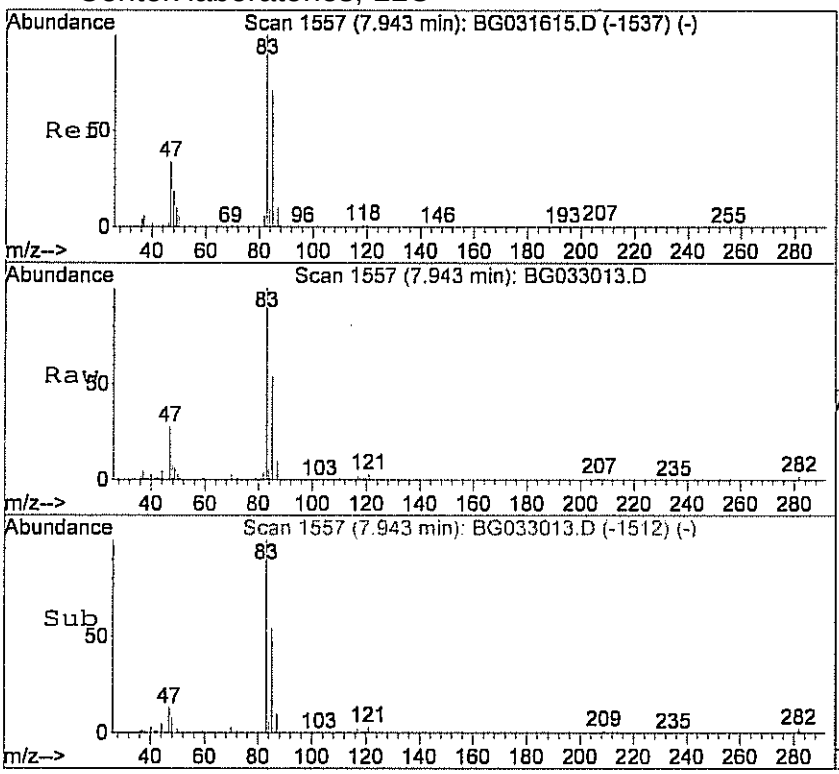
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033013.D Vial: 10
Acq On : 30 Mar 2011 7:07 pm Operator: LL
Sample : C1103055-002A 80X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:23 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

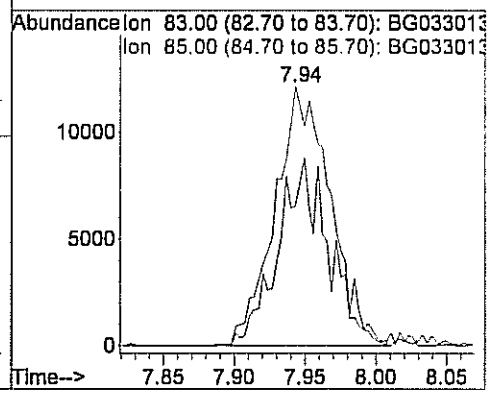


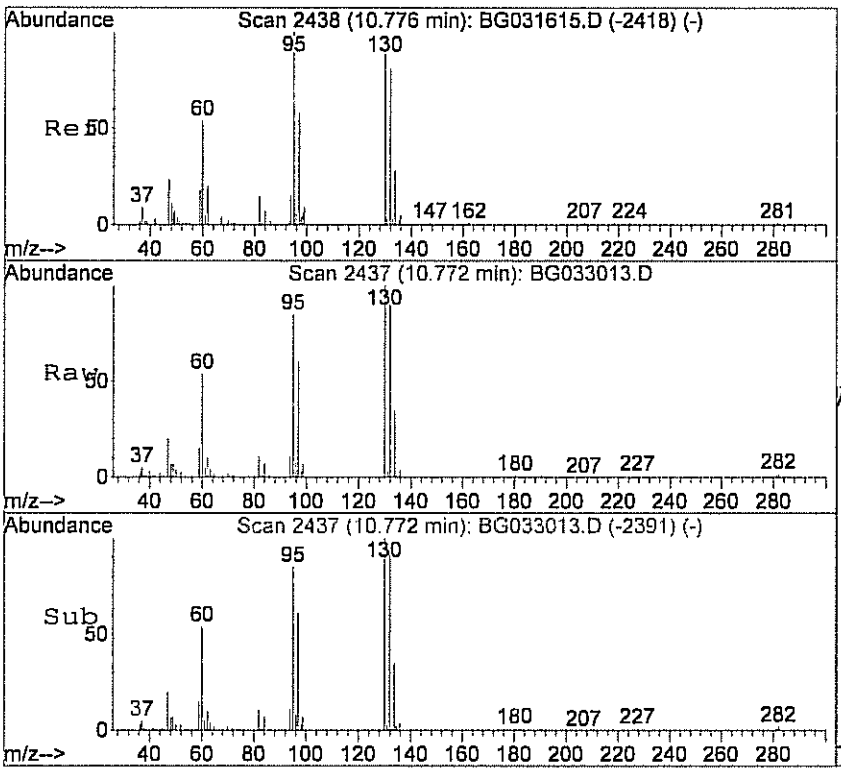


#27
Chloroform
Concen: 0.41 ppb
RT: 7.94 min Scan# 1557
Delta R.T. -0.01 min
Lab File: BG033013.D
Acq: 30 Mar 2011 7:07 pm

Tgt Ion: 83 Resp: 32955

Ion	Ratio	Lower	Upper
83	100		
85	65.1	43.8	83.8

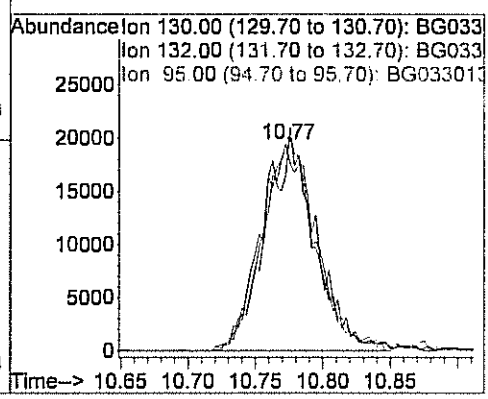


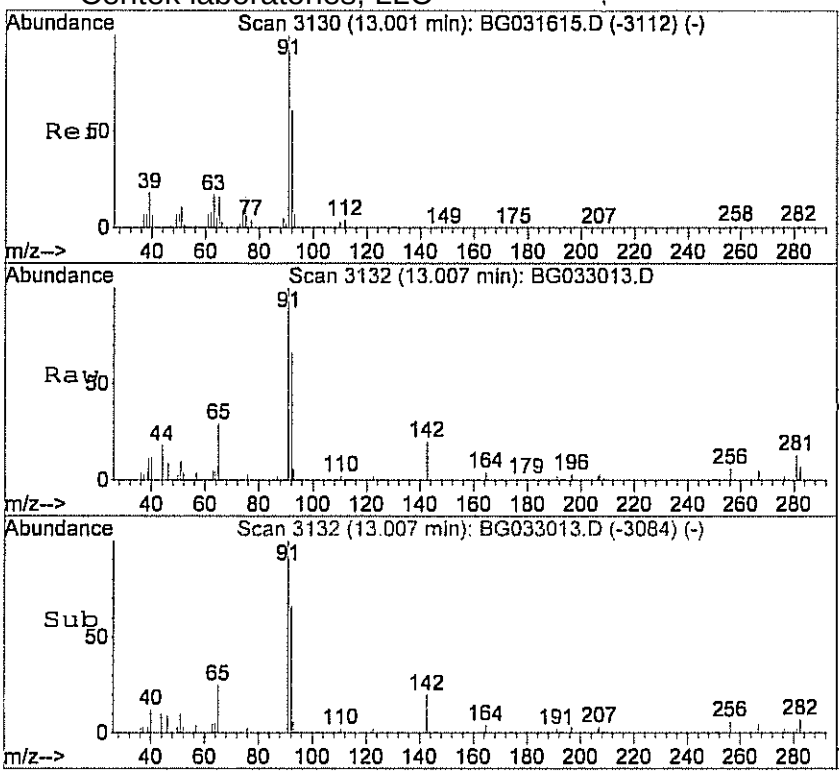


#38
Trichloroethene
Concen: 1.64 ppb
RT: 10.77 min Scan# 2437
Delta R.T. -0.00 min
Lab File: BG033013.D
Acq: 30 Mar 2011 7:07 pm

Tgt Ion:130 Resp: 54358

Ion	Ratio	Lower	Upper
130	100		
132	100.1	74.9	114.9
95	100.9	89.5	129.5

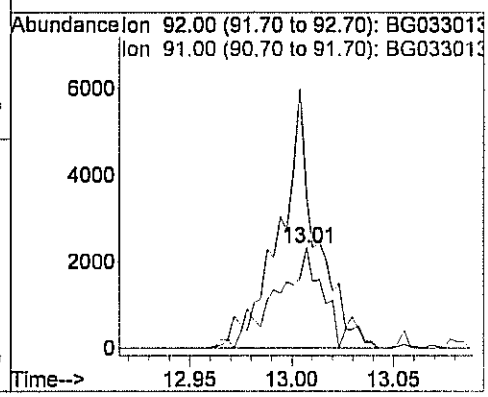




#45
Toluene
Concen: 0.10 ppb
RT: 13.01 min Scan# 3132
Delta R.T. 0.00 min
Lab File: BG033013.D
Acq: 30 Mar 2011 7:07 pm

Tgt Ion: 92 Resp: 3926

Ion	Ratio	Lower	Upper
92	100		
91	193.8	145.8	185.8#



Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.81	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.12	0.15	J	ppbV	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Acetone	78	12		ppbV	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzene	0.35	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.12	0.15	J	ppbV	1	3/26/2011 3:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroform	5.6	2.4		ppbV	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	1.4	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 11	0.16	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 113	0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 12	0.48	0.15		ppbV	1	3/26/2011 3:30:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
m&p-Xylene	2.4	4.8	J	ppbV	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	6.2	4.8		ppbV	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Methylene chloride	0.31	0.15		ppbV	1	3/26/2011 3:30:00 AM
o-Xylene	1.1	0.15		ppbV	1	3/26/2011 3:30:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	1.3	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	200	48		ppbV	320	3/30/2011 9:25:00 PM
Toluene	0.45	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Trichloroethene	400	48		ppbV	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.60	0.75	J	ug/m3	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Acetone	190	29		ug/m3	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 3:30:00 AM
Benzene	1.1	0.49		ug/m3	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.82	1.0	J	ug/m3	1	3/26/2011 3:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 3:30:00 AM
Chloroform	28	12		ug/m3	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
Ethylbenzene	6.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Freon 11	0.91	0.86		ug/m3	1	3/26/2011 3:30:00 AM
Freon 113	1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.4	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 3:30:00 AM
m&p-Xylene	11	21	J	ug/m3	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	19	14		ug/m3	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 3:30:00 AM
Methylene chloride	1.1	0.53		ug/m3	1	3/26/2011 3:30:00 AM
o-Xylene	5.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 3:30:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	9.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	610	140		ug/m3	320	3/30/2011 9:25:00 PM
Toluene	1.7	0.57		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Trichloroethene	2200	260		ug/m3	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032524.D Vial: 11
Acq On : 26 Mar 2011 3:30 am Operator: LL
Sample : C1103055-003A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 26 03:51:32 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

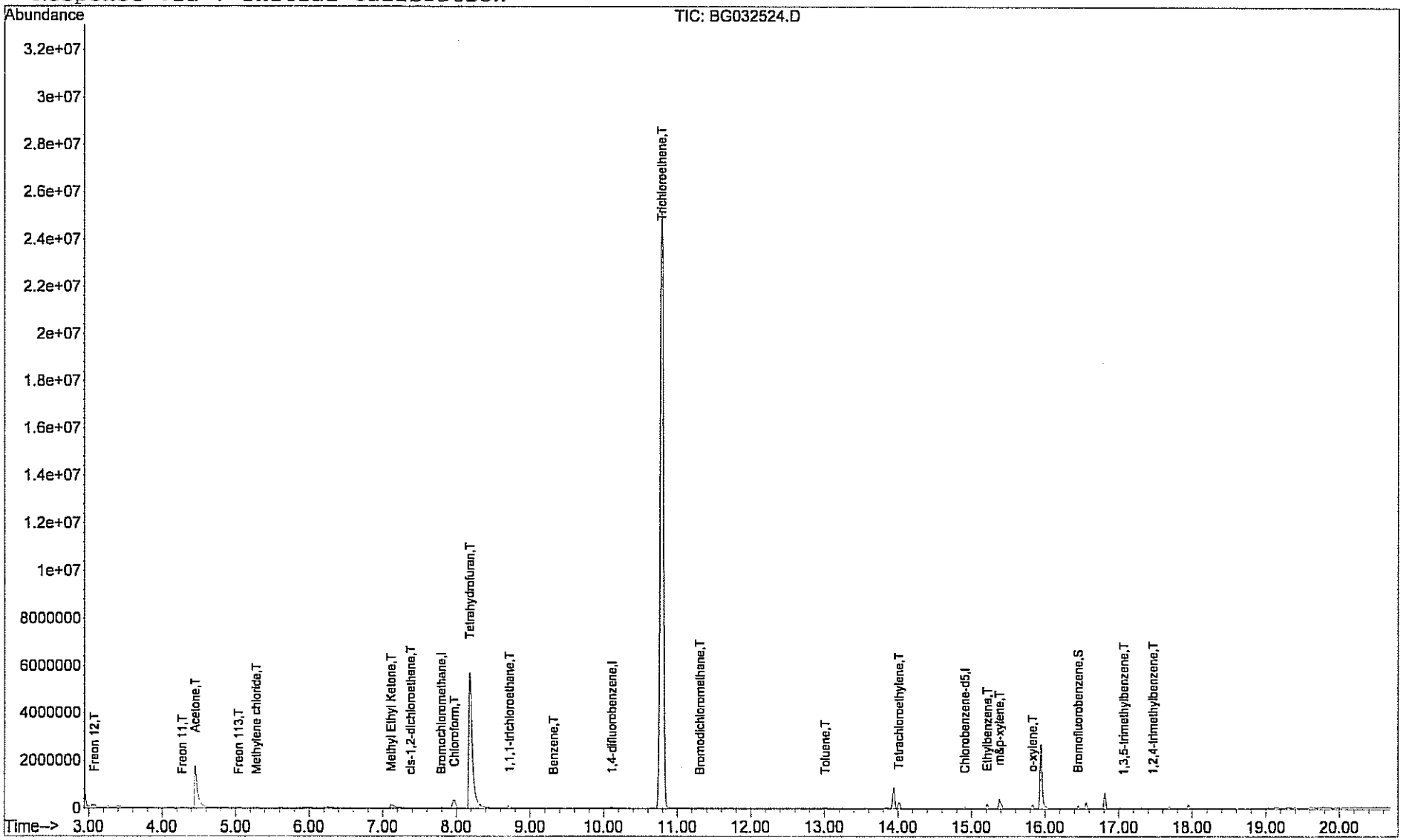
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	18769	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	70024	1.00	ppb		0.01
44) Chlorobenzene-d5	14.91	117	53870	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	39410	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
3) Freon 12	3.09	85	77242	0.48	ppb		95
11) Freon 11	4.27	101	24646	0.16	ppb		91
12) Acetone	4.45	58	719804m	103.34	ppb		
15) Freon 113	5.04	101	10995	0.15	ppb	#	46
16) Methylene chloride	5.27	84	6898m	0.31	ppb		
23) Methyl Ethyl Ketone	7.12	72	105305m	17.25	ppb		
24) cis-1,2-dichloroethene	7.38	61	10007	0.27	ppb		85
27) Chloroform	7.97	83	421656	5.65	ppb		98
28) Tetrahydrofuran	8.18	42	4781299m	298.39	ppb		
31) 1,1,1-trichloroethane	8.72	97	91747	0.81	ppb		86
34) Benzene	9.31	78	25113	0.35	ppb		95
38) Trichloroethene	10.79	130	11815187	256.09	ppb		91
40) Bromodichloromethane	11.32	83	10185	0.12	ppb		95
45) Toluene	13.01	92	20027	0.45	ppb	#	81
50) Tetrachloroethylene	14.01	164	58170	1.31	ppb		88
52) Ethylbenzene	15.22	91	134018	1.35	ppb		89
53) m&p-xylene	15.38	91	360620	4.38	ppb		87
56) o-xylene	15.83	91	94725	1.13	ppb		100
60) 1,3,5-trimethylbenzene	17.07	105	9823	0.12	ppb		88
61) 1,2,4-trimethylbenzene	17.47	105	20356	0.32	ppb		98

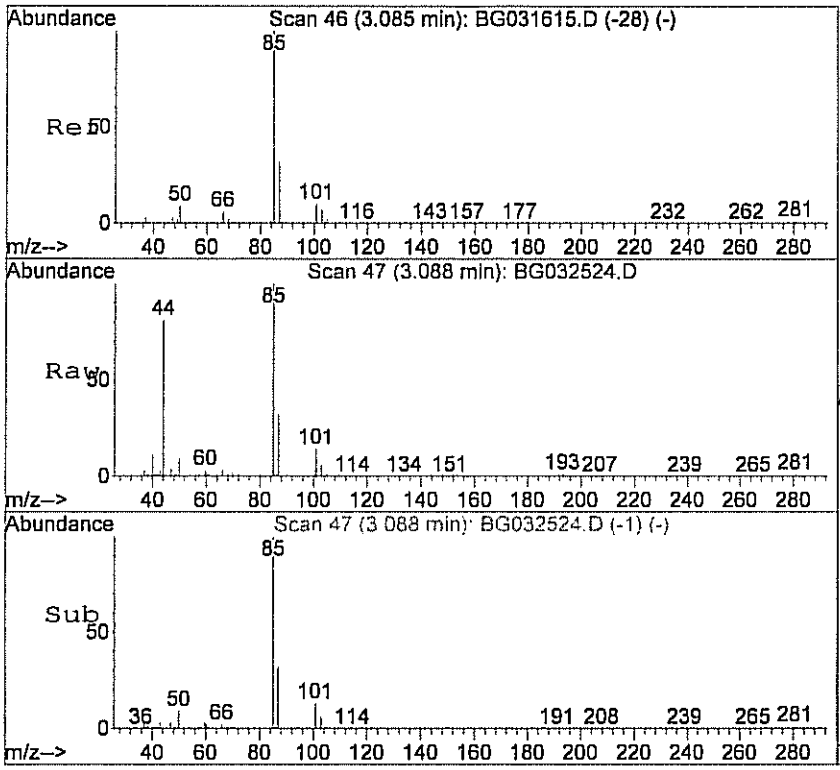
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032524.D Vial: 11
Acq On : 26 Mar 2011 3:30 am Operator: LL
Sample : C1103055-003A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:16 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

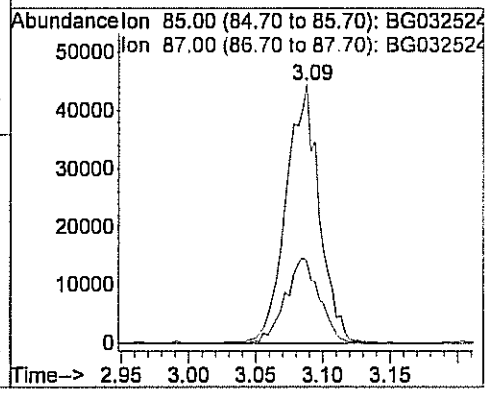


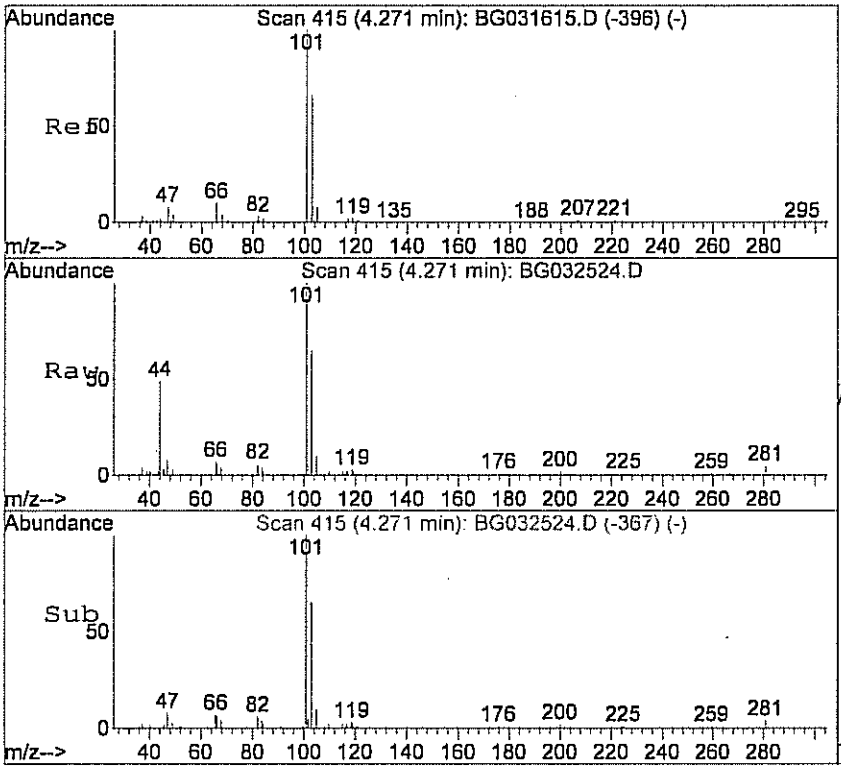


#3
Freon 12
Concen: 0.48 ppb
RT: 3.09 min Scan# 47
Delta R.T. 0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 85 Resp: 77242

Ion	Ratio	Lower	Upper
85	100		
87	33.5	10.7	50.7

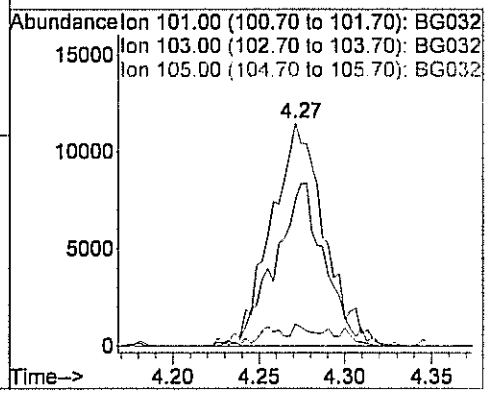


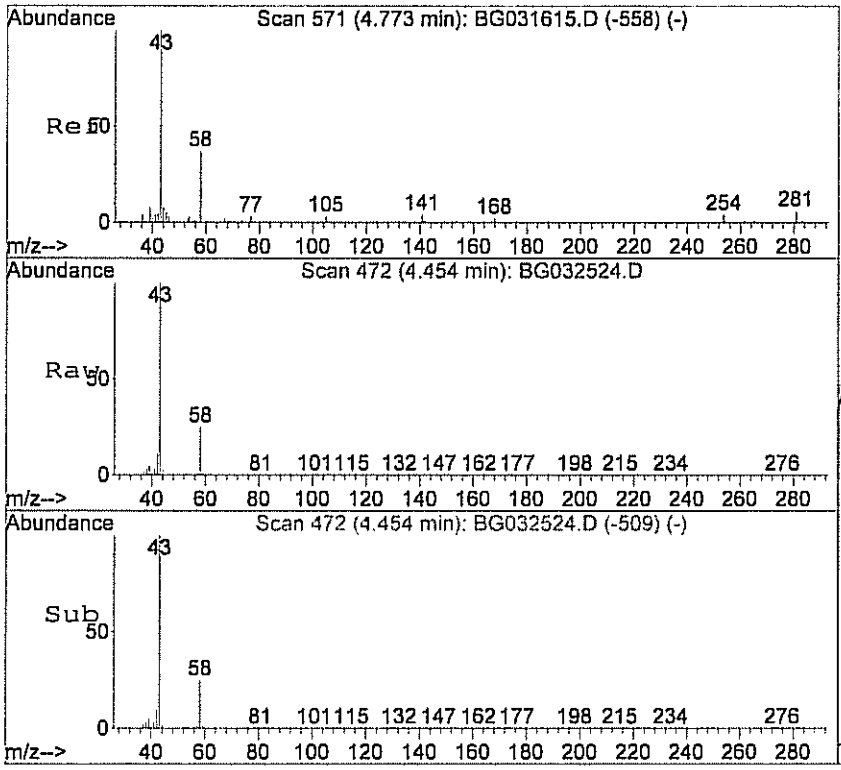


#11
Freon 11
Concen: 0.16 ppb
RT: 4.27 min Scan# 415
Delta R.T. 0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:101 Resp: 24646

Ion	Ratio	Lower	Upper
101	100		
103	68.3	42.4	82.4
105	4.4	0.0	29.9

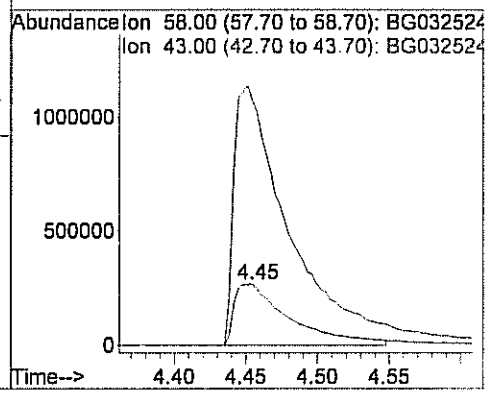


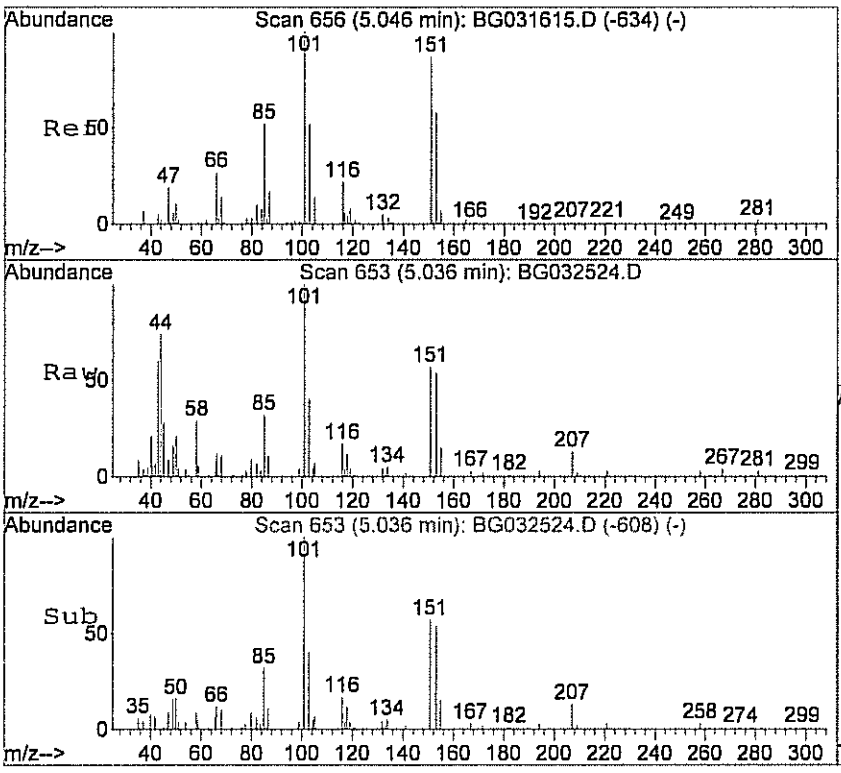


#12
Acetone
Concen: 103.34 ppb m
RT: 4.45 min Scan# 472
Delta R.T. -0.27 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 58 Resp: 719804

Ion	Ratio	Lower	Upper
58	100		
43	0.0	381.2	441.2#

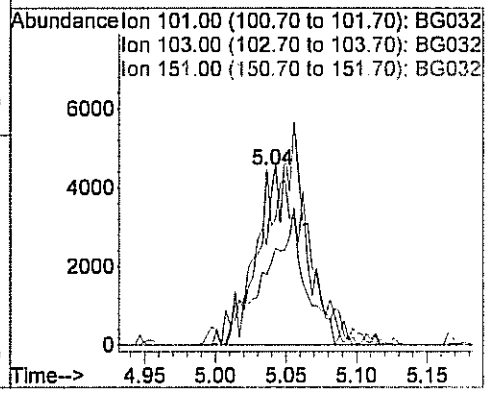


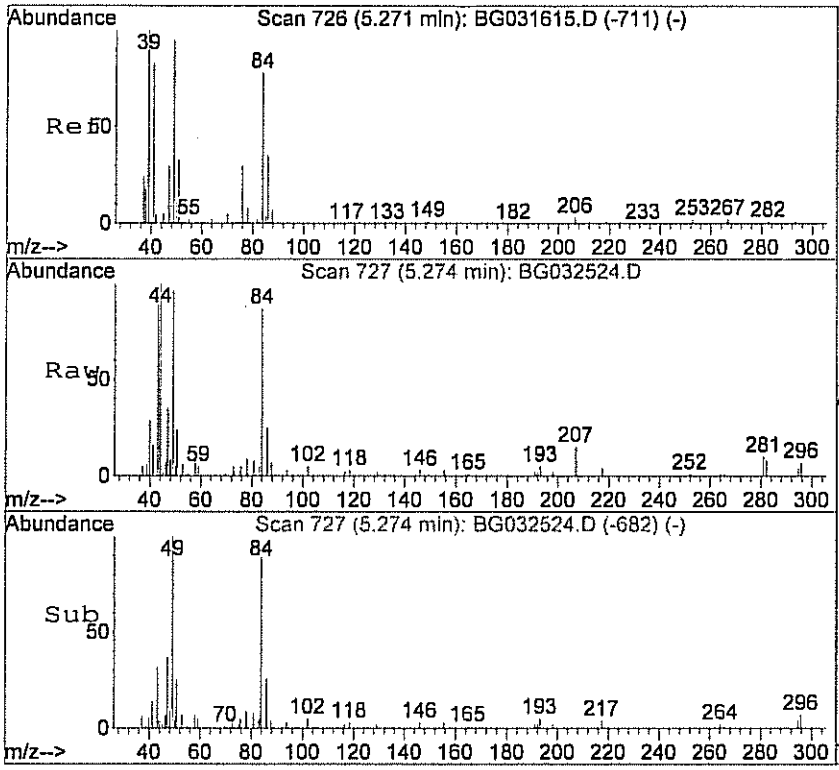


#15
Freon 113
Concen: 0.15 ppb
RT: 5.04 min Scan# 653
Delta R.T. -0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:101 Resp: 10995

Ion	Ratio	Lower	Upper
101	100		
103	3.5	37.2	77.2#
151	105.0	52.4	92.4#

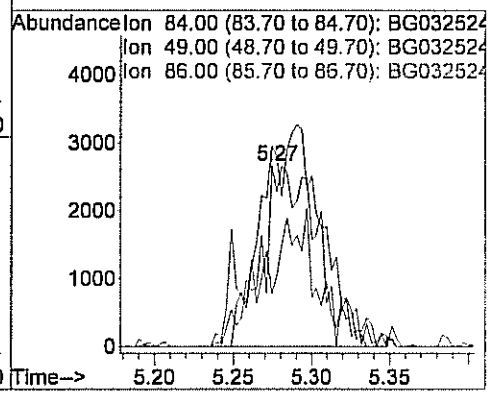


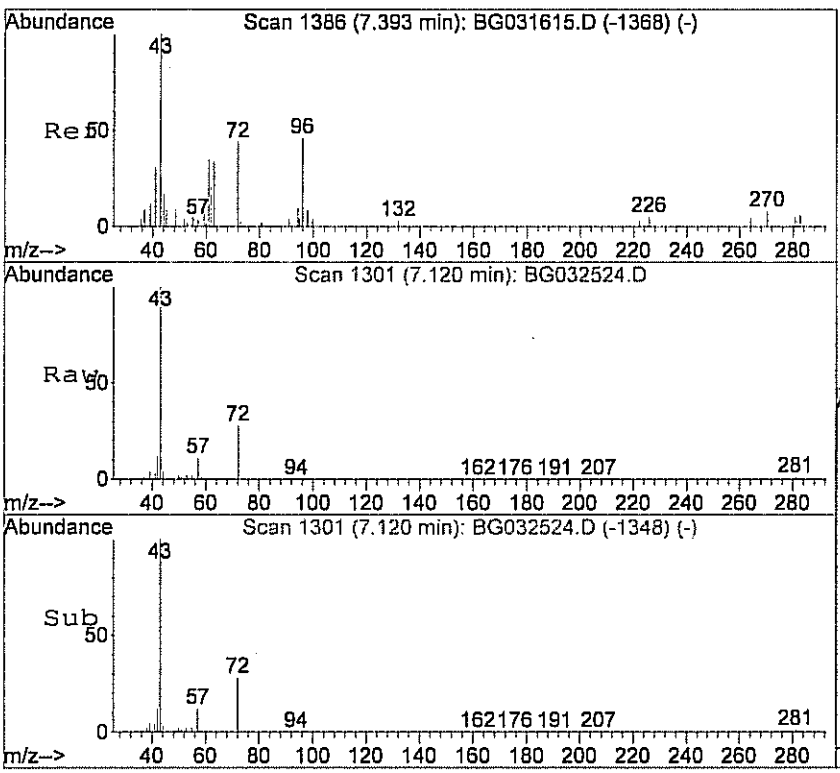


#16
Methylene chloride
Concen: 0.31 ppb m
RT: 5.27 min Scan# 727
Delta R.T. -0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 84 Resp: 6898

Ion	Ratio	Lower	Upper
84	100		
49	116.4	111.4	151.4
86	67.4	39.2	79.2

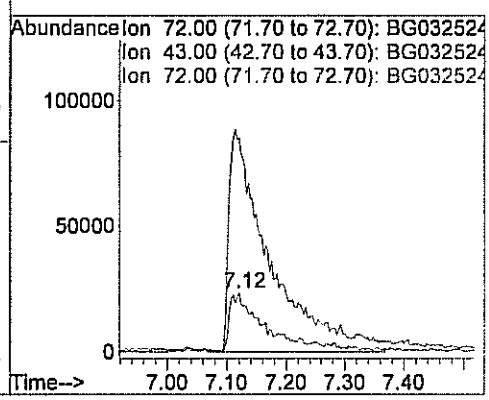


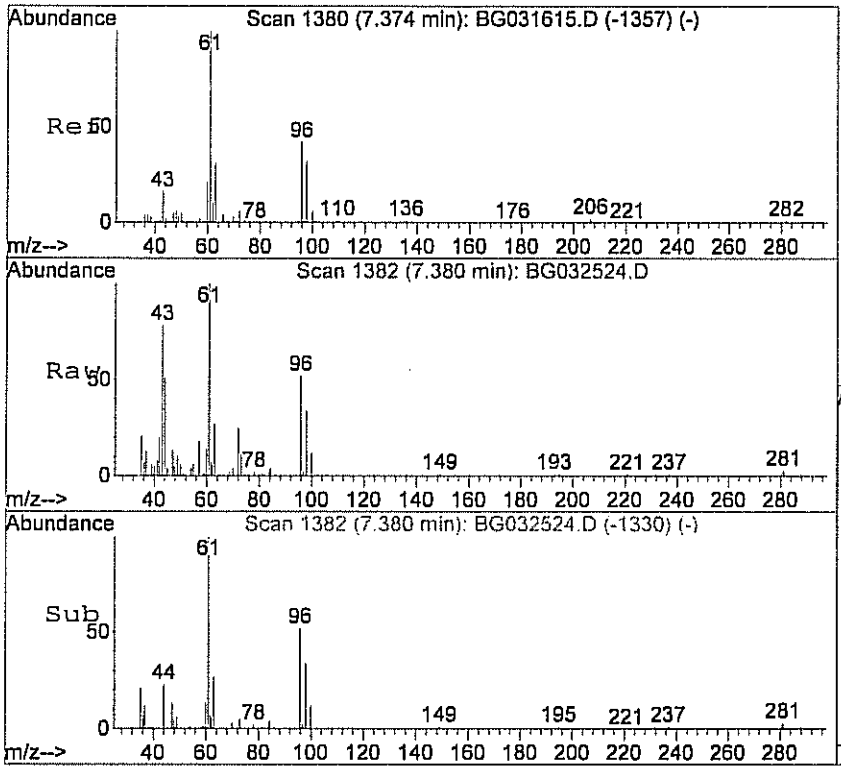


#23
Methyl Ethyl Ketone
Concen: 17.25 ppb m
RT: 7.12 min Scan# 1301
Delta R.T. -0.30 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 72 Resp: 105305

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	1.2	80.0	120.0#

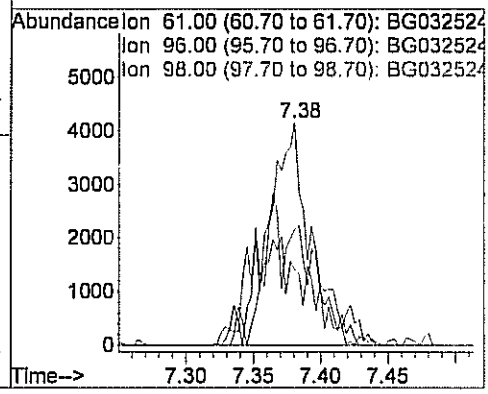


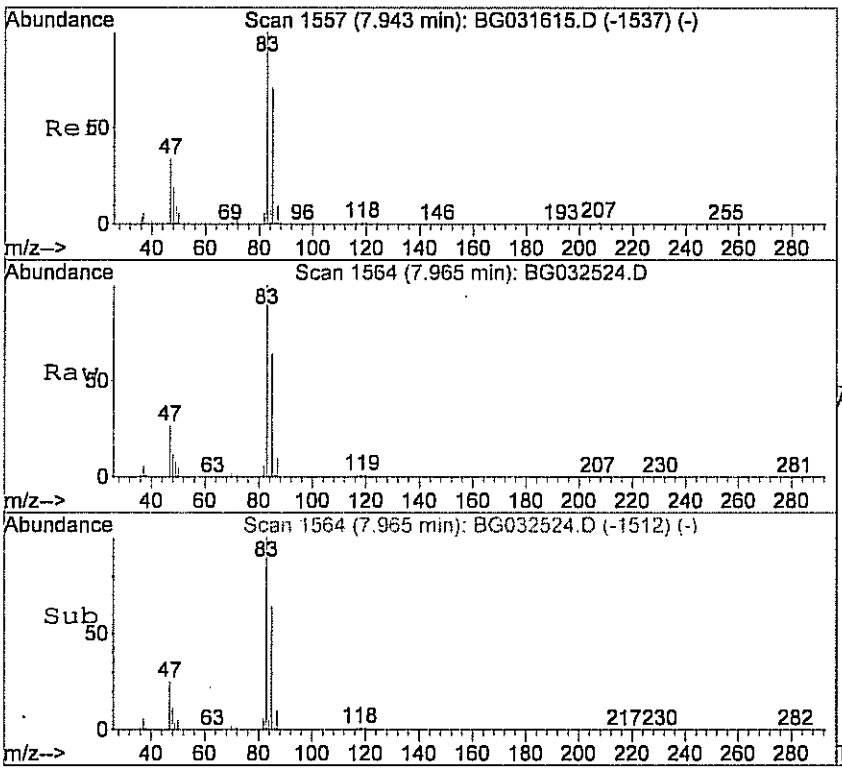


#24
cis-1,2-dichloroethene
Concen: 0.27 ppb
RT: 7.38 min Scan# 1382
Delta R.T. 0.02 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 61 Resp: 10007

Ion	Ratio	Lower	Upper
61	100		
96	53.1	40.4	80.4
98	45.4	11.6	51.6

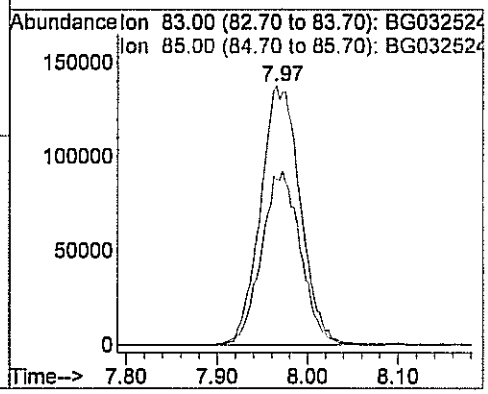


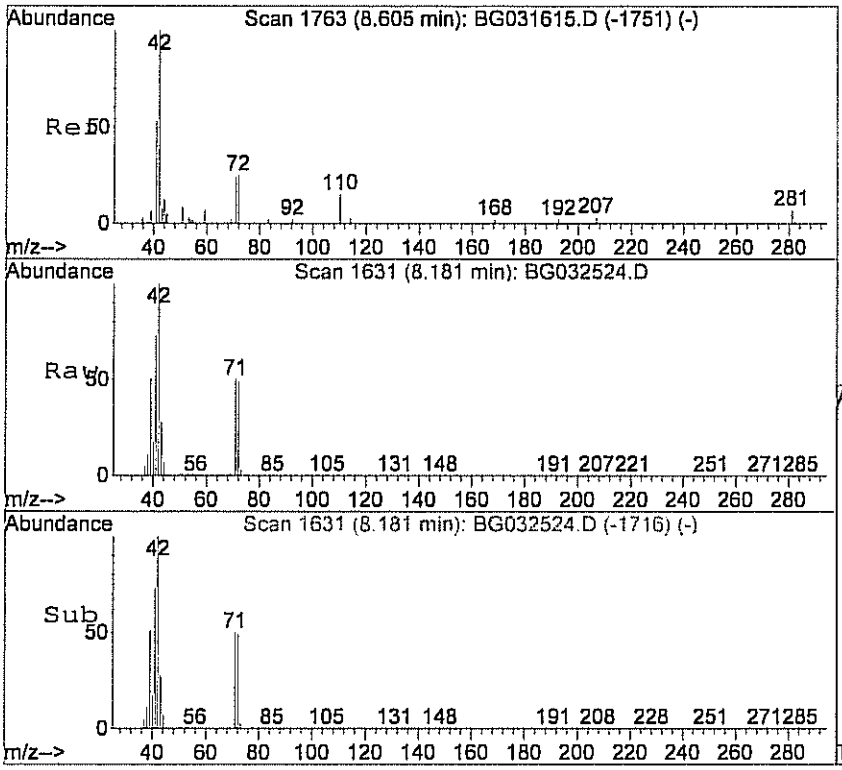


#27
Chloroform
Concen: 5.65 ppb
RT: 7.97 min Scan# 1564
Delta R.T. 0.02 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 83 Resp: 421656

Ion	Ratio	Lower	Upper
83	100		
85	65.5	43.8	83.8

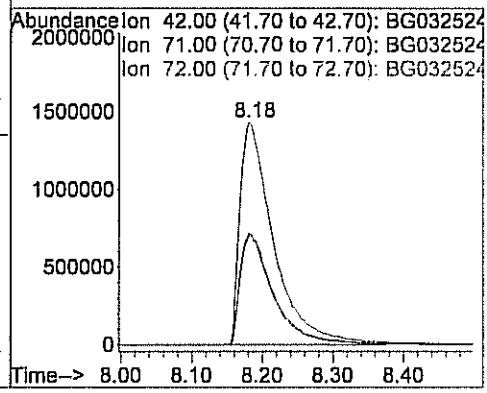


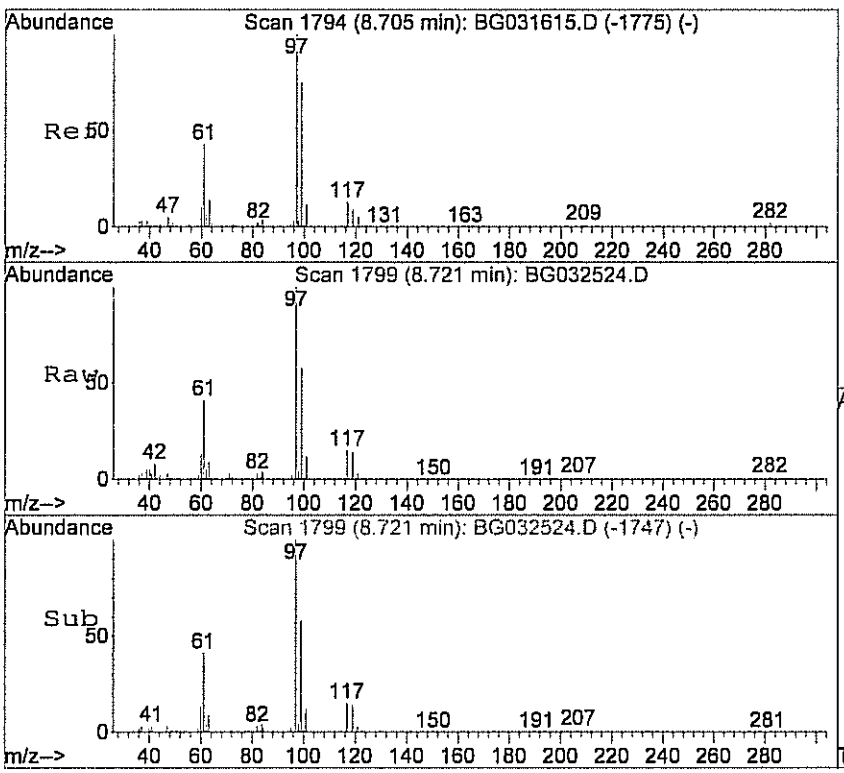


#28
Tetrahydrofuran
Concen: 298.39 ppb m
RT: 8.18 min Scan# 1631
Delta R.T. -0.42 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 42 Resp: 4781299

Ion	Ratio	Lower	Upper
42	100		
71	0.1	32.2	72.2#
72	0.0	29.3	69.3#

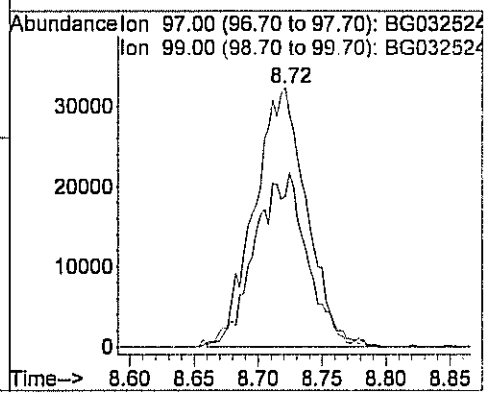


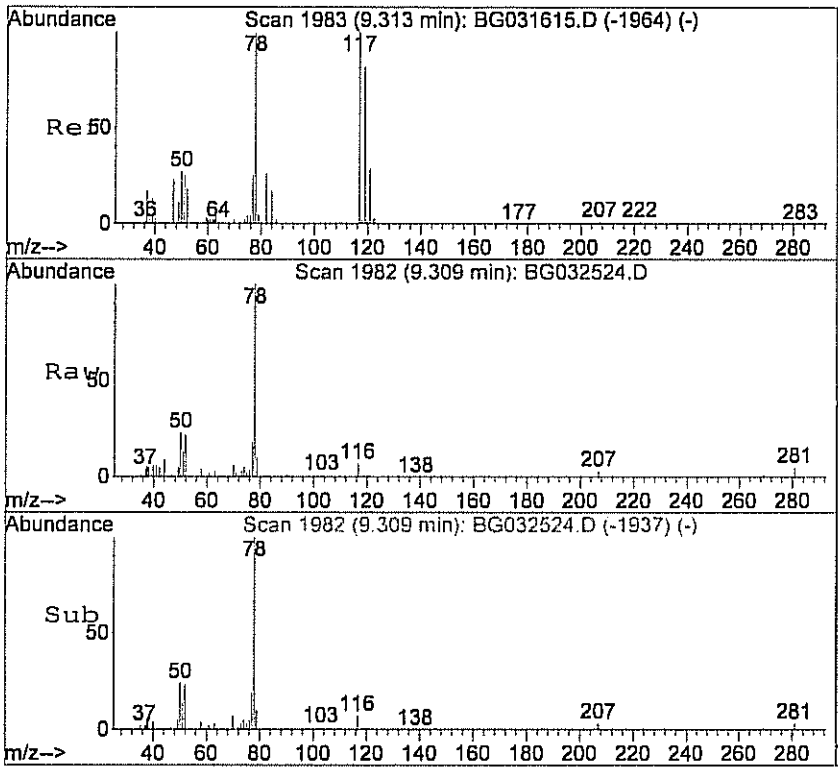


#31
1,1,1-trichloroethane
Concen: 0.81 ppb
RT: 8.72 min Scan# 1799
Delta R.T. 0.02 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 97 Resp: 91747

Ion	Ratio	Lower	Upper
97	100		
99	66.3	36.0	76.0

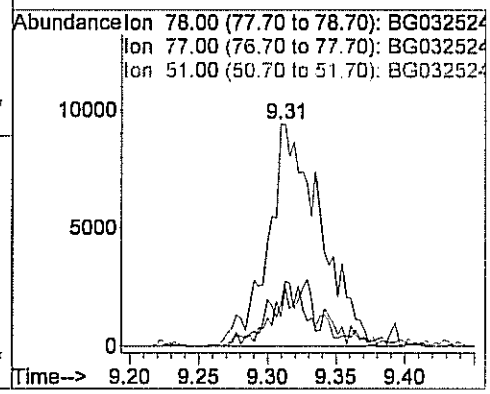


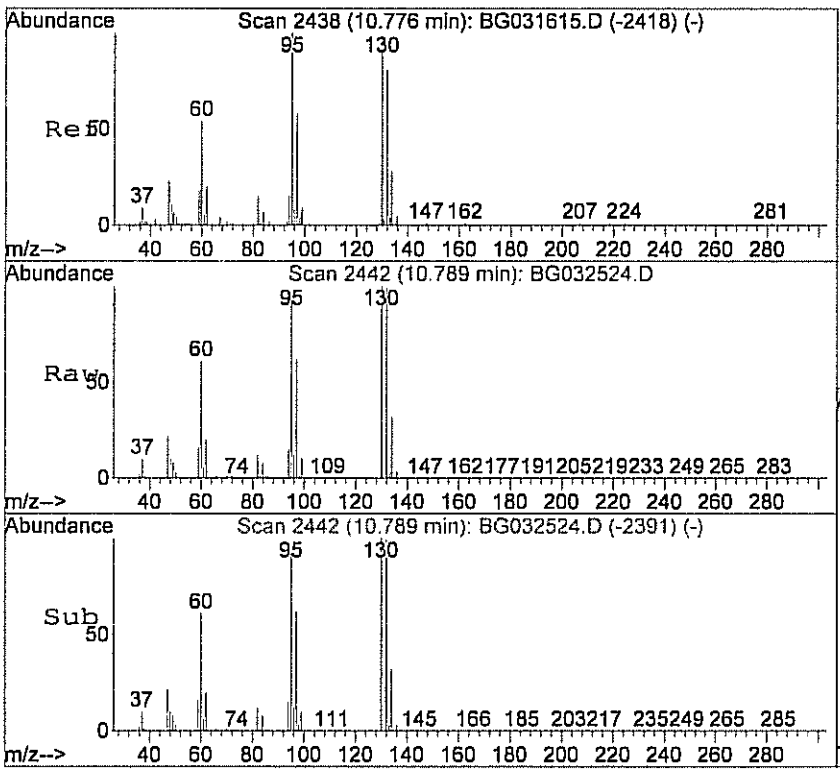


#34
Benzene
Concen: 0.35 ppb
RT: 9.31 min Scan# 1982
Delta R.T. -0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 78 Resp: 25113

Ion	Ratio	Lower	Upper
78	100		
77	21.6	4.6	44.6
51	20.4	1.9	41.9

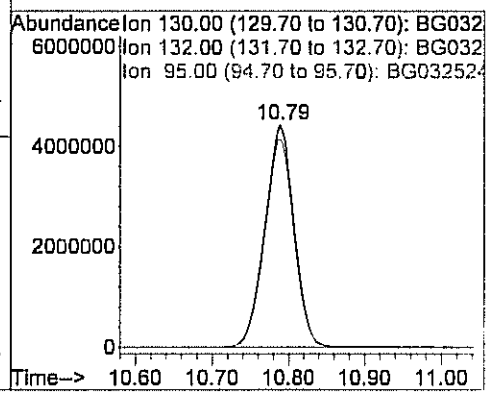


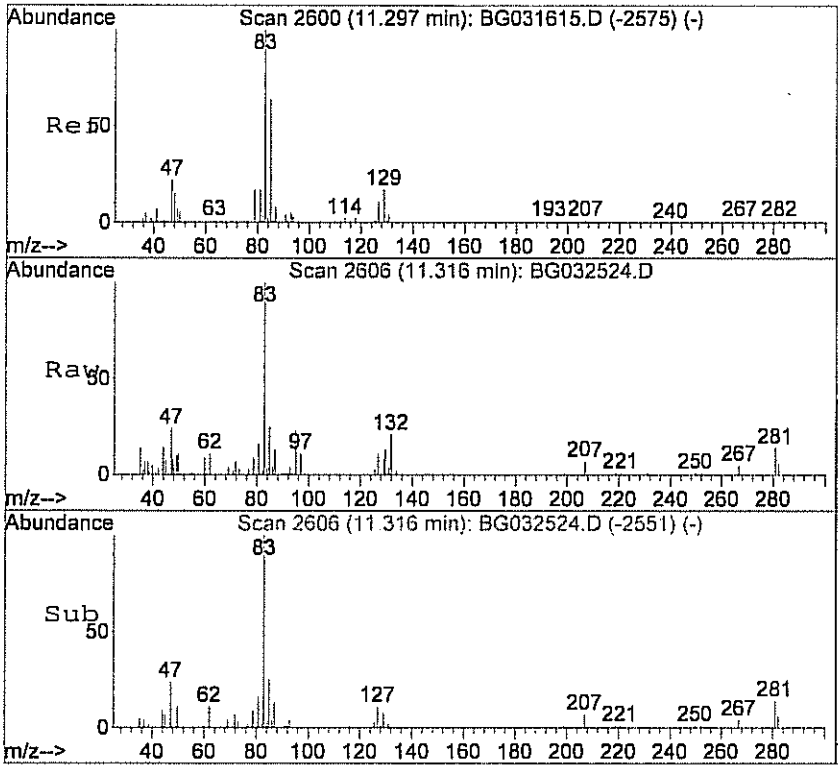


#38
Trichloroethene
Concen: 256.09 ppb
RT: 10.79 min Scan# 2442
Delta R.T. 0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:130 Resp:11815187

Ion	Ratio	Lower	Upper
130	100		
132	98.5	74.9	114.9
95	94.8	89.5	129.5

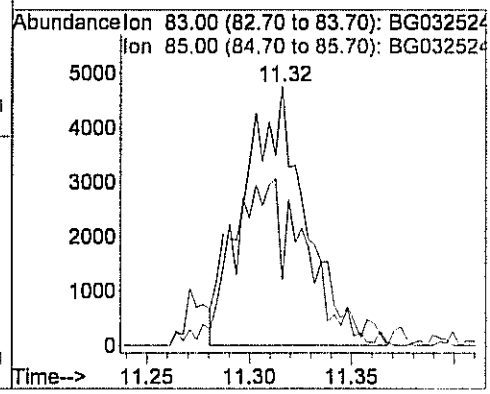


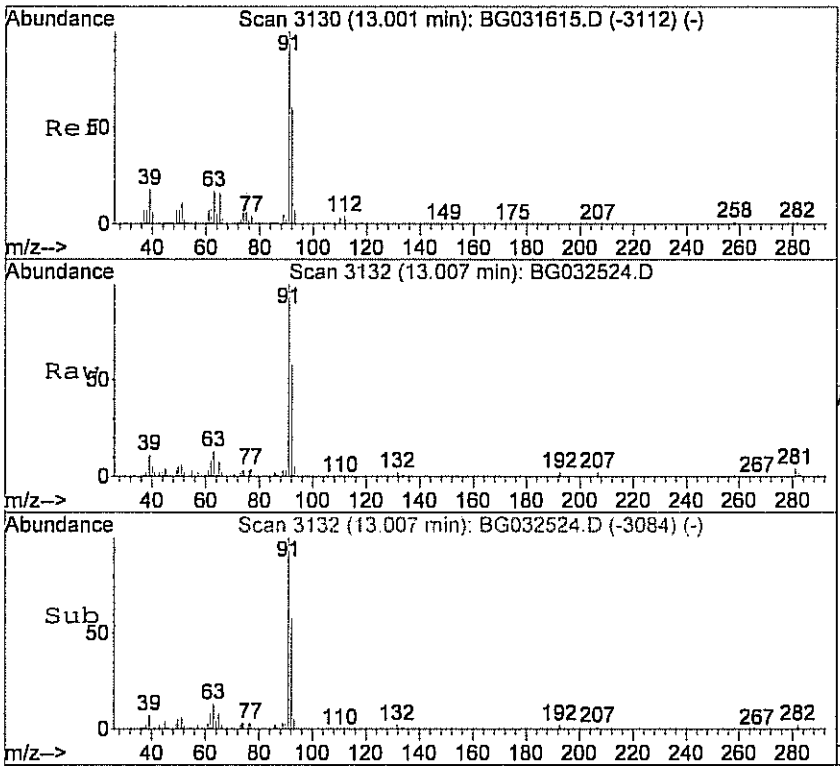


#40
Bromodichloromethane
Concen: 0.12 ppb
RT: 11.32 min Scan# 2606
Delta R.T. 0.03 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 83 Resp: 10185

Ion	Ratio	Lower	Upper
83	100		
85	73.2	49.4	89.4

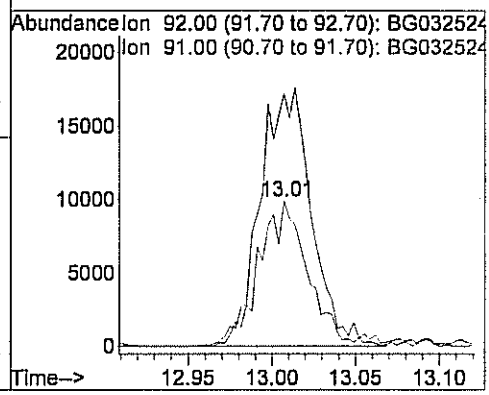


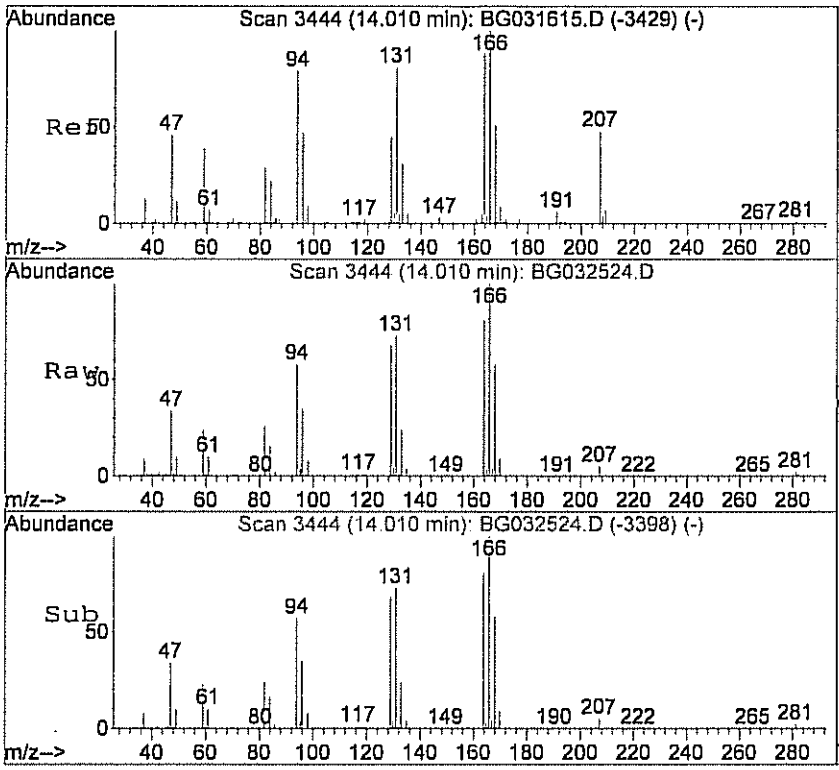


#45
Toluene
Concen: 0.45 ppb
RT: 13.01 min Scan# 3132
Delta R.T. 0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 92 Resp: 20027

Ion	Ratio	Lower	Upper
92	100		
91	191.5	145.8	185.8#

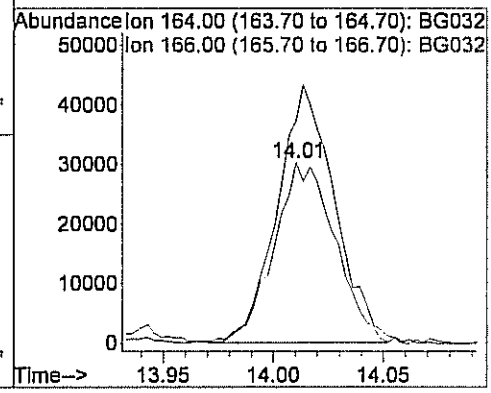


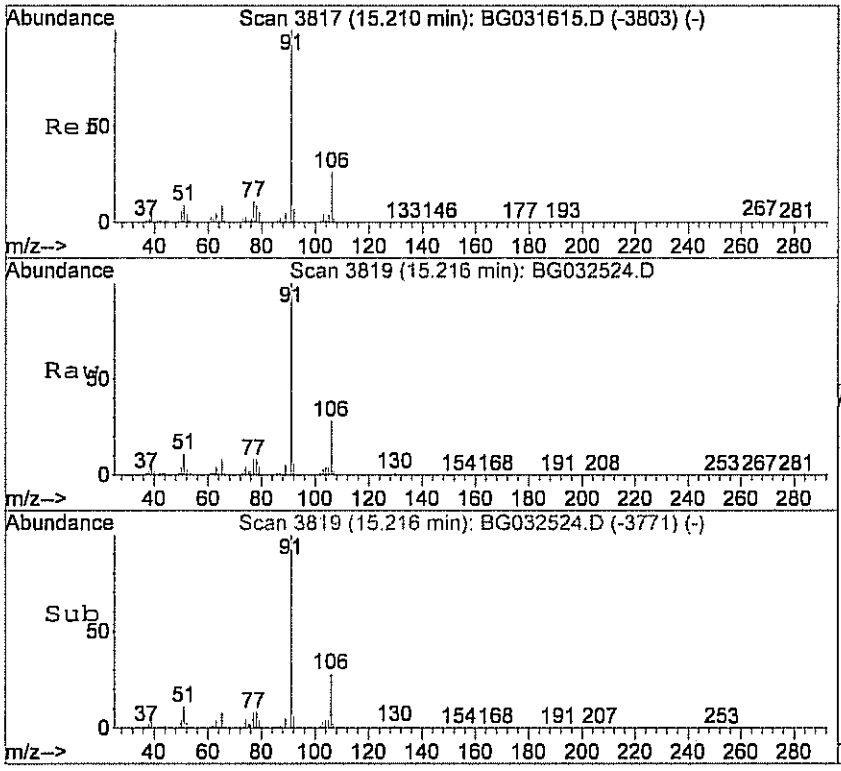


#50
Tetrachloroethylene
Concen: 1.31 ppb
RT: 14.01 min Scan# 3444
Delta R.T. -0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:164 Resp: 58170

Ion	Ratio	Lower	Upper
164	100		
166	135.5	102.3	142.3

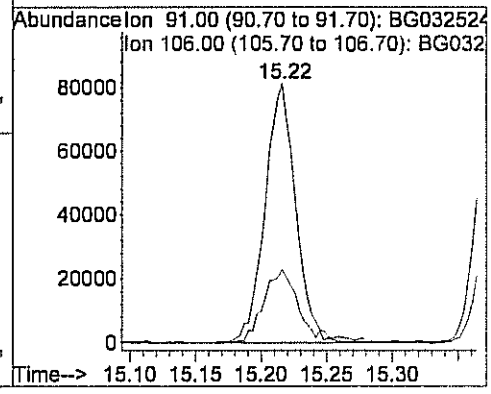


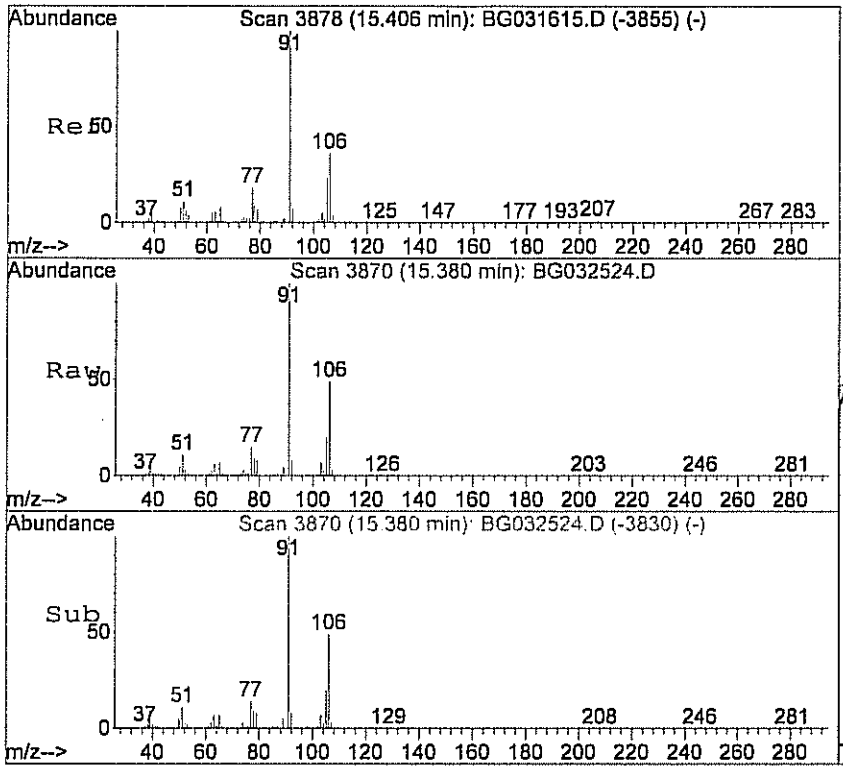


#52
Ethylbenzene
Concen: 1.35 ppb
RT: 15.22 min Scan# 3819
Delta R.T. 0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 91 Resp: 134018

Ion	Ratio	Lower	Upper
91	100		
106	31.1	5.5	45.5

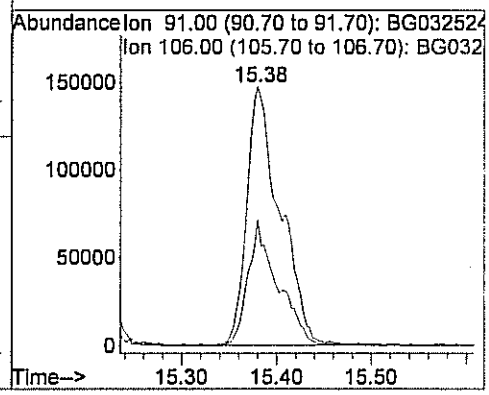


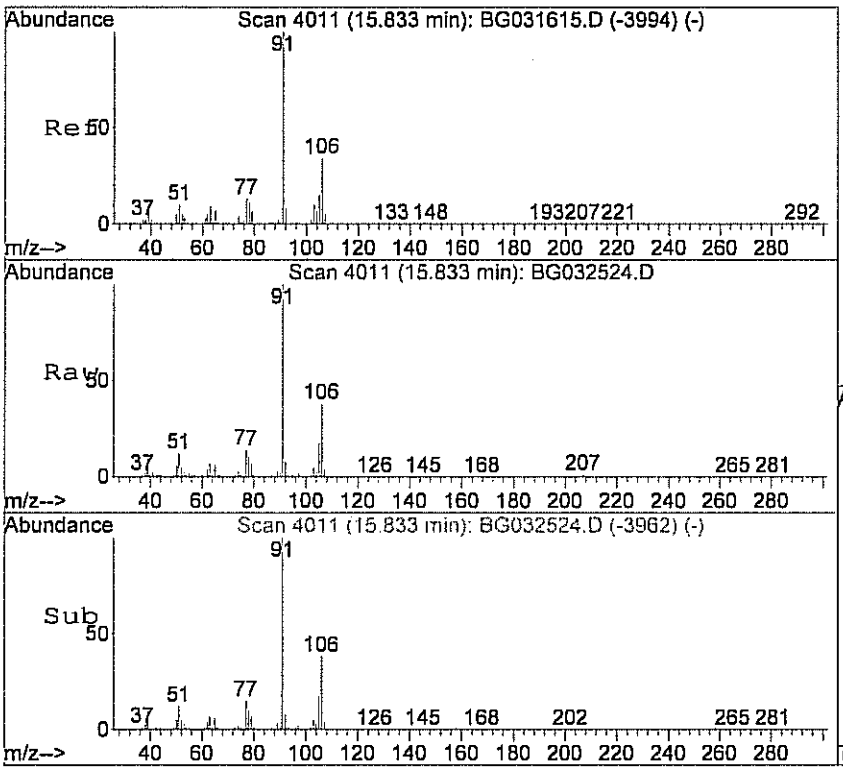


#53
m&p-xylene
Concen: 4.38 ppb
RT: 15.38 min Scan# 3870
Delta R.T. -0.02 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 91 Resp: 360620

Ion	Ratio	Lower	Upper
91	100		
106	43.2	15.6	55.6

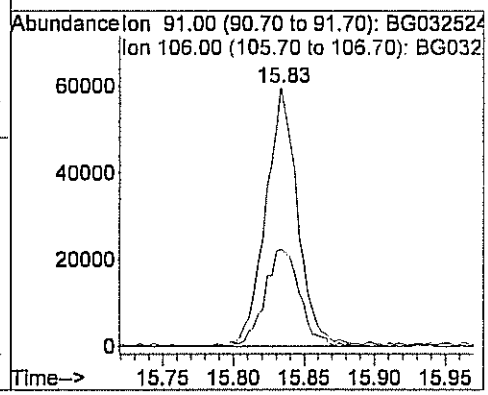


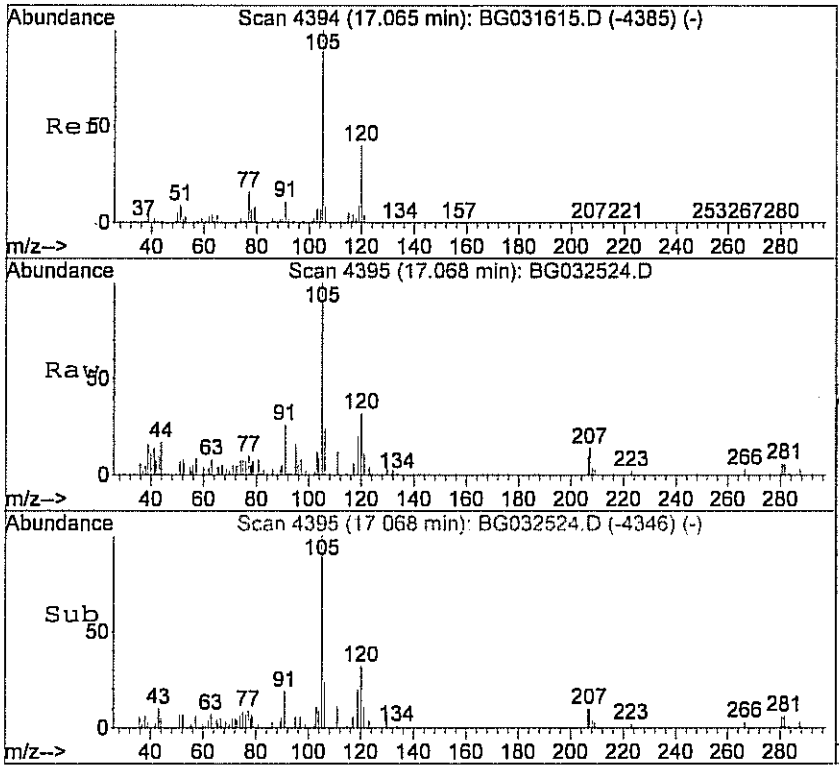


#56
o-xylene
Concen: 1.13 ppb
RT: 15.83 min Scan# 4011
Delta R.T. 0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion: 91 Resp: 94725

Ion	Ratio	Lower	Upper
91	100		
106	41.1	20.9	60.9

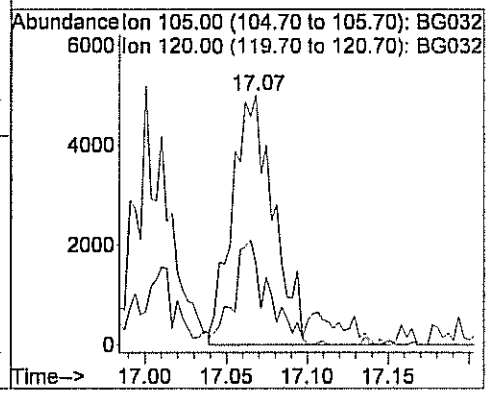


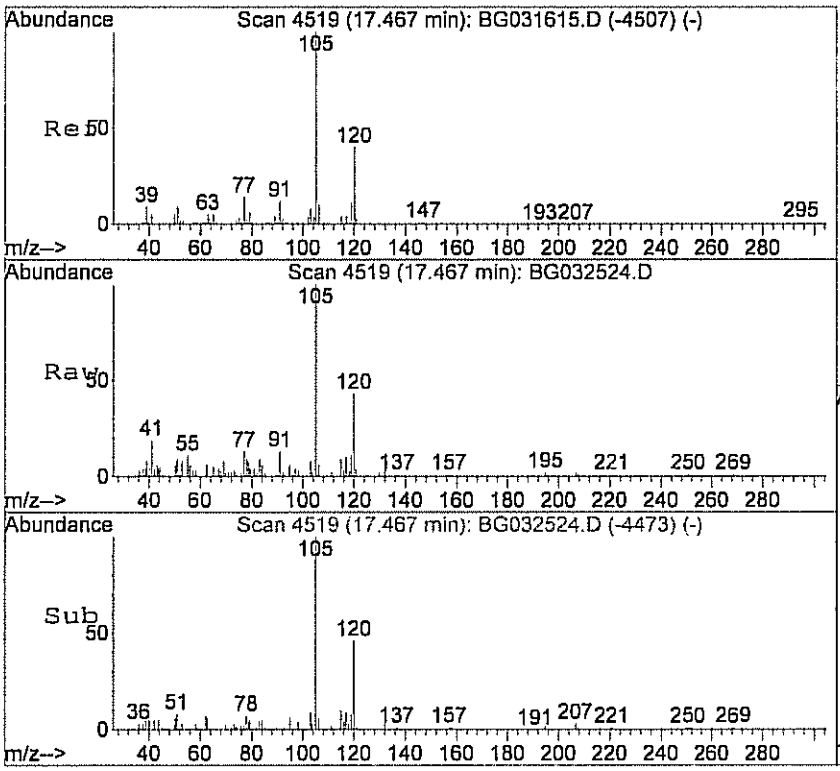


#60
1,3,5-trimethylbenzene
Concen: 0.12 ppb
RT: 17.07 min Scan# 4395
Delta R.T. 0.01 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:105 Resp: 9823

Ion	Ratio	Lower	Upper
105	100		
120	31.3	18.7	58.7

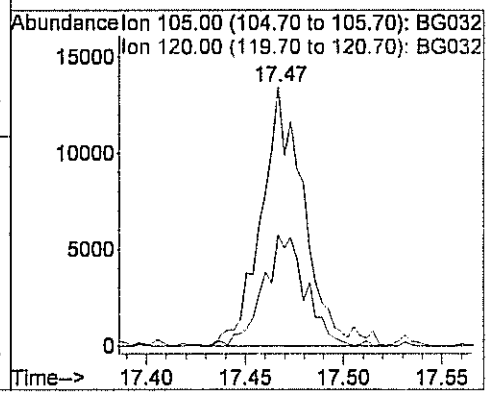




#61
1,2,4-trimethylbenzene
Concen: 0.32 ppb
RT: 17.47 min Scan# 4519
Delta R.T. -0.00 min
Lab File: BG032524.D
Acq: 26 Mar 2011 3:30 am

Tgt Ion:105 Resp: 20356

Ion	Ratio	Lower	Upper
105	100		
120	42.4	21.2	61.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033015.D Vial: 11
Acq On : 30 Mar 2011 8:21 pm Operator: LL
Sample : C1103055-003A 16X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:24:31 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

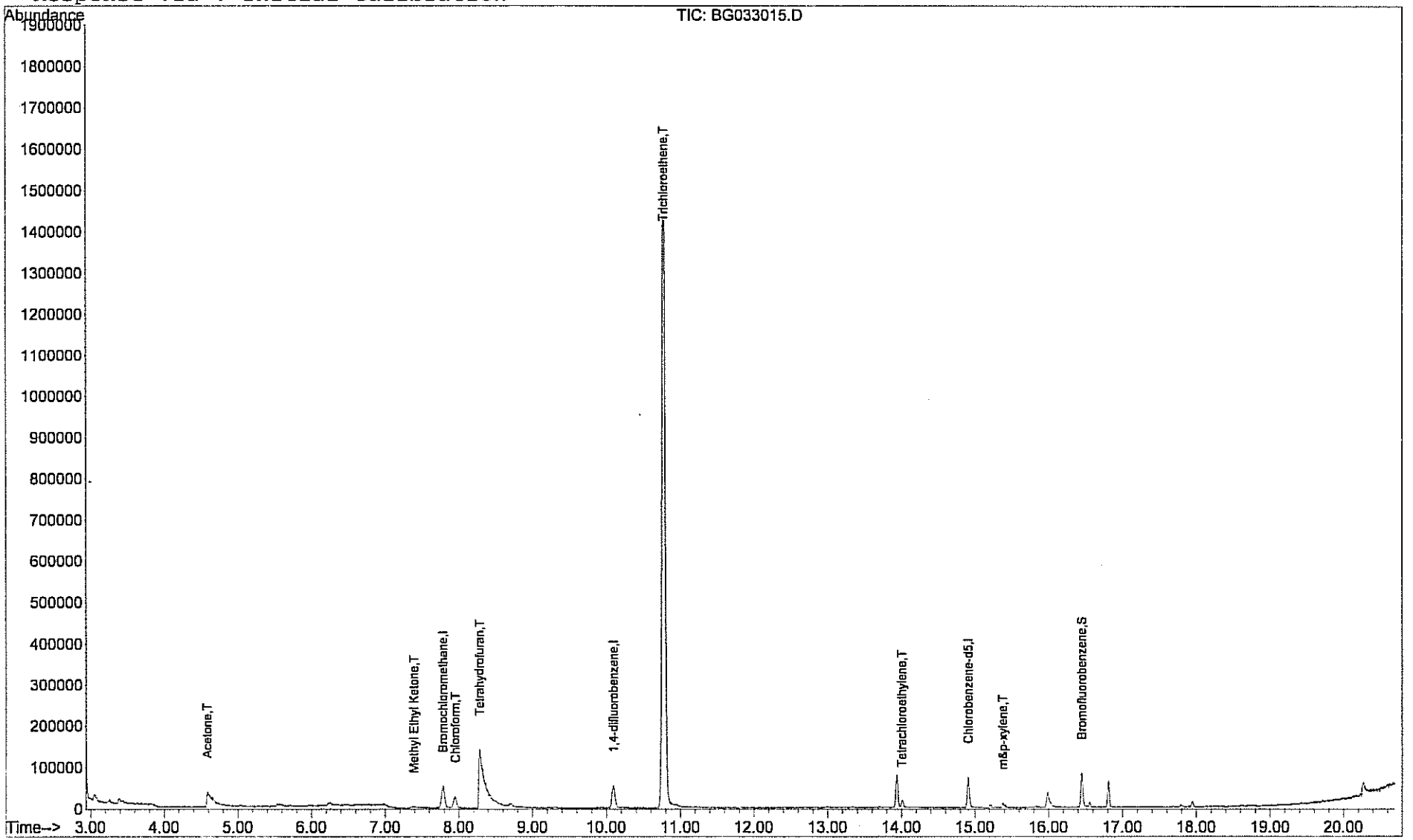
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.79	128	21043	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.09	114	55900	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	43889	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	25252m	0.72	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 72.00%			
Target Compounds						Qvalue
12) Acetone	4.59	58	33776m	4.33	ppb	
23) Methyl Ethyl Ketone	7.38	72	2697m	0.39	ppb	
27) Chloroform	7.95	83	29208	0.35	ppb	100
28) Tetrahydrofuran	8.29	42	192044m	10.69	ppb	
38) Trichloroethene	10.77	130	723894	19.65	ppb	93
50) Tetrachloroethylene	14.01	164	3637	0.10	ppb	91
53) m&p-xylene	15.38	91	10009	0.15	ppb	80

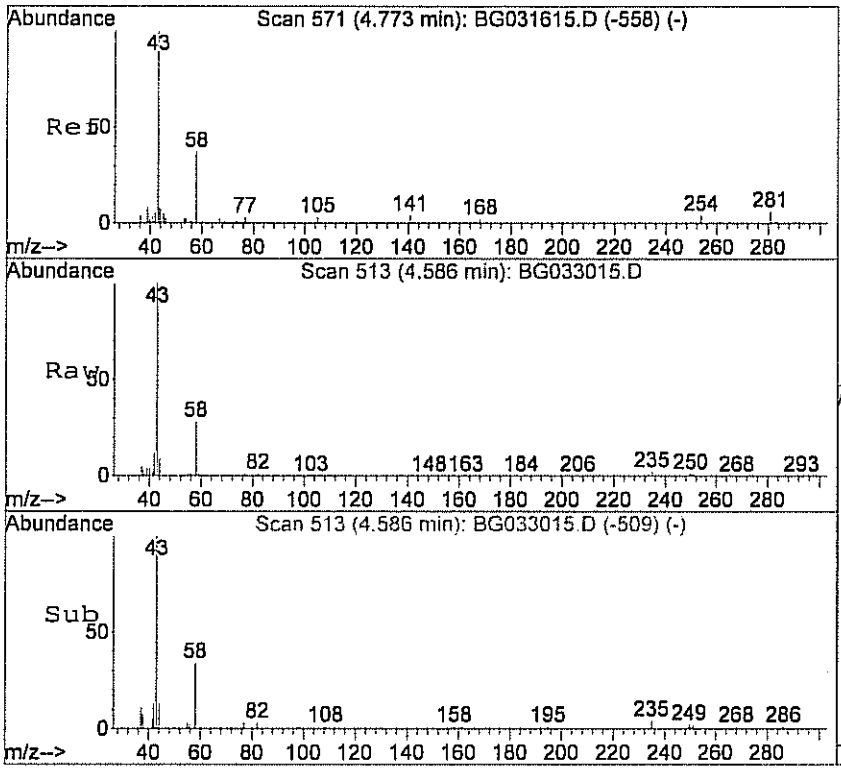
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033015.D Vial: 11
Acq On : 30 Mar 2011 8:21 pm Operator: LL
Sample : C1103055-003A 16X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:16 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

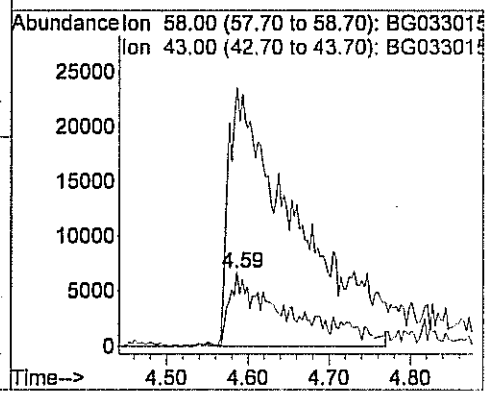


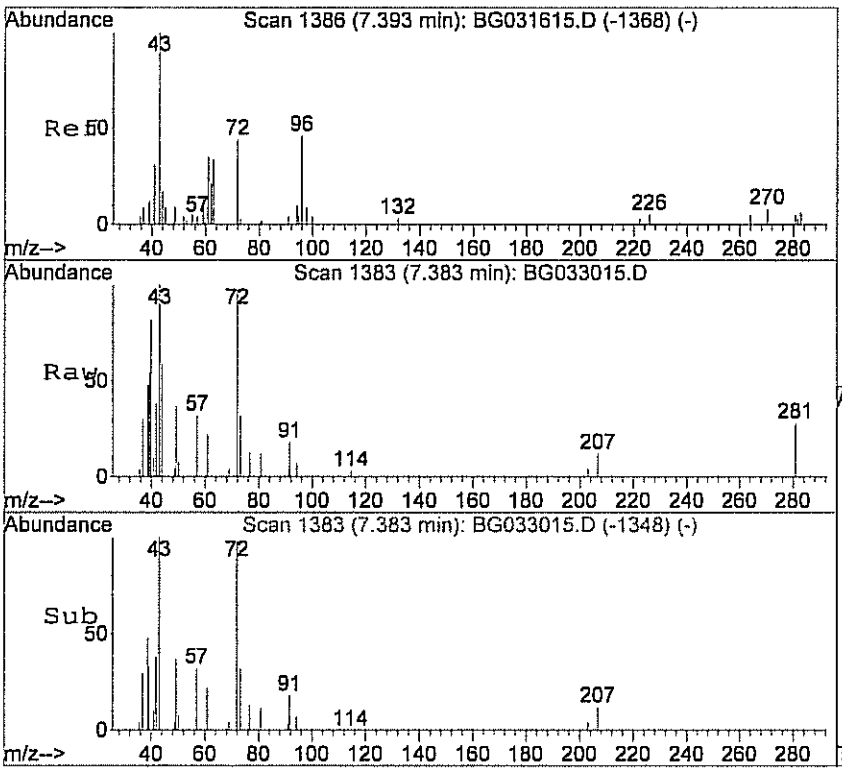


#12
Acetone
Concen: 4.33 ppb m
RT: 4.59 min Scan# 513
Delta R.T. -0.14 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion: 58 Resp: 33776

Ion	Ratio	Lower	Upper
58	100		
43	3.5	381.2	441.2#

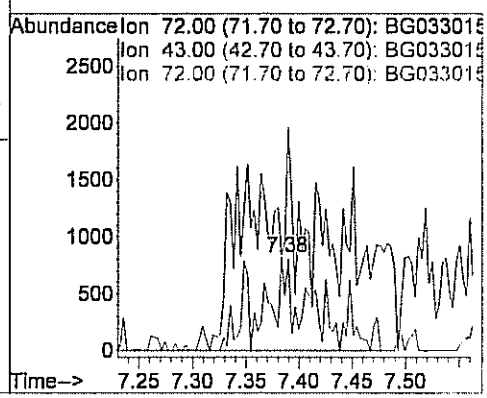


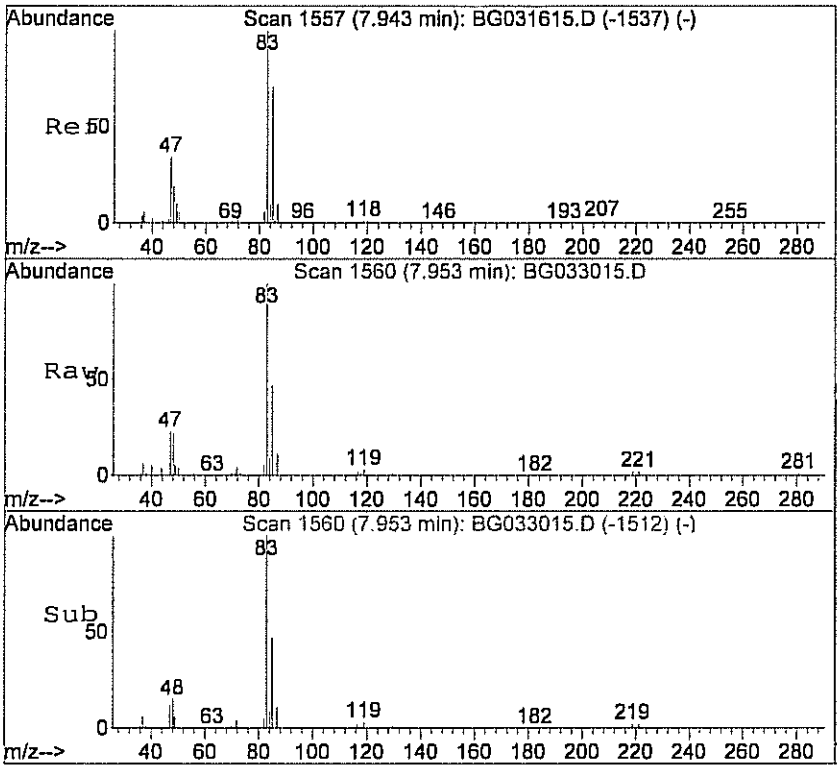


#23
Methyl Ethyl Ketone
Concen: 0.39 ppb m
RT: 7.38 min Scan# 1383
Delta R.T. -0.04 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion: 72 Resp: 2697

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	15.6	80.0	120.0#

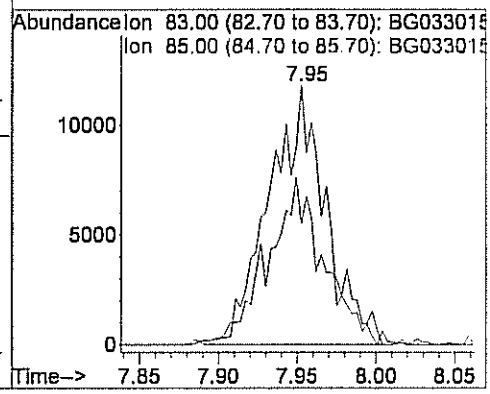


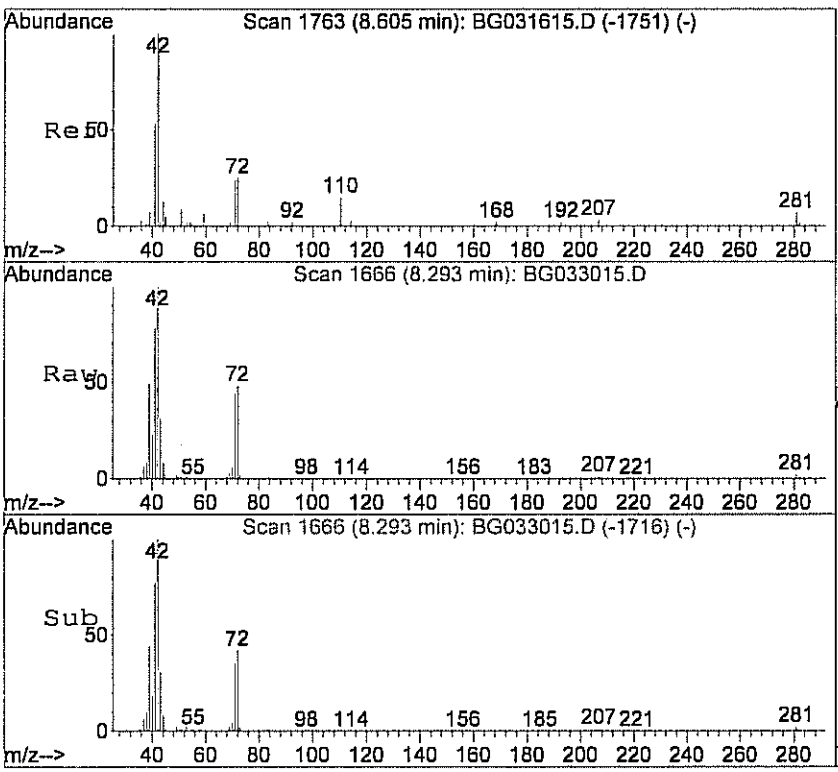


#27
Chloroform
Concen: 0.35 ppb
RT: 7.95 min Scan# 1560
Delta R.T. 0.00 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion: 83 Resp: 29208

Ion	Ratio	Lower	Upper
83	100		
85	63.5	43.8	83.8

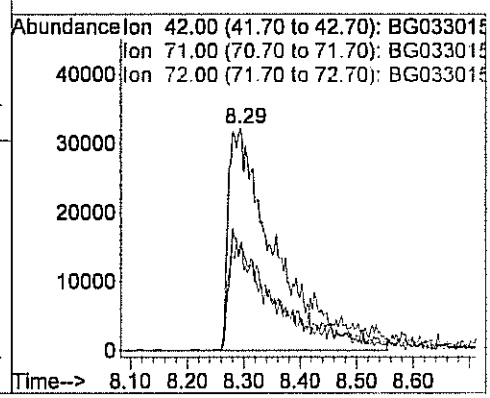


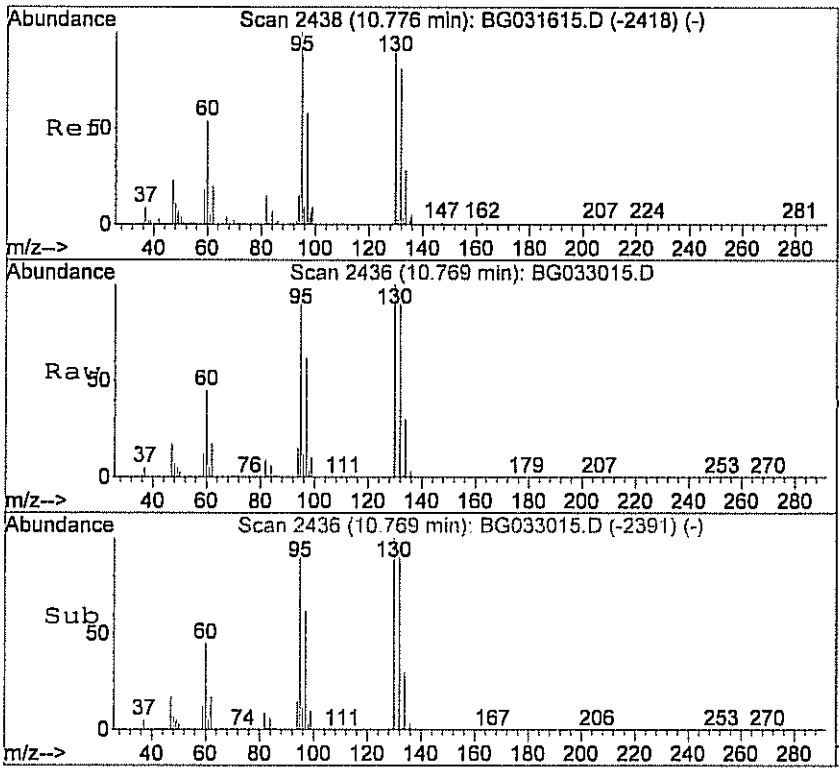


#28
Tetrahydrofuran
Concen: 10.69 ppb m
RT: 8.29 min Scan# 1666
Delta R.T. -0.31 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion: 42 Resp: 192044

Ion	Ratio	Lower	Upper
42	100		
71	0.2	32.2	72.2#
72	0.5	29.3	69.3#

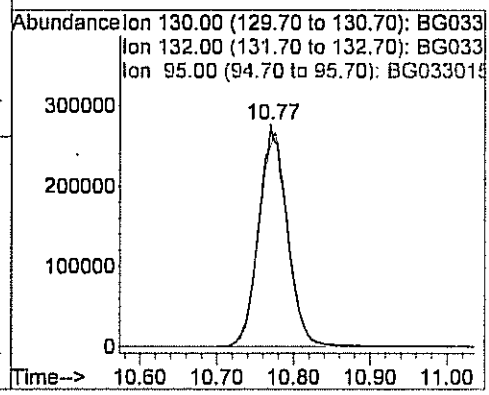


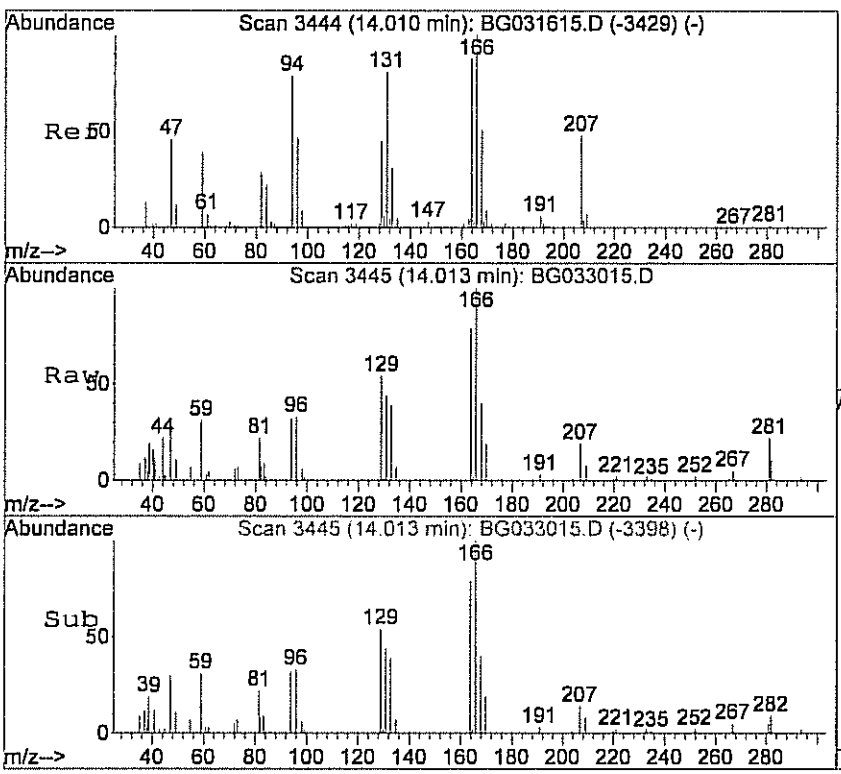


#38
Trichloroethene
Concen: 19.65 ppb
RT: 10.77 min Scan# 2436
Delta R.T. -0.01 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion:130 Resp: 723894

Ion	Ratio	Lower	Upper
130	100		
132	97.2	74.9	114.9
95	97.5	89.5	129.5

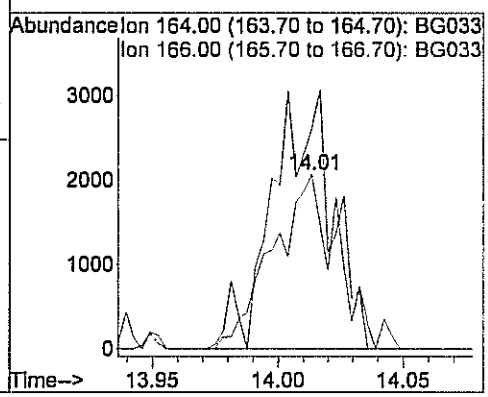


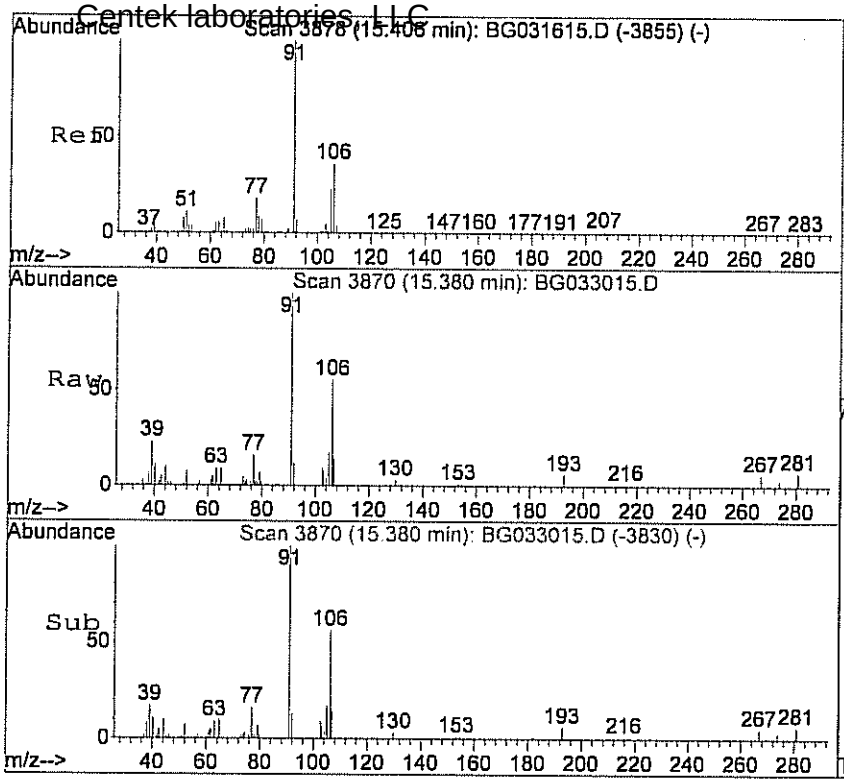


#50
Tetrachloroethylene
Concen: 0.10 ppb
RT: 14.01 min Scan# 3445
Delta R.T. -0.00 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion:164 Resp: 3637

Ion	Ratio	Lower	Upper
164	100		
166	132.1	102.3	142.3

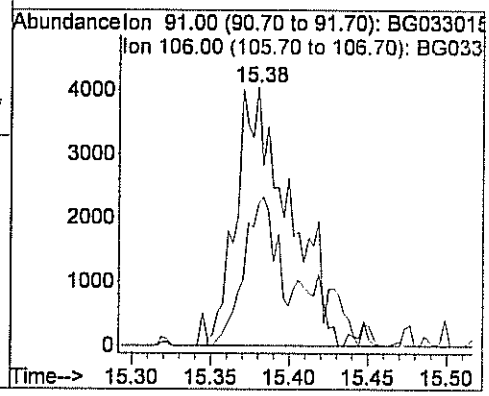




#53
m&p-xylene
Concen: 0.15 ppb
RT: 15.38 min Scan# 3870
Delta R.T. -0.02 min
Lab File: BG033015.D
Acq: 30 Mar 2011 8:21 pm

Tgt Ion: 91 Resp: 10009

Ion	Ratio	Lower	Upper
91	100		
106	47.5	15.6	55.6



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033016.D Vial: 11
Acq On : 30 Mar 2011 8:54 pm Operator: LL
Sample : C1103055-003A 40X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multip1r: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:29:31 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	19186	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.10	114	48468	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	44036	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	25225	0.71	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%			
Target Compounds						Qvalue
12) Acetone	4.66	58	13977m	1.96	ppb	
27) Chloroform	7.94	83	11415m	0.15	ppb	
28) Tetrahydrofuran	8.39	42	68592m	4.19	ppb	
38) Trichloroethene	10.77	130	248535	7.78	ppb	92

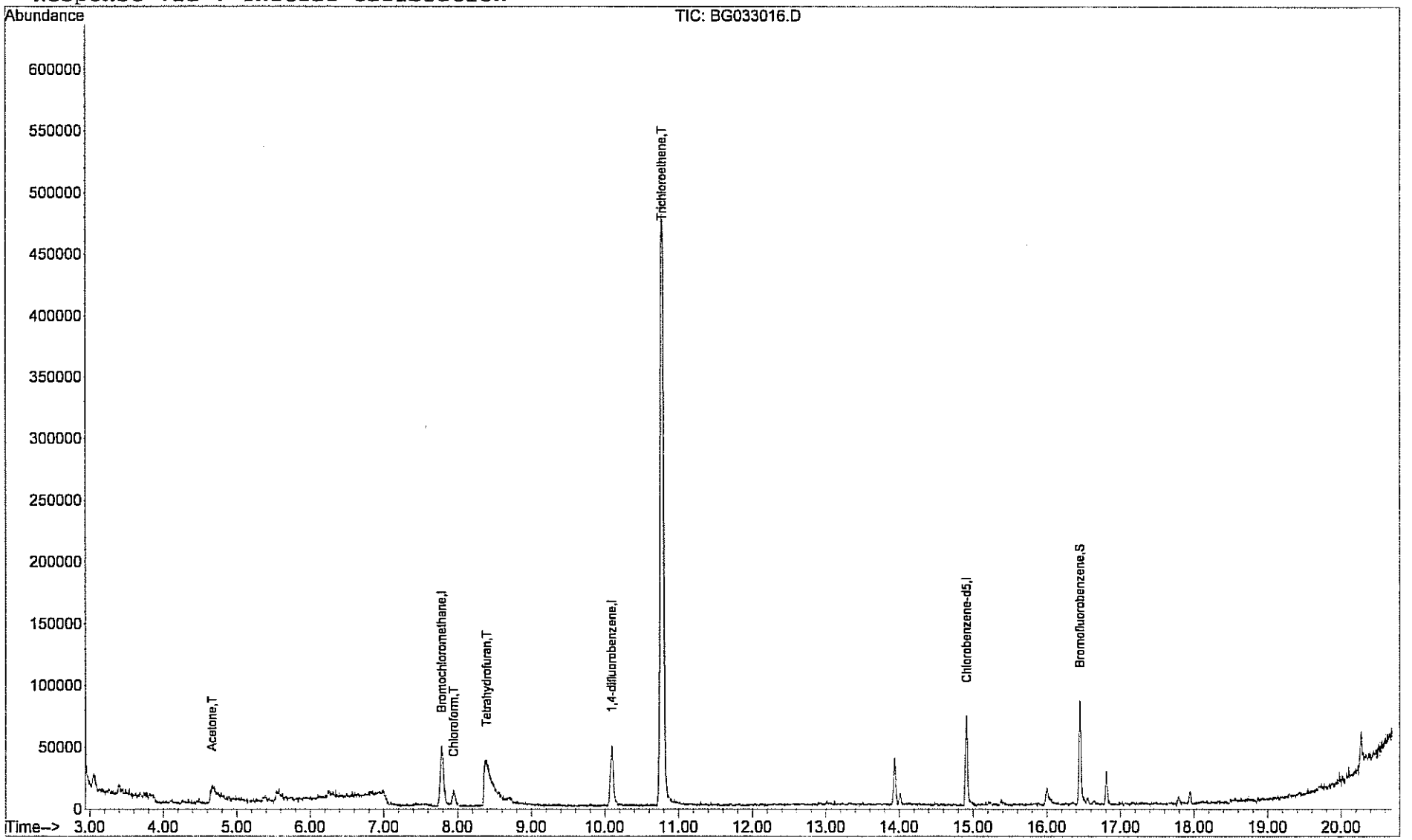
7.6 ↓

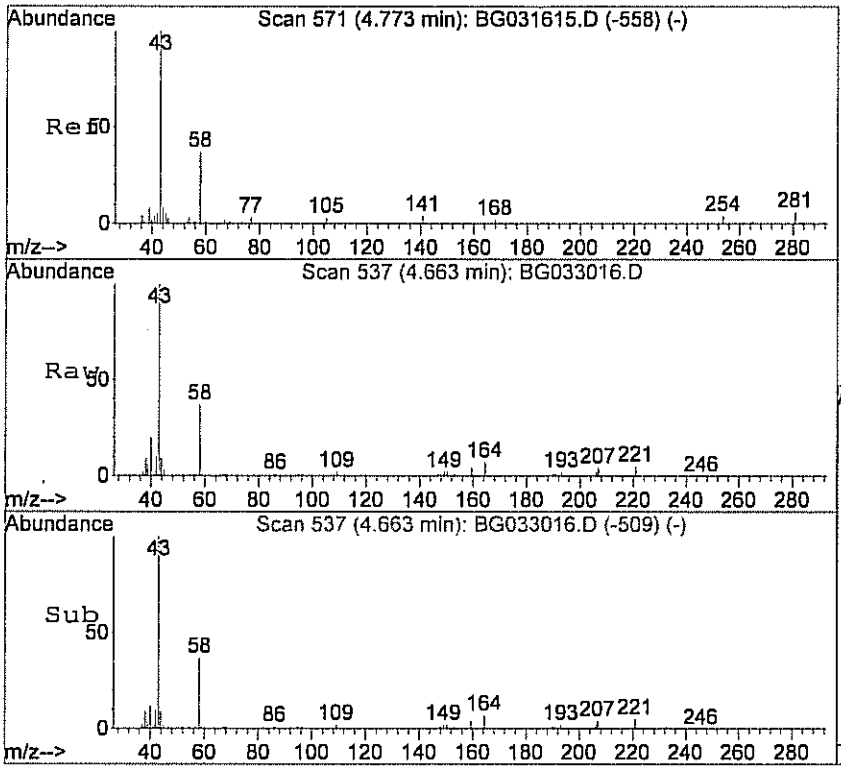
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033016.D Vial: 11
Acq On : 30 Mar 2011 8:54 pm Operator: LL
Sample : C1103055-003A 40X Inst : MSD #2
Misc : lugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 12:30 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

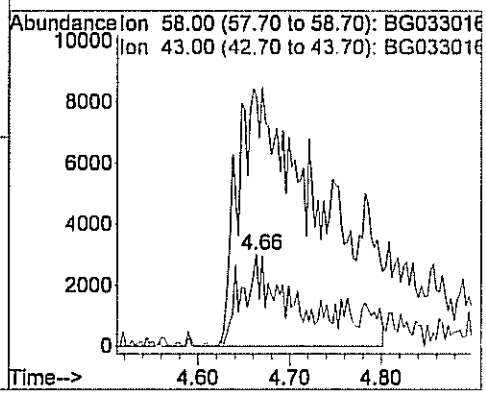


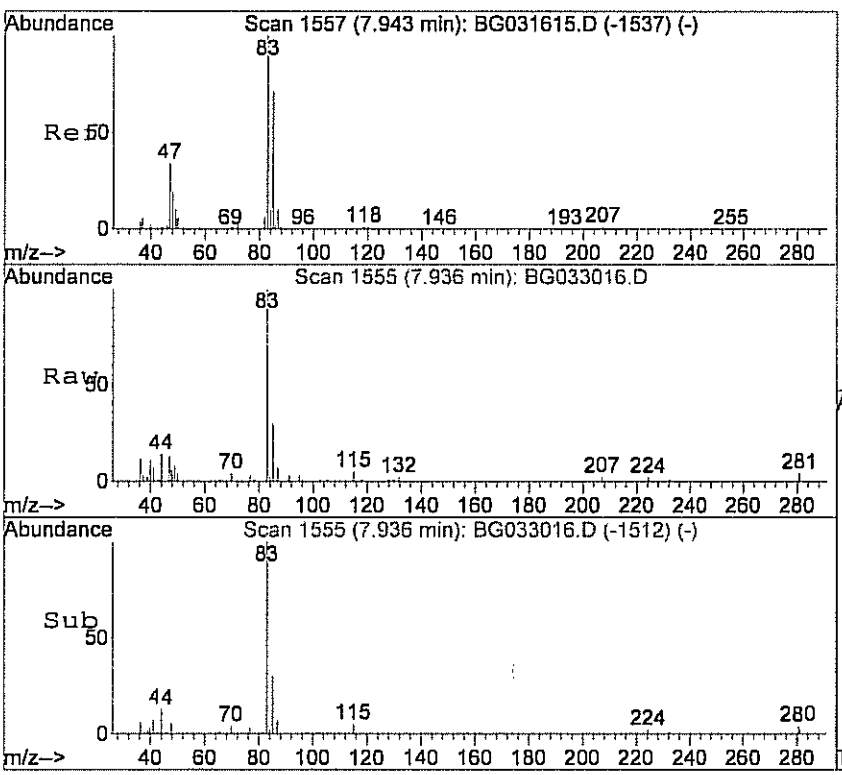


#12
Acetone
Concen: 1.96 ppb m
RT: 4.66 min Scan# 537
Delta R.T. -0.06 min
Lab File: BG033016.D
Acq: 30 Mar 2011 8:54 pm

Tgt Ion: 58 Resp: 13977

Ion	Ratio	Lower	Upper
58	100		
43	436.2	381.2	441.2

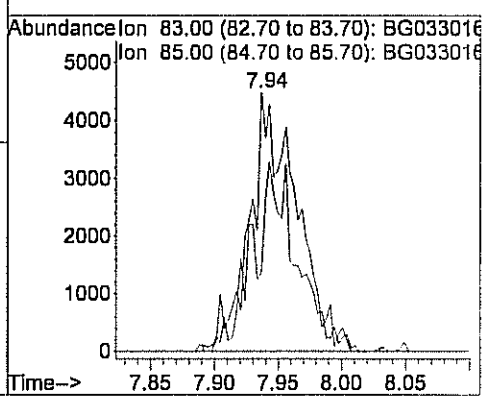


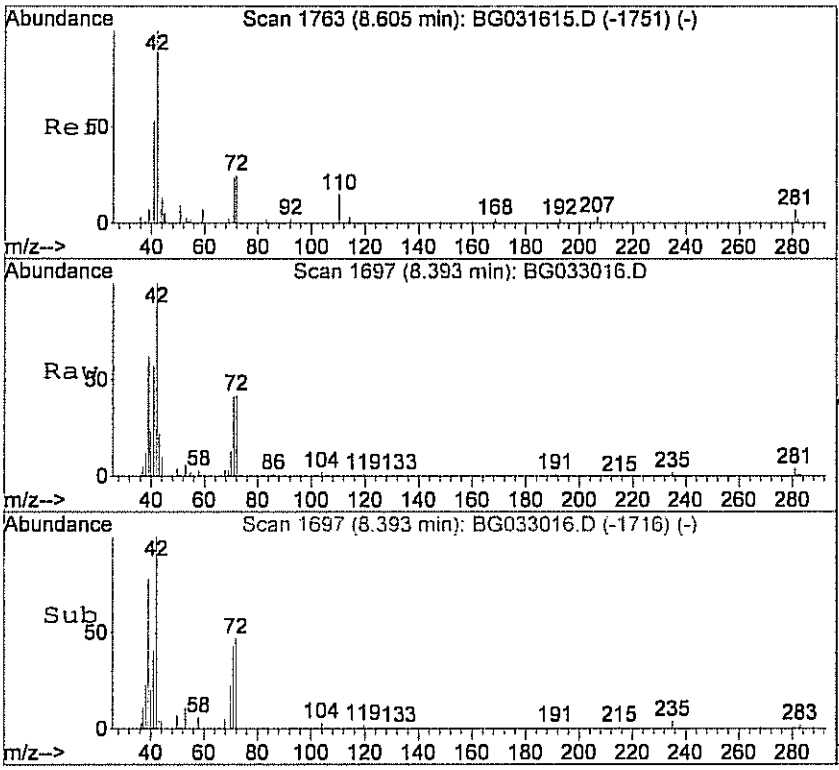


#27
Chloroform
Concen: 0.15 ppb m
RT: 7.94 min Scan# 1555
Delta R.T. -0.01 min
Lab File: BG033016.D
Acq: 30 Mar 2011 8:54 pm

Tgt Ion: 83 Resp: 11415

Ion	Ratio	Lower	Upper
83	100		
85	49.2	43.8	83.8

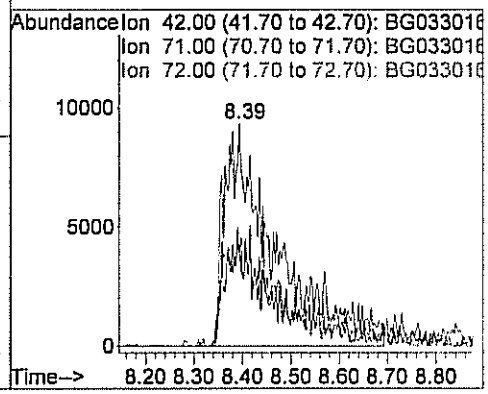


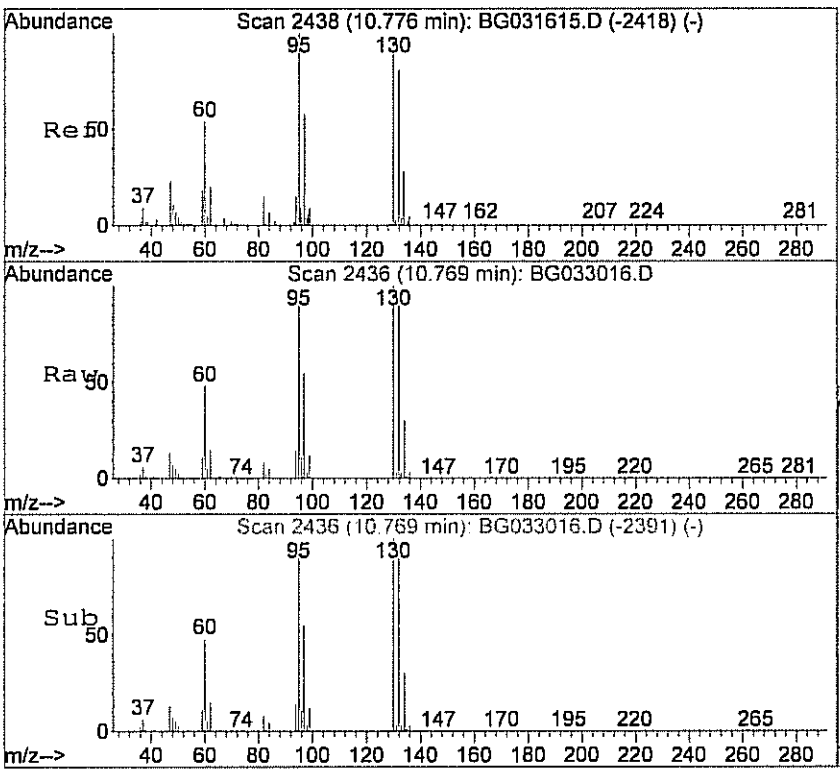


#28
Tetrahydrofuran
Concen: 4.19 ppb m
RT: 8.39 min Scan# 1697
Delta R.T. -0.21 min
Lab File: BG033016.D
Acq: 30 Mar 2011 8:54 pm

Tgt Ion: 42 Resp: 68592

Ion	Ratio	Lower	Upper
42	100		
71	0.8	32.2	72.2#
72	0.7	29.3	69.3#

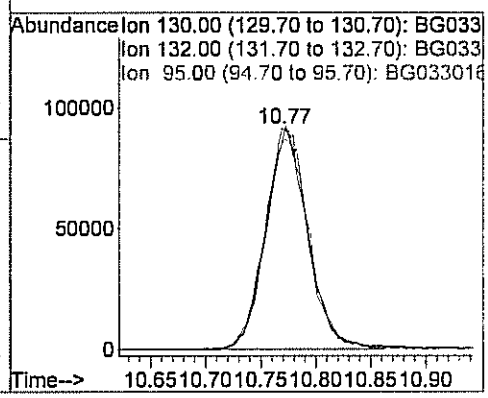




#38
Trichloroethene
Concen: 7.78 ppb
RT: 10.77 min Scan# 2436
Delta R.T. -0.01 min
Lab File: BG033016.D
Acq: 30 Mar 2011 8:54 pm

Tgt Ion:130 Resp: 248535

Ion	Ratio	Lower	Upper
130	100		
132	96.8	74.9	114.9
95	96.3	89.5	129.5



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033017.D Vial: 11
Acq On : 30 Mar 2011 9:25 pm Operator: LL
Sample : C1103055-003A 320X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:10:33 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

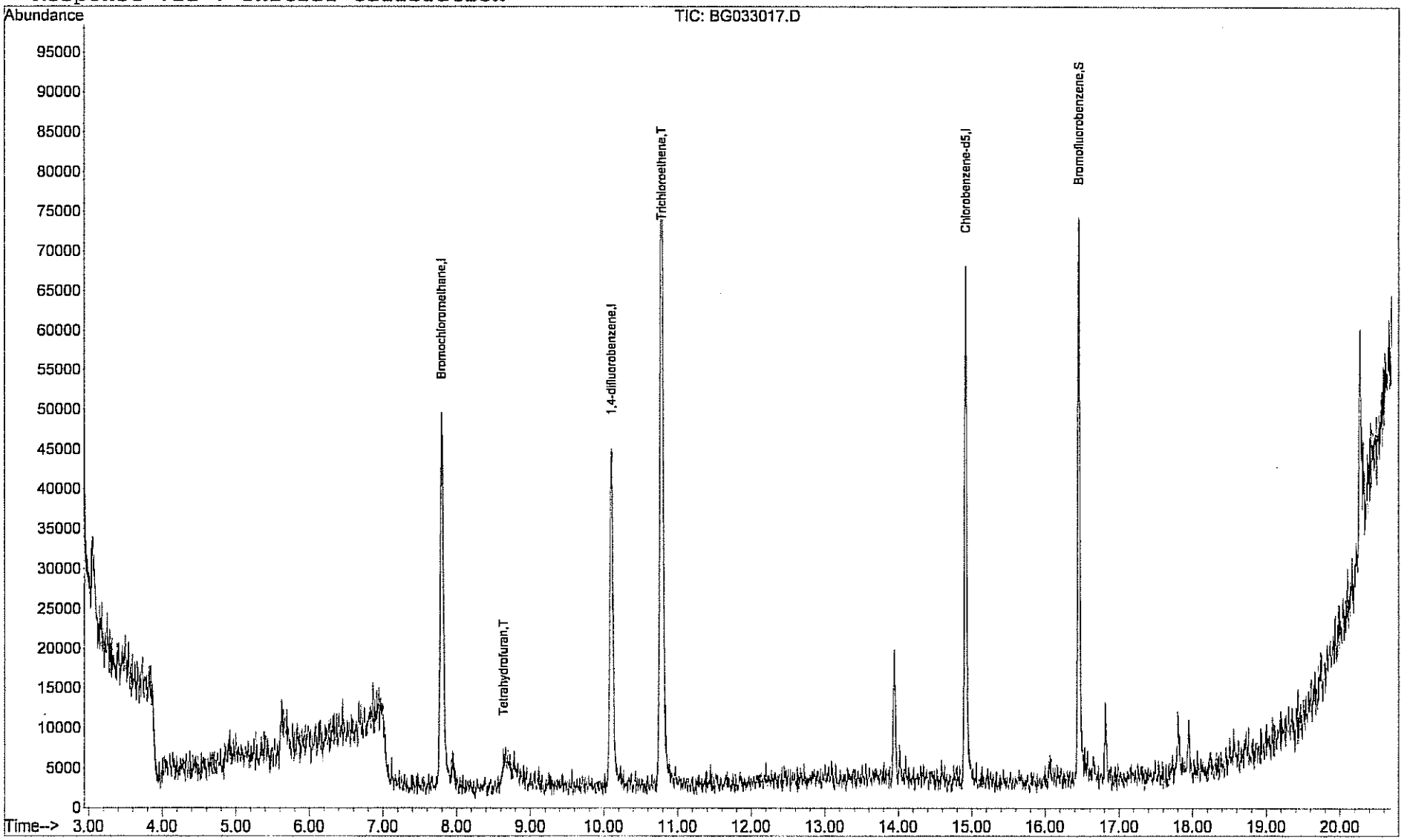
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.80	128	19840	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.11	114	46663	1.00	ppb	0.02
44) Chlorobenzene-d5	14.91	117	40250	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	22732m	0.70	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 70.00%			
Target Compounds						Qvalue
28) Tetrahydrofuran	8.63	42	10848m	0.64	ppb	
38) Trichloroethene	10.77	130	38446	1.25	ppb	89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

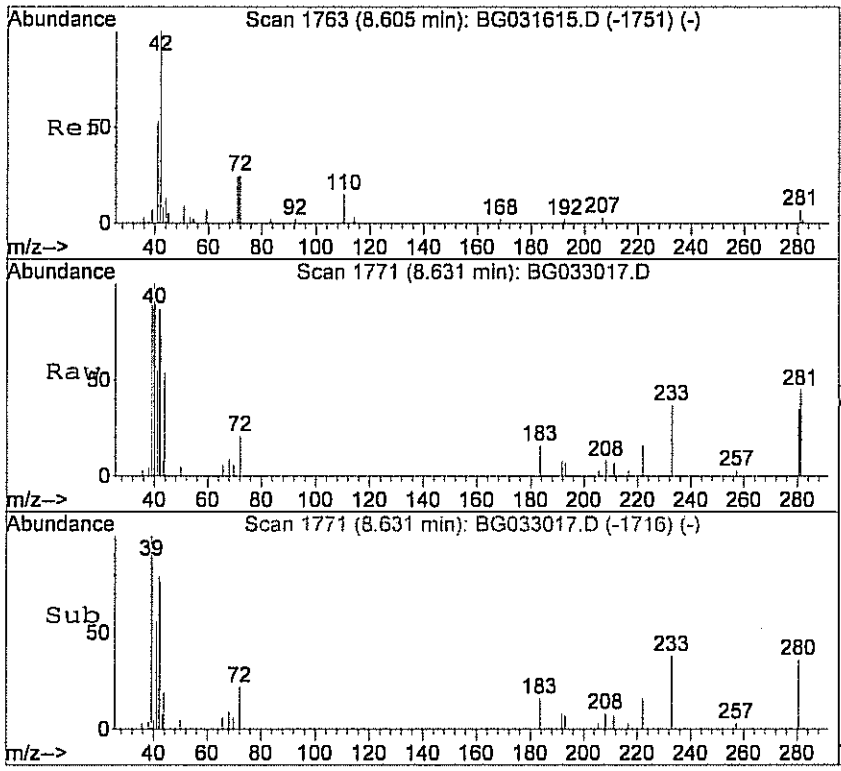
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033017.D Vial: 11
Acq On : 30 Mar 2011 9:25 pm Operator: LL
Sample : C1103055-003A 320X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:13 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



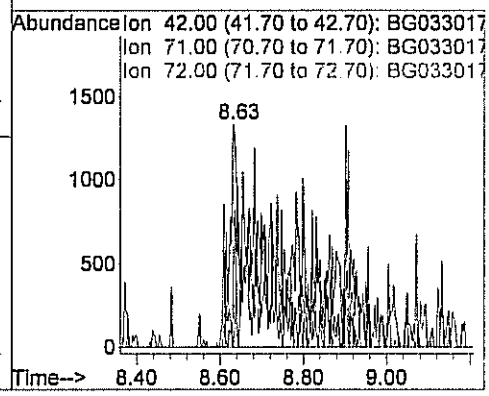
Centek laboratories, LLC

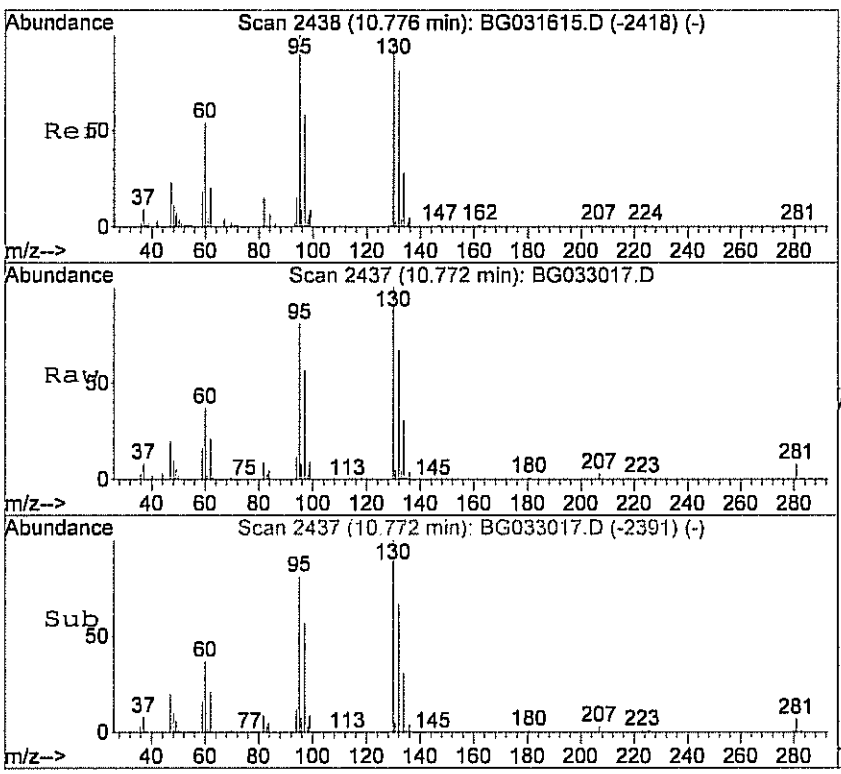


#28
Tetrahydrofuran
Concen: 0.64 ppb m
RT: 8.63 min Scan# 1771
Delta R.T. 0.03 min
Lab File: BG033017.D
Acq: 30 Mar 2011 9:25 pm

Tgt Ion: 42 Resp: 10848

Ion	Ratio	Lower	Upper
42	100		
71	1.6	32.2	72.2#
72	0.5	29.3	69.3#

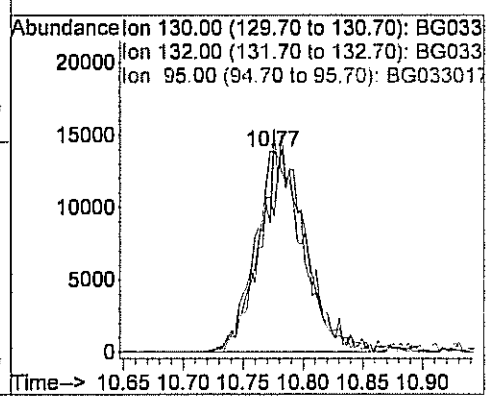




#38
Trichloroethene
Concen: 1.25 ppb
RT: 10.77 min Scan# 2437
Delta R.T. -0.00 min
Lab File: BG033017.D
Acq: 30 Mar 2011 9:25 pm

Tgt Ion:130 Resp: 38446

Ion	Ratio	Lower	Upper
130	100		
132	100.9	74.9	114.9
95	94.0	89.5	129.5



Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Acetone	20	3.0		ppbV	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloromethane	1.2	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
Ethylbenzene	0.12	0.15	J	ppbV	1	3/26/2011 4:04:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 12	0.75	0.15		ppbV	1	3/26/2011 4:04:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
m&p-Xylene	0.52	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	3.6	3.0		ppbV	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Methylene chloride	0.14	0.15	J	ppbV	1	3/26/2011 4:04:00 AM
o-Xylene	0.18	0.15		ppbV	1	3/26/2011 4:04:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	27	6.0		ppbV	40	3/30/2011 10:29:00 PM
Toluene	0.58	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Trichloroethene	0.20	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Acetone	48	7.2		ug/m3	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 4:04:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 4:04:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 4:04:00 AM
Chloromethane	2.5	0.31		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
Ethylbenzene	0.53	0.66	J	ug/m3	1	3/26/2011 4:04:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 4:04:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	3.8	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 4:04:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	11	9.0		ug/m3	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 4:04:00 AM
Methylene chloride	0.49	0.53	J	ug/m3	1	3/26/2011 4:04:00 AM
o-Xylene	0.79	0.66		ug/m3	1	3/26/2011 4:04:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 4:04:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	82	18		ug/m3	40	3/30/2011 10:29:00 PM
Toluene	2.2	0.57		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Trichloroethene	1.1	0.82		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032525.D Vial: 12
Acq On : 26 Mar 2011 4:04 am Operator: LL
Sample : C1103055-004A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:19:52 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

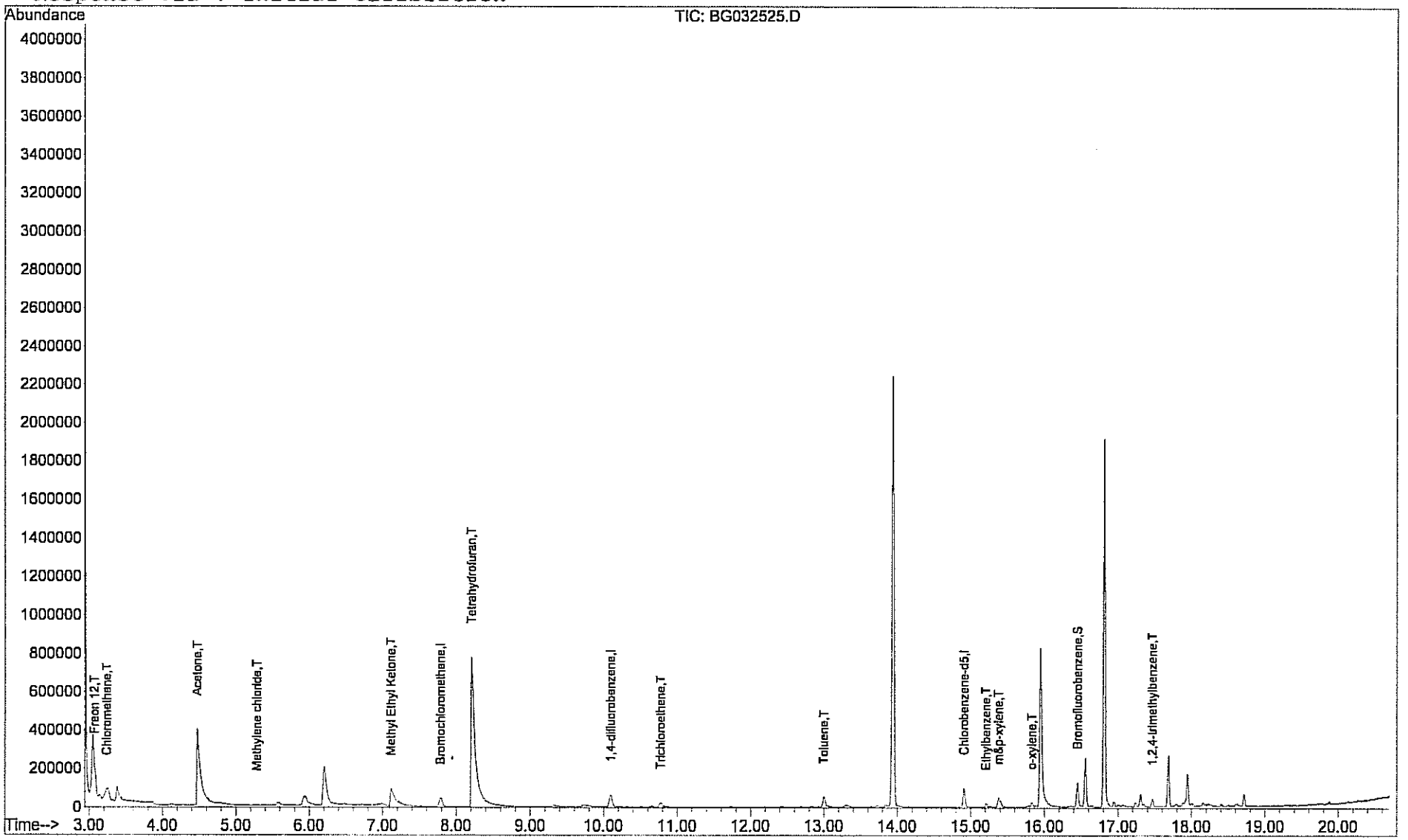
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	17086	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.10	114	62069	1.00	ppb	0.01
44) Chlorobenzene-d5	14.91	117	53164	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	37337	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
3) Freon 12	3.08	85	110695	0.75	ppb	97
4) Chloromethane	3.23	50	45768	1.18	ppb	73
12) Acetone	4.47	58	214717m	33.86	ppb	
16) Methylene chloride	5.29	84	2897m	0.14	ppb	
23) Methyl Ethyl Ketone	7.12	72	63774m	11.48	ppb	
28) Tetrahydrofuran	8.21	42	755063m	51.76	ppb	
38) Trichloroethene	10.78	130	8015m	0.20	ppb	
45) Toluene	12.99	92	25107	0.58	ppb	98
52) Ethylbenzene	15.22	91	11803	0.12	ppb	85
53) m&p-xylene	15.38	91	41980	0.52	ppb	86
56) o-xylene	15.84	91	15061	0.18	ppb	93
61) 1,2,4-trimethylbenzene	17.48	105	22074	0.35	ppb	97

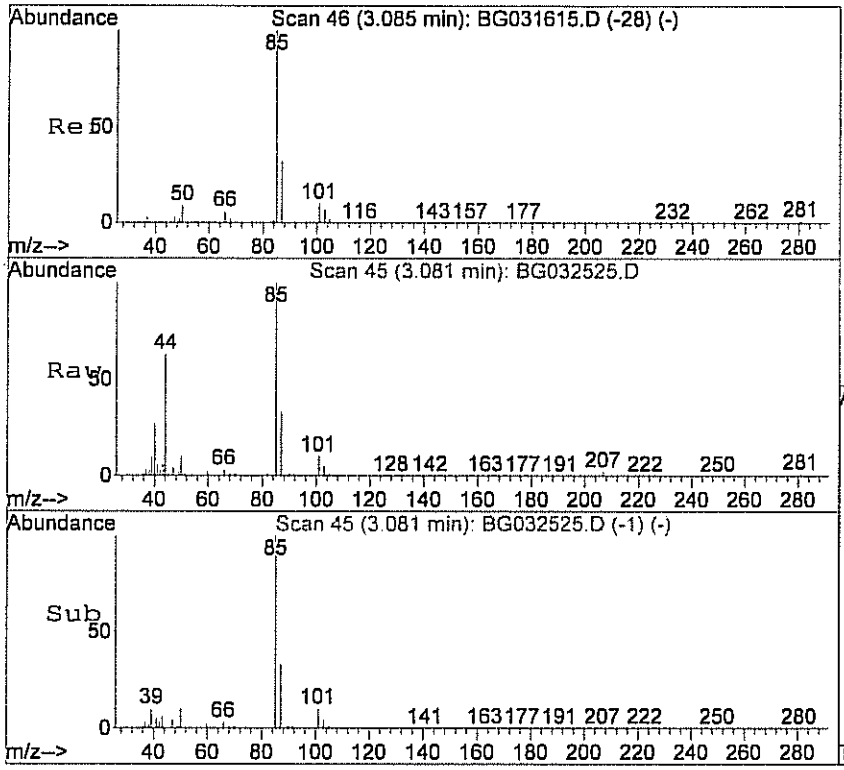
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032525.D Vial: 12
Acq On : 26 Mar 2011 4:04 am Operator: LL
Sample : C1103055-004A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:31 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

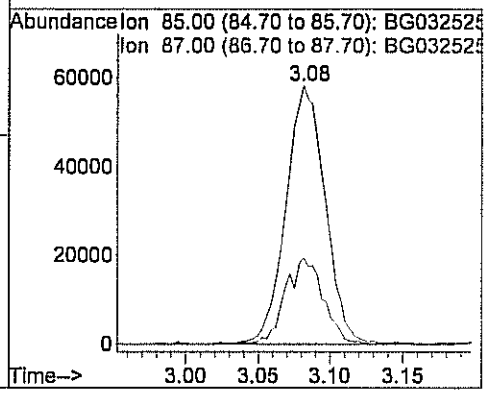


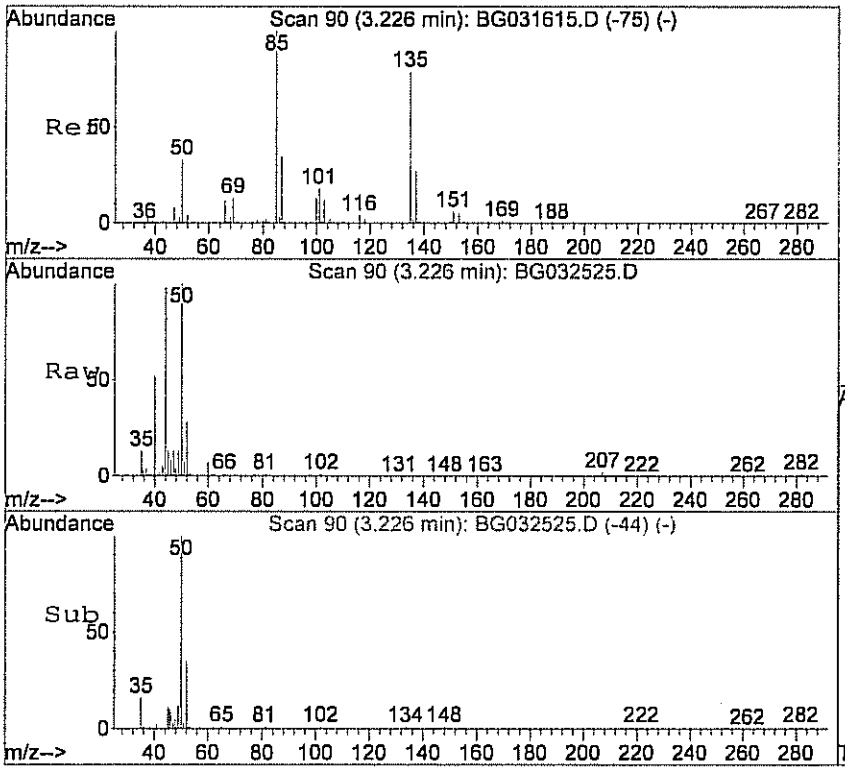


#3
Freon 12
Concen: 0.75 ppb
RT: 3.08 min Scan# 45
Delta R.T. -0.00 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 85 Resp: 110695

Ion	Ratio	Lower	Upper
85	100		
87	32.2	10.7	50.7

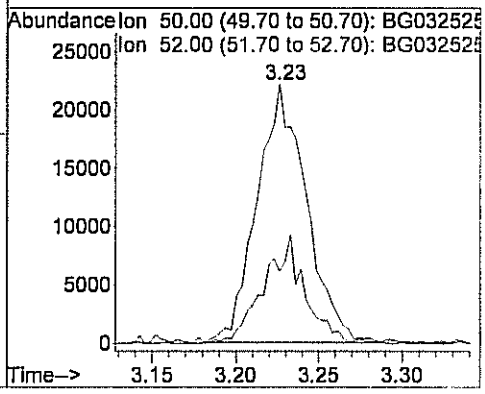


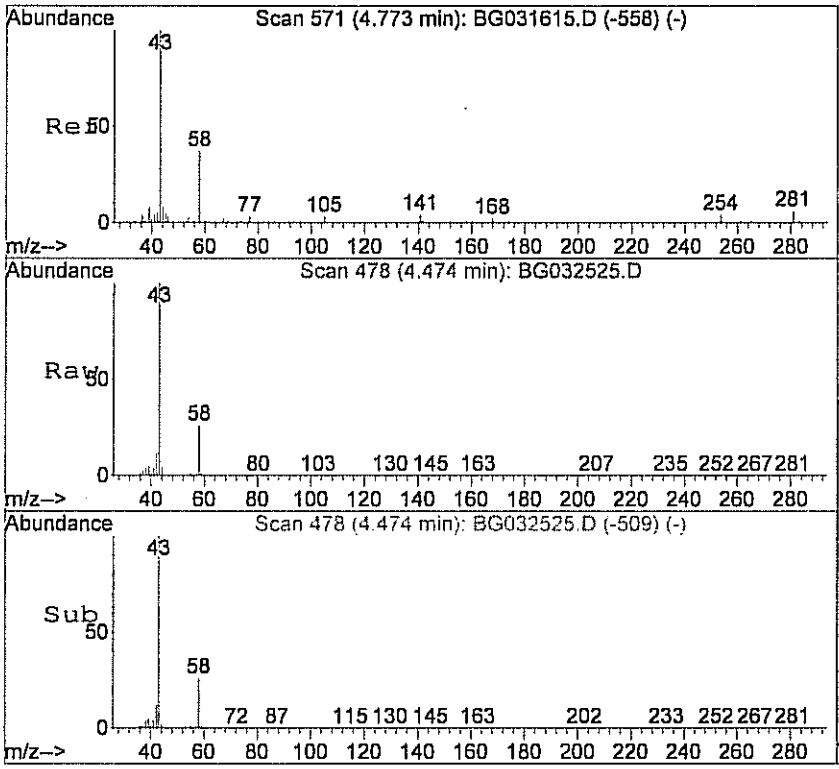


#4
Chloromethane
Concen: 1.18 ppb
RT: 3.23 min Scan# 90
Delta R.T. -0.00 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 50 Resp: 45768

Ion	Ratio	Lower	Upper
50	100		
52	35.0	2.3	42.3

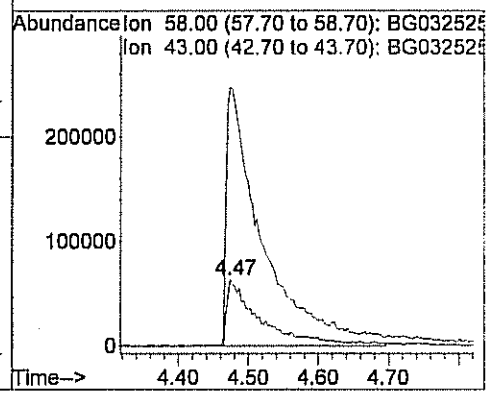


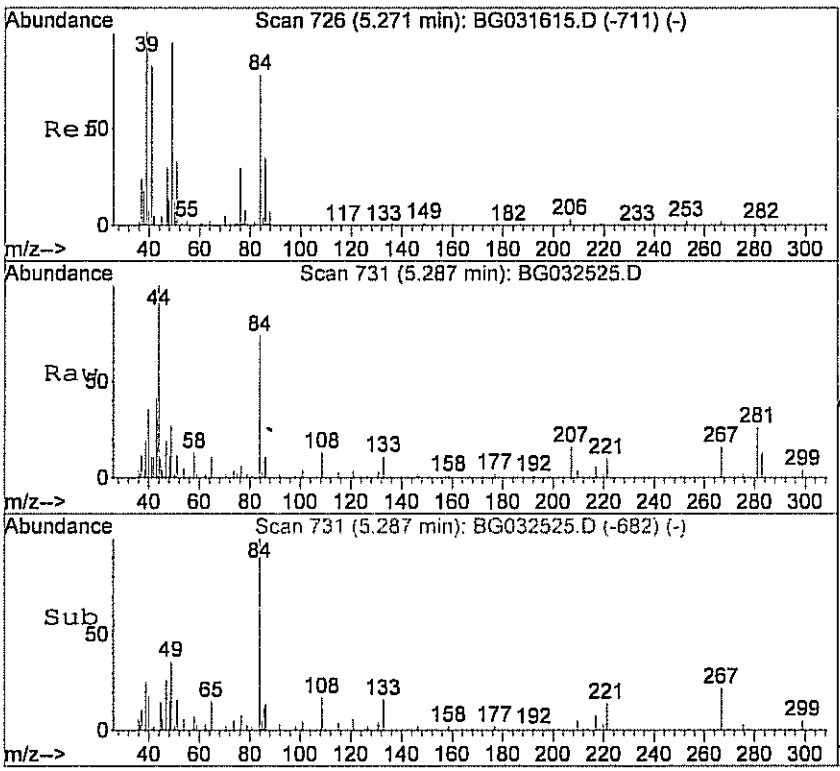


#12
Acetone
Concen: 33.86 ppb m
RT: 4.47 min Scan# 478
Delta R.T. -0.25 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 58 Resp: 214717

Ion	Ratio	Lower	Upper
58	100		
43	0.0	381.2	441.2#

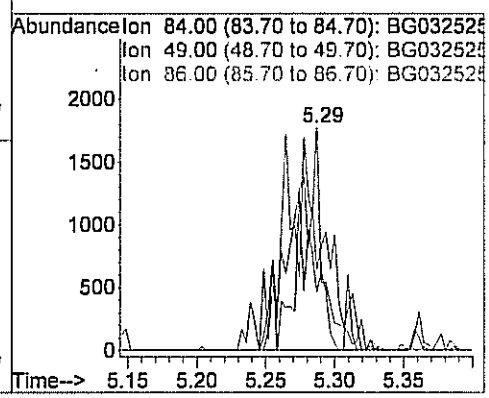


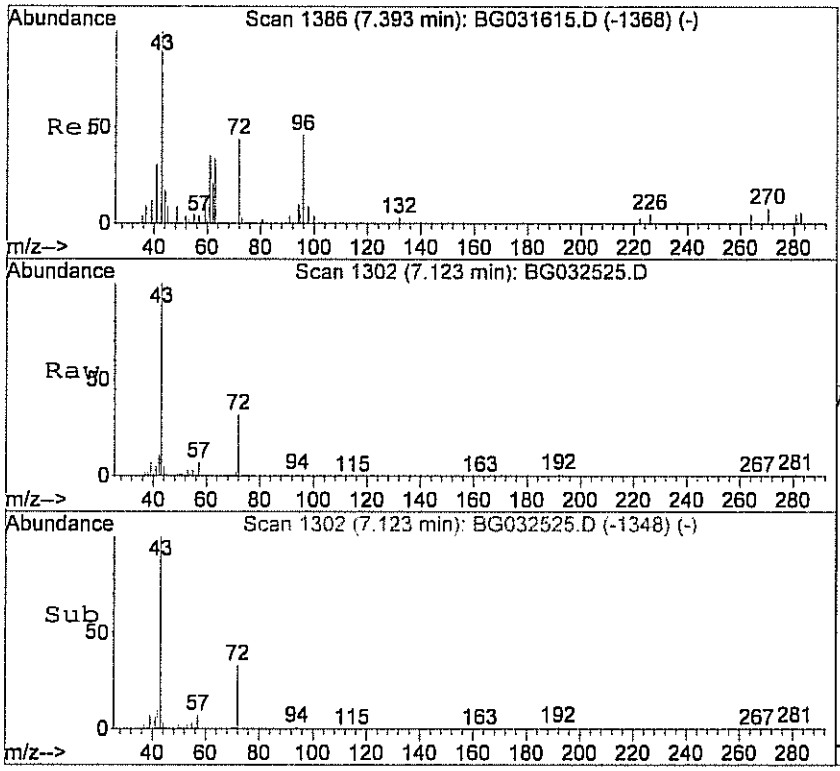


#16
Methylene chloride
Concen: 0.14 ppb m
RT: 5.29 min Scan# 731
Delta R.T. 0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 84 Resp: 2897

Ion	Ratio	Lower	Upper
84	100		
49	89.6	111.4	151.4#
86	39.3	39.2	79.2

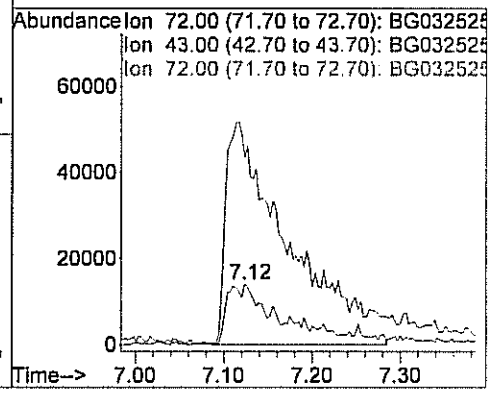


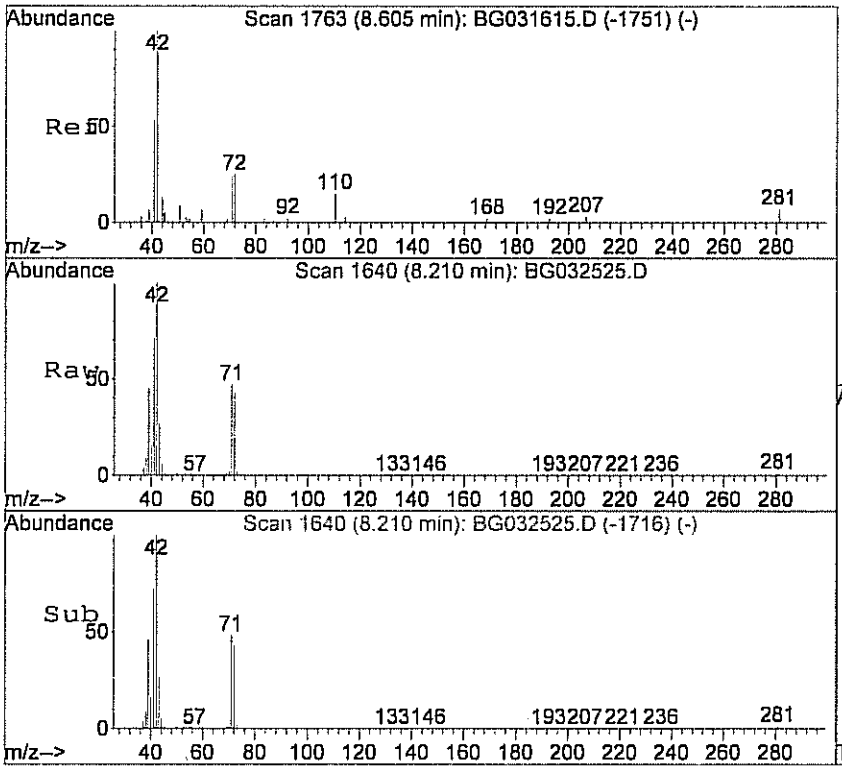


#23
Methyl Ethyl Ketone
Concen: 11.48 ppb m
RT: 7.12 min Scan# 1302
Delta R.T. -0.30 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 72 Resp: 63774

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	0.8	80.0	120.0#

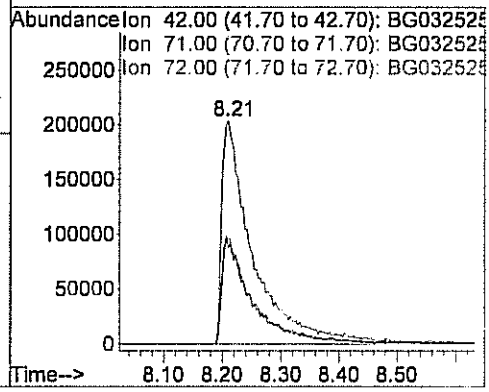


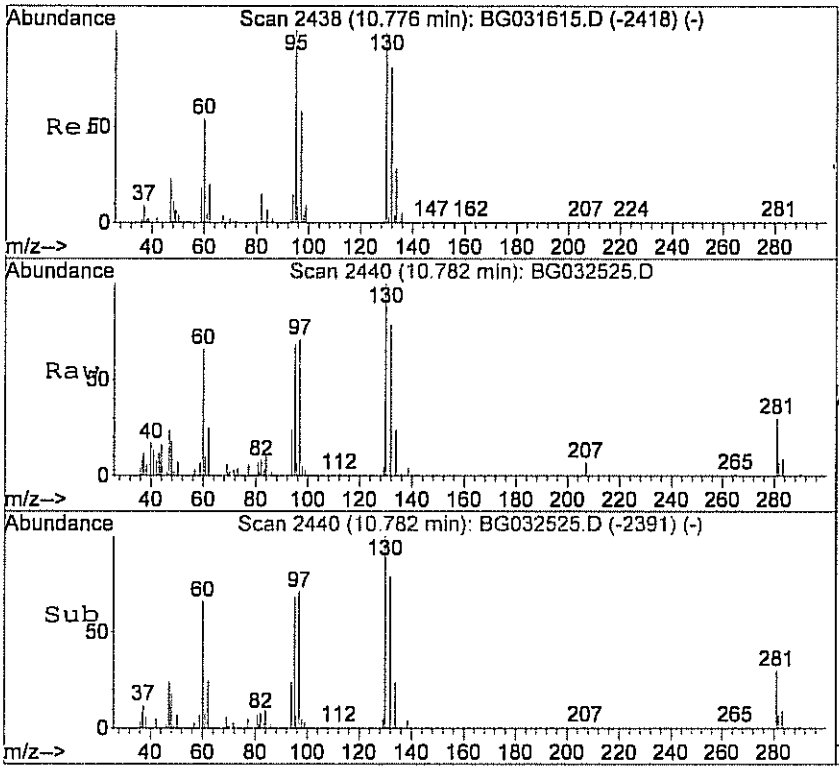


#28
Tetrahydrofuran
Concen: 51.76 ppb m
RT: 8.21 min Scan# 1640
Delta R.T. -0.40 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 42 Resp: 755063

Ion	Ratio	Lower	Upper
42	100		
71	0.1	32.2	72.2#
72	0.1	29.3	69.3#

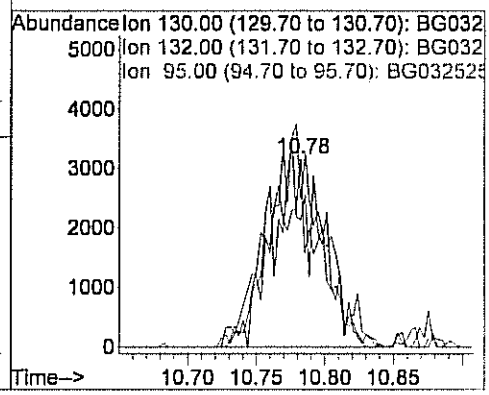


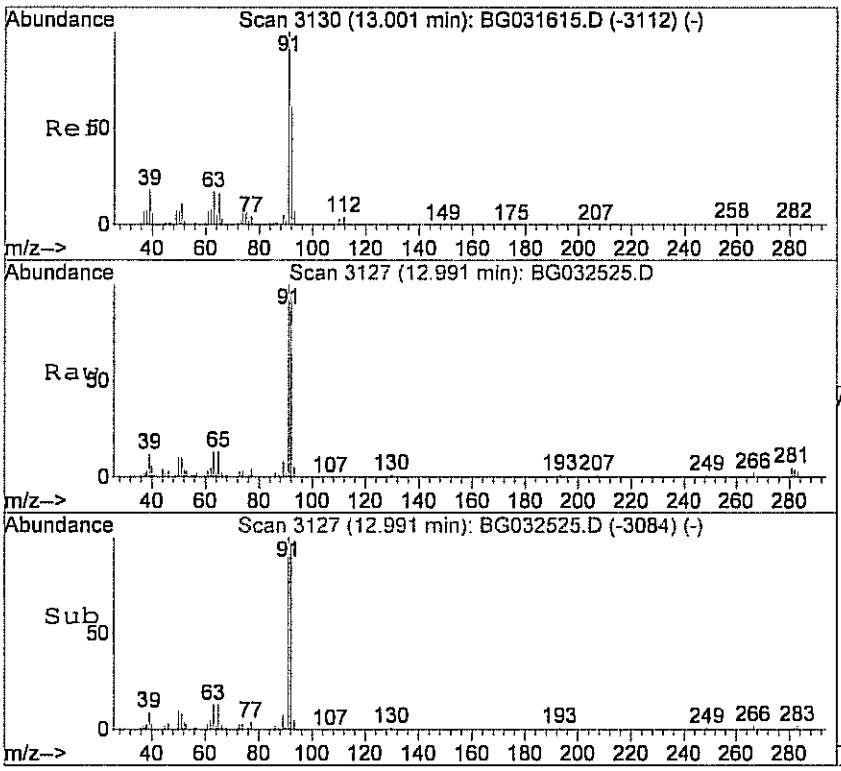


#38
Trichloroethene
Concen: 0.20 ppb m
RT: 10.78 min Scan# 2440
Delta R.T. 0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion:130 Resp: 8015

Ion	Ratio	Lower	Upper
130	100		
132	119.5	74.9	114.9#
95	102.6	89.5	129.5

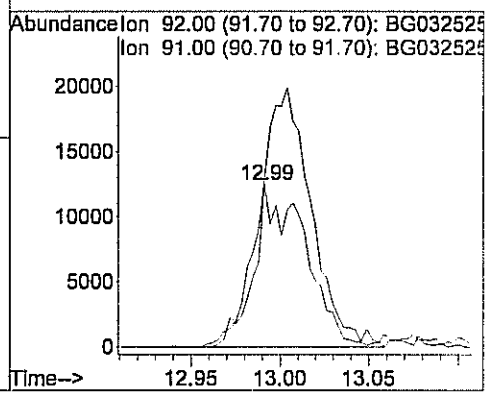


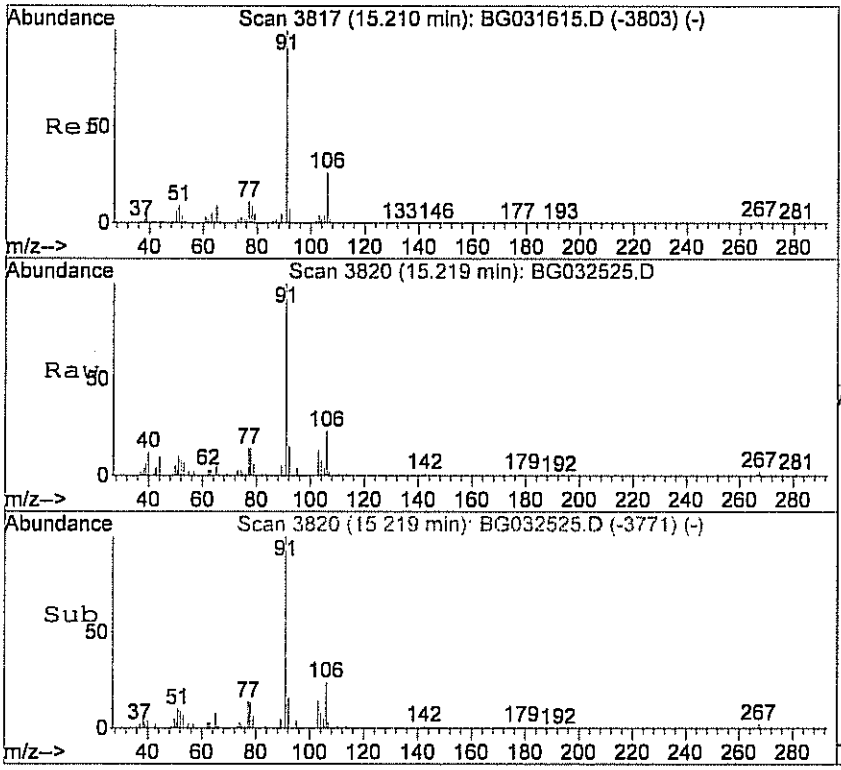


#45
Toluene
Concen: 0.58 ppb
RT: 12.99 min Scan# 3127
Delta R.T. -0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 92 Resp: 25107

Ion	Ratio	Lower	Upper
92	100		
91	168.0	145.8	185.8

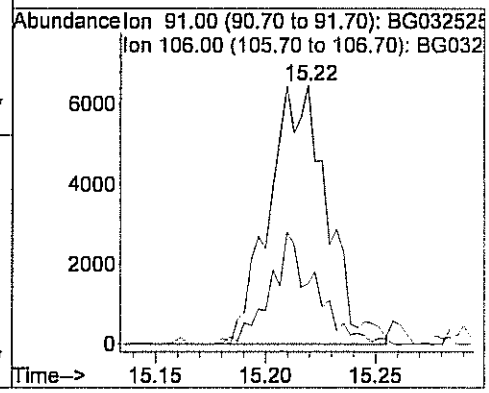


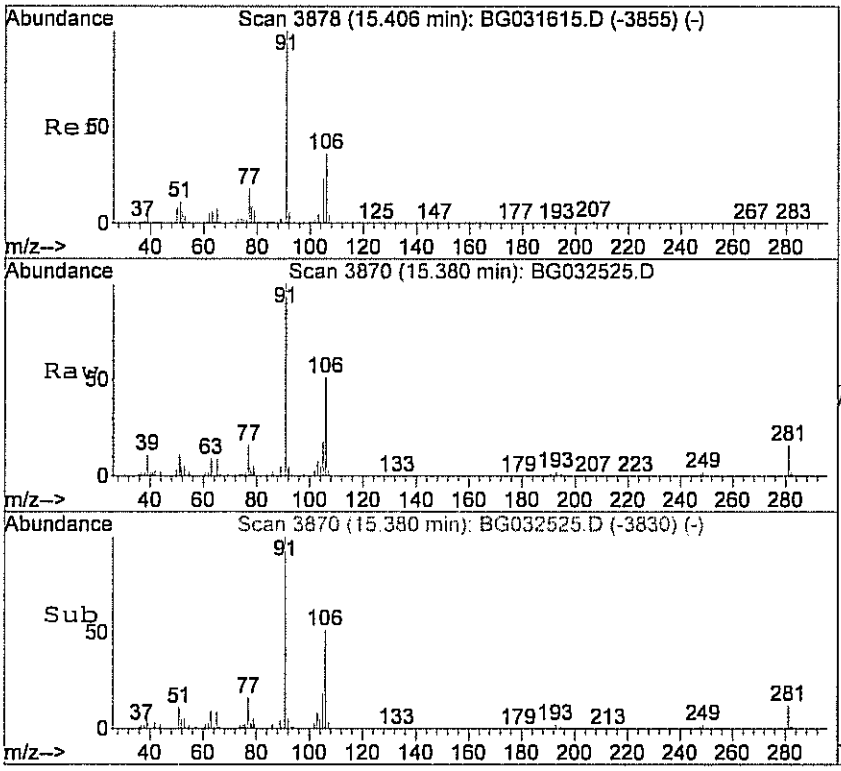


#52
Ethylbenzene
Concen: 0.12 ppb
RT: 15.22 min Scan# 3820
Delta R.T. 0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 91 Resp: 11803

Ion	Ratio	Lower	Upper
91	100		
106	33.1	5.5	45.5

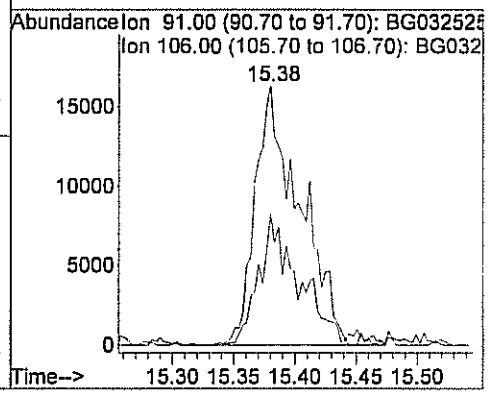


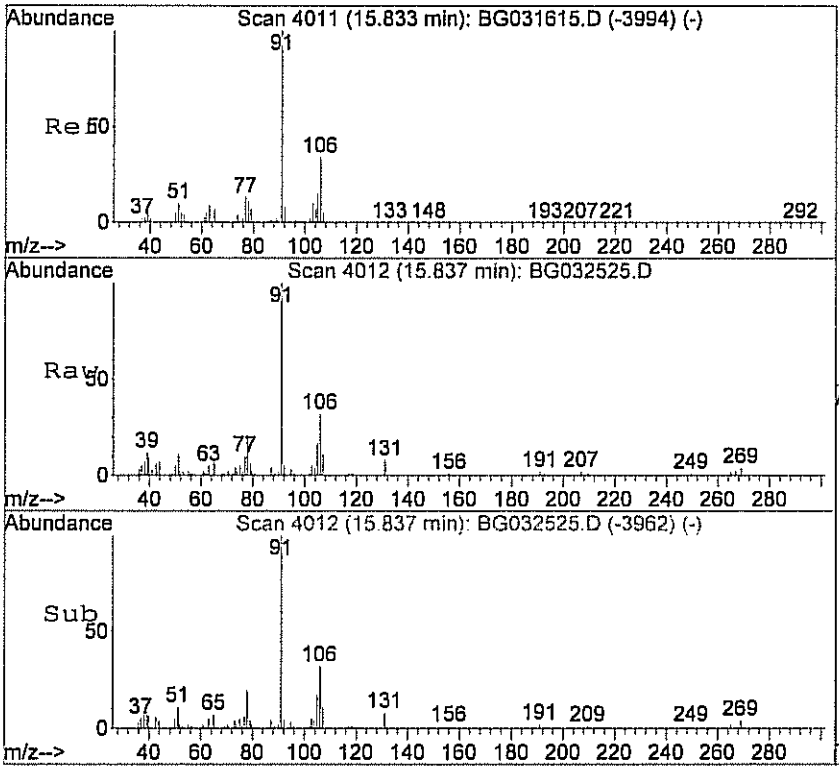


#53
m&p-xylene
Concen: 0.52 ppb
RT: 15.38 min Scan# 3870
Delta R.T. -0.02 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 91 Resp: 41980

Ion	Ratio	Lower	Upper
91	100		
106	43.8	15.6	55.6

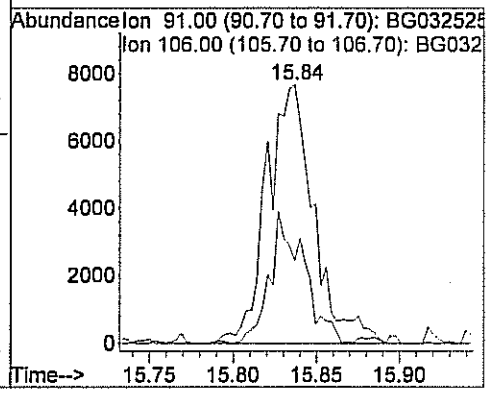


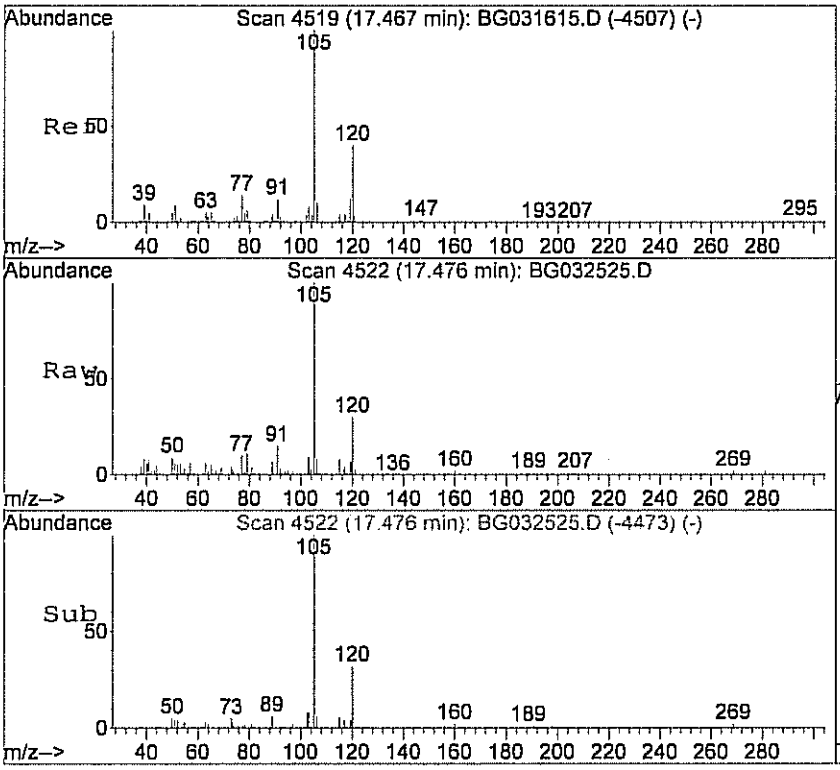


#56
o-xylene
Concen: 0.18 ppb
RT: 15.84 min Scan# 4012
Delta R.T. 0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion: 91 Resp: 15061

Ion	Ratio	Lower	Upper
91	100		
106	36.7	20.9	60.9

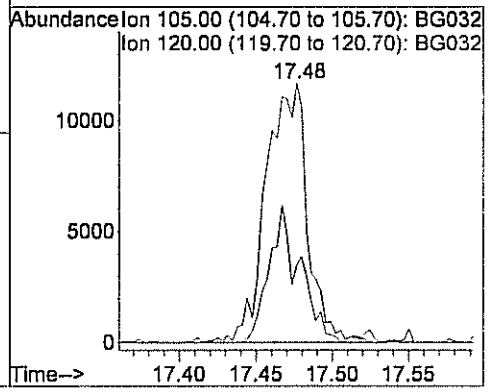




#61
1,2,4-trimethylbenzene
Concen: 0.35 ppb
RT: 17.48 min Scan# 4522
Delta R.T. 0.01 min
Lab File: BG032525.D
Acq: 26 Mar 2011 4:04 am

Tgt Ion:105 Resp: 22074

Ion	Ratio	Lower	Upper
105	100		
120	39.2	21.2	61.2



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033018.D Vial: 12
Acq On : 30 Mar 2011 9:56 pm Operator: LL
Sample : C1103055-004A 10X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:27:40 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

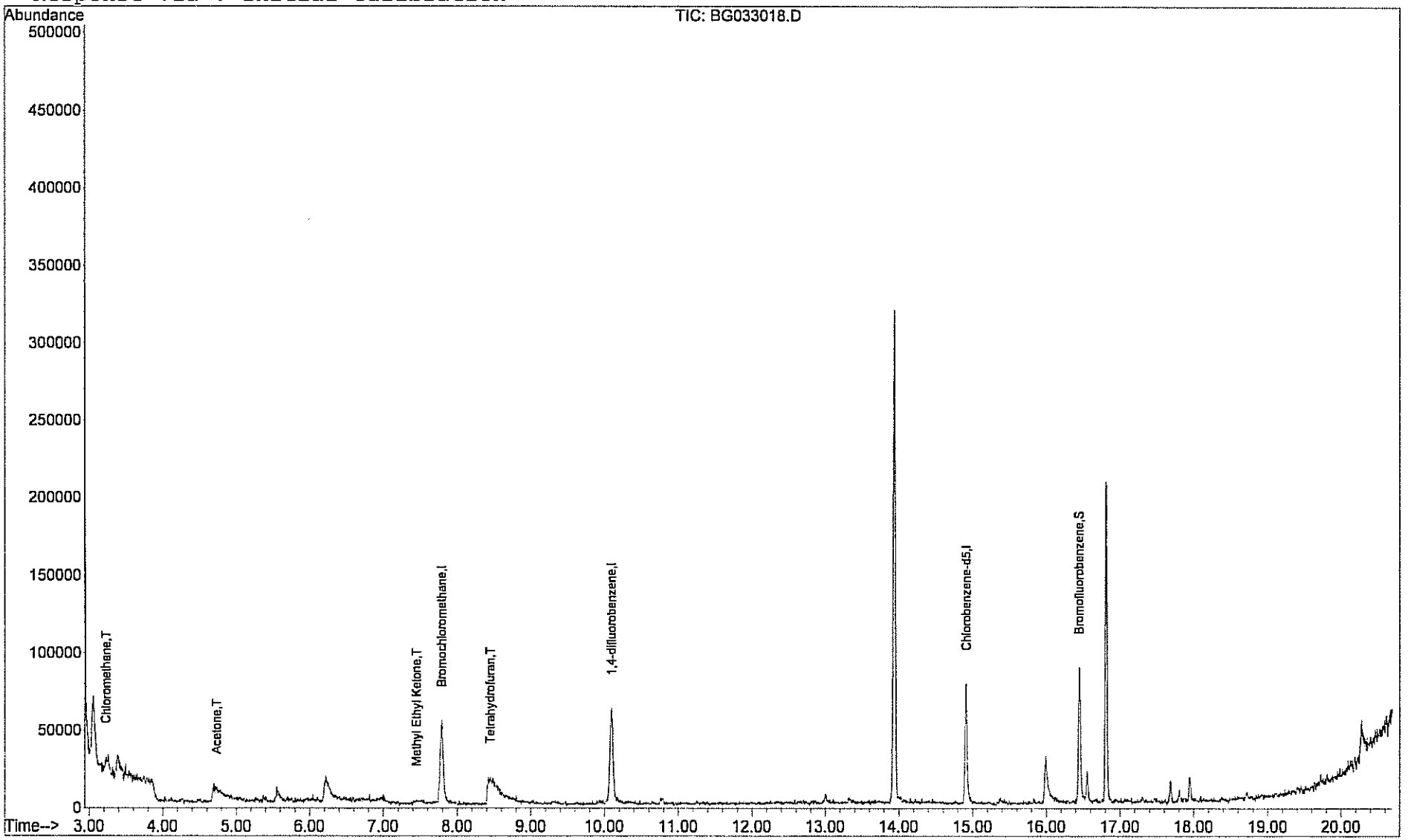
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	20163	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.09	114	62761	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	44689	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	28617	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue
4) Chloromethane	3.23	50	6458	0.14	ppb	84
12) Acetone	4.74	58	14858m	1.99	ppb	
23) Methyl Ethyl Ketone	7.45	72	2393m	0.36	ppb	
28) Tetrahydrofuran	8.45	42	42219m	2.45	ppb	

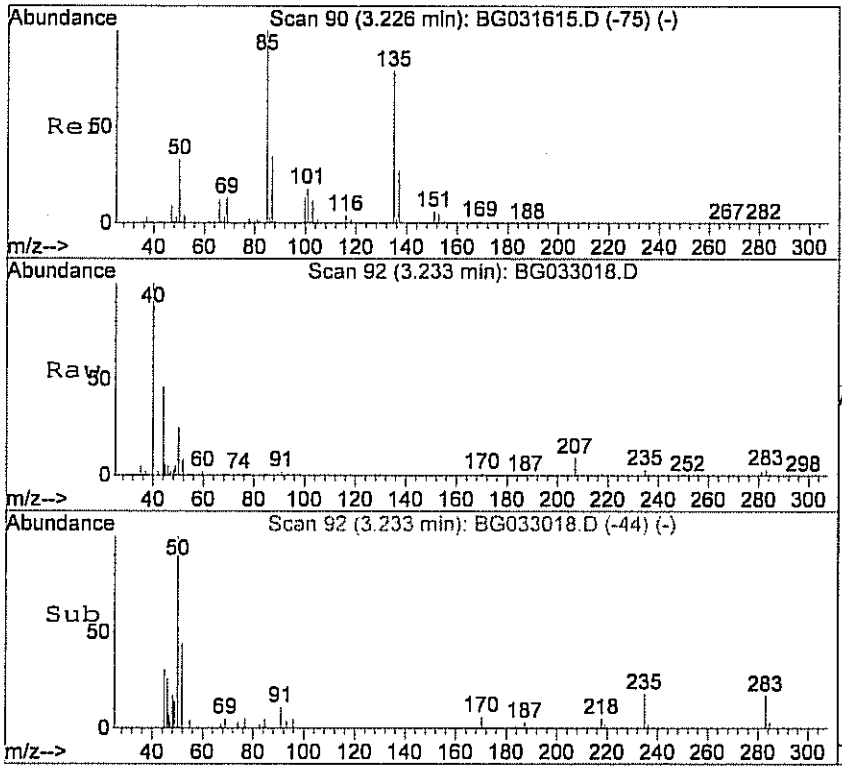
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033018.D Vial: 12
Acq On : 30 Mar 2011 9:56 pm Operator: LL
Sample : C1103055-004A 10X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:29 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

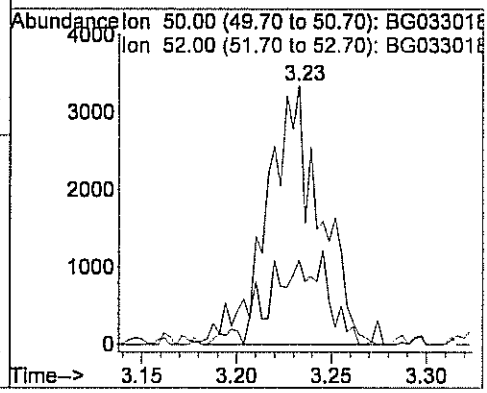


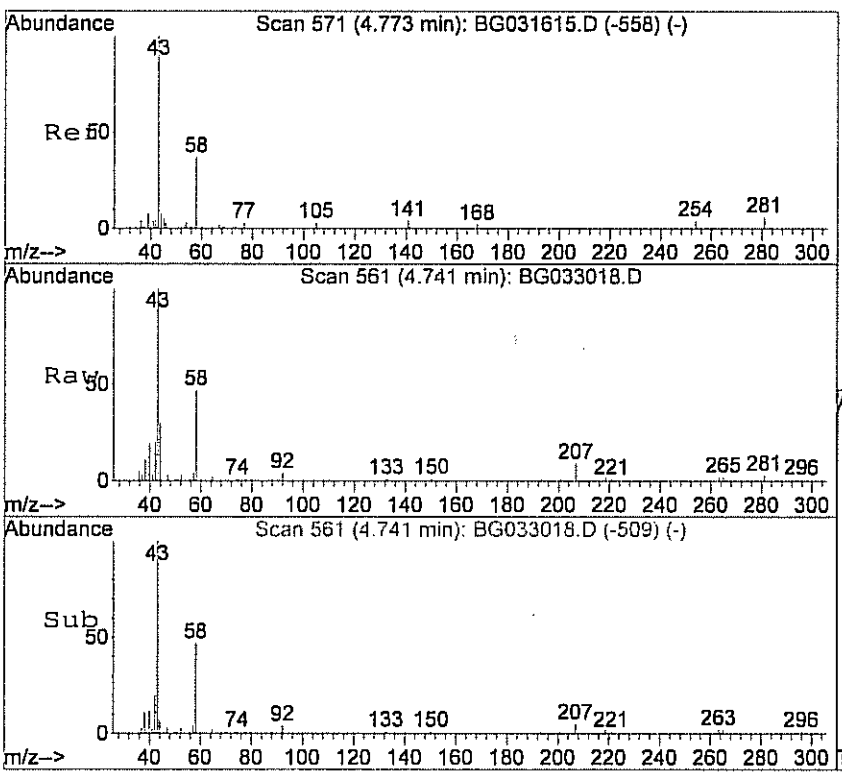


#4
Chloromethane
Concen: 0.14 ppb
RT: 3.23 min Scan# 92
Delta R.T. 0.00 min
Lab File: BG033018.D
Acq: 30 Mar 2011 9:56 pm

Tgt Ion: 50 Resp: 6458

Ion	Ratio	Lower	Upper
50	100		
52	29.7	2.3	42.3

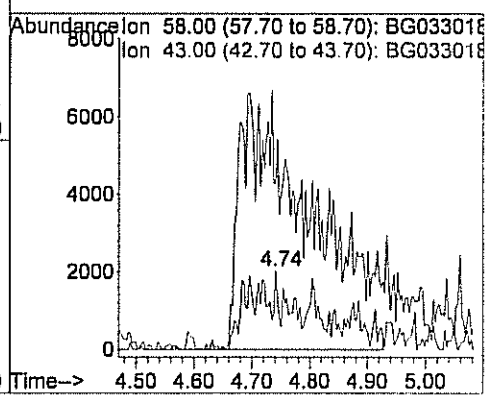


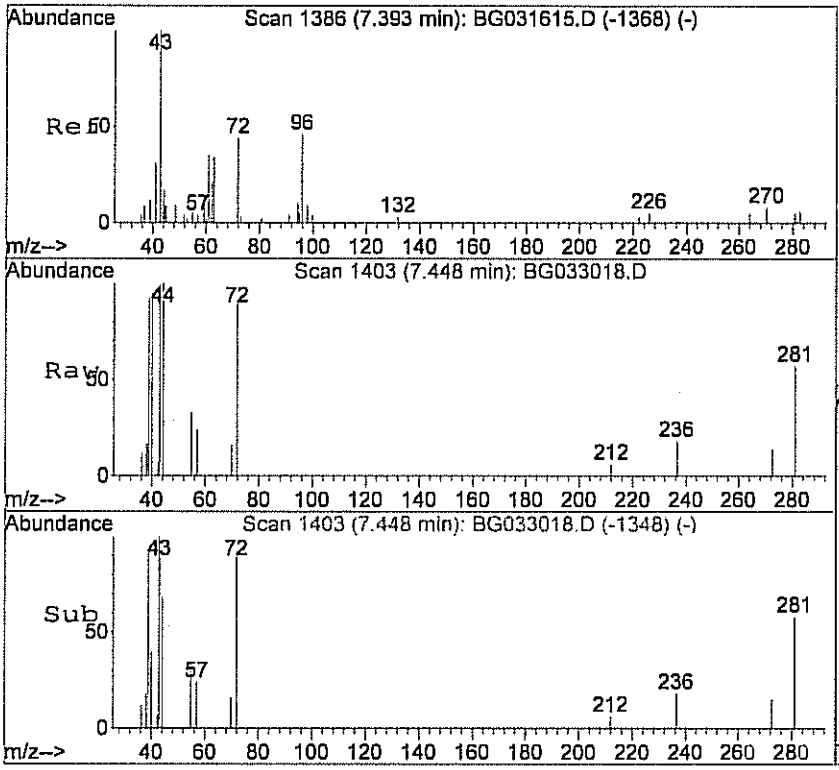


#12
Acetone
Concen: 1.99 ppb m
RT: 4.74 min Scan# 561
Delta R.T. 0.02 min
Lab File: BG033018.D
Acq: 30 Mar 2011 9:56 pm

Tgt Ion: 58 Resp: 14858

Ion	Ratio	Lower	Upper
58	100		
43	321.6	381.2	441.2#

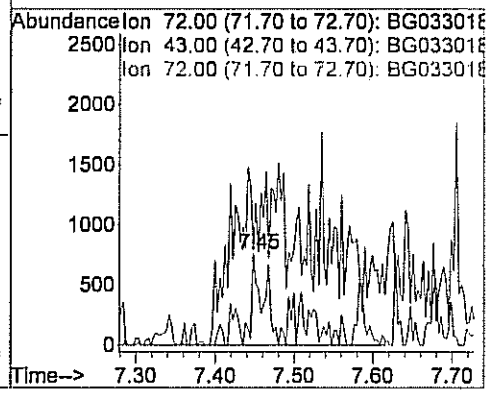


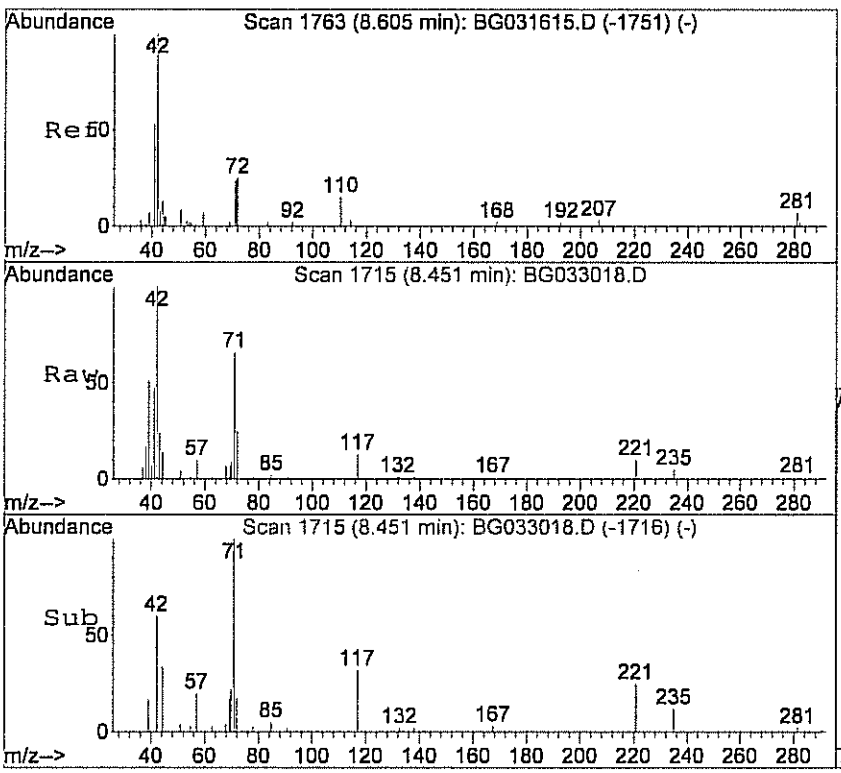


#23
Methyl Ethyl Ketone
Concen: 0.36 ppb m
RT: 7.45 min Scan# 1403
Delta R.T. 0.03 min
Lab File: BG033018.D
Acq: 30 Mar 2011 9:56 pm

Tgt Ion: 72 Resp: 2393

Ion	Ratio	Lower	Upper
72	100		
43	0.0	451.6	491.6#
72	9.7	80.0	120.0#

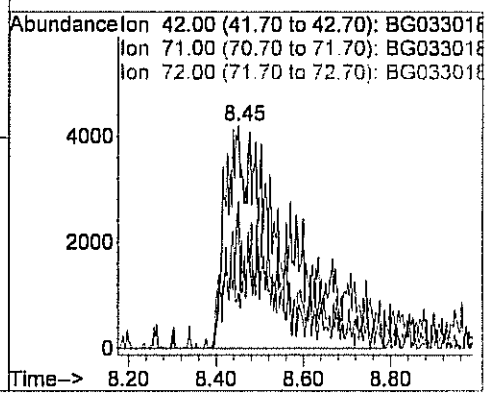




#28
Tetrahydrofuran
Concen: 2.45 ppb m
RT: 8.45 min Scan# 1715
Delta R.T. -0.15 min
Lab File: BG033018.D
Acq: 30 Mar 2011 9:56 pm

Tgt Ion: 42 Resp: 42219

Ion	Ratio	Lower	Upper
42	100		
71	0.0	32.2	72.2#
72	0.8	29.3	69.3#



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033019.D Vial: 12
Acq On : 30 Mar 2011 10:29 pm Operator: LL
Sample : C1103055-004A 40X Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:31:16 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.79	128	18792	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.09	114	48797	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	46245	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	26010m	0.70	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 70.00%			
Target Compounds						Qvalue
28) Tetrahydrofuran	8.71	42	10894m	0.68	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

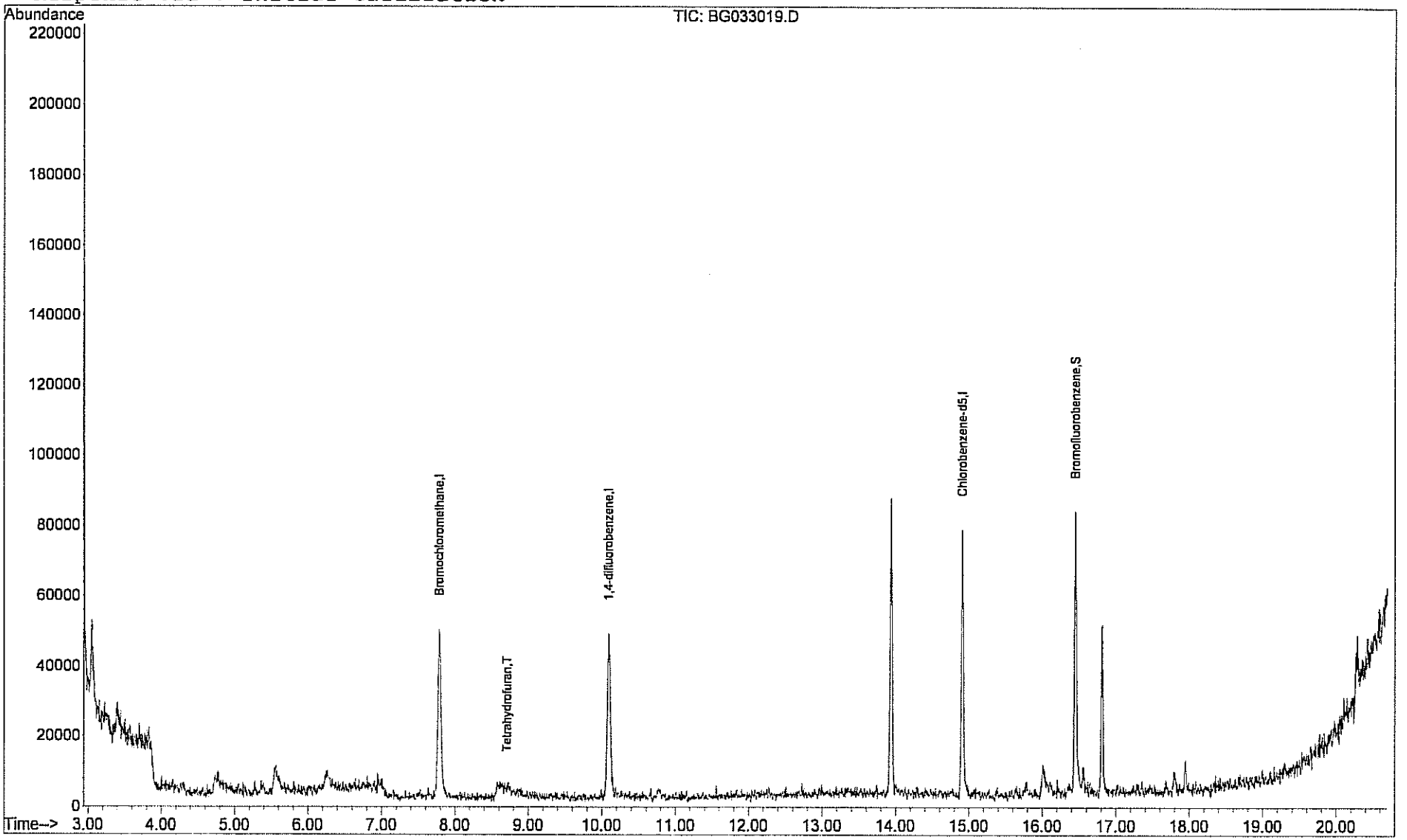
Quantitation Report (QT Reviewed)

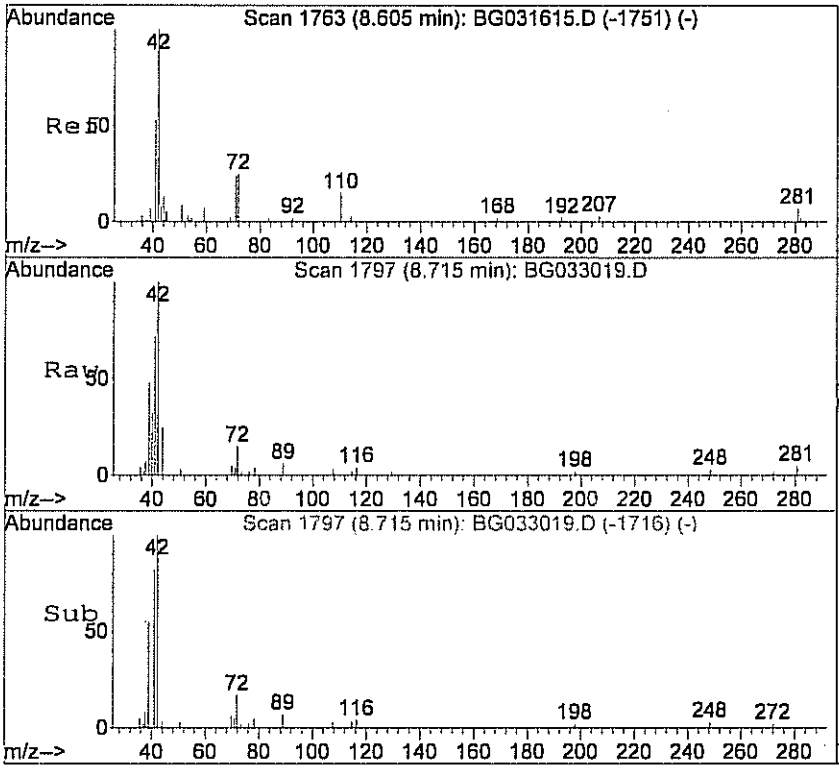
Data File : C:\MSDCHEM\1\DATA\BG033019.D
Acq On : 30 Mar 2011 10:29 pm
Sample : C1103055-004A 40X
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample
MS Integration Params: RTEINT.P
Quant Time: Mar 31 13:33 2011

Vial: 12
Operator: LL
Inst : MSD #2
Multiplr: 1.00

Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

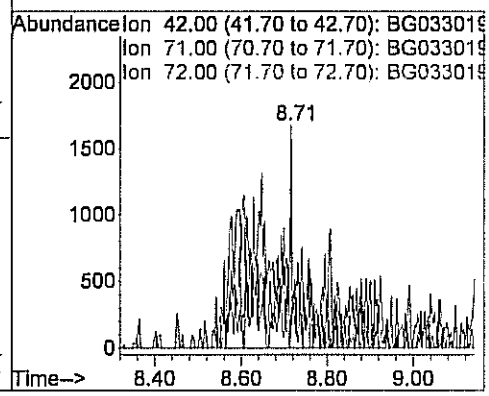




#28
Tetrahydrofuran
Concen: 0.68 ppb m
RT: 8.71 min Scan# 1797
Delta R.T. 0.11 min
Lab File: BG033019.D
Acq: 30 Mar 2011 10:29 pm

Tgt Ion: 42 Resp: 10894

Ion	Ratio	Lower	Upper
42	100		
71	4.8	32.2	72.2#
72	3.0	29.3	69.3#



Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Acetone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 12	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Toluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Surr: Bromofluorobenzene	70.0	70-130		%REC	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Acetone	< 0.72	0.72		ug/m3	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 1:49:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 1:49:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 1:49:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Resnlt	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: LL
Freon 12	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 1:49:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 1:49:00 AM
Toluene	< 0.57	0.57		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032521.D Vial: 18
Acq On : 26 Mar 2011 1:49 am Operator: LL
Sample : C1103055-005A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:32:34 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

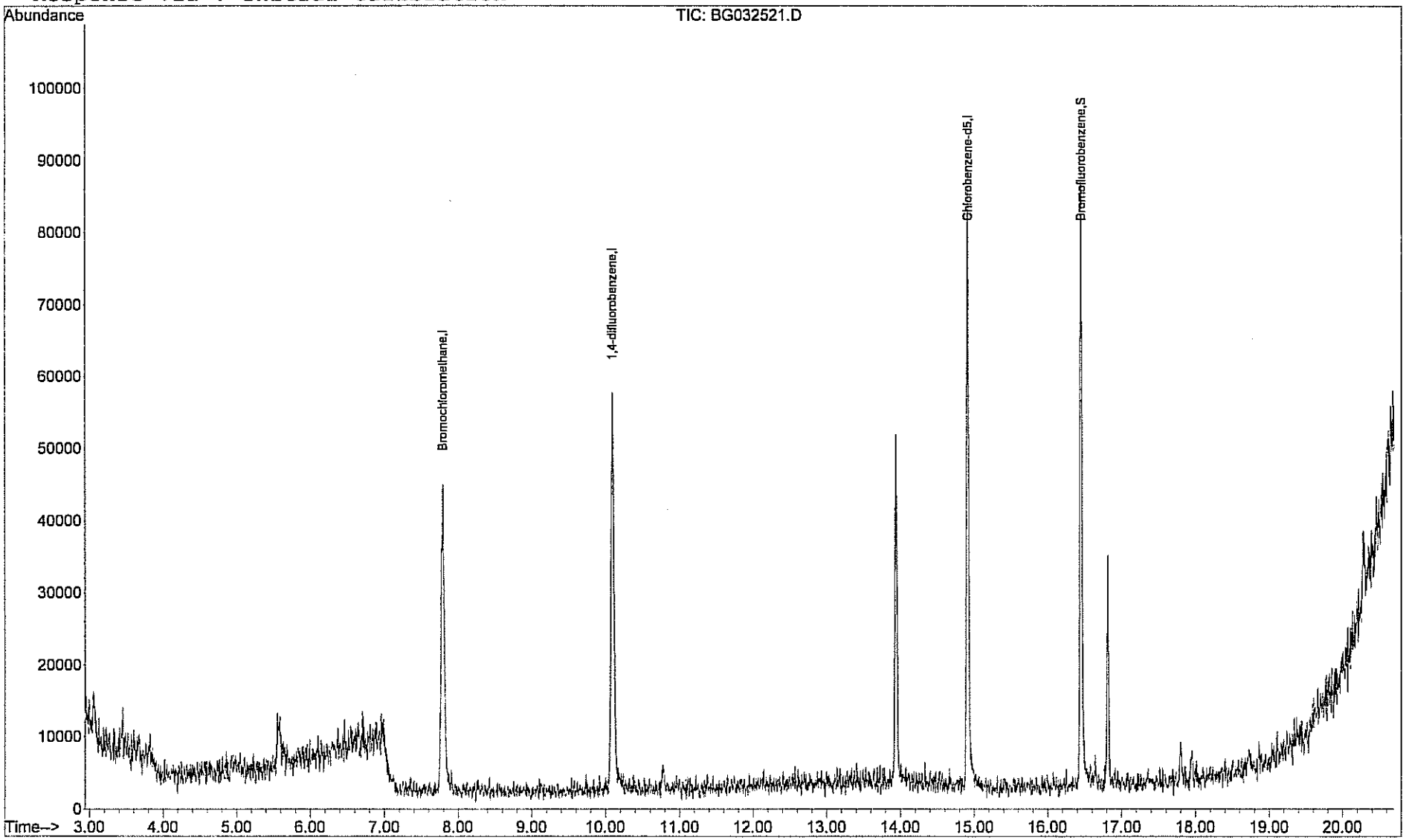
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.79	128	15178	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.10	114	50614	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	48364	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	27122m	0.70	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 70.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032521.D Vial: 18
Acq On : 26 Mar 2011 1:49 am Operator: LL
Sample : C1103055-005A Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Sample Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 16:36 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #2

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

Calibration Files
0.04 =BG031624.D 0.10 =BG031623.D 0.15 =BG031622.D
0.30 =BG031621.D 0.50 =BG031620.D 0.75 =BG031619.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	ISTD							
2)	T	Propylene			2.597	1.902	1.372	1.429	1.573	29.89
3)	T	Freon 12			1.090	0.935	0.844	0.786	0.866 E1	12.03
4)	T	Chloromethane			3.048	2.326	2.312	2.047	2.268	14.78
5)	T	Freon 114			7.973	7.133	6.321	6.025	6.540	10.69
6)	T	Vinyl Chloride	1.680	2.517	2.119	1.659	1.465	1.354	1.649	23.27
7)	T	1,3-butadiene			2.322	1.694	1.454	1.311	1.469	25.95
8)	T	Bromomethane			2.104	1.879	1.701	1.540	1.662	13.60
9)	T	Chloroethane			0.944	0.799	0.727	0.642	0.693	18.40
10)	T	Vinyl Bromide			1.991	1.744	1.582	1.427	1.585	12.22
11)	T	Freon 11			1.084	0.910	0.802	0.722	0.815 E1	15.39
12)	T	Acetone			0.506	0.460	0.353	0.389	0.371	20.50
13)	T	Isopropyl alcoh			1.768	1.909	1.906	1.389	1.578	16.06
14)	T	1,1-dichloroeth			1.977	1.708	1.347	1.234	1.413	19.73
15)	T	Freon 113			5.430	4.297	4.047	3.360	3.915	17.75
16)	T	Methylene chlor			1.525	1.424	1.271	1.114	1.189	16.49
17)	T	Allyl chloride			2.529	2.101	1.781	1.451	1.765	20.98
18)	T	Carbon disulfid			5.712	4.689	3.955	3.426	3.953	21.83
19)	T	trans-1,2-dichl			3.046	2.803	2.420	2.130	2.391	14.72
20)	T	methyl tert-but			4.066	2.882	3.394	3.205	3.433	10.50
21)	T	1,1-dichloroeth			3.795	3.328	2.900	2.631	2.874	15.94
22)	T	Vinyl acetate			2.227	2.551	2.644	2.197	2.388	9.45
23)	T	Methyl Ethyl Ke				0.340	0.329	0.364	0.325	7.68
24)	T	cis-1,2-dichlor			2.413	2.238	1.918	1.806	1.982	11.52
25)	T	Hexane			2.692	2.144	1.785	1.599	1.812	22.58
26)	T	Ethyl acetate			2.641	1.432	1.635	1.152	1.604	27.66
27)	T	Chloroform			4.805	4.442	3.958	3.649	3.974	10.94
28)	T	Tetrahydrofuran			1.357	0.808	0.706	0.867	0.854	24.70
29)	T	1,2-dichloroeth			3.248	3.237	2.967	2.684	2.886	8.43
30)	I	1,4-difluorobenzene	ISTD							
31)	T	1,1,1-trichloro			2.083	1.701	1.607	1.552	1.609	15.51
32)	T	Cyclohexane			0.647	0.558	0.530	0.492	0.525	14.09
33)	T	Carbon tetrachl	1.826	2.639	2.407	1.959	1.745	1.813	1.941	17.97
34)	T	Benzene			1.248	1.024	1.062	0.995	1.039	11.76
35)	T	1,4-dioxane				0.078	0.094	0.115	0.111	16.96
36)	T	2,2,4-trimethyl			1.868	1.756	1.574	1.530	1.606	12.28
37)	T	Heptane			0.958	0.690	0.621	0.559	0.635	22.57
38)	T	Trichloroethene	0.760	0.828	0.804	0.657	0.657	0.614	0.659	16.54
39)	T	1,2-dichloropro			0.475	0.411	0.360	0.356	0.377	14.12
40)	T	Bromodichlorome			1.554	1.186	1.214	1.106	1.206	15.31
41)	T	cis-1,3-dichlor			0.655	0.652	0.568	0.629	0.618	9.64
42)	T	trans-1,3-dichl			0.661	0.548	0.541	0.596	0.585	12.46
43)	T	1,1,2-trichloro			0.510	0.487	0.474	0.456	0.456	11.71
44)	I	Chlorobenzene-d5	ISTD							
45)	T	Toluene			0.979	0.812	0.780	0.785	0.821	8.22
46)	T	Methyl Isobutyl			1.043	0.567	0.601	0.624	0.708	21.04
47)	T	Dibromochlorome			1.457	1.365	1.218	1.183	1.269	8.00
48)	T	Methyl Butyl Ke			0.882	0.689	0.503	0.498	0.598	22.41
49)	T	1,2-dibromoetha			1.047	0.785	0.828	0.822	0.838	10.23
50)	T	Tetrachloroethy			1.089	0.893	0.778	0.736	0.827	13.97
51)	T	Chlorobenzene			1.107	1.091	1.125	1.100	1.106	1.08
52)	T	Ethylbenzene			2.028	1.779	1.747	1.818	1.849	4.69
53)	T	m&p-xylene			1.510	1.517	1.453	1.528	1.528	3.09

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #2

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration

Calibration Files
0.04 =BG031624.D 0.10 =BG031623.D 0.15 =BG031622.D
0.30 =BG031621.D 0.50 =BG031620.D 0.75 =BG031619.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
54)	T	Styrene			0.828	0.775	0.821	0.887	0.852	4.76
55)	T	Bromoform			1.040	0.863	0.922	0.900	0.973	7.30
56)	T	o-xylene			1.617	1.433	1.490	1.529	1.556	4.34
57)	S	Bromofluorobenz	0.806	0.765	0.731	0.742	0.781	0.817	0.804	6.35
58)	T	1,1,2,2-tetrach			0.761	0.600	0.579	0.590	0.607	10.63
59)	T	4-ethyltoluene			1.179	1.234	1.414	1.385	1.430	11.22
60)	T	1,3,5-trimethyl			1.625	1.234	1.443	1.457	1.483	8.18
61)	T	1,2,4-trimethyl			1.039	1.061	1.122	1.116	1.186	9.83
62)	T	1,3-dichloroben			0.897	0.621	0.665	0.678	0.712	11.92
63)	T	benzyl chloride			0.631	0.471	0.489	0.403	0.526	13.82
64)	T	1,4-dichloroben			0.772	0.631	0.607	0.636	0.681	9.08
65)	T	1,2-dichloroben			0.591	0.472	0.514	0.501	0.529	7.37
66)	T	1,2,4-trichloro			0.185	0.133	0.106	0.083	0.114	29.65
67)	T	Naphthalene			0.218	0.160	0.167	0.122	0.142	27.85
68)	T	Hexachloro-1,3-			0.329	0.344	0.284	0.194	0.291	16.73

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031615.D Vial: 15
Acq On : 16 Mar 2011 8:09 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:16:40 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:16:36 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.78	128	14762	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	59582	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	39296	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	33971	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	22476	1.00	ppb		85
3) Freon 12	3.08	85	128289	1.00	ppb		96
4) Chloromethane	3.23	50	32100	1.00	ppb		99
5) Freon 114	3.23	85	96598	1.00	ppb		85
6) Vinyl Chloride	3.37	62	22606	1.00	ppb		84
7) 1,3-butadiene	3.44	39	19498	1.00	ppb		80
8) Bromomethane	3.70	94	23597	1.00	ppb		97
9) Chloroethane	3.82	64	9215	1.00	ppb		87
10) Vinyl Bromide	4.06	106	22772	1.00	ppb		95
11) Freon 11	4.27	101	111145	1.00	ppb		98
12) Acetone	4.77	58	5094m	1.00	ppb		
13) Isopropyl alcohol	4.85	45	22690m	1.00	ppb		
14) 1,1-dichloroethene	4.88	96	19700	1.00	ppb		90
15) Freon 113	5.05	101	52425	1.00	ppb		84
16) Methylene chloride	5.27	84	15036	1.00	ppb	#	70
17) Allyl chloride	5.25	41	22938	1.00	ppb		88
18) Carbon disulfide	5.39	76	58382	1.00	ppb		99
19) trans-1,2-dichloroethene	6.10	61	32395	1.00	ppb		91
20) methyl tert-butyl ether	6.29	73	55839m	1.00	ppb		
21) 1,1-dichloroethane	6.50	63	37905	1.00	ppb		97
22) Vinyl acetate	6.61	43	39811m	1.00	ppb		
23) Methyl Ethyl Ketone	7.39	72	4962m	1.00	ppb		
24) cis-1,2-dichloroethene	7.37	61	27266	1.00	ppb		90
25) Hexane	6.98	57	23667	1.00	ppb	#	78
26) Ethyl acetate	7.84	43	20746m	0.99	ppb		
27) Chloroform	7.94	83	53206	1.00	ppb		94
28) Tetrahydrofuran	8.61	42	12143m	1.00	ppb		
29) 1,2-dichloroethane	9.02	62	41250	1.00	ppb		98
31) 1,1,1-trichloroethane	8.70	97	69388	1.00	ppb		88
32) Cyclohexane	9.39	56	22912	1.00	ppb	#	51
33) Carbon tetrachloride	9.33	117	82856	1.00	ppb		98
34) Benzene	9.31	78	47767	1.00	ppb		93
35) 1,4-dioxane	11.72	88	6606m	1.00	ppb		
36) 2,2,4-trimethylpentane	10.24	57	71111	1.00	ppb		80
37) Heptane	10.66	43	28346	1.00	ppb		96
38) Trichloroethene	10.78	130	28316	1.00	ppb		93
39) 1,2-dichloropropane	10.92	63	17021	1.00	ppb		79
40) Bromodichloromethane	11.30	83	52820	1.00	ppb		98
41) cis-1,3-dichloropropene	12.17	75	29210	1.00	ppb		96
42) trans-1,3-dichloropropene	12.97	75	26417	1.00	ppb		91
43) 1,1,2-trichloroethane	13.27	97	19781	1.00	ppb		83
45) Toluene	13.00	92	33247	1.00	ppb		95
46) Methyl Isobutyl Ketone	12.27	43	29817m	1.00	ppb		
47) Dibromochloromethane	13.94	129	51918m	1.00	ppb		
48) Methyl Butyl Ketone	13.62	43	23751m	1.00	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031615.D Vial: 15
Acq On : 16 Mar 2011 8:09 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:16:40 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:16:36 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

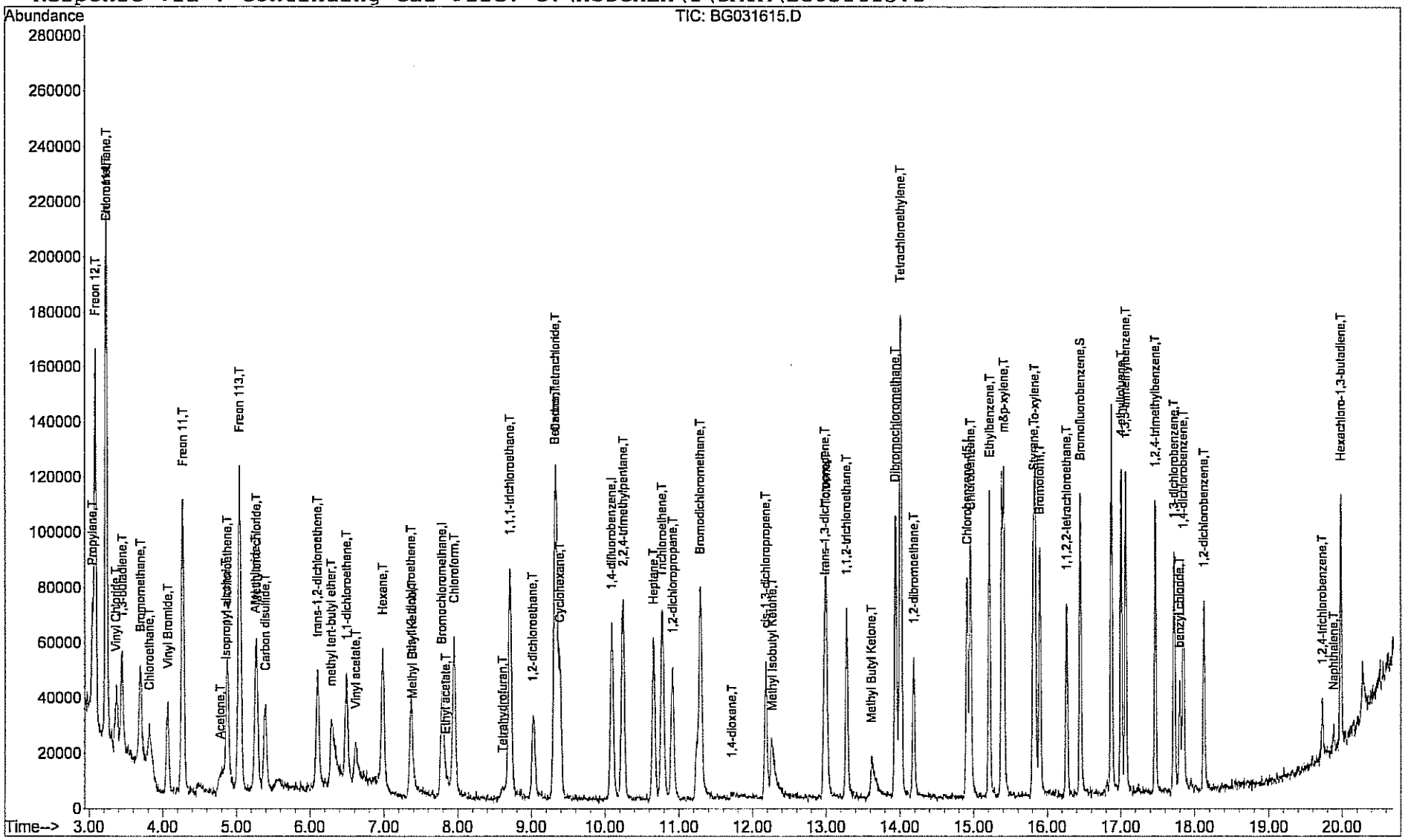
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.18	107	31552	1.00	ppb		87
50)	Tetrachloroethylene	14.01	164	31267	1.00	ppb		91
51)	Chlorobenzene	14.96	112	43859	1.00	ppb		96
52)	Ethylbenzene	15.21	91	75030	1.00	ppb		90
53)	m&p-xylene	15.41	91	127357	2.00	ppb		89
54)	Styrene	15.81	104	34295	1.00	ppb	#	71
55)	Bromoform	15.90	173	41776	1.00	ppb		97
56)	o-xylene	15.83	91	63767m	1.00	ppb		
58)	1,1,2,2-tetrachloroethane	16.26	83	24178	1.00	ppb		91
59)	4-ethyltoluene	17.00	105	63627	1.00	ppb		87
60)	1,3,5-trimethylbenzene	17.06	105	63121	1.00	ppb		98
61)	1,2,4-trimethylbenzene	17.47	105	53211	1.00	ppb		99
62)	1,3-dichlorobenzene	17.72	146	30045	1.00	ppb		92
63)	benzyl chloride	17.79	91	22622	1.00	ppb		98
64)	1,4-dichlorobenzene	17.85	146	30078	1.00	ppb		93
65)	1,2-dichlorobenzene	18.12	146	21770	1.00	ppb		92
66)	1,2,4-trichlorobenzene	19.73	180	4865	1.00	ppb		95
67)	Naphthalene	19.88	128	5721	1.00	ppb		97
68)	Hexachloro-1,3-butadiene	19.98	225	13191	1.00	ppb		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031615.D Vial: 15
Acq On : 16 Mar 2011 8:09 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:21 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031616.D Vial: 16
Acq On : 16 Mar 2011 8:44 pm Operator: LL
Sample : B1UG_2.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:25:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	14166	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	43206	1.00	ppb		0.00
44) Chlorobenzene-d5	14.92	117	40586	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	33200	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	32816	1.52	ppb		81
3) Freon 12	3.08	85	223537	1.82	ppb		96
4) Chloromethane	3.24	50	59068	1.92	ppb		91
5) Freon 114	3.23	85	170219	1.84	ppb		89
6) Vinyl Chloride	3.37	62	39374	1.82	ppb		89
7) 1,3-butadiene	3.45	39	33665	1.80	ppb		84
8) Bromomethane	3.70	94	41693	1.84	ppb		99
9) Chloroethane	3.83	64	17225	1.95	ppb		91
10) Vinyl Bromide	4.07	106	40439	1.85	ppb		96
11) Freon 11	4.27	101	212825	2.00	ppb		97
12) Acetone	4.75	58	8463m	1.73	ppb		
13) Isopropyl alcohol	4.82	45	34840	1.60	ppb	#	7
14) 1,1-dichloroethene	4.89	96	34965	1.85	ppb	#	83
15) Freon 113	5.05	101	100801	2.00	ppb		85
16) Methylene chloride	5.28	84	29943	2.08	ppb	#	82
17) Allyl chloride	5.27	41	44050	2.00	ppb		90
18) Carbon disulfide	5.40	76	92762	1.66	ppb		99
19) trans-1,2-dichloroethene	6.11	61	61700	1.98	ppb		93
20) methyl tert-butyl ether	6.27	73	94387	1.76	ppb		80
21) 1,1-dichloroethane	6.50	63	73862	2.03	ppb		96
22) Vinyl acetate	6.61	43	59766	1.56	ppb		95
23) Methyl Ethyl Ketone	7.39	72	8189m	1.72	ppb		
24) cis-1,2-dichloroethene	7.37	61	54148	2.07	ppb		92
25) Hexane	6.99	57	44145	1.94	ppb	#	74
26) Ethyl acetate	7.82	43	42509	2.14	ppb		76
27) Chloroform	7.95	83	106044	2.08	ppb		98
28) Tetrahydrofuran	8.57	42	22446m	1.93	ppb		
29) 1,2-dichloroethane	9.04	62	75537	1.91	ppb		98
31) 1,1,1-trichloroethane	8.71	97	137113	2.72	ppb		86
32) Cyclohexane	9.40	56	45457	2.74	ppb	#	48
33) Carbon tetrachloride	9.34	117	163506	2.72	ppb		96
34) Benzene	9.32	78	89869	2.59	ppb		87
35) 1,4-dioxane	11.65	88	11419m	2.38	ppb		
36) 2,2,4-trimethylpentane	10.25	57	142138	2.76	ppb		81
37) Heptane	10.66	43	50814	2.47	ppb		94
38) Trichloroethene	10.78	130	52445	2.55	ppb		97
39) 1,2-dichloropropane	10.92	63	32493	2.63	ppb		100
40) Bromodichloromethane	11.29	83	107484	2.81	ppb		94
41) cis-1,3-dichloropropene	12.19	75	57030	2.69	ppb		96
42) trans-1,3-dichloropropene	12.98	75	57164	2.98	ppb		93
43) 1,1,2-trichloroethane	13.28	97	39665	2.77	ppb		78
45) Toluene	13.00	92	64714	1.88	ppb		92
46) Methyl Isobutyl Ketone	12.25	43	53986	1.75	ppb		93
47) Dibromochloromethane	13.95	129	95977m	1.79	ppb		
48) Methyl Butyl Ketone	13.61	43	40395	1.65	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031616.D Vial: 16
Acq On : 16 Mar 2011 8:44 pm Operator: LL
Sample : B1UG_2.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:25:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

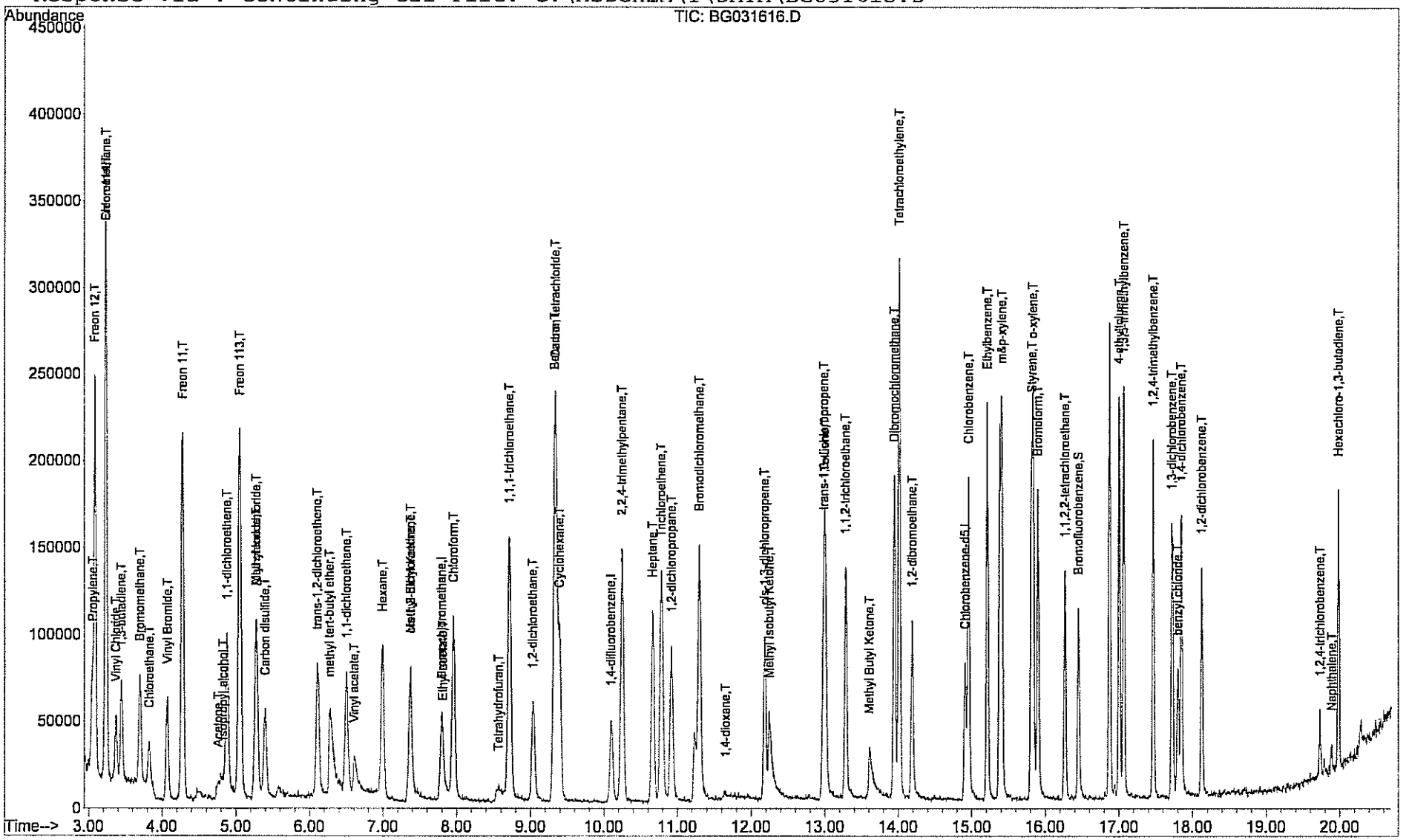
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	64483	1.98	ppb	88
50)	Tetrachloroethylene	14.01	164	61913	1.92	ppb	96
51)	Chlorobenzene	14.96	112	89350	1.97	ppb	93
52)	Ethylbenzene	15.21	91	149419	1.93	ppb	94
53)	m&p-xylene	15.41	91	247389	3.76	ppb	88
54)	Styrene	15.81	104	72563	2.05	ppb	80
55)	Bromoform	15.90	173	81704	1.89	ppb	98
56)	o-xylene	15.83	91	130543m	1.98	ppb	
58)	1,1,2,2-tetrachloroethane	16.26	83	45640	1.83	ppb	93
59)	4-ethyltoluene	17.00	105	130050m	1.98	ppb	
60)	1,3,5-trimethylbenzene	17.07	105	124562m	1.91	ppb	
61)	1,2,4-trimethylbenzene	17.47	105	105127	1.91	ppb	98
62)	1,3-dichlorobenzene	17.72	146	56042	1.81	ppb	96
63)	benzyl chloride	17.80	91	47764	2.04	ppb	97
64)	1,4-dichlorobenzene	17.85	146	55899	1.80	ppb	92
65)	1,2-dichlorobenzene	18.12	146	45956	2.04	ppb	97
66)	1,2,4-trichlorobenzene	19.73	180	8925	1.78	ppb	84
67)	Naphthalene	19.88	128	9090	1.54	ppb	92
68)	Hexachloro-1,3-butadiene	19.98	225	24206	1.78	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031616.D Vial: 16
Acq On : 16 Mar 2011 8:44 pm Operator: LL
Sample : BlUG_2.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:27 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031617.D Vial: 17
Acq On : 16 Mar 2011 9:17 pm Operator: LL
Sample : B1UG_1.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:28:05 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	14051	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	42598	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	38371	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.44	95	34230	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	26225	1.23	ppb		92
3) Freon 12	3.08	85	164420	1.35	ppb		97
4) Chloromethane	3.23	50	42393	1.39	ppb		96
5) Freon 114	3.23	85	124522	1.35	ppb		87
6) Vinyl Chloride	3.37	62	27703	1.29	ppb		99
7) 1,3-butadiene	3.44	39	25637	1.38	ppb		80
8) Bromomethane	3.69	94	30443	1.36	ppb		100
9) Chloroethane	3.82	64	11405	1.30	ppb		89
10) Vinyl Bromide	4.07	106	31114	1.44	ppb		96
11) Freon 11	4.27	101	149368	1.41	ppb		97
12) Acetone	4.72	58	6526m	1.35	ppb		
13) Isopropyl alcohol	4.78	45	30096m	1.39	ppb		
14) 1,1-dichloroethene	4.88	96	25380	1.35	ppb	#	84
15) Freon 113	5.04	101	70680	1.42	ppb		83
16) Methylene chloride	5.28	84	21339	1.49	ppb	#	79
17) Allyl chloride	5.26	41	32357	1.48	ppb		91
18) Carbon disulfide	5.39	76	68723	1.24	ppb		99
19) trans-1,2-dichloroethene	6.10	61	43570	1.41	ppb		96
20) methyl tert-butyl ether	6.27	73	69718	1.31	ppb		88
21) 1,1-dichloroethane	6.49	63	52320	1.45	ppb		96
22) Vinyl acetate	6.60	43	47000	1.24	ppb		98
23) Methyl Ethyl Ketone	7.42	72	6635m	1.40	ppb		
24) cis-1,2-dichloroethene	7.36	61	36842	1.42	ppb		91
25) Hexane	6.98	57	31813	1.41	ppb	#	67
26) Ethyl acetate	7.80	43	31030	1.57	ppb		94
27) Chloroform	7.95	83	76565	1.51	ppb		99
28) Tetrahydrofuran	8.61	42	14785m	1.28	ppb		
29) 1,2-dichloroethane	9.02	62	55907	1.42	ppb		97
31) 1,1,1-trichloroethane	8.70	97	100913	2.03	ppb		91
32) Cyclohexane	9.38	56	32225	1.97	ppb	#	47
33) Carbon tetrachloride	9.33	117	116202	1.96	ppb		97
34) Benzene	9.32	78	68010	1.99	ppb		92
35) 1,4-dioxane	11.69	88	8047m	1.70	ppb		
36) 2,2,4-trimethylpentane	10.25	57	104196	2.05	ppb		84
37) Heptane	10.66	43	38139	1.88	ppb		94
38) Trichloroethene	10.78	130	37778	1.87	ppb		97
39) 1,2-dichloropropane	10.91	63	24097	1.98	ppb		95
40) Bromodichloromethane	11.29	83	76355	2.02	ppb		98
41) cis-1,3-dichloropropene	12.17	75	41778	2.00	ppb		95
42) trans-1,3-dichloropropene	12.98	75	38541	2.04	ppb		92
43) 1,1,2-trichloroethane	13.27	97	29108	2.06	ppb		79
45) Toluene	13.00	92	45172	1.39	ppb		90
46) Methyl Isobutyl Ketone	12.24	43	40878	1.40	ppb		93
47) Dibromochloromethane	13.94	129	71242m	1.41	ppb		
48) Methyl Butyl Ketone	13.60	43	34295	1.48	ppb		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031617.D Vial: 17
Acq On : 16 Mar 2011 9:17 pm Operator: LL
Sample : B1UG_1.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:28:05 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

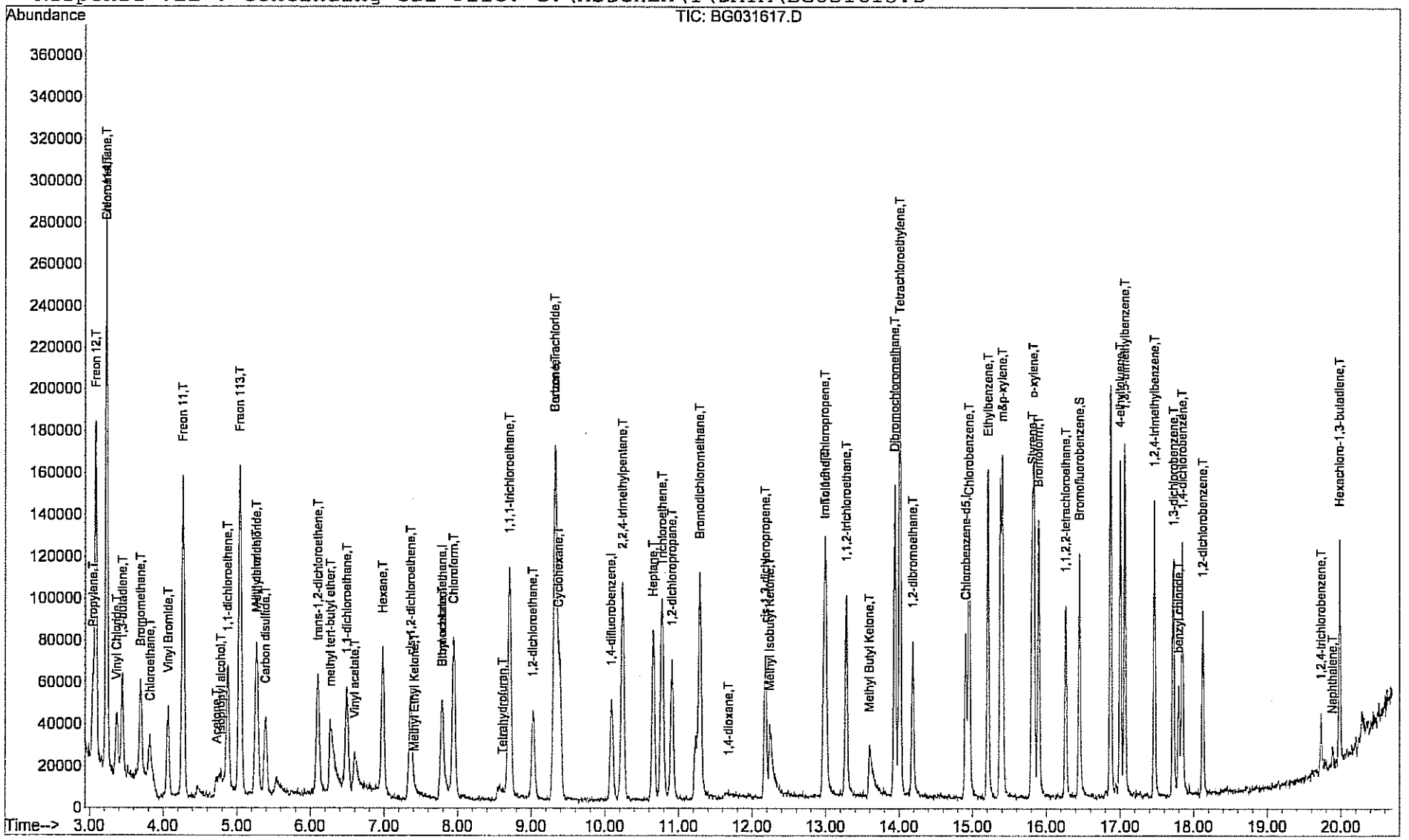
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.18	107	46852	1.52	ppb	91
50)	Tetrachloroethylene	14.01	164	45180	1.48	ppb	93
51)	Chlorobenzene	14.96	112	64239	1.50	ppb	97
52)	Ethylbenzene	15.21	91	105812	1.44	ppb	93
53)	m&p-xylene	15.40	91	174162	2.80	ppb	89
54)	Styrene	15.80	104	50387	1.50	ppb	78
55)	Bromoform	15.89	173	56360	1.38	ppb	92
56)	o-xylene	15.83	91	90751m	1.46	ppb	
58)	1,1,2,2-tetrachloroethane	16.27	83	33291	1.41	ppb	87
59)	4-ethyltoluene	17.00	105	87524m	1.41	ppb	
60)	1,3,5-trimethylbenzene	17.06	105	84331m	1.37	ppb	
61)	1,2,4-trimethylbenzene	17.47	105	72862	1.40	ppb	97
62)	1,3-dichlorobenzene	17.72	146	40517	1.38	ppb	94
63)	benzyl chloride	17.79	91	29982	1.36	ppb	92
64)	1,4-dichlorobenzene	17.85	146	40111	1.37	ppb	93
65)	1,2-dichlorobenzene	18.12	146	30481	1.43	ppb	93
66)	1,2,4-trichlorobenzene	19.73	180	5182m	1.09	ppb	
67)	Naphthalene	19.89	128	5513	0.99	ppb	86
68)	Hexachloro-1,3-butadiene	19.98	225	15819	1.23	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031617.D Vial: 17
Acq On : 16 Mar 2011 9:17 pm Operator: LL
Sample : B1UG_1.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:12 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031618.D Vial: 18
Acq On : 16 Mar 2011 9:51 pm Operator: LL
Sample : B1UG_1.25 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:31:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	13244	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	41552	1.00	ppb		0.00
44) Chlorobenzene-d5	14.90	117	39559	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	32599	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	3.04	41	22464	1.11	ppb		89
3) Freon 12	3.08	85	138226	1.20	ppb		95
4) Chloromethane	3.23	50	35487	1.23	ppb		94
5) Freon 114	3.23	85	106099	1.22	ppb		88
6) Vinyl Chloride	3.37	62	24148	1.19	ppb		87
7) 1,3-butadiene	3.44	39	20636	1.18	ppb		84
8) Bromomethane	3.69	94	25746	1.22	ppb		98
9) Chloroethane	3.82	64	10938	1.32	ppb		96
10) Vinyl Bromide	4.07	106	24662	1.21	ppb		95
11) Freon 11	4.27	101	130468	1.31	ppb		97
12) Acetone	4.77	58	5088m	1.11	ppb		
13) Isopropyl alcohol	4.82	45	24089	1.18	ppb	#	17
14) 1,1-dichloroethene	4.87	96	21004	1.19	ppb	#	74
15) Freon 113	5.04	101	61567	1.31	ppb		83
16) Methylene chloride	5.28	84	18000	1.33	ppb	#	74
17) Allyl chloride	5.26	41	26723	1.30	ppb		90
18) Carbon disulfide	5.39	76	55542	1.06	ppb		99
19) trans-1,2-dichloroethene	6.11	61	37872	1.30	ppb		91
20) methyl tert-butyl ether	6.28	73	57828	1.15	ppb		93
21) 1,1-dichloroethane	6.50	63	44410	1.31	ppb		97
22) Vinyl acetate	6.60	43	40598	1.14	ppb		95
23) Methyl Ethyl Ketone	7.37	72	5025m	1.13	ppb		
24) cis-1,2-dichloroethene	7.36	61	32617	1.33	ppb		92
25) Hexane	6.98	57	26622	1.25	ppb	#	72
26) Ethyl acetate	7.81	43	26367	1.42	ppb		77
27) Chloroform	7.95	83	65521	1.37	ppb		99
28) Tetrahydrofuran	8.61	42	12838m	1.18	ppb		
29) 1,2-dichloroethane	9.02	62	47042	1.27	ppb		97
31) 1,1,1-trichloroethane	8.70	97	82809	1.71	ppb		85
32) Cyclohexane	9.39	56	28834	1.80	ppb	#	52
33) Carbon tetrachloride	9.33	117	99463	1.72	ppb		95
34) Benzene	9.31	78	55863	1.68	ppb		89
35) 1,4-dioxane	11.78	88	6170m	1.34	ppb		
36) 2,2,4-trimethylpentane	10.24	57	85923	1.73	ppb		80
37) Heptane	10.66	43	30903	1.56	ppb		94
38) Trichloroethene	10.78	130	30887	1.56	ppb		90
39) 1,2-dichloropropane	10.92	63	19414	1.64	ppb		93
40) Bromodichloromethane	11.29	83	65575	1.78	ppb		92
41) cis-1,3-dichloropropene	12.18	75	33010	1.62	ppb		89
42) trans-1,3-dichloropropene	12.97	75	32594	1.77	ppb		87
43) 1,1,2-trichloroethane	13.28	97	24578	1.78	ppb		76
45) Toluene	13.00	92	38781	1.16	ppb		85
46) Methyl Isobutyl Ketone	12.25	43	34379	1.15	ppb		93
47) Dibromochloromethane	13.94	129	58778m	1.12	ppb		
48) Methyl Butyl Ketone	13.63	43	25363m	1.06	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031618.D Vial: 18
Acq On : 16 Mar 2011 9:51 pm Operator: LL
Sample : B1UG_1.25 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:31:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

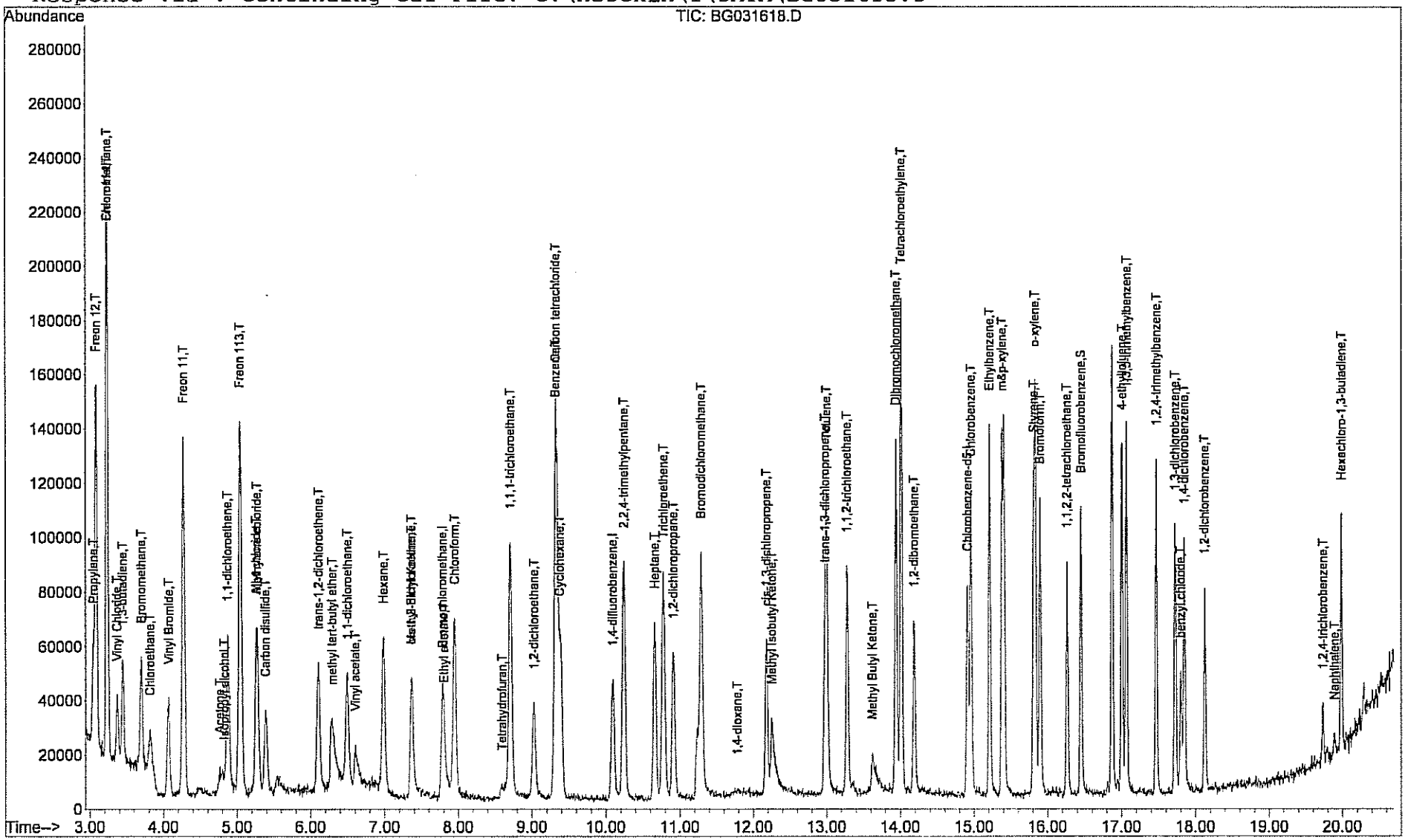
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.18	107	40117	1.26	ppb		87
50)	Tetrachloroethylene	14.01	164	38244	1.22	ppb		95
51)	Chlorobenzene	14.96	112	54095	1.23	ppb		99
52)	Ethylbenzene	15.21	91	90354	1.20	ppb		92
53)	m&p-xylene	15.38	91	153940	2.40	ppb		88
54)	Styrene	15.80	104	42614	1.23	ppb		74
55)	Bromoform	15.90	173	50045	1.19	ppb		99
56)	o-xylene	15.83	91	77788m	1.21	ppb		
58)	1,1,2,2-tetrachloroethane	16.26	83	28166	1.16	ppb		92
59)	4-ethyltoluene	17.01	105	73316	1.14	ppb		85
60)	1,3,5-trimethylbenzene	17.07	105	74053	1.17	ppb		94
61)	1,2,4-trimethylbenzene	17.47	105	60986	1.14	ppb		98
62)	1,3-dichlorobenzene	17.72	146	33497	1.11	ppb		95
63)	benzyl chloride	17.80	91	26271	1.15	ppb		98
64)	1,4-dichlorobenzene	17.85	146	32068	1.06	ppb		94
65)	1,2-dichlorobenzene	18.12	146	25104	1.15	ppb		98
66)	1,2,4-trichlorobenzene	19.73	180	4116m	0.84	ppb		
67)	Naphthalene	19.88	128	5685	0.99	ppb	#	87
68)	Hexachloro-1,3-butadiene	19.98	225	13192	0.99	ppb		85

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031618.D Vial: 18
Acq On : 16 Mar 2011 9:51 pm Operator: LL
Sample : B1UG_1.25 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:10 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031619.D Vial: 19
Acq On : 16 Mar 2011 10:24 pm Operator: LL
Sample : B1UG_0.75 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:33:36 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	14324	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	43769	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	39420	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	32217	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	15353	0.70	ppb		83
3) Freon 12	3.08	85	84491	0.68	ppb		98
4) Chloromethane	3.24	50	21989	0.71	ppb		90
5) Freon 114	3.23	85	64727	0.69	ppb		90
6) Vinyl Chloride	3.37	62	14550	0.66	ppb		95
7) 1,3-butadiene	3.44	39	14087	0.74	ppb		71
8) Bromomethane	3.69	94	16546	0.72	ppb		97
9) Chloroethane	3.82	64	6899	0.77	ppb		89
10) Vinyl Bromide	4.07	106	15329	0.69	ppb		88
11) Freon 11	4.27	101	77555	0.72	ppb		97
12) Acetone	4.75	58	4180m	0.85	ppb		
13) Isopropyl alcohol	4.81	45	14919	0.68	ppb	#	1
14) 1,1-dichloroethene	4.87	96	13258	0.69	ppb	#	83
15) Freon 113	5.04	101	36100	0.71	ppb		81
16) Methylene chloride	5.27	84	11964	0.82	ppb	#	84
17) Allyl chloride	5.26	41	15583	0.70	ppb		93
18) Carbon disulfide	5.39	76	36803	0.65	ppb		96
19) trans-1,2-dichloroethene	6.10	61	22881	0.73	ppb		91
20) methyl tert-butyl ether	6.30	73	34426	0.64	ppb		73
21) 1,1-dichloroethane	6.50	63	28267	0.77	ppb		98
22) Vinyl acetate	6.61	43	23604	0.61	ppb		97
23) Methyl Ethyl Ketone	7.40	72	3911m	0.81	ppb		
24) cis-1,2-dichloroethene	7.36	61	19397	0.73	ppb		92
25) Hexane	6.98	57	17178	0.75	ppb	#	82
26) Ethyl acetate	7.83	43	12371	0.61	ppb		84
27) Chloroform	7.95	83	39200	0.76	ppb		96
28) Tetrahydrofuran	8.66	42	9319m	0.79	ppb		
29) 1,2-dichloroethane	9.02	62	28836	0.72	ppb		98
31) 1,1,1-trichloroethane	8.71	97	50959	1.00	ppb		87
32) Cyclohexane	9.39	56	16151	0.96	ppb	#	40
33) Carbon tetrachloride	9.33	117	59509	0.98	ppb		96
34) Benzene	9.31	78	32658	0.93	ppb		95
35) 1,4-dioxane	11.83	88	3767m	0.78	ppb		
36) 2,2,4-trimethylpentane	10.25	57	50219	0.96	ppb		80
37) Heptane	10.66	43	18345	0.88	ppb		96
38) Trichloroethene	10.78	130	20172	0.97	ppb		98
39) 1,2-dichloropropane	10.91	63	11702	0.94	ppb		98
40) Bromodichloromethane	11.29	83	36303	0.94	ppb		98
41) cis-1,3-dichloropropene	12.18	75	20647	0.96	ppb		97
42) trans-1,3-dichloropropene	12.97	75	19578	1.01	ppb		90
43) 1,1,2-trichloroethane	13.27	97	14953	1.03	ppb		82
45) Toluene	13.00	92	23204	0.70	ppb		89
46) Methyl Isobutyl Ketone	12.26	43	18441	0.62	ppb		87
47) Dibromochloromethane	13.94	129	34985	0.67	ppb		94
48) Methyl Butyl Ketone	13.63	43	14716	0.62	ppb		77

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031619.D Vial: 19
Acq On : 16 Mar 2011 10:24 pm Operator: LL
Sample : B1UG_0.75 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:33:36 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.18	107	24308	0.77	ppb		91
50)	Tetrachloroethylene	14.01	164	21751	0.69	ppb		89
51)	Chlorobenzene	14.96	112	32510	0.74	ppb		96
52)	Ethylbenzene	15.21	91	53758	0.71	ppb		96
53)	m&p-xylene	15.37	91	90379	1.41	ppb		88
54)	Styrene	15.81	104	26234	0.76	ppb		79
55)	Bromoform	15.90	173	26598	0.63	ppb		89
56)	o-xylene	15.83	91	45191m	0.71	ppb		
58)	1,1,2,2-tetrachloroethane	16.26	83	17434	0.72	ppb		95
59)	4-ethyltoluene	17.01	105	40942	0.64	ppb		78
60)	1,3,5-trimethylbenzene	17.06	105	43079	0.68	ppb		93
61)	1,2,4-trimethylbenzene	17.47	105	32983	0.62	ppb		96
62)	1,3-dichlorobenzene	17.73	146	20044	0.67	ppb		91
63)	benzyl chloride	17.79	91	11913	0.52	ppb		89
64)	1,4-dichlorobenzene	17.85	146	18802	0.62	ppb		93
65)	1,2-dichlorobenzene	18.12	146	14806	0.68	ppb		97
66)	1,2,4-trichlorobenzene	19.73	180	2466m	0.51	ppb		
67)	Naphthalene	19.88	128	3605	0.63	ppb		87
68)	Hexachloro-1,3-butadiene	19.98	225	5740	0.43	ppb	#	68

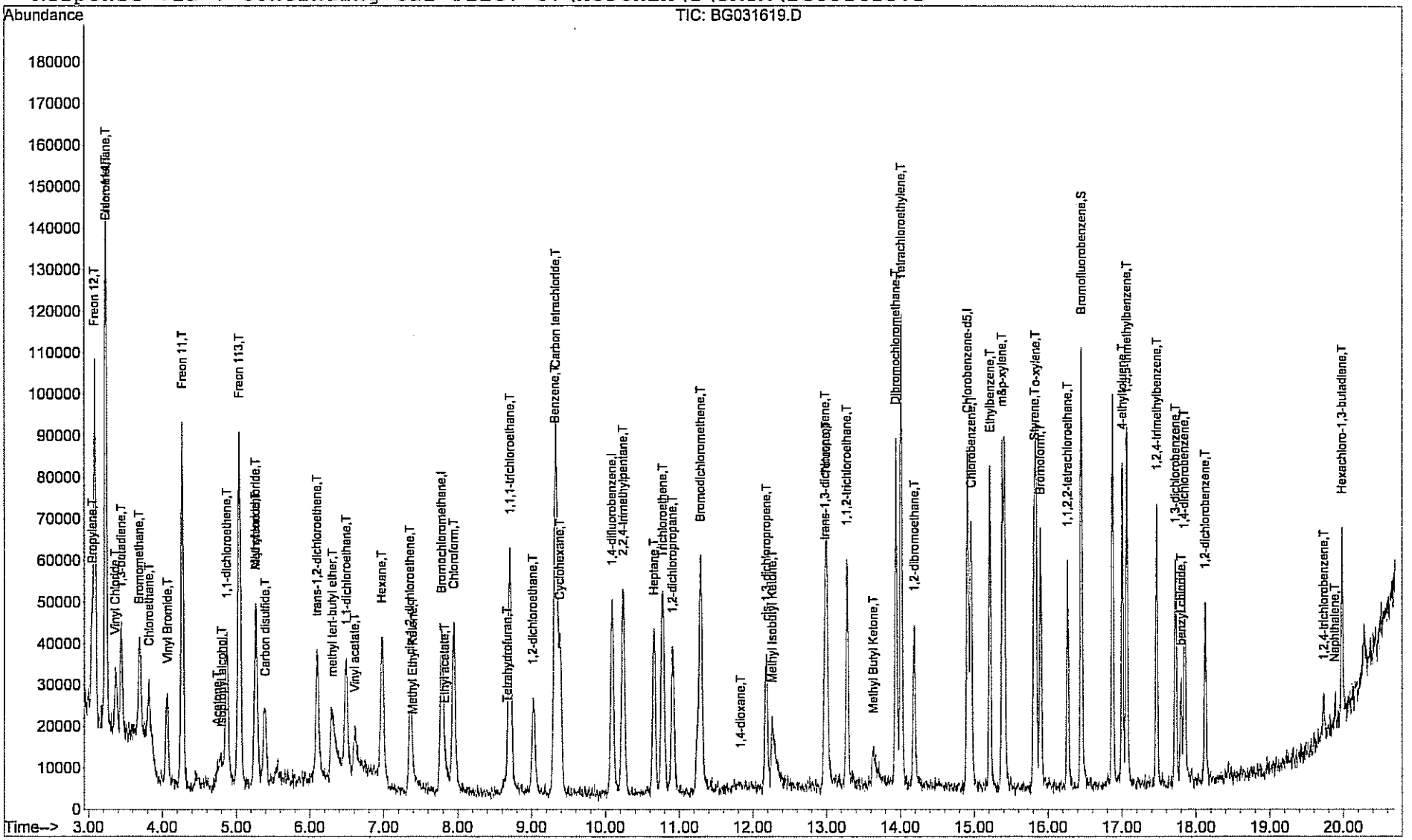
7.L.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031619.D Vial: 19
Acq On : 16 Mar 2011 10:24 pm Operator: LL
Sample : B1UG_0.75 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:11 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031620.D Vial: 20
Acq On : 16 Mar 2011 10:57 pm Operator: LL
Sample : B1UG_0.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:36:11 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	13547	1.00	ppb		0.01
30) 1,4-difluorobenzene	10.09	114	43690	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	38407	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	29998	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	9294	0.45	ppb		84
3) Freon 12	3.08	85	57199	0.49	ppb		97
4) Chloromethane	3.23	50	15657	0.53	ppb		88
5) Freon 114	3.23	85	42814	0.48	ppb		86
6) Vinyl Chloride	3.37	62	9921	0.48	ppb		95
7) 1,3-butadiene	3.45	39	9848	0.55	ppb		71
8) Bromomethane	3.70	94	11520	0.53	ppb		97
9) Chloroethane	3.81	64	4925m	0.58	ppb		
10) Vinyl Bromide	4.07	106	10717	0.51	ppb		94
11) Freon 11	4.27	101	54292	0.53	ppb		96
12) Acetone	4.76	58	2392m	0.51	ppb		
13) Isopropyl alcohol	4.86	45	12911m	0.62	ppb		
14) 1,1-dichloroethene	4.88	96	9122	0.50	ppb	#	81
15) Freon 113	5.03	101	27409	0.57	ppb		84
16) Methylene chloride	5.28	84	8610	0.62	ppb	#	82
17) Allyl chloride	5.27	41	12066	0.57	ppb		84
18) Carbon disulfide	5.40	76	26787	0.50	ppb		93
19) trans-1,2-dichloroethene	6.11	61	16395	0.55	ppb		90
20) methyl tert-butyl ether	6.33	73	22986	0.45	ppb		97
21) 1,1-dichloroethane	6.49	63	19646	0.56	ppb		89
22) Vinyl acetate	6.60	43	17911	0.49	ppb		86
23) Methyl Ethyl Ketone	7.46	72	2231m	0.49	ppb		
24) cis-1,2-dichloroethene	7.37	61	12994	0.52	ppb		92
25) Hexane	6.98	57	12093	0.56	ppb	#	72
26) Ethyl acetate	7.83	43	11078m	0.58	ppb		
27) Chloroform	7.95	83	26808	0.55	ppb		95
28) Tetrahydrofuran	8.63	42	4780m	0.43	ppb		
29) 1,2-dichloroethane	9.02	62	20094	0.53	ppb		95
31) 1,1,1-trichloroethane	8.71	97	35108	0.69	ppb		83
32) Cyclohexane	9.38	56	11578	0.69	ppb	#	53
33) Carbon tetrachloride	9.33	117	38124	0.63	ppb		94
34) Benzene	9.32	78	23200	0.66	ppb		98
35) 1,4-dioxane	11.85	88	2047m	0.42	ppb		
36) 2,2,4-trimethylpentane	10.24	57	34391	0.66	ppb		78
37) Heptane	10.66	43	13576	0.65	ppb		95
38) Trichloroethene	10.78	130	14360	0.69	ppb		94
39) 1,2-dichloropropane	10.91	63	7865	0.63	ppb		91
40) Bromodichloromethane	11.30	83	26517	0.68	ppb		90
41) cis-1,3-dichloropropene	12.18	75	12399	0.58	ppb		96
42) trans-1,3-dichloropropene	12.97	75	11825	0.61	ppb		86
43) 1,1,2-trichloroethane	13.28	97	10357	0.71	ppb		87
45) Toluene	13.00	92	14983	0.46	ppb		90
46) Methyl Isobutyl Ketone	12.31	43	11543	0.40	ppb		83
47) Dibromochloromethane	13.95	129	23386m	0.46	ppb		
48) Methyl Butyl Ketone	13.66	43	9653m	0.42	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031620.D Vial: 20
Acq On : 16 Mar 2011 10:57 pm Operator: LL
Sample : B1UG_0.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:36:11 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

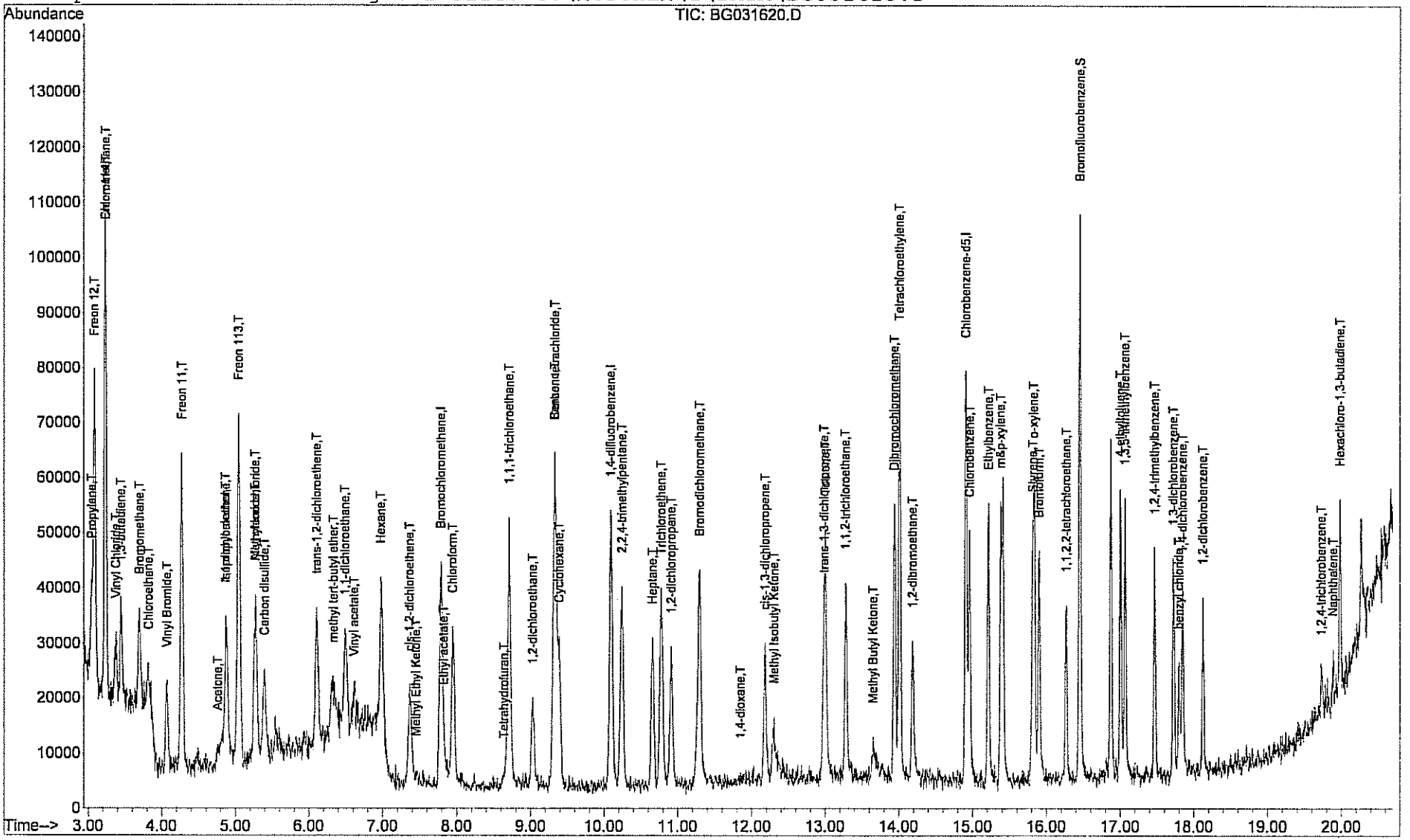
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.18	107	15893	0.52	ppb		87
50)	Tetrachloroethylene	14.01	164	14941	0.49	ppb		92
51)	Chlorobenzene	14.95	112	21604	0.50	ppb		99
52)	Ethylbenzene	15.21	91	33550	0.46	ppb		89
53)	m&p-xylene	15.38	91	55813	0.90	ppb		90
54)	Styrene	15.80	104	15773	0.47	ppb		79
55)	Bromoform	15.90	173	17704	0.43	ppb		87
56)	o-xylene	15.83	91	28605m	0.46	ppb		
58)	1,1,2,2-tetrachloroethane	16.26	83	11128	0.47	ppb		87
59)	4-ethyltoluene	17.00	105	27158m	0.44	ppb		
60)	1,3,5-trimethylbenzene	17.06	105	27719m	0.45	ppb		
61)	1,2,4-trimethylbenzene	17.47	105	21540	0.41	ppb		100
62)	1,3-dichlorobenzene	17.72	146	12772	0.43	ppb		95
63)	benzyl chloride	17.80	91	9390	0.42	ppb		97
64)	1,4-dichlorobenzene	17.85	146	11656	0.40	ppb		94
65)	1,2-dichlorobenzene	18.13	146	9878	0.46	ppb		98
66)	1,2,4-trichlorobenzene	19.74	180	2027	0.43	ppb	#	78
67)	Naphthalene	19.89	128	3200	0.57	ppb		99
68)	Hexachloro-1,3-butadiene	19.98	225	5451	0.42	ppb		83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031620.D Vial: 20
Acq On : 16 Mar 2011 10:57 pm Operator: LL
Sample : B1UG_0.50 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:39 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



BG031620.D B316_1UG.M Mon Apr 25 12:10:54 2011 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031621.D Vial: 21
Acq On : 16 Mar 2011 11:31 pm Operator: LL
Sample : B1UG_0.30 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:39:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.78	128	12810	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	42831	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	35673	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	26462	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	7311m	0.37	ppb		
3) Freon 12	3.08	85	35913	0.32	ppb		91
4) Chloromethane	3.23	50	8937	0.32	ppb		91
5) Freon 114	3.23	85	27411	0.33	ppb		86
6) Vinyl Chloride	3.37	62	6374	0.32	ppb		85
7) 1,3-butadiene	3.44	39	6509	0.38	ppb		77
8) Bromomethane	3.69	94	7222	0.35	ppb		96
9) Chloroethane	3.81	64	3072	0.38	ppb		95
10) Vinyl Bromide	4.05	106	6703	0.34	ppb		84
11) Freon 11	4.26	101	34968	0.36	ppb		93
12) Acetone	4.81	58	1766m	0.40	ppb		
13) Isopropyl alcohol	4.82	45	7335m	0.37	ppb		
14) 1,1-dichloroethene	4.87	96	6564	0.38	ppb		89
15) Freon 113	5.04	101	16515	0.36	ppb	#	78
16) Methylene chloride	5.27	84	5474	0.42	ppb	#	84
17) Allyl chloride	5.27	41	8073	0.41	ppb		91
18) Carbon disulfide	5.38	76	18019	0.36	ppb		99
19) trans-1,2-dichloroethene	6.09	61	10771m	0.38	ppb		
20) methyl tert-butyl ether	6.35	73	11074	0.23	ppb		95
21) 1,1-dichloroethane	6.50	63	12789	0.39	ppb		87
22) Vinyl acetate	6.61	43	9802	0.28	ppb		100
23) Methyl Ethyl Ketone	7.43	72	1305m	0.30	ppb		
24) cis-1,2-dichloroethene	7.37	61	8602	0.36	ppb		97
25) Hexane	6.98	57	8241	0.40	ppb		83
26) Ethyl acetate	7.85	43	5504	0.31	ppb	#	74
27) Chloroform	7.94	83	17072	0.37	ppb		99
28) Tetrahydrofuran	8.72	42	3105m	0.29	ppb		
29) 1,2-dichloroethane	9.02	62	12438	0.35	ppb		85
31) 1,1,1-trichloroethane	8.71	97	21859	0.44	ppb		93
32) Cyclohexane	9.38	56	7174m	0.44	ppb		
33) Carbon tetrachloride	9.33	117	25169	0.42	ppb		96
34) Benzene	9.32	78	13164	0.38	ppb		97
35) 1,4-dioxane	12.03	88	1006m	0.21	ppb		
36) 2,2,4-trimethylpentane	10.24	57	22560	0.44	ppb		92
37) Heptane	10.66	43	8860	0.43	ppb		90
38) Trichloroethene	10.78	130	8446	0.41	ppb		97
39) 1,2-dichloropropane	10.92	63	5278	0.43	ppb	#	51
40) Bromodichloromethane	11.29	83	15240	0.40	ppb		97
41) cis-1,3-dichloropropene	12.18	75	8375	0.40	ppb		87
42) trans-1,3-dichloropropene	12.98	75	7042	0.37	ppb		82
43) 1,1,2-trichloroethane	13.28	97	6262	0.44	ppb		91
45) Toluene	13.00	92	8686	0.29	ppb		95
46) Methyl Isobutyl Ketone	12.33	43	6065m	0.22	ppb		
47) Dibromochloromethane	13.94	129	14607	0.31	ppb		100
48) Methyl Butyl Ketone	13.67	43	7378m	0.34	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031621.D Vial: 21
Acq On : 16 Mar 2011 11:31 pm Operator: LL
Sample : B1UG_0.30 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:39:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

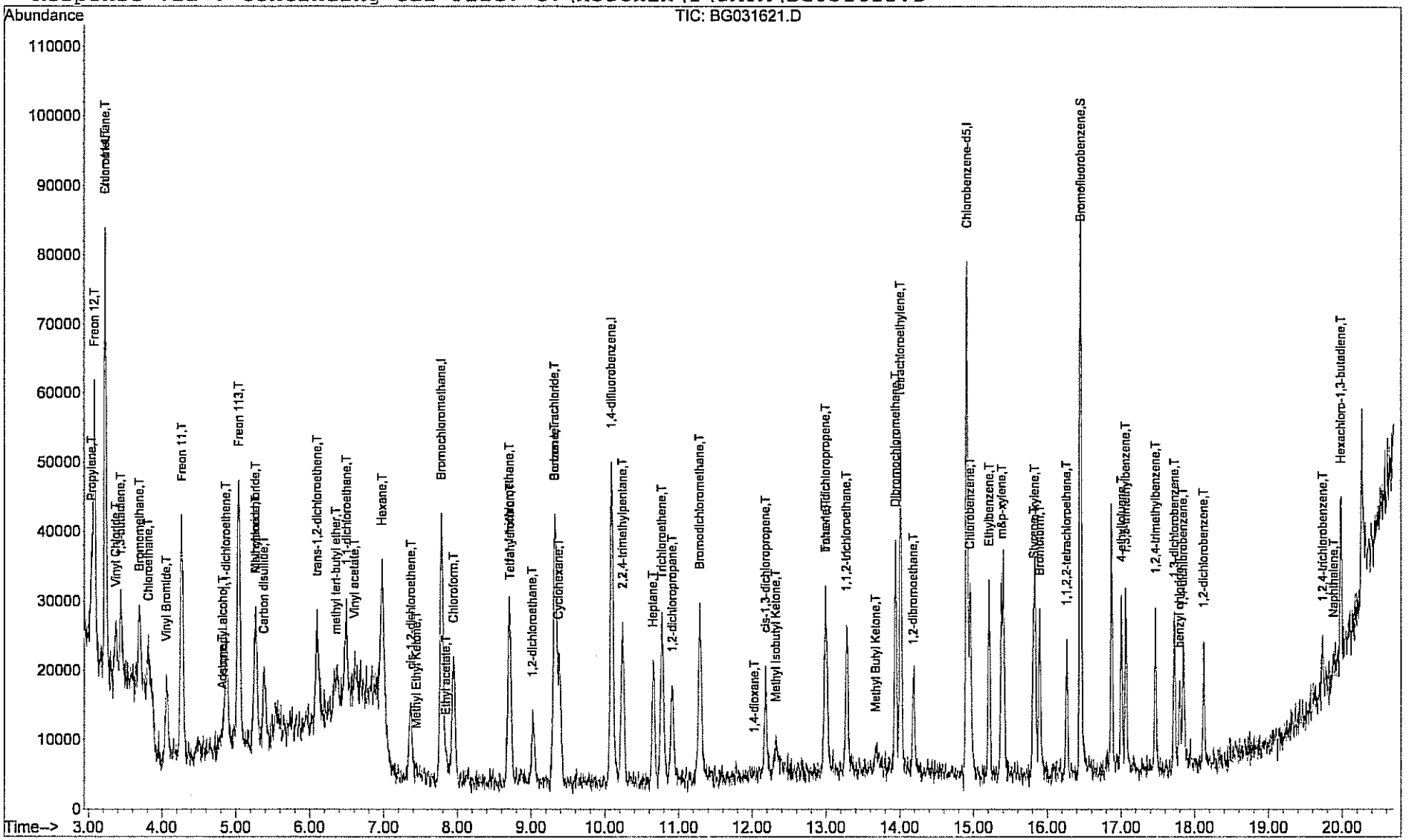
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.18	107	8401	0.29	ppb		86
50)	Tetrachloroethylene	14.01	164	9558	0.34	ppb		91
51)	Chlorobenzene	14.96	112	11681	0.29	ppb		89
52)	Ethylbenzene	15.22	91	19041	0.28	ppb		97
53)	m&p-xylene	15.38	91	32479	0.56	ppb		98
54)	Styrene	15.81	104	8297	0.27	ppb	#	66
55)	Bromoform	15.90	173	9234	0.24	ppb		89
56)	o-xylene	15.83	91	15336	0.26	ppb		99
58)	1,1,2,2-tetrachloroethane	16.26	83	6416	0.29	ppb		87
59)	4-ethyltoluene	17.00	105	13209	0.23	ppb		84
60)	1,3,5-trimethylbenzene	17.06	105	13201	0.23	ppb		90
61)	1,2,4-trimethylbenzene	17.47	105	11357	0.24	ppb		97
62)	1,3-dichlorobenzene	17.73	146	6650	0.24	ppb		92
63)	benzyl chloride	17.79	91	5037	0.25	ppb		87
64)	1,4-dichlorobenzene	17.85	146	6758	0.25	ppb		88
65)	1,2-dichlorobenzene	18.13	146	5047	0.26	ppb		98
66)	1,2,4-trichlorobenzene	19.73	180	1428	0.32	ppb	#	84
67)	Naphthalene	19.88	128	1708	0.33	ppb		81
68)	Hexachloro-1,3-butadiene	19.97	225	3680	0.31	ppb		84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031621.D Vial: 21
Acq On : 16 Mar 2011 11:31 pm Operator: LL
Sample : B1UG_0.30 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:45 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031622.D Vial: 22
Acq On : 17 Mar 2011 12:05 am Operator: LL
Sample : B1UG_0.15 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:46:14 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	13050	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	41376	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	34693	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	25355	0.85	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	5083m	0.26	ppb		
3) Freon 12	3.08	85	21341	0.19	ppb		95
4) Chloromethane	3.23	50	5967	0.21	ppb		96
5) Freon 114	3.23	85	15608	0.18	ppb		86
6) Vinyl Chloride	3.36	62	4148	0.21	ppb		91
7) 1,3-butadiene	3.44	39	4545	0.26	ppb		72
8) Bromomethane	3.70	94	4118	0.20	ppb		94
9) Chloroethane	3.82	64	1847m	0.23	ppb		
10) Vinyl Bromide	4.07	106	3897m	0.19	ppb		
11) Freon 11	4.27	101	21215	0.22	ppb		99
12) Acetone	4.82	58	991m	0.22	ppb		
13) Isopropyl alcohol	4.86	45	3461	0.17	ppb		96
14) 1,1-dichloroethene	4.88	96	3870m	0.22	ppb		
15) Freon 113	5.05	101	10630	0.23	ppb		90
16) Methylene chloride	5.29	84	2986	0.22	ppb	#	84
17) Allyl chloride	5.25	41	4951	0.24	ppb	#	49
18) Carbon disulfide	5.39	76	11182	0.22	ppb		99
19) trans-1,2-dichloroethene	6.10	61	5963	0.21	ppb	#	36
20) methyl tert-butyl ether	6.36	73	7959m	0.16	ppb		
21) 1,1-dichloroethane	6.49	63	7429m	0.22	ppb		
22) Vinyl acetate	6.63	43	4360	0.12	ppb		80
24) cis-1,2-dichloroethene	7.36	61	4724m	0.20	ppb		
25) Hexane	6.98	57	5270m	0.25	ppb		
26) Ethyl acetate	7.90	43	5169m	0.28	ppb		
27) Chloroform	7.96	83	9405	0.20	ppb		85
28) Tetrahydrofuran	8.88	42	2656m	0.25	ppb		
29) 1,2-dichloroethane	9.03	62	6358	0.17	ppb		93
31) 1,1,1-trichloroethane	8.72	97	12929	0.27	ppb		85
32) Cyclohexane	9.39	56	4018	0.25	ppb	#	29
33) Carbon tetrachloride	9.35	117	14939	0.26	ppb		95
34) Benzene	9.31	78	7743	0.23	ppb		88
36) 2,2,4-trimethylpentane	10.24	57	11591	0.23	ppb		78
37) Heptane	10.67	43	5947m	0.30	ppb		
38) Trichloroethene	10.77	130	4989m	0.25	ppb		
39) 1,2-dichloropropane	10.90	63	2949	0.25	ppb		66
40) Bromodichloromethane	11.29	83	9647	0.26	ppb		91
41) cis-1,3-dichloropropene	12.19	75	4064	0.20	ppb	#	67
42) trans-1,3-dichloropropene	12.99	75	4101m	0.22	ppb		
43) 1,1,2-trichloroethane	13.27	97	3168	0.23	ppb		80
45) Toluene	13.00	92	5095	0.17	ppb		94
46) Methyl Isobutyl Ketone	12.33	43	5428m	0.21	ppb		
47) Dibromochloromethane	13.94	129	7582m	0.17	ppb		
48) Methyl Butyl Ketone	13.77	43	4591m	0.22	ppb		
49) 1,2-dibromoethane	14.18	107	5451	0.20	ppb		95
50) Tetrachloroethylene	14.01	164	5665	0.21	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031622.D Vial: 22
Acq On : 17 Mar 2011 12:05 am Operator: LL
Sample : B1UG_0.15 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:46:14 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
51)	Chlorobenzene	14.96	112	5763	0.15	ppb		87
52)	Ethylbenzene	15.22	91	10556	0.16	ppb		100
53)	m&p-xylene	15.41	91	15715	0.28	ppb		86
54)	Styrene	15.81	104	4307	0.14	ppb		88
55)	Bromoform	15.91	173	5410	0.15	ppb		84
56)	o-xylene	15.83	91	8414	0.15	ppb		93
58)	1,1,2,2-tetrachloroethane	16.26	83	3961	0.19	ppb	#	76
59)	4-ethyltoluene	17.01	105	6136	0.11	ppb		98
60)	1,3,5-trimethylbenzene	17.07	105	8455m	0.15	ppb		
61)	1,2,4-trimethylbenzene	17.47	105	5407	0.12	ppb		98
62)	1,3-dichlorobenzene	17.72	146	4670	0.18	ppb		82
63)	benzyl chloride	17.80	91	3284	0.16	ppb		90
64)	1,4-dichlorobenzene	17.85	146	4017	0.15	ppb		94
65)	1,2-dichlorobenzene	18.12	146	3078	0.16	ppb		93
66)	1,2,4-trichlorobenzene	19.74	180	962m	0.22	ppb		
67)	Naphthalene	19.88	128	1136	0.22	ppb		76
68)	Hexachloro-1,3-butadiene	19.98	225	1712	0.15	ppb		83

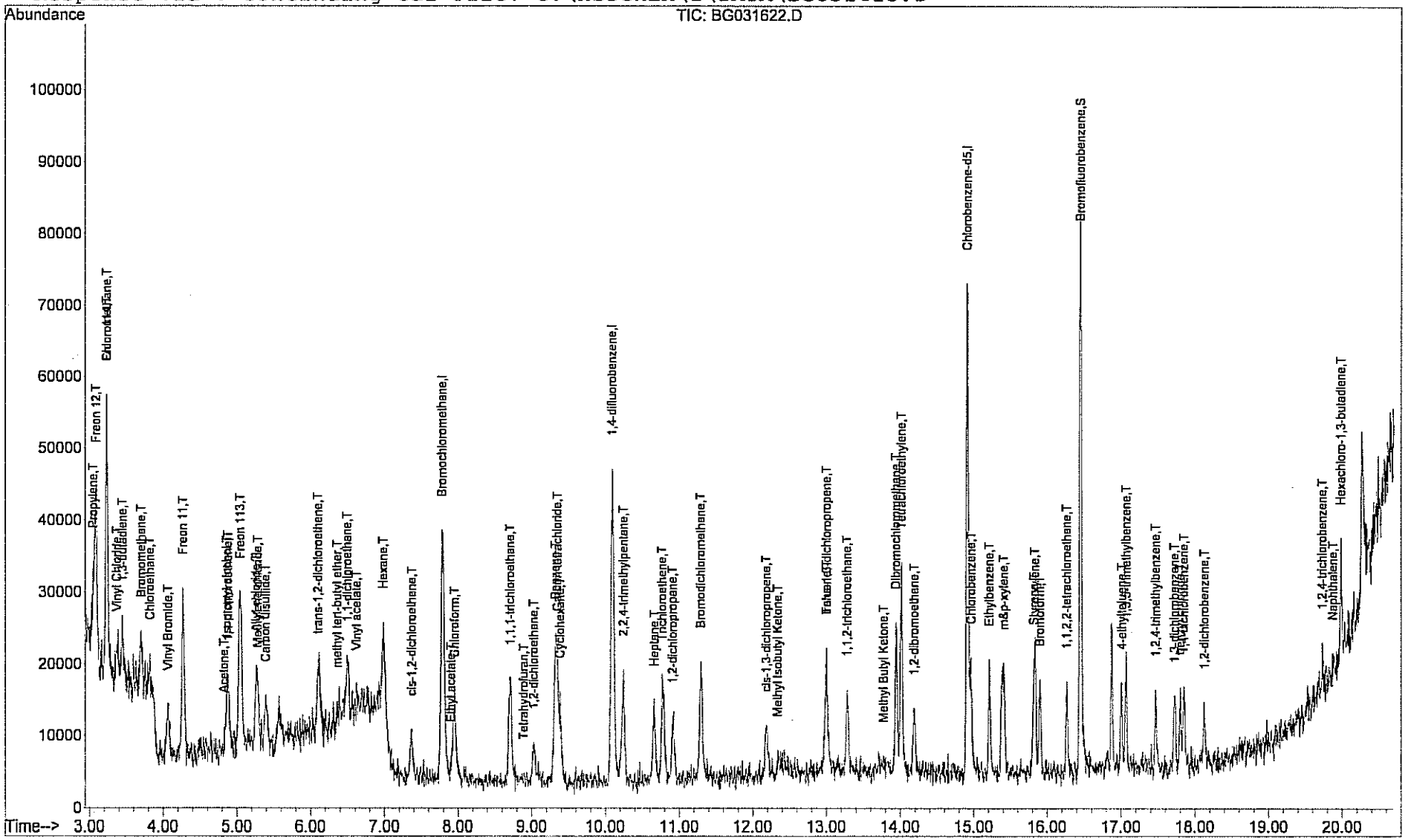
T.L.

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031622.D Via1: 22
Acq On : 17 Mar 2011 12:05 am Operator: LL
Sample : B1UG_0.15 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 16:53 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031623.D Vial: 23
Acq On : 17 Mar 2011 12:38 am Operator: LL
Sample : B1UG_0.10 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:00:15 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

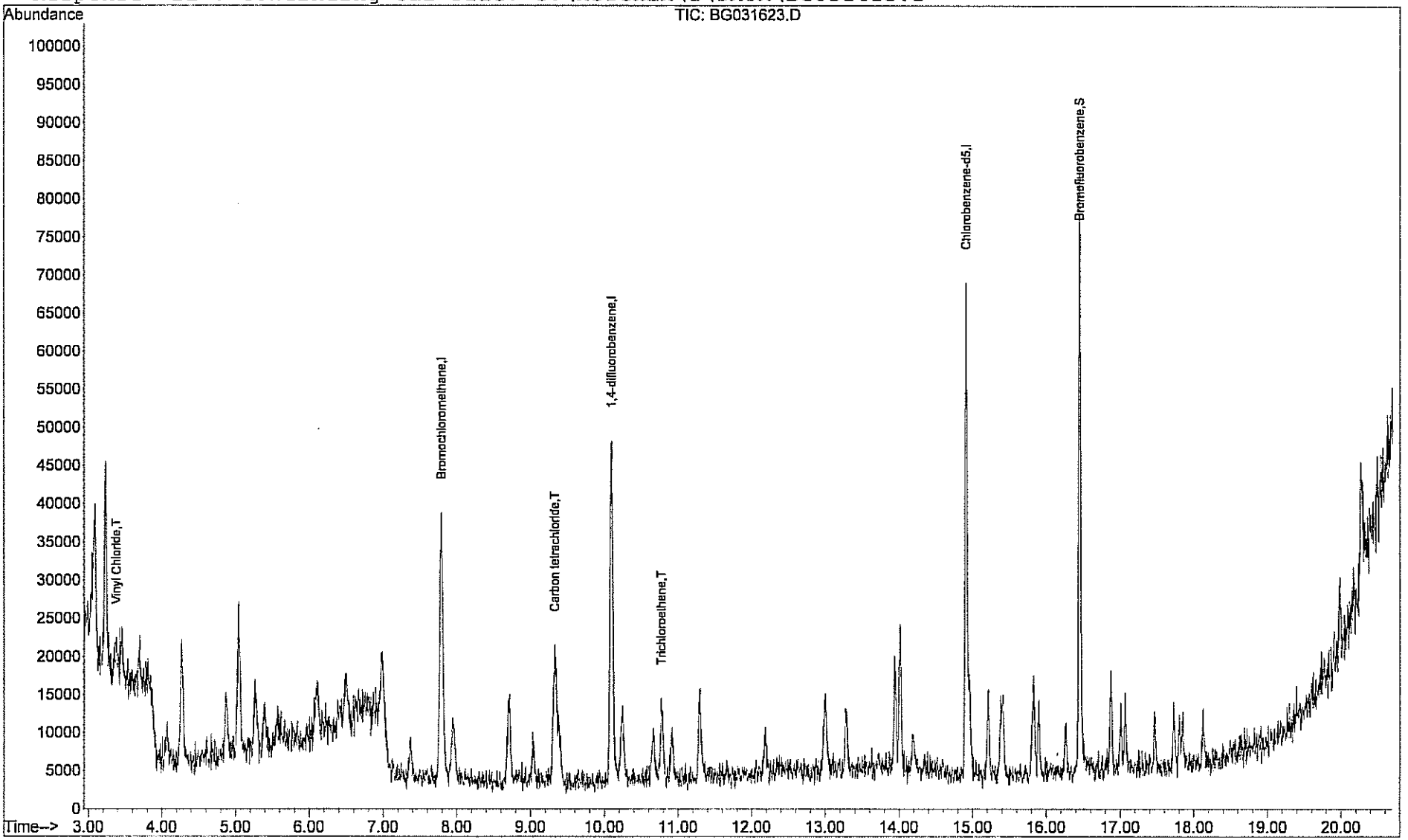
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.80	128	11205	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.10	114	40416	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	30921	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	23656	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.38	62	2820	0.16	ppb	96
33) Carbon tetrachloride	9.33	117	10667	0.19	ppb	93
38) Trichloroethene	10.78	130	3346	0.17	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031623.D Vial: 23
Acq On : 17 Mar 2011 12:38 am Operator: LL
Sample : B1UG_0.10 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:01 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031624.D Vial: 24
Acq On : 17 Mar 2011 1:10 am Operator: LL
Sample : B1UG_0.04 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:02:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 16:21:34 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D
DataAcq Meth : B316_1UG

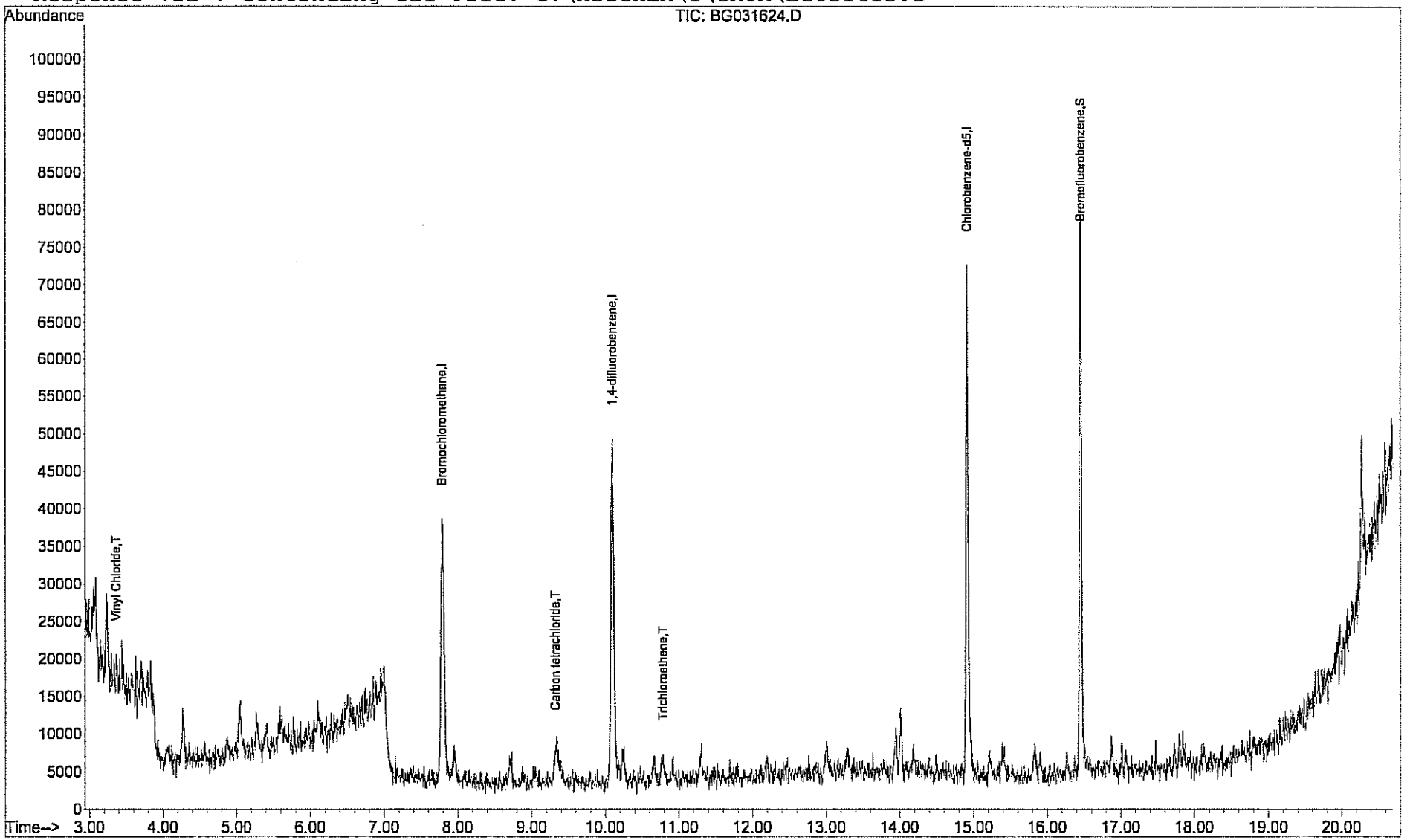
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	11266	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	41662	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	32207	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.44	95	25959	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
6) Vinyl Chloride	3.36	62	757	0.04	ppb		71
33) Carbon tetrachloride	9.33	117	3043	0.05	ppb		94
38) Trichloroethene	10.78	130	1266	0.06	ppb	#	68

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG031624.D Vial: 24
Acq On : 17 Mar 2011 1:10 am Operator: LL
Sample : B1UG_0.04 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL INIT CAL Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 21 17:04 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Continuing Cal File: C:\MSDCHEM\1\DATA\BG031615.D



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\BG032503.D Vial: 3
Acq On : 25 Mar 2011 2:46 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	107	0.00
2	T	Propylene	1.573	1.581	-0.5	111	0.00
3	T	Freon 12	8.661	10.883	-25.7	134	0.00
4	T	Chloromethane	2.268	2.276	-0.4	112	0.00
5	T	Freon 114	6.540	7.851	-20.0	128	0.00
6	T	Vinyl Chloride	1.649	1.585	3.9	111	0.00
7	T	1,3-butadiene	1.469	1.128	23.2	91	0.00
8	T	Bromomethane	1.662	1.747	-5.1	117	0.00
9	T	Chloroethane	0.693	0.675	2.6	116	0.00
10	T	Vinyl Bromide	1.585	1.405	11.4	97	0.00
11	T	Freon 11	8.148	8.014	1.6	114	0.00
12	T	Acetone	0.371	0.357	3.8	111	0.06
13	T	Isopropyl alcohol	1.578	1.148	27.2	80	0.03
14	T	1,1-dichloroethene	1.413	1.262	10.7	101	0.00
15	T	Freon 113	3.915	3.820	2.4	115	0.00
16	T	Methylene chloride	1.189	1.166	1.9	123	0.00
17	T	Allyl chloride	1.765	1.252	29.1	86	0.00
18	T	Carbon disulfide	3.953	3.615	8.6	98	0.00
19	T	trans-1,2-dichloroethene	2.391	1.891	20.9	92	0.00
20	T	methyl tert-butyl ether	3.433	2.449	28.7	69	0.04
21	T	1,1-dichloroethane	2.874	2.273	20.9	95	0.00
22	T	Vinyl acetate	2.388	1.844	22.8	73	0.00
23	T	Methyl Ethyl Ketone	0.325	0.231	28.9	74	0.03
24	T	cis-1,2-dichloroethene	1.982	1.587	19.9	92	-0.01
25	T	Hexane	1.812	1.315	27.4	88	0.00
26	T	Ethyl acetate	1.604	1.392	13.2	106	0.03
27	T	Chloroform	3.974	3.722	6.3	111	0.00
28	T	Tetrahydrofuran	0.854	0.619	27.5	80	0.04
29	T	1,2-dichloroethane	2.886	2.445	15.3	94	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	95	0.00
31	T	1,1,1-trichloroethane	1.609	1.345	16.4	110	0.00
32	T	Cyclohexane	0.525	0.382	27.2	94	0.00
33	T	Carbon tetrachloride	1.941	1.636	15.7	112	0.00
34	T	Benzene	1.039	0.862	17.0	102	0.00
35	T	1,4-dioxane	0.111	0.079	28.8	68	0.42#
36	T	2,2,4-trimethylpentane	1.606	1.133	29.5	90	0.00
37	T	Heptane	0.635	0.449	29.3	89	0.00
38	T	Trichloroethene	0.659	0.538	18.4	107	0.00
39	T	1,2-dichloropropane	0.377	0.268	28.9	89	0.00
40	T	Bromodichloromethane	1.206	1.046	13.3	112	0.00
41	T	cis-1,3-dichloropropene	0.618	0.447	27.7	87	0.00
42	T	trans-1,3-dichloropropene	0.585	0.419	28.4	90	0.00
43	T	1,1,2-trichloroethane	0.456	0.352	22.8	101	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00
45	T	Toluene	0.821	0.658	19.9	89	0.00
46	T	Methyl Isobutyl Ketone	0.708	0.508	28.2	76	0.04
47	T	Dibromochloromethane	1.269	1.234	2.8	107	0.00
48	T	Methyl Butyl Ketone	0.598	0.423	29.3	80	0.05
49	T	1,2-dibromoethane	0.838	0.725	13.5	103	0.00
50	T	Tetrachloroethylene	0.827	0.843	-1.9	121	0.00
51	T	Chlorobenzene	1.106	1.007	9.0	103	0.00

(#) = Out of Range

Continuing Calibration Report

Data File : C:\MSDCHEM\1\DATA\BG032503.D Vial: 3
Acq On : 25 Mar 2011 2:46 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	Ethylbenzene	1.849	1.409	23.8	84	0.00
53	T	m&p-xylene	1.528	1.335	12.6	94	0.00
54	T	Styrene	0.852	0.718	15.7	94	0.00
55	T	Bromoform	0.973	1.189	-22.2	128	0.00
56	T	o-xylene	1.556	1.376	11.6	97	0.00
57	S	Bromofluorobenzene	0.804	0.712	11.4	94	0.00
58	T	1,1,2,2-tetrachloroethane	0.607	0.607	0.0	113	0.00
59	T	4-ethyltoluene	1.430	1.252	12.4	88	0.00
60	T	1,3,5-trimethylbenzene	1.483	1.392	6.1	99	0.00
61	T	1,2,4-trimethylbenzene	1.186	0.986	16.9	83	0.00
62	T	1,3-dichlorobenzene	0.712	0.758	-6.5	113	0.00
63	T	benzyl chloride	0.526	0.489	7.0	97	0.00
64	T	1,4-dichlorobenzene	0.681	0.736	-8.1	110	0.00
65	T	1,2-dichlorobenzene	0.529	0.595	-12.5	123	0.00
66	T	1,2,4-trichlorobenzene	0.114	0.116	-1.8	107	0.00
67	T	Naphthalene	0.142	0.123	13.4	97	0.00
68	T	Hexachloro-1,3-butadiene	0.291	0.461	-58.4#	157#	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032503.D Vial: 3
Acq On : 25 Mar 2011 2:46 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:07:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	15803	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	56527	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	44855	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	31922	0.89	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	24988	1.01	ppb		91
3) Freon 12	3.08	85	171983	1.26	ppb		94
4) Chloromethane	3.23	50	35975	1.00	ppb		97
5) Freon 114	3.23	85	124069	1.20	ppb		79
6) Vinyl Chloride	3.36	62	25053	0.96	ppb		94
7) 1,3-butadiene	3.44	39	17830	0.77	ppb		99
8) Bromomethane	3.69	94	27612	1.05	ppb		96
9) Chloroethane	3.82	64	10667	0.97	ppb		98
10) Vinyl Bromide	4.07	106	22199	0.89	ppb		96
11) Freon 11	4.26	101	126638	0.98	ppb		98
12) Acetone	4.79	58	5638m	0.96	ppb		
13) Isopropyl alcohol	4.81	45	18140m	0.73	ppb		
14) 1,1-dichloroethene	4.87	96	19950	0.89	ppb		95
15) Freon 113	5.04	101	60364	0.98	ppb	#	80
16) Methylene chloride	5.28	84	18427	0.98	ppb		97
17) Allyl chloride	5.26	41	19793m	0.71	ppb		
18) Carbon disulfide	5.39	76	57135	0.91	ppb		81
19) trans-1,2-dichloroethene	6.10	61	29887	0.79	ppb		94
20) methyl tert-butyl ether	6.31	73	38705m	0.71	ppb		
21) 1,1-dichloroethane	6.49	63	35925	0.79	ppb		99
22) Vinyl acetate	6.61	43	29146m	0.77	ppb		
23) Methyl Ethyl Ketone	7.45	72	3650m	0.71	ppb		
24) cis-1,2-dichloroethene	7.35	61	25074	0.80	ppb		82
25) Hexane	6.98	57	20777	0.73	ppb	#	74
26) Ethyl acetate	7.82	43	21992m	0.87	ppb		
27) Chloroform	7.94	83	58824	0.94	ppb		100
28) Tetrahydrofuran	8.64	42	9775m	0.72	ppb		
29) 1,2-dichloroethane	9.03	62	38638	0.85	ppb		93
31) 1,1,1-trichloroethane	8.71	97	76035	0.84	ppb		89
32) Cyclohexane	9.39	56	21577m	0.73	ppb		
33) Carbon tetrachloride	9.34	117	92499	0.84	ppb		94
34) Benzene	9.31	78	48735	0.83	ppb		89
35) 1,4-dioxane	12.10	88	4467m	0.71	ppb		
36) 2,2,4-trimethylpentane	10.24	57	64040m	0.71	ppb		
37) Heptane	10.66	43	25359m	0.71	ppb		
38) Trichloroethene	10.78	130	30419	0.82	ppb		95
39) 1,2-dichloropropane	10.91	63	15154m	0.71	ppb		
40) Bromodichloromethane	11.29	83	59129	0.87	ppb		97
41) cis-1,3-dichloropropene	12.18	75	25281m	0.72	ppb		
42) trans-1,3-dichloropropene	12.98	75	23689m	0.72	ppb		
43) 1,1,2-trichloroethane	13.27	97	19925	0.77	ppb		80
45) Toluene	13.00	92	29535	0.80	ppb		94
46) Methyl Isobutyl Ketone	12.27	43	22793m	0.72	ppb		
47) Dibromochloromethane	13.94	129	55336	0.97	ppb		96
48) Methyl Butyl Ketone	13.65	43	18991m	0.71	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032503.D Vial: 3
Acq On : 25 Mar 2011 2:46 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:07:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

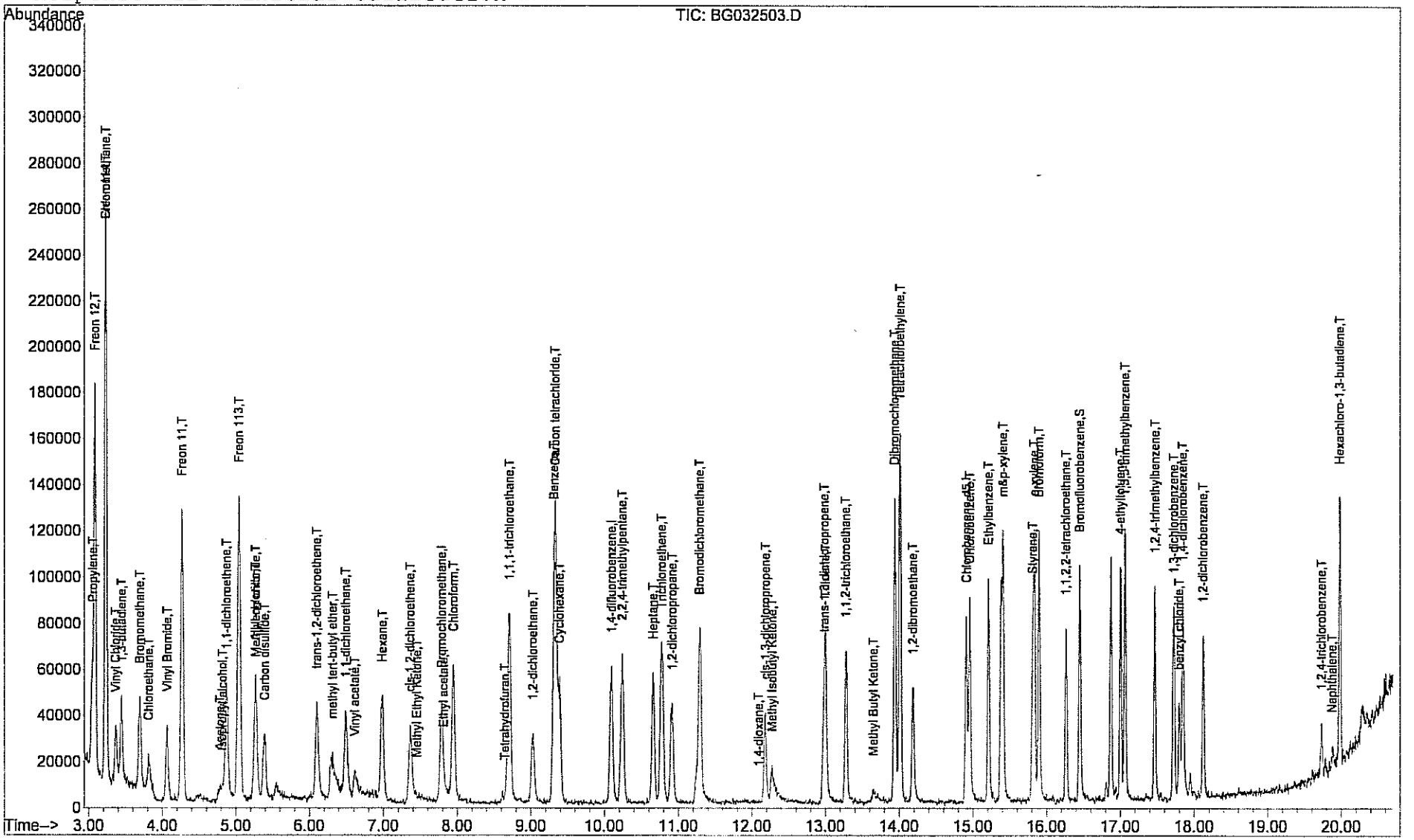
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	32512	0.86	ppb	81
50)	Tetrachloroethylene	14.01	164	37794	1.02	ppb	91
51)	Chlorobenzene	14.96	112	45177	0.91	ppb	90
52)	Ethylbenzene	15.21	91	63223	0.76	ppb	89
53)	m&p-xylene	15.41	91	119728	1.75	ppb	88
54)	Styrene	15.80	104	32222	0.84	ppb	81
55)	Bromoform	15.89	173	53354	1.22	ppb	94
56)	o-xylene	15.83	91	61708m	0.88	ppb	
58)	1,1,2,2-tetrachloroethane	16.26	83	27235	1.00	ppb	86
59)	4-ethyltoluene	17.01	105	56179	0.88	ppb	78
60)	1,3,5-trimethylbenzene	17.06	105	62451	0.94	ppb	93
61)	1,2,4-trimethylbenzene	17.47	105	44246	0.83	ppb	100
62)	1,3-dichlorobenzene	17.72	146	34010	1.06	ppb	94
63)	benzyl chloride	17.79	91	21948	0.93	ppb	87
64)	1,4-dichlorobenzene	17.84	146	33016	1.08	ppb	90
65)	1,2-dichlorobenzene	18.12	146	26675	1.12	ppb	93
66)	1,2,4-trichlorobenzene	19.73	180	5203	1.01	ppb	87
67)	Naphthalene	19.88	128	5538	0.87	ppb	94
68)	Hexachloro-1,3-butadiene	19.98	225	20659	1.58	ppb	83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032503.D Vial: 3
Acq On : 25 Mar 2011 2:46 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 15 16:26 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Data File : C:\MSDCHEM\1\DATA\BG033003.D Vial: 3
Acq On : 30 Mar 2011 12:13 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	160#	0.00
2	T	Propylene	1.573	1.158	26.4	121	0.00
3	T	Freon 12	8.661	8.718	-0.7	160#	0.00
4	T	Chloromethane	2.268	1.838	19.0	135	0.00
5	T	Freon 114	6.540	6.386	2.4	156#	0.00
6	T	Vinyl Chloride	1.649	1.378	16.4	144	0.01
7	T	1,3-butadiene	1.469	1.056	28.1	128	0.00
8	T	Bromomethane	1.662	1.566	5.8	157#	0.00
9	T	Chloroethane	0.693	0.564	18.6	144	0.00
10	T	Vinyl Bromide	1.585	1.280	19.2	133	0.01
11	T	Freon 11	8.148	6.828	16.2	145	0.01
12	T	Acetone	0.371	0.297	19.9	138	0.15
13	T	Isopropyl alcohol	1.578	1.120	29.0	116	0.14
14	T	1,1-dichloroethene	1.413	1.088	23.0	130	0.00
15	T	Freon 113	3.915	3.410	12.9	153#	0.01
16	T	Methylene chloride	1.189	1.030	13.4	162#	0.00
17	T	Allyl chloride	1.765	1.257	28.8	129	0.02
18	T	Carbon disulfide	3.953	3.353	15.2	135	0.00
19	T	trans-1,2-dichloroethene	2.391	1.723	27.9	125	0.02
20	T	methyl tert-butyl ether	3.433	2.483	27.7	105	0.07
21	T	1,1-dichloroethane	2.874	2.034	29.2	127	0.02
22	T	Vinyl acetate	2.388	1.703	28.7	101	0.05
23	T	Methyl Ethyl Ketone	0.325	0.231	28.9	110	0.06
24	T	cis-1,2-dichloroethene	1.982	1.403	29.2	121	0.02
25	T	Hexane	1.812	1.287	29.0	128	0.00
26	T	Ethyl acetate	1.604	1.326	17.3	151#	0.07
27	T	Chloroform	3.974	3.331	16.2	148	0.02
28	T	Tetrahydrofuran	0.854	0.428	49.9#	83	0.05
29	T	1,2-dichloroethane	2.886	2.101	27.2	120	0.02
30	I	1,4-difluorobenzene	1.000	1.000	0.0	144	0.02
31	T	1,1,1-trichloroethane	1.609	1.173	27.1	145	0.02
32	T	Cyclohexane	0.525	0.310	41.0#	116	0.03
33	T	Carbon tetrachloride	1.941	1.450	25.3	150	0.00
34	T	Benzene	1.039	0.748	28.0	134	0.00
35	T	1,4-dioxane	0.111	0.079	28.8	102	0.15
36	T	2,2,4-trimethylpentane	1.606	0.854	46.8#	103	0.00
37	T	Heptane	0.635	0.340	46.5#	103	0.00
38	T	Trichloroethene	0.659	0.501	24.0	151#	0.00
39	T	1,2-dichloropropane	0.377	0.266	29.4	134	0.02
40	T	Bromodichloromethane	1.206	0.945	21.6	153#	0.00
41	T	cis-1,3-dichloropropene	0.618	0.437	29.3	128	0.02
42	T	trans-1,3-dichloropropene	0.585	0.416	28.9	135	0.00
43	T	1,1,2-trichloroethane	0.456	0.367	19.5	159#	0.01
44	I	Chlorobenzene-d5	1.000	1.000	0.0	192#	0.00
45	T	Toluene	0.821	0.582	29.1	132	0.00
46	T	Methyl Isobutyl Ketone	0.708	0.423	40.3#	107	0.06
47	T	Dibromochloromethane	1.269	1.153	9.1	167#	0.00
48	T	Methyl Butyl Ketone	0.598	0.310	48.2#	98	0.09
49	T	1,2-dibromoethane	0.838	0.648	22.7	154#	0.00
50	T	Tetrachloroethylene	0.827	0.741	10.4	178#	0.00
51	T	Chlorobenzene	1.106	0.861	22.2	148	0.00

(#) = Out of Range

Data File : C:\MSDCHEM\1\DATA\BG033003.D Vial: 3
Acq On : 30 Mar 2011 12:13 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
52	T	Ethylbenzene	1.849	1.074	41.9#	108	0.00
53	T	m&p-xylene	1.528	1.024	33.0#	121	0.00
54	T	Styrene	0.852	0.601	29.5	132	0.00
55	T	Bromoform	0.973	0.954	2.0	172#	0.00
56	T	o-xylene	1.556	1.138	26.9	134	0.00
57	S	Bromofluorobenzene	0.804	0.685	14.8	152#	0.00
58	T	1,1,2,2-tetrachloroethane	0.607	0.520	14.3	162#	0.00
59	T	4-ethyltoluene	1.430	1.111	22.3	131	0.00
60	T	1,3,5-trimethylbenzene	1.483	1.112	25.0	133	0.00
61	T	1,2,4-trimethylbenzene	1.186	0.847	28.6	120	0.00
62	T	1,3-dichlorobenzene	0.712	0.696	2.2	174#	0.00
63	T	benzyl chloride	0.526	0.455	13.5	151#	0.00
64	T	1,4-dichlorobenzene	0.681	0.670	1.6	168#	0.00
65	T	1,2-dichlorobenzene	0.529	0.585	-10.6	202#	0.00
66	T	1,2,4-trichlorobenzene	0.114	0.128	-12.3	198#	0.00
67	T	Naphthalene	0.142	0.173	-21.8	227#	0.00
68	T	Hexachloro-1,3-butadiene	0.291	0.518	-78.0#	296#	0.00

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033003.D Vial: 3
Acq On : 30 Mar 2011 12:13 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 12:34:06 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	23589	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	85556	1.00	ppb		0.02
44) Chlorobenzene-d5	14.91	117	75269	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.44	95	51541	0.85	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	27306	0.74	ppb		88
3) Freon 12	3.09	85	205647	1.01	ppb		96
4) Chloromethane	3.24	50	43349	0.81	ppb		100
5) Freon 114	3.24	85	150637	0.98	ppb		77
6) Vinyl Chloride	3.38	62	32512	0.84	ppb		86
7) 1,3-butadiene	3.45	39	24913m	0.72	ppb		
8) Bromomethane	3.70	94	36941	0.94	ppb		99
9) Chloroethane	3.83	64	13308	0.81	ppb		94
10) Vinyl Bromide	4.08	106	30188	0.81	ppb		91
11) Freon 11	4.28	101	161064	0.84	ppb		99
12) Acetone	4.88	58	7015m	0.80	ppb		
13) Isopropyl alcohol	4.93	45	26422m	0.71	ppb		
14) 1,1-dichloroethene	4.89	96	25676	0.77	ppb		95
15) Freon 113	5.06	101	80446	0.87	ppb	#	74
16) Methylene chloride	5.29	84	24303	0.87	ppb		97
17) Allyl chloride	5.27	41	29653m	0.71	ppb		
18) Carbon disulfide	5.40	76	79087	0.85	ppb		99
19) trans-1,2-dichloroethene	6.12	61	40638	0.72	ppb		94
20) methyl tert-butyl ether	6.34	73	58561m	0.72	ppb		
21) 1,1-dichloroethane	6.50	63	47980	0.71	ppb		98
22) Vinyl acetate	6.64	43	40182m	0.71	ppb		
23) Methyl Ethyl Ketone	7.48	72	5440m	0.71	ppb		
24) cis-1,2-dichloroethene	7.39	61	33096m	0.71	ppb		
25) Hexane	6.99	57	30349m	0.71	ppb		
26) Ethyl acetate	7.87	43	31269m	0.83	ppb		
27) Chloroform	7.97	83	78573	0.84	ppb		98
28) Tetrahydrofuran	8.66	42	10100m	0.50	ppb		
29) 1,2-dichloroethane	9.04	62	49551m	0.73	ppb		
31) 1,1,1-trichloroethane	8.72	97	100397	0.73	ppb		91
32) Cyclohexane	9.41	56	26484m	0.59	ppb		
33) Carbon tetrachloride	9.34	117	124080	0.75	ppb		99
34) Benzene	9.32	78	64030	0.72	ppb		97
35) 1,4-dioxane	11.84	88	6739m	0.71	ppb		
36) 2,2,4-trimethylpentane	10.25	57	73026m	0.53	ppb		
37) Heptane	10.67	43	29071m	0.53	ppb		
38) Trichloroethene	10.78	130	42851	0.76	ppb		94
39) 1,2-dichloropropane	10.93	63	22788	0.71	ppb		99
40) Bromodichloromethane	11.30	83	80811	0.78	ppb		95
41) cis-1,3-dichloropropene	12.19	75	37391m	0.71	ppb		
42) trans-1,3-dichloropropene	12.98	75	35626m	0.71	ppb		
43) 1,1,2-trichloroethane	13.28	97	31359	0.80	ppb		84
45) Toluene	13.00	92	43829	0.71	ppb		88
46) Methyl Isobutyl Ketone	12.29	43	31808m	0.60	ppb		
47) Dibromochloromethane	13.94	129	86812m	0.91	ppb		
48) Methyl Butyl Ketone	13.69	43	23311m	0.52	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033003.D Vial: 3
Acq On : 30 Mar 2011 12:13 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 12:34:06 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

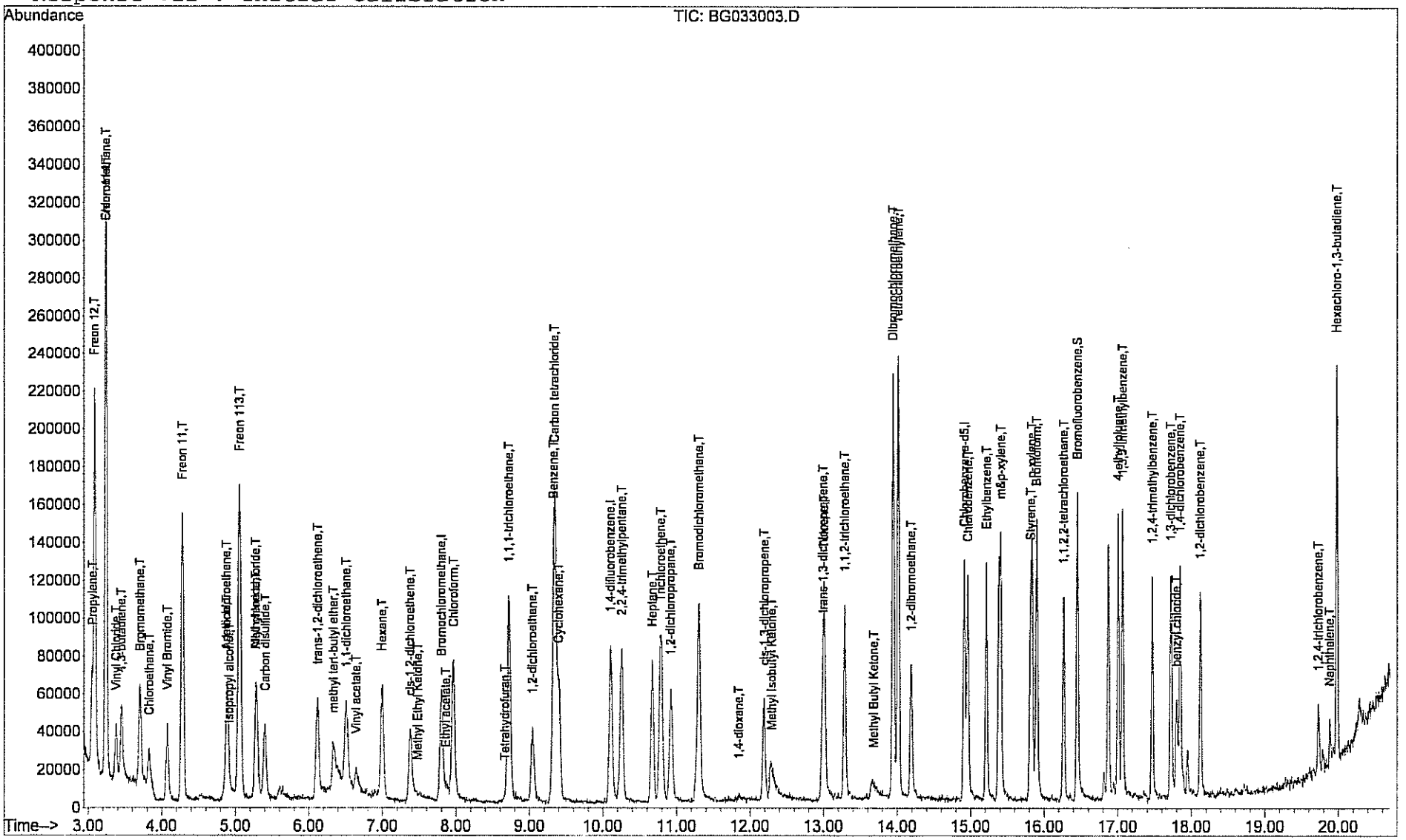
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	48742	0.77	ppb	89
50)	Tetrachloroethylene	14.01	164	55749	0.90	ppb	100
51)	Chlorobenzene	14.96	112	64801	0.78	ppb	89
52)	Ethylbenzene	15.22	91	80808	0.58	ppb	93
53)	m&p-xylene	15.40	91	154102m	1.34	ppb	
54)	Styrene	15.81	104	45255m	0.71	ppb	
55)	Bromoform	15.89	173	71835	0.98	ppb	94
56)	o-xylene	15.84	91	85661	0.73	ppb	96
58)	1,1,2,2-tetrachloroethane	16.26	83	39173	0.86	ppb	96
59)	4-ethyltoluene	17.01	105	83654m	0.78	ppb	
60)	1,3,5-trimethylbenzene	17.06	105	83663m	0.75	ppb	
61)	1,2,4-trimethylbenzene	17.47	105	63782m	0.71	ppb	
62)	1,3-dichlorobenzene	17.72	146	52411	0.98	ppb	93
63)	benzyl chloride	17.80	91	34250	0.86	ppb	93
64)	1,4-dichlorobenzene	17.84	146	50412	0.98	ppb	88
65)	1,2-dichlorobenzene	18.12	146	44067	1.11	ppb	94
66)	1,2,4-trichlorobenzene	19.73	180	9625	1.12	ppb	95
67)	Naphthalene	19.88	128	13006	1.22	ppb	96
68)	Hexachloro-1,3-butadiene	19.98	225	39006	1.78	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033003.D Vial: 3
Acq On : 30 Mar 2011 12:13 pm Operator: LL
Sample : B1UG_1.0 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL STD Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 15 16:54 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

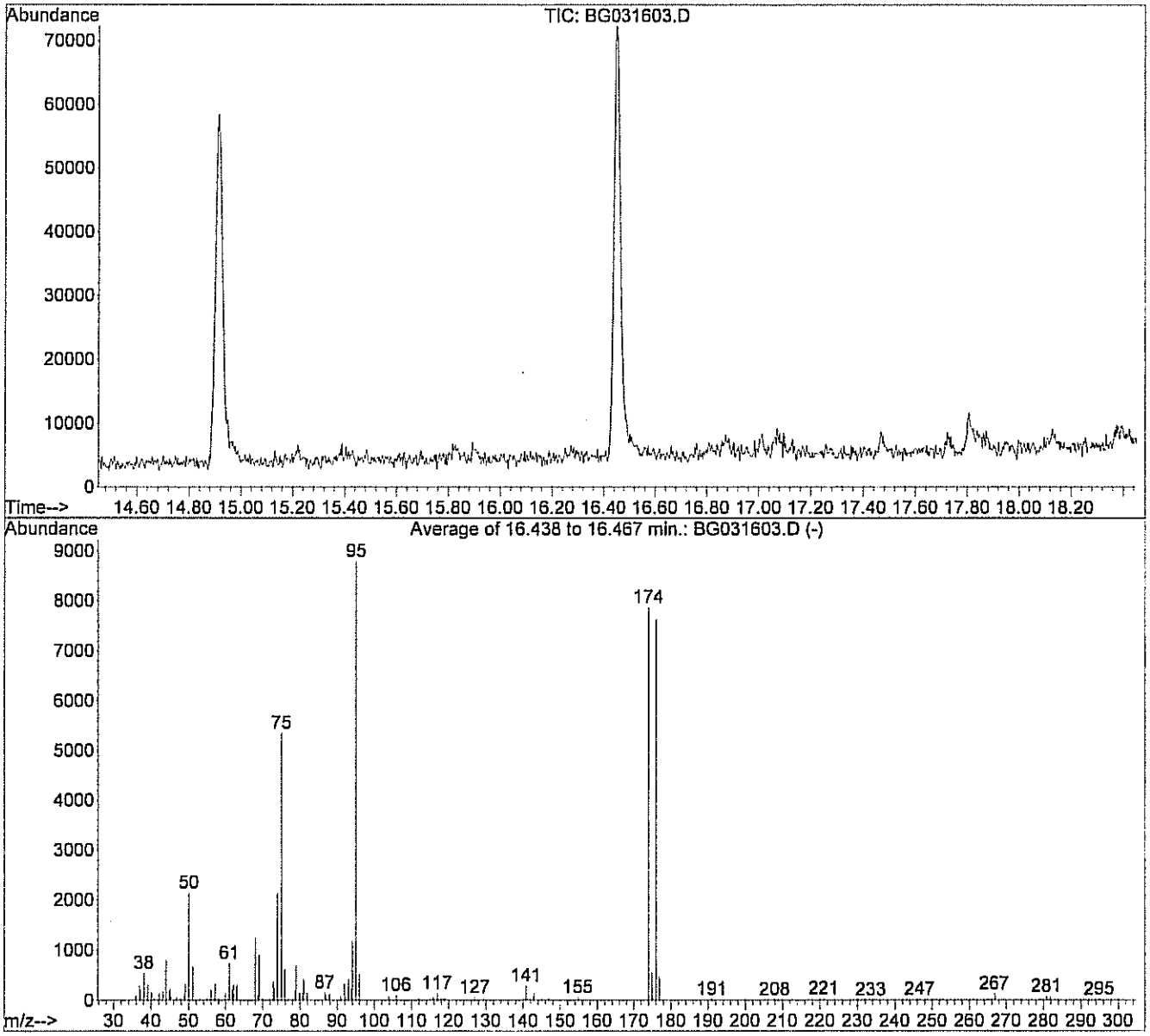
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

```
Data File : C:\MSDCHEM\1\DATA\BG031603.D                    Vial: 3
Acq On    : 16 Mar 2011  12:09 pm                       Operator: LL
Sample    : BFB1UG                                      Inst    : MSD #2
Misc      : 1ugm3 & 0.25TCE,CT,VNCL                     Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title     : TO-15 VOA  Standards for 5 point calibration
```



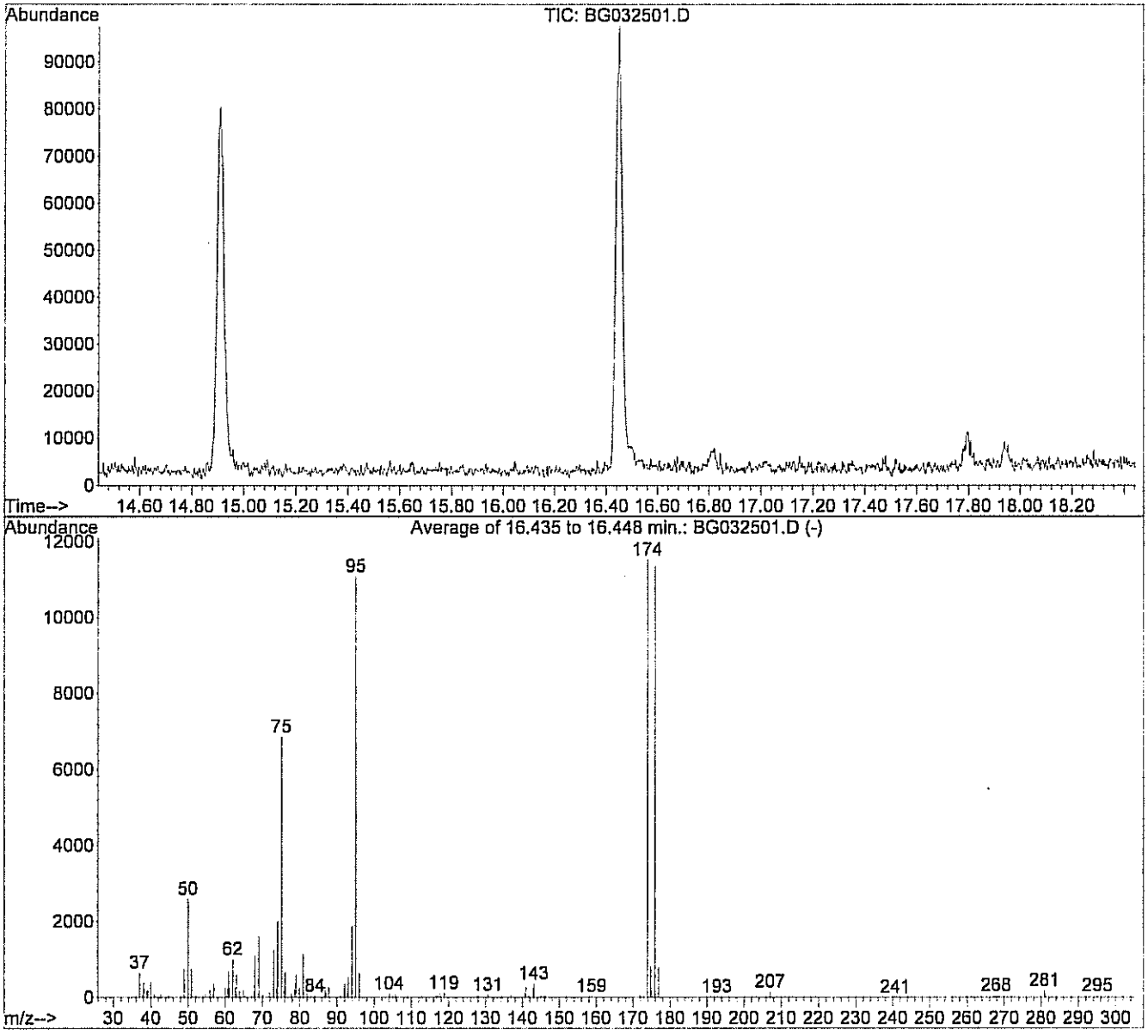
Spectrum Information: Average of 16.438 to 16.467 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	24.4	2148	PASS
75	95	30	66	60.9	5355	PASS
95	95	100	100	100.0	8799	PASS
96	95	5	9	5.9	522	PASS
173	174	0.00	2	0.1	6	PASS
174	95	50	120	89.4	7870	PASS
175	174	4	9	7.2	563	PASS
176	174	95	101	97.1	7645	PASS
177	176	5	9	6.3	479	PASS

BG031603.D B316_1UG.M Mon Apr 25 10:01:16 2011

BFB

Data File : C:\MSDCHEM\1\DATA\BG032501.D Vial: 1
Acq On : 25 Mar 2011 1:14 pm Operator: LL
Sample : BFB1UG Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.435 to 16.448 min.

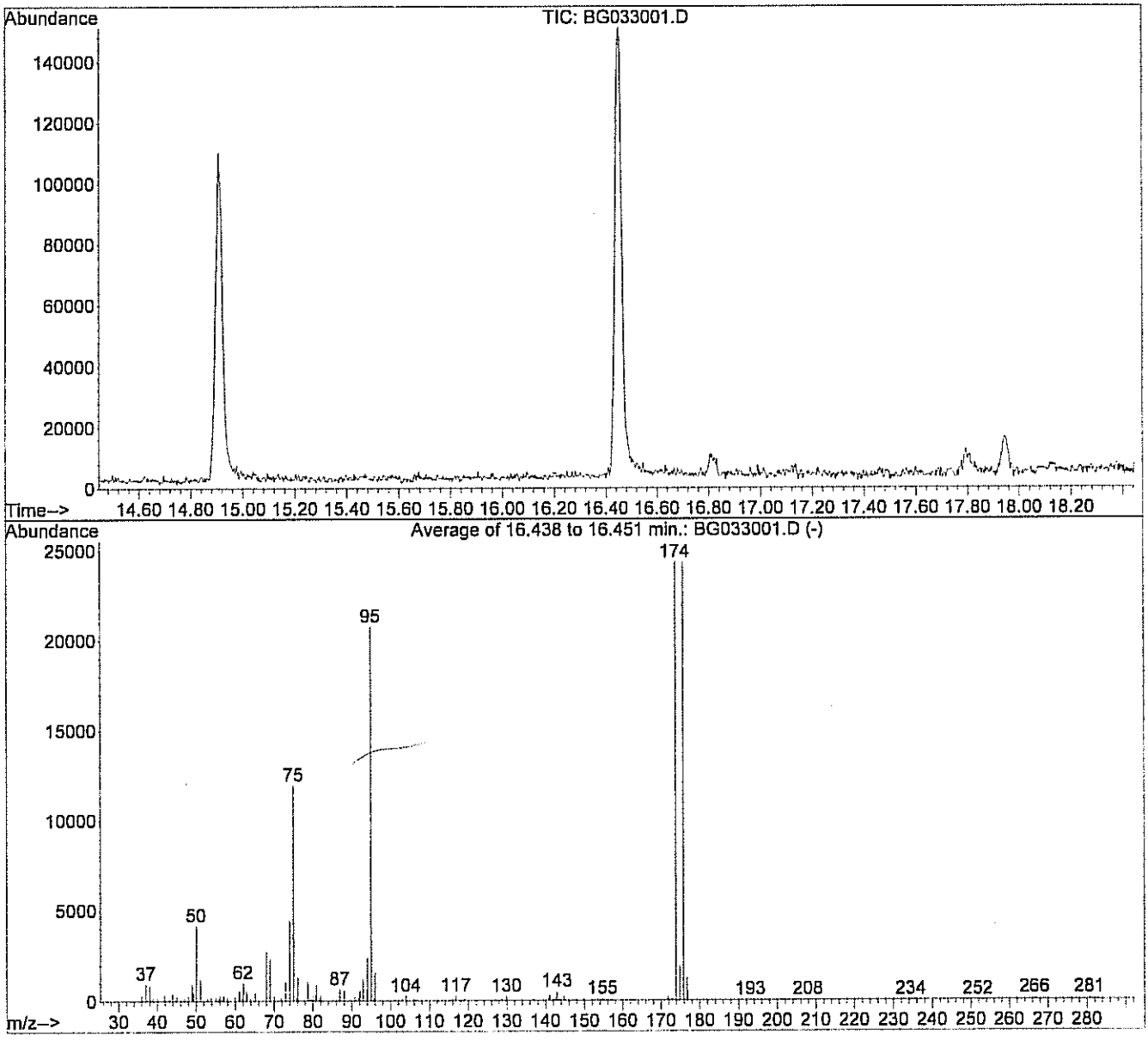
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	23.4	2598	PASS
75	95	30	66	61.9	6855	PASS
95	95	100	100	100.0	11082	PASS
96	95	5	9	5.7	630	PASS
173	174	0.00	2	0.1	12	PASS
174	95	50	120	103.9	11519	PASS
175	174	4	9	7.0	802	PASS
176	174	95	101	98.9	11392	PASS
177	176	5	9	7.0	798	PASS

BG032501.D B316_1UG.M Mon Apr 25 10:02:42 2011

BFB

Data File : C:\MSDCHEM\1\DATA\BG033001.D
Acq On : 30 Mar 2011 10:54 am
Sample : BFB1UG
Misc : 1ugm3 & 0.25TCE,CT,VNCL
MS Integration Params: RTEINT.P
Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: LL
Inst : MSD #2
Multiplr: 1.00



Spectrum Information: Average of 16.438 to 16.451 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.0	4158	PASS
75	95	30	66	57.6	11968	PASS
95	95	100	100	100.0	20772	PASS
96	95	5	9	7.4	1546	PASS
173	174	0.00	2	0.4	92	PASS
174	95	50	120	117.2	24353	PASS
175	174	4	9	7.7	1879	PASS
176	174	95	101	99.8	24304	PASS
177	176	5	9	5.1	1241	PASS

BG033001.D B316_1UG.M Mon Apr 25 10:13:53 2011

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **BMB1UG-033011** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4391**
Client ID: **ZZZZZ** Batch ID: **R4391** TestNo: **TO-15** Analysis Date: **3/30/2011** SeqNo: **52825**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BMB1UG-033011	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4391
Client ID:	ZZZZZ	Batch ID:	R4391	TestNo:	TO-15			Analysis Date:	3/30/2011	SeqNo:	52825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BMB1UG-033011	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/30/2011	SeqNo: 52825

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID BMB1UG-032511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BMB1UG-032511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BMB1UG-032511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52856

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032505.D Vial: 5
Acq On : 25 Mar 2011 5:06 pm Operator: LL
Sample : BMB1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 17:27:18 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

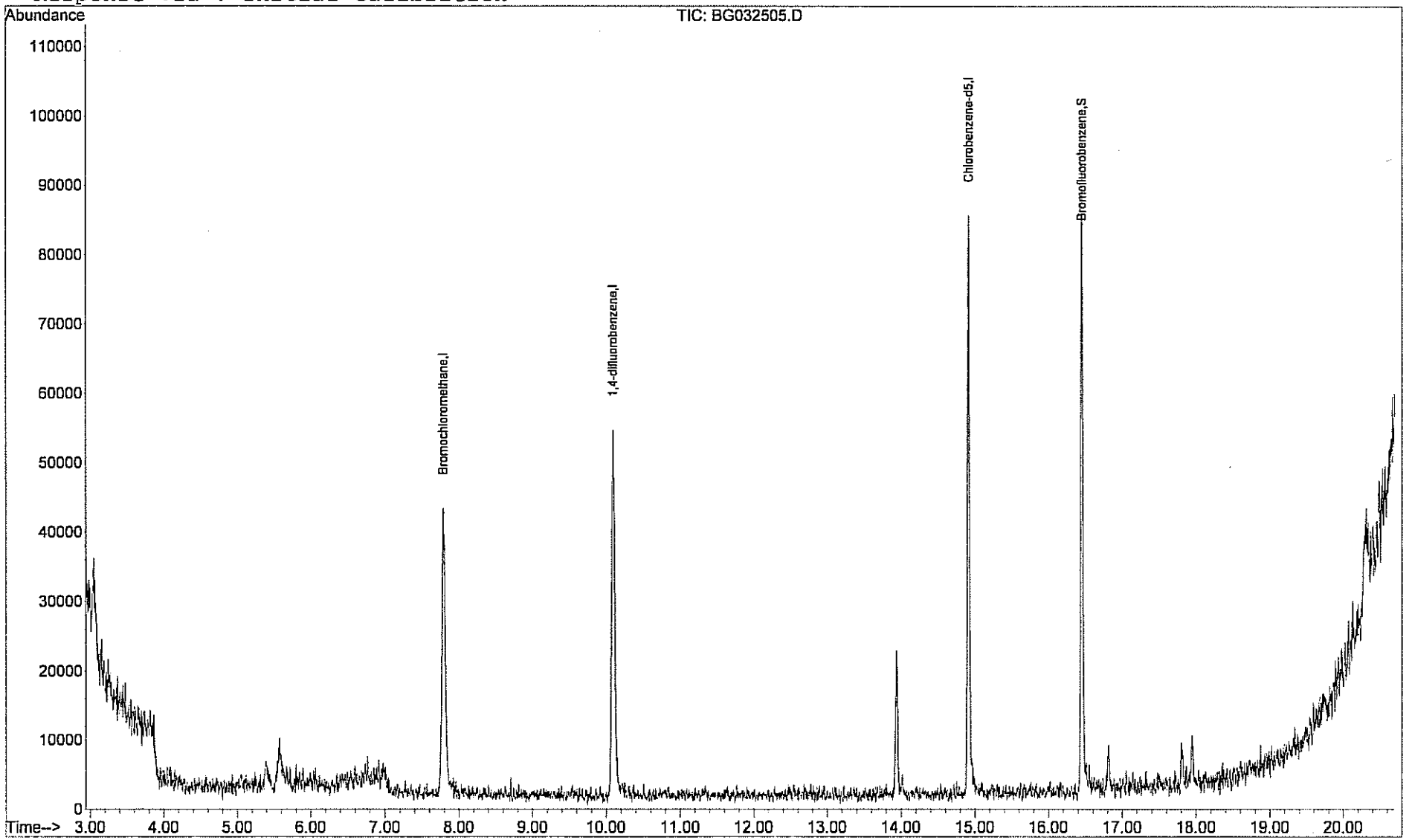
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.79	128	15767	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.10	114	52667	1.00	ppb	0.00
44) Chlorobenzene-d5	14.91	117	43667	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	25623	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032505.D Vial: 5
Acq On : 25 Mar 2011 5:06 pm Operator: LL
Sample : BMB1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL Blank Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 13:11 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033005.D Vial: 5
Acq On : 30 Mar 2011 1:23 pm Operator: LL
Sample : BMB1UG-033011 Inst : MSD #2
Misc : lugm3 & 0.25TCE,CT,VNCL Blank Multip1r: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:40:18 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.81	128	21638	1.00	ppb	0.02
30) 1,4-difluorobenzene	10.10	114	55834	1.00	ppb	0.02
44) Chlorobenzene-d5	14.91	117	57120	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	32782	0.71	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 71.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

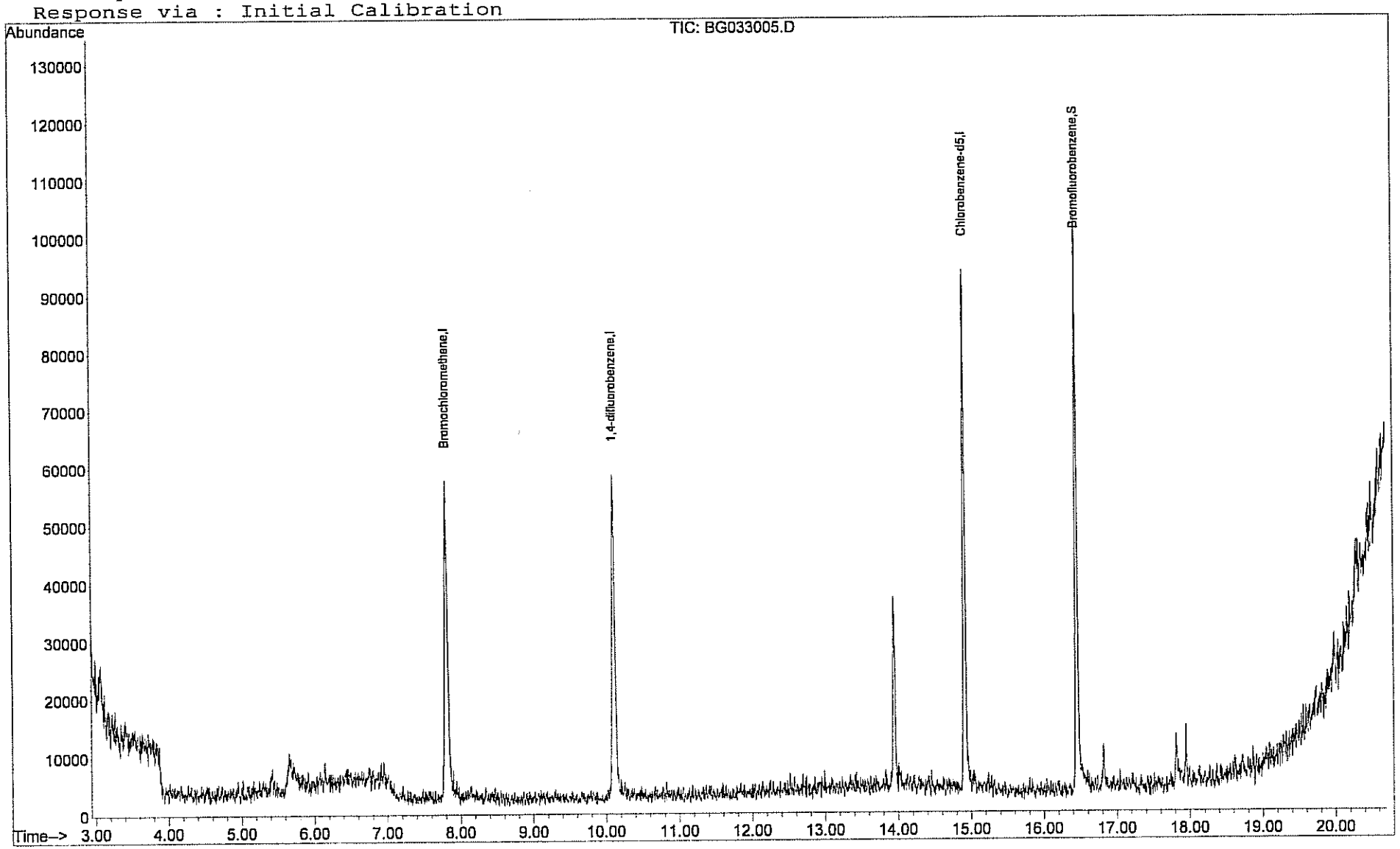
Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033005.D
Acq On : 30 Mar 2011 1:23 pm
Sample : BMB1UG-033011
Misc : 1ugm3 & 0.25TCE,CT,VNCL Blank
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:41 2011

Vial: 5
Operator: LL
Inst : MSD #2
Multiplr: 1.00

Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

Date: *25-Apr-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCS1UG-033011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/30/2011	SeqNo: 52826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8500	0.15	1	0	85.0	70	130				
1,1,2,2-Tetrachloroethane	0.9600	0.15	1	0	96.0	70	130				
1,1,2-Trichloroethane	0.8400	0.15	1	0	84.0	70	130				
1,1-Dichloroethane	0.7500	0.15	1	0	75.0	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,2,4-Trimethylbenzene	0.7000	0.15	1	0	70.0	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,2-Dichloroethane	0.7300	0.15	1	0	73.0	70	130				
1,2-Dichloropropane	0.7300	0.15	1	0	73.0	70	130				
1,3,5-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,3-butadiene	0.7200	0.15	1	0	72.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	0.7700	0.30	1	0	77.0	70	130				
2,2,4-trimethylpentane	0.7100	0.15	1	0	71.0	70	130				
4-ethyltoluene	0.7900	0.15	1	0	79.0	70	130				
Acetone	0.7100	0.30	1	0	71.0	70	130				
Allyl chloride	0.7200	0.15	1	0	72.0	70	130				
Benzene	0.8700	0.15	1	0	87.0	70	130				
Benzyl chloride	0.7300	0.15	1	0	73.0	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	1.170	0.15	1	0	117	70	130				
Bromomethane	0.9800	0.15	1	0	98.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCS1UG-033011 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4391
Client ID: ZZZZZ Batch ID: R4391 TestNo: TO-15 Analysis Date: 3/30/2011 SeqNo: 52826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130				
Carbon tetrachloride	0.8700	0.15	1	0	87.0	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8800	0.15	1	0	88.0	70	130				
Chloroform	0.8700	0.15	1	0	87.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7200	0.15	1	0	72.0	70	130				
cis-1,3-Dichloropropene	0.7100	0.15	1	0	71.0	70	130				
Cyclohexane	0.7000	0.15	1	0	70.0	70	130				
Dibromochloromethane	1.000	0.15	1	0	100	70	130				
Ethyl acetate	0.7300	0.25	1	0	73.0	70	130				
Ethylbenzene	0.7400	0.15	1	0	74.0	70	130				
Freon 11	0.8500	0.15	1	0	85.0	70	130				
Freon 113	0.9000	0.15	1	0	90.0	70	130				
Freon 114	1.030	0.15	1	0	103	70	130				
Freon 12	1.020	0.15	1	0	102	70	130				
Heptane	0.7000	0.15	1	0	70.0	70	130				
Hexachloro-1,3-butadiene	1.400	0.15	1	0	140	70	130				S
Hexane	0.7000	0.15	1	0	70.0	70	130				
Isopropyl alcohol	0.7100	0.15	1	0	71.0	70	130				
m&p-Xylene	1.520	0.30	2	0	76.0	70	130				
Methyl Butyl Ketone	0.7000	0.30	1	0	70.0	70	130				
Methyl Ethyl Ketone	0.7500	0.30	1	0	75.0	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				
Methyl tert-butyl ether	0.7500	0.15	1	0	75.0	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	0.7600	0.15	1	0	76.0	70	130				
Styrene	0.7300	0.15	1	0	73.0	70	130				
Tetrachloroethylene	1.060	0.15	1	0	106	70	130				
Tetrahydrofuran	0.7200	0.15	1	0	72.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCS1UG-033011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/30/2011	SeqNo: 52826

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.7900	0.15	1	0	79.0	70	130				
trans-1,2-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.9300	0.15	1	0	93.0	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	0.8400	0.15	1	0	84.0	70	130				
Vinyl chloride	0.8300	0.15	1	0	83.0	70	130				

Sample ID BLCS1UG-032511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/25/2011	SeqNo: 52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.8800	0.15	1	0	88.0	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	0.8300	0.15	1	0	83.0	70	130				
1,1-Dichloroethane	0.9100	0.15	1	0	91.0	70	130				
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
1,2,4-Trichlorobenzene	0.7800	0.15	1	0	78.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.100	0.15	1	0	110	70	130				
1,2-Dichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloropropane	0.8000	0.15	1	0	80.0	70	130				
1,3,5-Trimethylbenzene	0.9300	0.15	1	0	93.0	70	130				
1,3-butadiene	0.8300	0.15	1	0	83.0	70	130				
1,3-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.7100	0.30	1	0	71.0	70	130				
2,2,4-trimethylpentane	0.7400	0.15	1	0	74.0	70	130				
4-ethyltoluene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCS1UG-032511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9400	0.30	1	0	94.0	70	130				
Allyl chloride	0.7600	0.15	1	0	76.0	70	130				
Benzene	0.9100	0.15	1	0	91.0	70	130				
Benzyl chloride	0.8000	0.15	1	0	80.0	70	130				
Bromodichloromethane	0.9300	0.15	1	0	93.0	70	130				
Bromoform	1.160	0.15	1	0	116	70	130				
Bromomethane	1.130	0.15	1	0	113	70	130				
Carbon disulfide	1.030	0.15	1	0	103	70	130				
Carbon tetrachloride	0.9000	0.15	1	0	90.0	70	130				
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130				
Chloroethane	1.100	0.15	1	0	110	70	130				
Chloroform	1.020	0.15	1	0	102	70	130				
Chloromethane	1.080	0.15	1	0	108	70	130				
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
cis-1,3-Dichloropropene	0.7100	0.15	1	0	71.0	70	130				
Cyclohexane	0.7400	0.15	1	0	74.0	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.8200	0.25	1	0	82.0	70	130				
Ethylbenzene	0.7900	0.15	1	0	79.0	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	1.050	0.15	1	0	105	70	130				
Freon 114	1.250	0.15	1	0	125	70	130				
Freon 12	1.300	0.15	1	0	130	70	130				
Heptane	0.7300	0.15	1	0	73.0	70	130				
Hexachloro-1,3-butadiene	1.300	0.15	1	0	130	70	130				
Hexane	0.8000	0.15	1	0	80.0	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.780	0.30	2	0	89.0	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCS1UG-032511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/25/2011	SeqNo:	52857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8000	0.15	1	0	80.0	70	130				
Methylene chloride	1.010	0.15	1	0	101	70	130				
o-Xylene	0.9100	0.15	1	0	91.0	70	130				
Propylene	1.060	0.15	1	0	106	70	130				
Styrene	0.8900	0.15	1	0	89.0	70	130				
Tetrachloroethylene	1.090	0.15	1	0	109	70	130				
Tetrahydrofuran	0.7400	0.15	1	0	74.0	70	130				
Toluene	0.8000	0.15	1	0	80.0	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	0.7300	0.15	1	0	73.0	70	130				
Trichloroethene	0.8800	0.15	1	0	88.0	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.000	0.15	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032504.D Vial: 4
Acq On : 25 Mar 2011 3:30 pm Operator: LL
Sample : BLCS1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 12:09:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	14661	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	53798	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	43283	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	27868	0.80	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	24392	1.06	ppb		94
3) Freon 12	3.08	85	164672m	1.30	ppb		
4) Chloromethane	3.23	50	35964	1.08	ppb		97
5) Freon 114	3.24	85	120005	1.25	ppb		80
6) Vinyl Chloride	3.37	62	24240	1.00	ppb		94
7) 1,3-butadiene	3.46	39	17873	0.83	ppb		85
8) Bromomethane	3.70	94	27452	1.13	ppb		96
9) Chloroethane	3.81	64	11152	1.10	ppb		97
10) Vinyl Bromide	4.07	106	23472	1.01	ppb		94
11) Freon 11	4.27	101	127033	1.06	ppb		96
12) Acetone	4.90	58	5105m	0.94	ppb		
13) Isopropyl alcohol	4.98	45	18645m	0.81	ppb		
14) 1,1-dichloroethene	4.87	96	19708	0.95	ppb	#	83
15) Freon 113	5.05	101	60359	1.05	ppb	#	78
16) Methylene chloride	5.28	84	17598	1.01	ppb		90
17) Allyl chloride	5.27	41	19780	0.76	ppb		92
18) Carbon disulfide	5.40	76	59909	1.03	ppb		98
19) trans-1,2-dichloroethene	6.11	61	31218	0.89	ppb		99
20) methyl tert-butyl ether	6.34	73	40506m	0.80	ppb		
21) 1,1-dichloroethane	6.51	63	38321	0.91	ppb		95
22) Vinyl acetate	6.63	43	26325m	0.75	ppb		
23) Methyl Ethyl Ketone	7.49	72	3520m	0.74	ppb		
24) cis-1,2-dichloroethene	7.36	61	24609	0.85	ppb		84
25) Hexane	6.99	57	21252	0.80	ppb	#	75
26) Ethyl acetate	7.89	43	19273m	0.82	ppb		
27) Chloroform	7.96	83	59567	1.02	ppb		95
28) Tetrahydrofuran	8.65	42	9226m	0.74	ppb		
29) 1,2-dichloroethane	9.03	62	38204	0.90	ppb		97
31) 1,1,1-trichloroethane	8.71	97	75770	0.88	ppb		87
32) Cyclohexane	9.41	56	20927	0.74	ppb	#	36
33) Carbon tetrachloride	9.34	117	93887	0.90	ppb		95
34) Benzene	9.32	78	50909	0.91	ppb		97
35) 1,4-dioxane	12.07	88	4253m	0.71	ppb		
36) 2,2,4-trimethylpentane	10.25	57	64192m	0.74	ppb		
37) Heptane	10.67	43	24979m	0.73	ppb		
38) Trichloroethene	10.78	130	31078	0.88	ppb		90
39) 1,2-dichloropropane	10.91	63	16171	0.80	ppb		98
40) Bromodichloromethane	11.29	83	60524	0.93	ppb		96
41) cis-1,3-dichloropropene	12.18	75	23526m	0.71	ppb		
42) trans-1,3-dichloropropene	12.98	75	22994m	0.73	ppb		
43) 1,1,2-trichloroethane	13.28	97	20309	0.83	ppb		71
45) Toluene	13.00	92	28546	0.80	ppb		85
46) Methyl Isobutyl Ketone	12.29	43	21938m	0.72	ppb		
47) Dibromochloromethane	13.94	129	55403	1.01	ppb		96
48) Methyl Butyl Ketone	13.71	43	18337m	0.71	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032504.D Vial: 4
Acq On : 25 Mar 2011 3:30 pm Operator: LL
Sample : BLCS1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 12:09:00 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

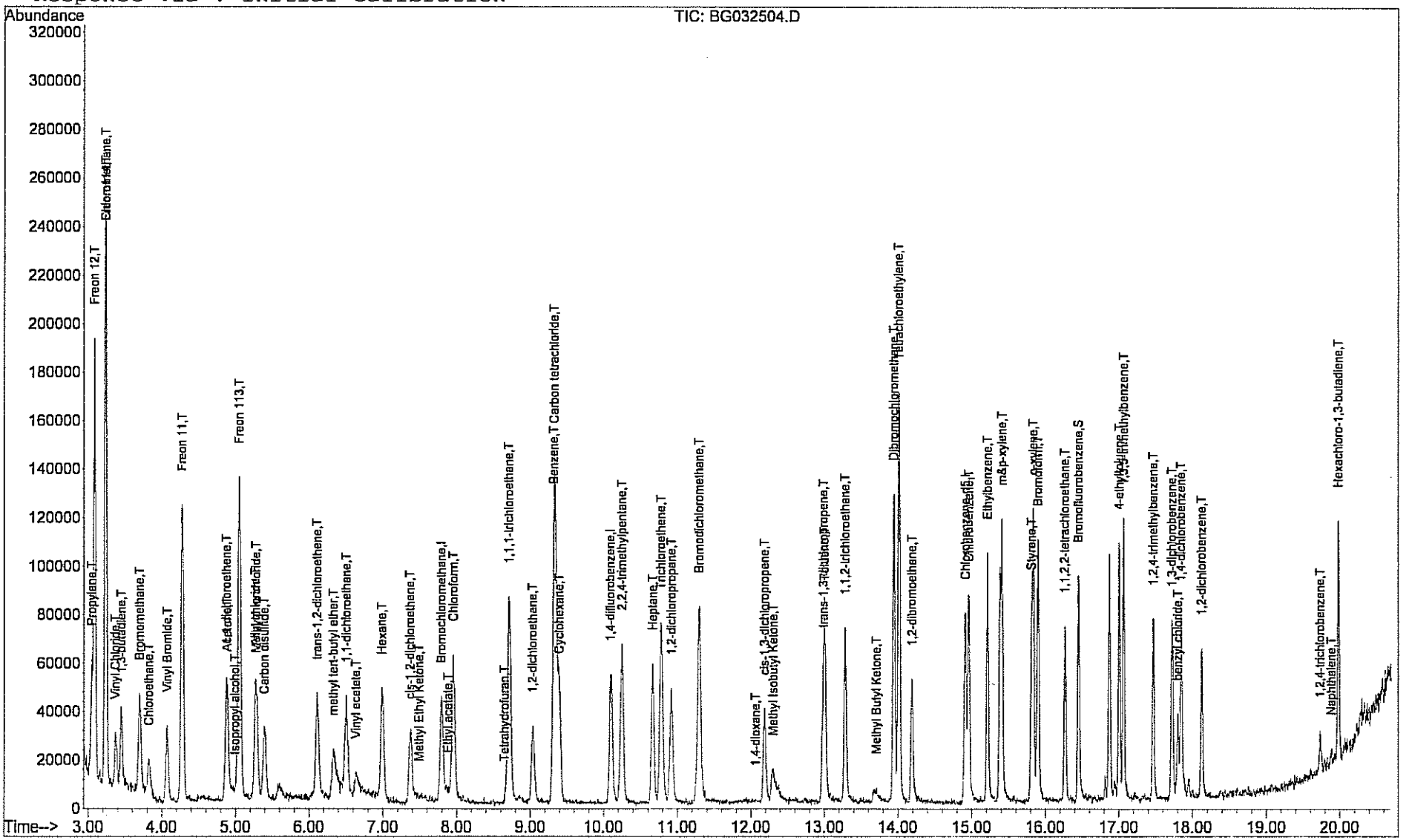
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	31880	0.88	ppb	90
50)	Tetrachloroethylene	14.01	164	39106	1.09	ppb	94
51)	Chlorobenzene	14.96	112	44463	0.93	ppb	92
52)	Ethylbenzene	15.21	91	63248	0.79	ppb	87
53)	m&p-xylene	15.41	91	117863	1.78	ppb	87
54)	Styrene	15.80	104	32670	0.89	ppb	85
55)	Bromoform	15.90	173	48666 T.L.	1.16	ppb	89
56)	o-xylene	15.83	91	61262m	0.91	ppb	
58)	1,1,2,2-tetrachloroethane	16.27	83	25004	0.95	ppb	93
59)	4-ethyltoluene	17.01	105	52630	0.85	ppb	82
60)	1,3,5-trimethylbenzene	17.06	105	59771	0.93	ppb	92
61)	1,2,4-trimethylbenzene	17.47	105	39987	0.78	ppb	95
62)	1,3-dichlorobenzene	17.72	146	30673	0.99	ppb	96
63)	benzyl chloride	17.79	91	18281	0.80	ppb	83
64)	1,4-dichlorobenzene	17.84	146	29679	1.01	ppb	91
65)	1,2-dichlorobenzene	18.12	146	25191	1.10	ppb	93
66)	1,2,4-trichlorobenzene	19.74	180	3845	0.78	ppb	88
67)	Naphthalene	19.89	128	5301	0.86	ppb	92
68)	Hexachloro-1,3-butadiene	19.98	225	16356	1.30	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032504.D Vial: 4
Acq On : 25 Mar 2011 3:30 pm Operator: LL
Sample : BLCS1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 12:13 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033004.D Vial: 4
Acq On : 30 Mar 2011 12:49 pm Operator: LL
Sample : BLCS1UG-033011 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 13:10:43 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.80	128	23298	1.00	ppb		0.01
30) 1,4-difluorobenzene	10.09	114	75113	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	62445	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	37748	0.75	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	27780	0.76	ppb		90
3) Freon 12	3.09	85	206124	1.02	ppb		97
4) Chloromethane	3.24	50	43173	0.82	ppb		97
5) Freon 114	3.24	85	156635	1.03	ppb		79
6) Vinyl Chloride	3.38	62	31904	0.83	ppb		89
7) 1,3-butadiene	3.45	39	24644m	0.72	ppb		
8) Bromomethane	3.71	94	37912	0.98	ppb		100
9) Chloroethane	3.83	64	14152	0.88	ppb		97
10) Vinyl Bromide	4.08	106	31146	0.84	ppb		95
11) Freon 11	4.27	101	161930	0.85	ppb		96
12) Acetone	4.91	58	6161m	0.71	ppb		
13) Isopropyl alcohol	4.97	45	25959m	0.71	ppb		
14) 1,1-dichloroethene	4.89	96	26043	0.79	ppb		93
15) Freon 113	5.06	101	82184	0.90	ppb	#	75
16) Methylene chloride	5.29	84	23878	0.86	ppb		93
17) Allyl chloride	5.28	41	29502m	0.72	ppb		
18) Carbon disulfide	5.40	76	76645	0.83	ppb		100
19) trans-1,2-dichloroethene	6.11	61	41728	0.75	ppb		93
20) methyl tert-butyl ether	6.32	73	59818m	0.75	ppb		
21) 1,1-dichloroethane	6.51	63	50530	0.75	ppb		95
22) Vinyl acetate	6.63	43	41686m	0.75	ppb		
23) Methyl Ethyl Ketone	7.46	72	5648m	0.75	ppb		
24) cis-1,2-dichloroethene	7.38	61	33073	0.72	ppb	#	72
25) Hexane	6.99	57	29458m	0.70	ppb		
26) Ethyl acetate	7.88	43	27440m	0.73	ppb		
27) Chloroform	7.96	83	81011	0.87	ppb		99
28) Tetrahydrofuran	8.66	42	14358m	0.72	ppb		
29) 1,2-dichloroethane	9.04	62	49397	0.73	ppb		95
31) 1,1,1-trichloroethane	8.71	97	102687	0.85	ppb		89
32) Cyclohexane	9.40	56	27437m	0.70	ppb		
33) Carbon tetrachloride	9.35	117	126636	0.87	ppb		97
34) Benzene	9.32	78	67823	0.87	ppb		95
35) 1,4-dioxane	11.81	88	6397m	0.77	ppb		
36) 2,2,4-trimethylpentane	10.25	57	86105m	0.71	ppb		
37) Heptane	10.67	43	33510m	0.70	ppb		
38) Trichloroethene	10.79	130	45800	0.93	ppb		92
39) 1,2-dichloropropane	10.92	63	20767	0.73	ppb		96
40) Bromodichloromethane	11.30	83	79391	0.88	ppb		96
41) cis-1,3-dichloropropene	12.19	75	32855	0.71	ppb		95
42) trans-1,3-dichloropropene	12.98	75	31896m	0.73	ppb		
43) 1,1,2-trichloroethane	13.28	97	28828	0.84	ppb		73
45) Toluene	13.01	92	40563	0.79	ppb		89
46) Methyl Isobutyl Ketone	12.30	43	31051m	0.70	ppb		
47) Dibromochloromethane	13.95	129	79622m	1.00	ppb		
48) Methyl Butyl Ketone	13.67	43	26261m	0.70	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033004.D Vial: 4
Acq On : 30 Mar 2011 12:49 pm Operator: LL
Sample : BLCS1UG-033011 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 13:10:43 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

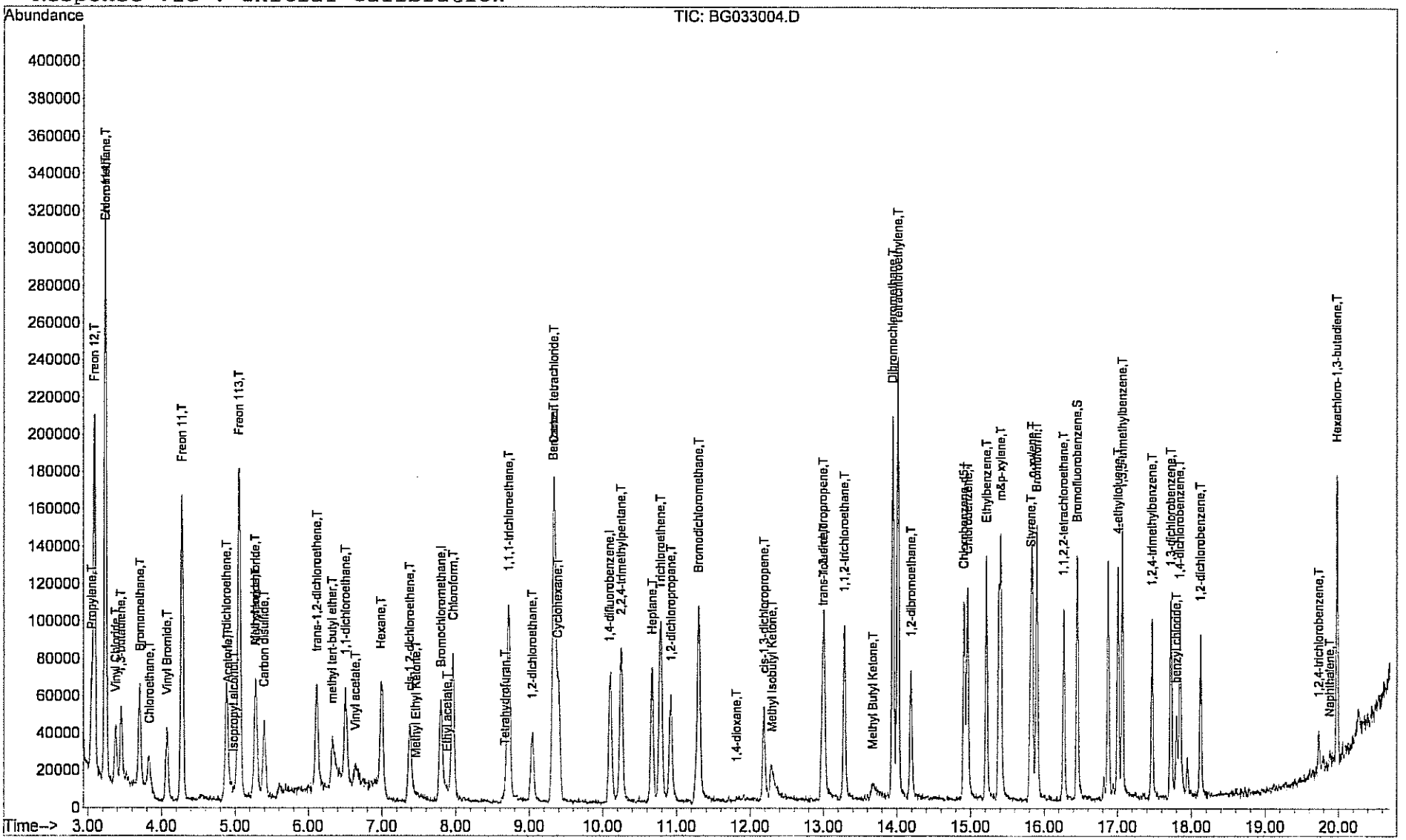
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	46251	0.88	ppb	90
50)	Tetrachloroethylene	14.01	164	54729	1.06	ppb	89
51)	Chlorobenzene	14.96	112	62380	0.90	ppb	87
52)	Ethylbenzene	15.21	91	85578	0.74	ppb	93
53)	m&p-xylene	15.40	91	144649	1.52	ppb	80
54)	Styrene	15.81	104	38909	0.73	ppb	83
55)	Bromoform	15.90	173	71337	1.17	ppb	95
56)	o-xylene	15.83	91	81488m	0.84	ppb	
58)	1,1,2,2-tetrachloroethane	16.26	83	36453	0.96	ppb	93
59)	4-ethyltoluene	17.01	105	70226	0.79	ppb	78
60)	1,3,5-trimethylbenzene	17.06	105	76179	0.82	ppb	89
61)	1,2,4-trimethylbenzene	17.47	105	52015m	0.70	ppb	
62)	1,3-dichlorobenzene	17.72	146	45040	1.01	ppb	88
63)	benzyl chloride	17.80	91	23889	0.73	ppb	91
64)	1,4-dichlorobenzene	17.84	146	42604	1.00	ppb	87
65)	1,2-dichlorobenzene	18.12	146	34247	1.04	ppb	91
66)	1,2,4-trichlorobenzene	19.73	180	5701	0.80	ppb	90
67)	Naphthalene	19.88	128	6297	0.71	ppb	96
68)	Hexachloro-1,3-butadiene	19.98	225	25345	1.40	ppb	84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033004.D Vial: 4
Acq On : 30 Mar 2011 12:49 pm Operator: LL
Sample : BLCS1UG-033011 Inst : MSD #2
Misc : lugm3 & 0.25TCE,CT,VNCL LCS Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 30 14:39 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *25-Apr-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **BLCSD1UG-033011** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4391**
Client ID: **ZZZZZ** Batch ID: **R4391** TestNo: **TO-15** Analysis Date: **3/31/2011** SeqNo: **52827**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.100	0.15	1	0	110	70	130	0.85	25.6	30	
1,1,2,2-Tetrachloroethane	1.050	0.15	1	0	105	70	130	0.96	8.96	30	
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130	0.84	38.5	30	R
1,1-Dichloroethane	0.7700	0.15	1	0	77.0	70	130	0.75	2.63	30	
1,1-Dichloroethene	0.7200	0.15	1	0	72.0	70	130	0.79	9.27	30	
1,2,4-Trichlorobenzene	0.9600	0.15	1	0	96.0	70	130	0.8	18.2	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.7	4.20	30	
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	0.88	11.8	30	
1,2-Dichlorobenzene	1.160	0.15	1	0	116	70	130	1.04	10.9	30	
1,2-Dichloroethane	0.6400	0.15	1	0	64.0	70	130	0.73	13.1	30	S
1,2-Dichloropropane	0.9100	0.15	1	0	91.0	70	130	0.73	22.0	30	
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130	0.82	9.30	30	
1,3-butadiene	0.5800	0.15	1	0	58.0	70	130	0.72	21.5	30	S
1,3-Dichlorobenzene	1.060	0.15	1	0	106	70	130	1.01	4.83	30	
1,4-Dichlorobenzene	1.120	0.15	1	0	112	70	130	1	11.3	30	
1,4-Dioxane	0.7000	0.30	1	0	70.0	70	130	0.77	9.52	30	
2,2,4-trimethylpentane	0.7600	0.15	1	0	76.0	70	130	0.71	6.80	30	
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.79	1.26	30	
Acetone	1.050	0.30	1	0	105	70	130	0.71	38.6	30	R
Allyl chloride	0.5300	0.15	1	0	53.0	70	130	0.72	30.4	30	SR
Benzene	1.050	0.15	1	0	105	70	130	0.87	18.8	30	
Benzyl chloride	0.9000	0.15	1	0	90.0	70	130	0.73	20.9	30	
Bromodichloromethane	1.170	0.15	1	0	117	70	130	0.88	28.3	30	
Bromoform	1.320	0.15	1	0	132	70	130	1.17	12.0	30	S
Bromomethane	0.9400	0.15	1	0	94.0	70	130	0.98	4.17	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-033011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/31/2011	SeqNo: 52827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8000	0.15	1	0	80.0	70	130	0.83	3.68	30	
Carbon tetrachloride	1.160	0.15	1	0	116	70	130	0.87	28.6	30	
Chlorobenzene	1.010	0.15	1	0	101	70	130	0.9	11.5	30	
Chloroethane	0.8500	0.15	1	0	85.0	70	130	0.88	3.47	30	
Chloroform	0.7900	0.15	1	0	79.0	70	130	0.87	9.64	30	
Chloromethane	0.8300	0.15	1	0	83.0	70	130	0.82	1.21	30	
cis-1,2-Dichloroethene	0.7000	0.15	1	0	70.0	70	130	0.72	2.82	30	
cis-1,3-Dichloropropene	0.8200	0.15	1	0	82.0	70	130	0.71	14.4	30	
Cyclohexane	0.7900	0.15	1	0	79.0	70	130	0.7	12.1	30	
Dibromochloromethane	1.100	0.15	1	0	110	70	130	1	9.52	30	
Ethyl acetate	0.4900	0.25	1	0	49.0	70	130	0.73	39.3	30	SR
Ethylbenzene	0.7200	0.15	1	0	72.0	70	130	0.74	2.74	30	
Freon 11	0.8200	0.15	1	0	82.0	70	130	0.85	3.59	30	
Freon 113	0.8500	0.15	1	0	85.0	70	130	0.9	5.71	30	
Freon 114	0.9400	0.15	1	0	94.0	70	130	1.03	9.14	30	
Freon 12	1.030	0.15	1	0	103	70	130	1.02	0.976	30	
Heptane	0.7000	0.15	1	0	70.0	70	130	0.7	0	30	
Hexachloro-1,3-butadiene	1.490	0.15	1	0	149	70	130	1.4	6.23	30	S
Hexane	0.6200	0.15	1	0	62.0	70	130	0.7	12.1	30	S
Isopropyl alcohol	0.7200	0.15	1	0	72.0	70	130	0.71	1.40	30	
m&p-Xylene	1.630	0.30	2	0	81.5	70	130	1.52	6.98	30	
Methyl Butyl Ketone	0.4300	0.30	1	0	43.0	70	130	0.7	47.8	30	SR
Methyl Ethyl Ketone	0.3000	0.30	1	0	30.0	70	130	0.75	85.7	30	SR
Methyl Isobutyl Ketone	0.6300	0.30	1	0	63.0	70	130	0.7	10.5	30	S
Methyl tert-butyl ether	0.5100	0.15	1	0	51.0	70	130	0.75	38.1	30	SR
Methylene chloride	0.8700	0.15	1	0	87.0	70	130	0.86	1.16	30	
o-Xylene	0.9000	0.15	1	0	90.0	70	130	0.84	6.90	30	
Propylene	0.7000	0.15	1	0	70.0	70	130	0.76	8.22	30	
Styrene	0.7700	0.15	1	0	77.0	70	130	0.73	5.33	30	
Tetrachloroethylene	1.140	0.15	1	0	114	70	130	1.06	7.27	30	
Tetrahydrofuran	0.5500	0.15	1	0	55.0	70	130	0.72	26.8	30	S

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-033011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4391
Client ID: ZZZZZ	Batch ID: R4391	TestNo: TO-15		Analysis Date: 3/31/2011	SeqNo: 52827

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8400	0.15	1	0	84.0	70	130	0.79	6.13	30	
trans-1,2-Dichloroethene	0.7300	0.15	1	0	73.0	70	130	0.75	2.70	30	
trans-1,3-Dichloropropene	0.8000	0.15	1	0	80.0	70	130	0.73	9.15	30	
Trichloroethene	1.270	0.15	1	0	127	70	130	0.93	30.9	30	R
Vinyl acetate	0.5100	0.15	1	0	51.0	70	130	0.75	38.1	30	SR
Vinyl Bromide	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
Vinyl chloride	0.7500	0.15	1	0	75.0	70	130	0.83	10.1	30	

Sample ID BLCSD1UG-032511	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/26/2011	SeqNo: 52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9400	0.15	1	0	94.0	70	130	0.88	6.59	30	
1,1,2,2-Tetrachloroethane	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	30	
1,1,2-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.83	15.6	30	
1,1-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.91	11.6	30	
1,1-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.95	2.13	30	
1,2,4-Trichlorobenzene	0.7100	0.15	1	0	71.0	70	130	0.78	9.40	30	
1,2,4-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.78	6.62	30	
1,2-Dibromoethane	1.000	0.15	1	0	100	70	130	0.88	12.8	30	
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130	1.1	28.0	30	
1,2-Dichloroethane	0.8100	0.15	1	0	81.0	70	130	0.9	10.5	30	
1,2-Dichloropropane	0.8600	0.15	1	0	86.0	70	130	0.8	7.23	30	
1,3,5-Trimethylbenzene	0.8000	0.15	1	0	80.0	70	130	0.93	15.0	30	
1,3-butadiene	0.7100	0.15	1	0	71.0	70	130	0.83	15.6	30	
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	0.99	10.6	30	
1,4-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130	1.01	14.9	30	
1,4-Dioxane	0.4600	0.30	1	0	46.0	70	130	0.71	42.7	30	SR
2,2,4-trimethylpentane	0.7400	0.15	1	0	74.0	70	130	0.74	0	30	
4-ethyltoluene	0.8000	0.15	1	0	80.0	70	130	0.85	6.06	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	BLCSD1UG-032511	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4394
Client ID:	ZZZZZ	Batch ID:	R4394	TestNo:	TO-15			Analysis Date:	3/26/2011	SeqNo:	52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.230	0.30	1	0	123	70	130	0.94	26.7	30	
Allyl chloride	0.7100	0.15	1	0	71.0	70	130	0.76	6.80	30	
Benzene	0.9300	0.15	1	0	93.0	70	130	0.91	2.17	30	
Benzyl chloride	0.7100	0.15	1	0	71.0	70	130	0.8	11.9	30	
Bromodichloromethane	0.9700	0.15	1	0	97.0	70	130	0.93	4.21	30	
Bromoform	1.160	0.15	1	0	116	70	130	1.16	0	30	
Bromomethane	1.040	0.15	1	0	104	70	130	1.13	8.29	30	
Carbon disulfide	0.8500	0.15	1	0	85.0	70	130	1.03	19.1	30	
Carbon tetrachloride	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130	0.93	3.17	30	
Chloroethane	0.8700	0.15	1	0	87.0	70	130	1.1	23.4	30	
Chloroform	0.8900	0.15	1	0	89.0	70	130	1.02	13.6	30	
Chloromethane	0.9400	0.15	1	0	94.0	70	130	1.08	13.9	30	
cis-1,2-Dichloroethene	0.8400	0.15	1	0	84.0	70	130	0.85	1.18	30	
cis-1,3-Dichloropropene	0.7900	0.15	1	0	79.0	70	130	0.71	10.7	30	
Cyclohexane	0.8200	0.15	1	0	82.0	70	130	0.74	10.3	30	
Dibromochloromethane	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
Ethyl acetate	0.7200	0.25	1	0	72.0	70	130	0.82	13.0	30	
Ethylbenzene	0.7700	0.15	1	0	77.0	70	130	0.79	2.56	30	
Freon 11	0.9600	0.15	1	0	96.0	70	130	1.06	9.90	30	
Freon 113	0.9600	0.15	1	0	96.0	70	130	1.05	8.96	30	
Freon 114	1.110	0.15	1	0	111	70	130	1.25	11.9	30	
Freon 12	1.140	0.15	1	0	114	70	130	1.3	13.1	30	
Heptane	0.7600	0.15	1	0	76.0	70	130	0.73	4.03	30	
Hexachloro-1,3-butadiene	0.9500	0.15	1	0	95.0	70	130	1.3	31.1	30	R
Hexane	0.7600	0.15	1	0	76.0	70	130	0.8	5.13	30	
Isopropyl alcohol	0.7600	0.15	1	0	76.0	70	130	0.81	6.37	30	
m&p-Xylene	1.670	0.30	2	0	83.5	70	130	1.78	6.38	30	
Methyl Butyl Ketone	0.3100	0.30	1	0	31.0	70	130	0.71	78.4	30	SR
Methyl Ethyl Ketone	1.050	0.30	1	0	105	70	130	0.74	34.6	30	R
Methyl Isobutyl Ketone	0.4700	0.30	1	0	47.0	70	130	0.72	42.0	30	SR

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1103055
Project: B785 SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID BLCSD1UG-032511	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4394
Client ID: ZZZZZ	Batch ID: R4394	TestNo: TO-15		Analysis Date: 3/26/2011	SeqNo: 52858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8100	0.15	1	0	81.0	70	130	0.8	1.24	30	
Methylene chloride	0.8900	0.15	1	0	89.0	70	130	1.01	12.6	30	
o-Xylene	0.8800	0.15	1	0	88.0	70	130	0.91	3.35	30	
Propylene	0.8500	0.15	1	0	85.0	70	130	1.06	22.0	30	
Styrene	0.7500	0.15	1	0	75.0	70	130	0.89	17.1	30	
Tetrachloroethylene	1.050	0.15	1	0	105	70	130	1.09	3.74	30	
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130	0.74	9.03	30	
Toluene	0.8500	0.15	1	0	85.0	70	130	0.8	6.06	30	
trans-1,2-Dichloroethene	0.8300	0.15	1	0	83.0	70	130	0.89	6.98	30	
trans-1,3-Dichloropropene	0.7900	0.15	1	0	79.0	70	130	0.73	7.89	30	
Trichloroethene	0.9600	0.15	1	0	96.0	70	130	0.88	8.70	30	
Vinyl acetate	0.7400	0.15	1	0	74.0	70	130	0.75	1.34	30	
Vinyl Bromide	0.9400	0.15	1	0	94.0	70	130	1.01	7.18	30	
Vinyl chloride	0.8900	0.15	1	0	89.0	70	130	1	11.6	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032526.D Vial: 13
Acq On : 26 Mar 2011 4:37 am Operator: LL
Sample : BLCSD1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 26 04:58:32 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	17238	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.09	114	52641	1.00	ppb		0.00
44) Chlorobenzene-d5	14.90	117	48913	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	34013	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
2) Propylene	3.06	41	23012	0.85	ppb		86
3) Freon 12	3.08	85	169655	1.14	ppb		94
4) Chloromethane	3.23	50	36944	0.94	ppb		95
5) Freon 114	3.23	85	125641	1.11	ppb		82
6) Vinyl Chloride	3.37	62	25344	0.89	ppb		91
7) 1,3-butadiene	3.44	39	18048	0.71	ppb		99
8) Bromomethane	3.70	94	29883	1.04	ppb		100
9) Chloroethane	3.82	64	10396	0.87	ppb		85
10) Vinyl Bromide	4.06	106	25648	0.94	ppb		97
11) Freon 11	4.26	101	135392	0.96	ppb		96
12) Acetone	4.72	58	7867	1.23	ppb		98
13) Isopropyl alcohol	4.80	45	20771m	0.76	ppb		
14) 1,1-dichloroethene	4.87	96	22656	0.93	ppb		95
15) Freon 113	5.04	101	64593	0.96	ppb	#	77
16) Methylene chloride	5.27	84	18215	0.89	ppb		88
17) Allyl chloride	5.26	41	21558m	0.71	ppb		
18) Carbon disulfide	5.39	76	57617	0.85	ppb		97
19) trans-1,2-dichloroethene	6.10	61	34290	0.83	ppb		97
20) methyl tert-butyl ether	6.27	73	47774	0.81	ppb		95
21) 1,1-dichloroethane	6.50	63	40328	0.81	ppb		96
22) Vinyl acetate	6.59	43	30653m	0.74	ppb		
23) Methyl Ethyl Ketone	7.34	72	5875m	1.05	ppb		
24) cis-1,2-dichloroethene	7.36	61	28734	0.84	ppb		82
25) Hexane	6.98	57	23697	0.76	ppb	#	74
26) Ethyl acetate	7.81	43	20026m	0.72	ppb		
27) Chloroform	7.95	83	60783	0.89	ppb		98
28) Tetrahydrofuran	8.57	42	11907m	0.81	ppb		
29) 1,2-dichloroethane	9.02	62	40394	0.81	ppb		97
31) 1,1,1-trichloroethane	8.71	97	79697	0.94	ppb		85
32) Cyclohexane	9.40	56	22583	0.82	ppb	#	47
33) Carbon tetrachloride	9.33	117	100311	0.98	ppb		97
34) Benzene	9.31	78	50779	0.93	ppb		99
35) 1,4-dioxane	11.97	88	2652m	0.46	ppb		
36) 2,2,4-trimethylpentane	10.24	57	62674	0.74	ppb		82
37) Heptane	10.66	43	25373	0.76	ppb		98
38) Trichloroethene	10.78	130	33380	0.96	ppb		97
39) 1,2-dichloropropane	10.91	63	16965	0.86	ppb		76
40) Bromodichloromethane	11.28	83	61881	0.97	ppb		92
41) cis-1,3-dichloropropene	12.18	75	25637	0.79	ppb		92
42) trans-1,3-dichloropropene	12.97	75	24484	0.79	ppb		92
43) 1,1,2-trichloroethane	13.28	97	23364	0.97	ppb		75
45) Toluene	12.99	92	34176	0.85	ppb		91
46) Methyl Isobutyl Ketone	12.27	43	16181m	0.47	ppb		
47) Dibromochloromethane	13.94	129	63553	1.02	ppb		98
48) Methyl Butyl Ketone	13.69	43	9023m	0.31	ppb		

(#) = qualifier out of range (m) = manual integration
BG032526.D B316_1UG.M Mon Apr 25 11:49:59 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032526.D Vial: 13
Acq On : 26 Mar 2011 4:37 am Operator: LL
Sample : BLCSD1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 26 04:58:32 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

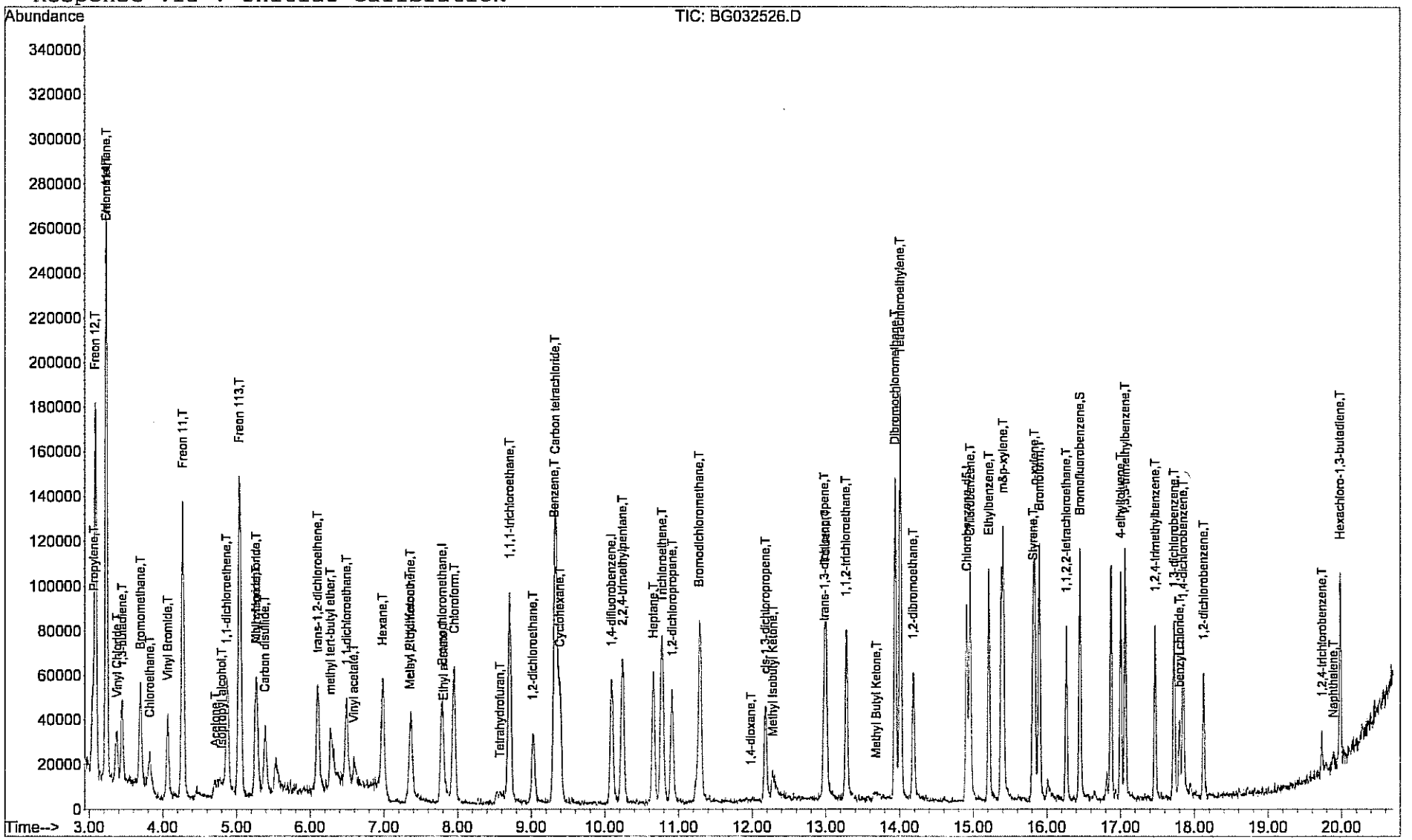
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	1,2-dibromoethane	14.19	107	40835	1.00	ppb	95
50)	Tetrachloroethylene	14.01	164	42635	1.05	ppb	97
51)	Chlorobenzene	14.96	112	52094	0.96	ppb	90
52)	Ethylbenzene	15.21	91	69725	0.77	ppb	94
53)	m&p-xylene	15.40	91	124482	1.67	ppb	83
54)	Styrene	15.80	104	31302	0.75	ppb	74
55)	Bromoform	15.89	173	54992	1.16	ppb	93
56)	o-xylene	15.83	91	67035	0.88	ppb	99
58)	1,1,2,2-tetrachloroethane	16.26	83	26388	0.89	ppb	89
59)	4-ethyltoluene	17.00	105	55670	0.80	ppb	82
60)	1,3,5-trimethylbenzene	17.06	105	58332	0.80	ppb	91
61)	1,2,4-trimethylbenzene	17.46	105	42275	0.73	ppb	98
62)	1,3-dichlorobenzene	17.72	146	31163	0.89	ppb	91
63)	benzyl chloride	17.80	91	18304	0.71	ppb	88
64)	1,4-dichlorobenzene	17.85	146	29056	0.87	ppb	90
65)	1,2-dichlorobenzene	18.12	146	21590	0.83	ppb	92
66)	1,2,4-trichlorobenzene	19.73	180	3988m	0.71	ppb	
67)	Naphthalene	19.89	128	3773	0.54	ppb	86
68)	Hexachloro-1,3-butadiene	19.98	225	13456	0.95	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG032526.D Vial: 13
Acq On : 26 Mar 2011 4:37 am Operator: LL
Sample : BLCSD1UG-032511 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 28 13:15 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033030.D Vial: 45
Acq On : 31 Mar 2011 4:36 am Operator: LL
Sample : BLCSD1UG-033011 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:49:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.79	128	21293	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.10	114	49442	1.00	ppb		0.00
44) Chlorobenzene-d5	14.91	117	53098	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.45	95	30974	0.73	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%				
Target Compounds							Qvalue
2) Propylene	3.05	41	23399m	0.70	ppb		
3) Freon 12	3.08	85	189646	1.03	ppb		98
4) Chloromethane	3.23	50	40164	0.83	ppb		96
5) Freon 114	3.23	85	130311	0.94	ppb		78
6) Vinyl Chloride	3.37	62	26216	0.75	ppb		99
7) 1,3-butadiene	3.45	39	18203	0.58	ppb		97
8) Bromomethane	3.69	94	33388	0.94	ppb		94
9) Chloroethane	3.82	64	12570	0.85	ppb		94
10) Vinyl Bromide	4.06	106	25219	0.75	ppb		92
11) Freon 11	4.27	101	142986	0.82	ppb		98
12) Acetone	4.75	58	8301m	1.05	ppb		
13) Isopropyl alcohol	4.81	45	24073m	0.72	ppb		
14) 1,1-dichloroethene	4.88	96	21520	0.72	ppb		93
15) Freon 113	5.04	101	70880	0.85	ppb	#	77
16) Methylene chloride	5.28	84	22044	0.87	ppb		94
17) Allyl chloride	5.25	41	19766	0.53	ppb		95
18) Carbon disulfide	5.39	76	67708	0.80	ppb		98
19) trans-1,2-dichloroethene	6.10	61	36934	0.73	ppb		98
20) methyl tert-butyl ether	6.31	73	37597	0.51	ppb	#	65
21) 1,1-dichloroethane	6.49	63	47170	0.77	ppb		96
22) Vinyl acetate	6.61	43	26106	0.51	ppb		89
23) Methyl Ethyl Ketone	7.37	72	2105m	0.30	ppb		
24) cis-1,2-dichloroethene	7.36	61	29687m	0.70	ppb		
25) Hexane	6.98	57	24120	0.62	ppb	#	75
26) Ethyl acetate	7.88	43	16819m	0.49	ppb		
27) Chloroform	7.95	83	67117	0.79	ppb		89
28) Tetrahydrofuran	8.62	42	9926m	0.55	ppb		
29) 1,2-dichloroethane	9.02	62	39325	0.64	ppb		95
31) 1,1,1-trichloroethane	8.71	97	87444	1.10	ppb		84
32) Cyclohexane	9.39	56	20510	0.79	ppb	#	30
33) Carbon tetrachloride	9.34	117	111664	1.16	ppb		94
34) Benzene	9.32	78	53971	1.05	ppb		95
35) 1,4-dioxane	11.79	88	3827m	0.70	ppb		
36) 2,2,4-trimethylpentane	10.24	57	59973	0.76	ppb		78
37) Heptane	10.67	43	22142	0.70	ppb		91
38) Trichloroethene	10.78	130	41401	1.27	ppb		92
39) 1,2-dichloropropane	10.91	63	16957	0.91	ppb		83
40) Bromodichloromethane	11.29	83	69490	1.17	ppb		98
41) cis-1,3-dichloropropene	12.18	75	25171	0.82	ppb		86
42) trans-1,3-dichloropropene	12.98	75	23128	0.80	ppb		80
43) 1,1,2-trichloroethane	13.28	97	27948	1.24	ppb		84
45) Toluene	12.99	92	36633	0.84	ppb		90
46) Methyl Isobutyl Ketone	12.28	43	23552m	0.63	ppb		
47) Dibromochloromethane	13.94	129	74463	1.10	ppb		97
48) Methyl Butyl Ketone	13.62	43	13580m	0.43	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033030.D Vial: 45
Acq On : 31 Mar 2011 4:36 am Operator: LL
Sample : BLCSD1UG-033011 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:49:49 2011 Quant Results File: B316_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration
DataAcq Meth : B316_1UG

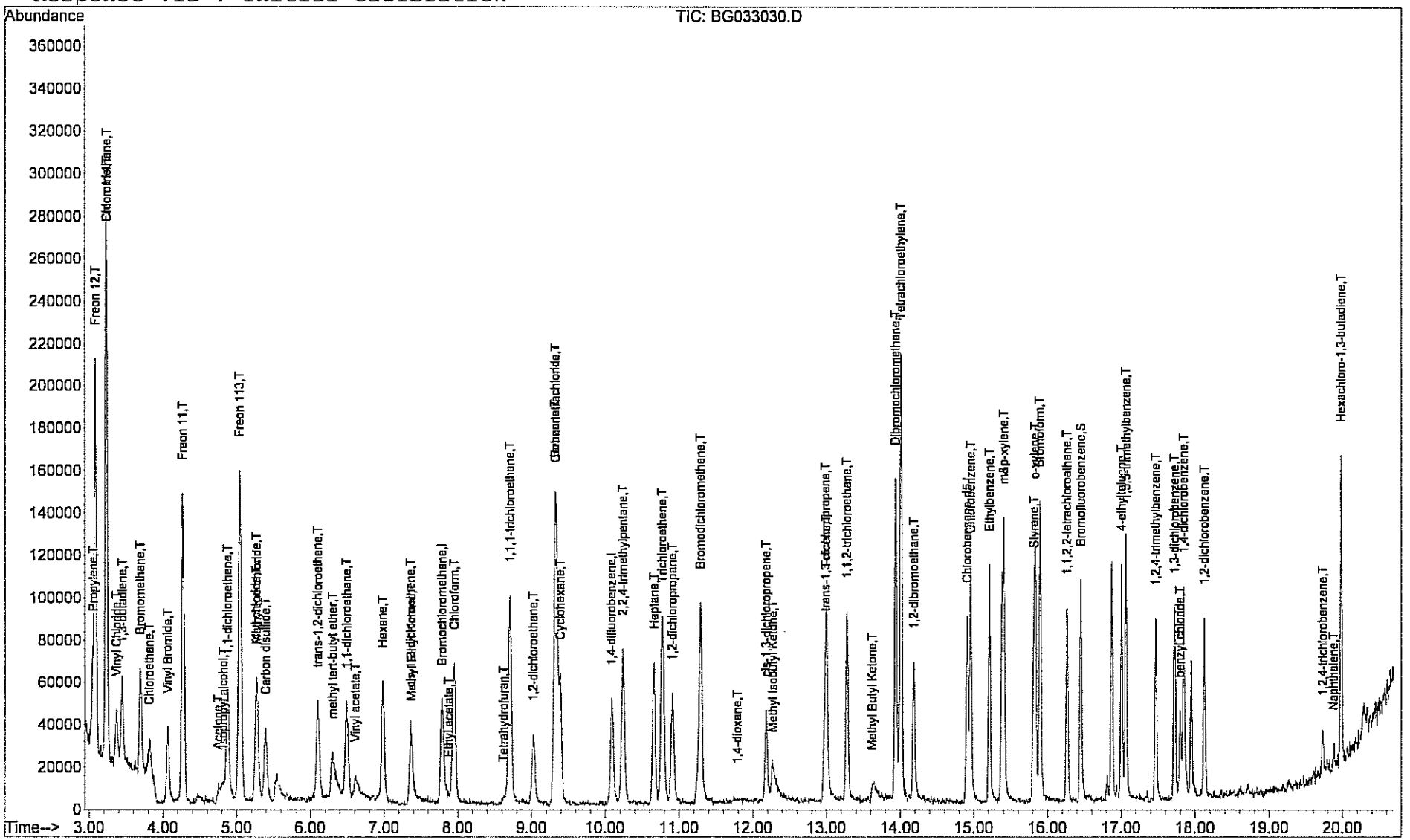
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
49)	1,2-dibromoethane	14.19	107	43837	0.99	ppb		92
50)	Tetrachloroethylene	14.01	164	49828	1.14	ppb		86
51)	Chlorobenzene	14.96	112	59049	1.01	ppb		90
52)	Ethylbenzene	15.21	91	70479	0.72	ppb		83
53)	m&p-xylene	15.41	91	132316	1.63	ppb		84
54)	Styrene	15.81	104	35044	0.77	ppb		86
55)	Bromoform	15.89	173	68095 f.b.	1.32	ppb		94
56)	o-xylene	15.83	91	74326m	0.90	ppb		
58)	1,1,2,2-tetrachloroethane	16.26	83	33701	1.05	ppb		93
59)	4-ethyltoluene	17.00	105	60889m	0.80	ppb		
60)	1,3,5-trimethylbenzene	17.06	105	70814m	0.90	ppb		
61)	1,2,4-trimethylbenzene	17.47	105	46104	0.73	ppb		93
62)	1,3-dichlorobenzene	17.72	146	40188	1.06	ppb		93
63)	benzyl chloride	17.80	91	25154	0.90	ppb		87
64)	1,4-dichlorobenzene	17.84	146	40467	1.12	ppb		94
65)	1,2-dichlorobenzene	18.12	146	32484	1.16	ppb		89
66)	1,2,4-trichlorobenzene	19.73	180	5837	0.96	ppb		96
67)	Naphthalene	19.88	128	6350	0.84	ppb	#	76
68)	Hexachloro-1,3-butadiene	19.98	225	23083	1.49	ppb		83

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA\BG033030.D Vial: 45
Acq On : 31 Mar 2011 4:36 am Operator: LL
Sample : BLCSD1UG-033011 Inst : MSD #2
Misc : 1ugm3 & 0.25TCE,CT,VNCL LCS DUP Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 31 11:53 2011 Quant Results File: B316_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B316_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Mar 21 17:12:27 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5975 MSD
GC Column: J&W DB-5MS, 1.0u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8372
Standard Stock #(s) 8371
LCS Stock #(s) 8369
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
ug/m3	BFBIUG	BG031603	—	—	B316-1UG		03/16/11	1209		
	BIUG-1.0	15	—	200						
	BIUG-2.0	16	—	400						
	BIUG-1.50	17	—	300						
	BIUG-1.25	18	—	250						
	BIUG-0.75	19	—	150						
	BIUG-0.50	20	—	100						
	BIUG-0.30	21	—	60			03/16/11	2331		
	BIUG-0.15	22	—	30						
	BIUG-0.10	23	—	20						
	BIUG-0.04	24	—	8			03/17/11	0110		
	BLCSIUG-031611	28	—	200						
	BMBIUG-031611	30	—	—						
	WAC031611C	33	—	200						
	WAC031611D	34	—							
	C1103037-001	38	—							
	-002	39	—							
	-003	40	—							
	-004	41	—				03/17/11	1106		

Page No: 122

Analyzed by: I.L.

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5975 MSD
GC Column: J&W DB-5MS, 1.0u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8390
Standard Stock #(s) 8387
LCS Stock #(s) 8385
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
1 ug/m3	BFBIUG	BG032501	—	—	B316_1UG		03/25/11	1314		
	BIUG_1.0	03	—	200						
	BLCS1UG-032511	04	—	↓						
	BMBIUG-032511	05	—	—						
	C1103042-001	06	—	200						
	-001 10X	07	10	20						
	-001 40X	08	40	5						
	-002	09	—	200						
	-002 10X	10	10	20						
	-002 40X	11	40	5						
	-003	12	—	200						
	-003 10X	13	10	20						
	-003 40X	14	40	5						
	C1103052-004	15	—	200						
	-003	16	—							
	-001	17	—				03/25/11	2338		
	-002	18	—	↓			03/26/11	0011		
	-002 20X	19	20	10						
	C1103055-005	21	—	200						
	-001	22	—							
	-002	23	—							
	-003	24	—							
	-004	25	—							
	BLCSDIUG-032511	26	—							
	C1103056-001	27	—							
	-002	28	—							
	-003	29	—							
↓	-004	30	—	↓	↓		03/26/11	0655		

Analyzed by: L.L.

Page No: 132

Page 248 of 289

Centek Laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5975 MSD
GC Column: J&W DB-5MS, 1.0u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8390
Standard Stock #(s) 8387
LCS Stock #(s) 8385
Method Reference: Toxic Organic Componds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
1ug/m3	C1103056-004 20X	BG032531	20	10	B316-1UG		03/26/11	0728		
	C1103058-001	32	-	200						
	-002	33	-							
	-003	34	-							
	-004	35	-							
	-005	36	-							
	-006	37	-							
	-007	38	-							
	-008	39	-							
	-009	40	-							
	-010	41	-							
	-011	42	-				03/26/11	1345		

Analyzed by: L.L.

Page No: 133

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5975 MSD
GC Column: J&W DB-5MS, 1.0u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8402
Standard Stock #(s) 8403
LCS Stock #(s) 8400
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
1ug/m3	BFBIUG	BG033001	-	-	B316-1UG		03/30/11	1054		
↓	BIUG-1.0	03	-	200	↓		↓	↓		
	BLCSIUG-033011	04	-	↓						
	BMBIUG-033011	05	-	-						
	C1103048-002 10X	06	10	20						
	C1103052-004 5X	07	5	40						
	-003 5X	08	5	40						
	↓ -001 5X	09	5	40						
	C1103055-001 5X	10	5	40						
	↓ -002 10X	11	10	20						
	C1103052-001 40X	12	40	5						
	C1103055-002 80X	13	80	5 (2)*						
	-002 40X	14	40	10 (2)*						
	-003 16X	15	16	100 (8)*						
	-003 40X	16	40	40 (8)*						
	-003 320X	17	320	5 (8)*						
	-004 10X	18	10	20						
	↓ -004 40X	19	40	5						
	C1103056-001 10X	20	10	20						
	-002 10X	21	10	20			03/30/11	2335		
	↓ -003 10X	22	10	20			03/31/11	0009		
	C1103058-002 5X	23	5	40						
	-003 80X	24	80	5 (2)*						
	-005 160X	25	160	5 (4)*						
	-006 10X	26	10	20						
	-007 10X	27	10	20						
	-008 5X	28	5	40						
↓	↓ -011 320X	29	320	5 (2)*	↓		03/31/11	0402		

Analyzed by: L.L.

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5975 MSD
GC Column: J&W DB-5MS, 1.0u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8402
Standard Stock #(s) 8403
LCS Stock #(s) 8400
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
1 ug/m3	BLCSD1UG-033011	BE033030	--	200	B316-1UG		03/31/11	0436		
↓	C1103079-001	33	-	↓	↓		03/31/11	0616		

Analyzed by: L.L.

Page No: 138

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS (B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS (B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓	
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS (B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS (B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	%VARIES	10L	MATHESON TRI-GAS		M	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS (A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621	↓	↓	↓ STD (A)	7617/7384/7418	↓	↓	↓	↓	↓	
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS (A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624	↓	↓	↓ STD (A)	7621	↓	↓	↓	↓	↓	
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓	
7626	↓	↓	↓ IS (B)	7620	↓	↓	↓	↓	↓	

RECERT. ON 3/11 EXP 3/12

Page 253 of 289

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8314	2/14/11	2/21/11	TO15UG LCS	8307	50ppb	0.5psig	45psia	1ppb	MM	
8315	↓	↓	IS B	8305	↓	↓	↓	↓	↓	
8316	↓	↓	STD B	8306	↓	↓	↓	↓	MO	
8317	2/14/11	2/14/12	TO15 IS	AG 100371	1 ppm	LINDE GAS			LL	
8318	2/15/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	LL	
8319	2/16/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	LL	
8320	2/17/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	MM	
8321	2/21/11	2/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	↓	
8322	↓	↓	STD	7617/18	↓	↓	↓	↓		
8323			LCS	7783A+B						
8324			4PCH	7394						
8325			FORM	7068	36.5%	1.1UG	50psia	10ppm		
8326			FORM STD	8309/25	10ppm	0.23psig	45psia	50ppb		
8327			SULFUR	6194	1 ppm	1.5psig	30psia	50ppb		
8328			TO15UG IS A	8321	50ppb	0.5psig	45psia	1ppb		
8329			STD B	8322						
8330			LCS	8323						
8331			IS A	8321						
8332	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8333	3/1/11	3/7/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppm	MM	
8334	↓	↓	STD	7617/18	↓	↓	↓	↓		

Page # 2

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743AHB	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8339	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD D	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/10/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46						
8349			LCS	2/17/11 ~~8346~~	↓	↓	↓	↓		
8350			4PCH	7384	↓	↓	↓	↓		
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SUL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.5 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Page # 3

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8356	3/6/11	3/13/11	TO15/UG LCS	8345	50ppb	0.9psig	45psia	1ppb	MD	
8357	↓	↓	IS (A)	8347	↓	↓	↓	↓	↓	
8358	↓	↓	STD (A)	8348	↓	↓	↓	↓	↓	
8359	3/10/11	3/13/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8360	3/14/11	3/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8361	↓	↓	STD	8345/8346 7617/7618	↓	↓	↓	↓	↓	
8362			LCS							
8363			4PCH	7384						
8364			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8365			FORM 50	8364 7046	10ppm	0.23psig	45psia	50ppb		
8366			SILX/SWF	6194	1ppm	1.5psig	30psia	50ppb		
8367			TO15/UG IS (A)	8360	50ppb	0.9psig	45psia	1ppb		
8368			STD (A)	8361	↓	↓	↓	↓	↓	
8369	↓	↓	LCS	8362	↓	↓	↓	↓	↓	
8370	3/15/11	3/21/11	TO15/UG IS (B)	8360	50ppb	0.9psig	45psia	1ppb	I.L.	
8371	↓	↓	STD (B)	8361	↓	↓	↓	↓	↓	
8372	3/16/11	3/21/11	IS (B)	8360	50ppb	0.9psig	45psia	1ppb	I.L.	
8373	3/17/11	3/21/11	TO15/UG IS (B)	8360	50ppb	0.9psig	45psia	1ppb	I.L.	
8374	3/18/11	3/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8375	↓	↓	TO15/UG IS (B)	8374	50ppb	0.9psig	45psia	1ppb	↓	
8376	3/21/11	3/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	

Page # 4

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8377	3/21/11	3/28/11	TO15 STD	8345/8346	1ppm	1.5psig	30psia	50ppb	L.L.	
8378	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	
8379			4PCH	7384	↓	↓	↓			
8380			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8381			FORM50	8380	10ppm	0.23psig	45psia	50ppb		
8382			SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb		
8383			TO15IUGIS(A)	8376	50ppb	0.9psig	45psia	1ppb		
8384			STD(A)	8377						
8385			LCS	8378						
8386			IS(B)	8376						
8387	↓	↓	STD(B)	8377	↓	↓	↓	↓	↓	
8388	3/24/11	3/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8389	3/24/11	3/28/11	TO15IUGIS(B)	8388	50ppb	0.9psig	45psia	1ppb	L.L	
8390	3/25/11	3/28/11	TO15IUGIS(B)	8388	50ppb	0.9psig	45psia	1ppb	L.L.	
8391	3/28/11	4/4/11	TO15IS	8317	1ppm	1.5psig	30psia	50ppb		
8392	↓	↓	STD	9345/8346						
8393			LCS	7617/7618						
8394			4PCH	7384	↓	↓	↓			
8395			FORM	7068	36.5%	1.1.1	50psig	10ppm		
8396			FORM50	8395	10ppm	0.23psig	45psia	50ppb		
8397	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	↓	

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8398	3/28/11	4/4/11	TO15 1UG IS (A)	8391	50ppb	0.9psig	45psia	1ppb	L.L.	
8399	↓	↓	STD (A)	8392	↓	↓	↓	↓	↓	
8400	↓	↓	LCS	8393	↓	↓	↓	↓	↓	
8401	3/30/11	4/4/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8402	↓	↓	TO15 1UG IS (B)	8401	50ppb	0.9psig	45psia	1ppb	↓	
8403	↓	↓	↓ STD (B)	8392	↓	↓	↓	↓		
8404	3/31/11	4/4/11	TO15 1UG IS (B)	8401	50ppb	0.9psig	45psia	1ppb	L.L	
8405	3/30/11	4/6/11	TO15 APH STD	8961	1ppm	1.5psig	30psia	50ppb	M	
8406	↓	↓	1UG STD	8405	50ppb	0.5psig	45psia	1ppb		
8407	3/19/11	3/26/11	STD	8961	1ppm	1.5psig	30psia	50ppb		
8408	↓	↓	1UG STD	8407	50ppb	0.5psig	45psia	1ppb		
8409	3/27/11	4/4/11	LOD STD	8395	1ppb	3psig	30psia	0.1ppb	M	

Page # 6

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
522 6.0L	821	30	02/28/11	WAC022811A	1ug/m3+0.25	+ 30	+ 30
832					TCE, CT, VNCL	+	+
827						+	+
820						+	+
829						+	+
821	↓			↓		+	+
737	749			WAC022811B		+	+
						+	+
735						+	+
						+	+
736						+	+
749	↓			↓		+	+
745	738			WAC022811C		+	+
823						+	+
750						+	+
824						+	+
825						+	+
738	↓			↓		+	+
826	739			WAC022811D		+	+
747						+	+
828						+	+
746						+	+
744						+	+
739	↓	↓	↓	↓	↓	+ ↓	+ ↓
						+	+

Centek Laboratories, LLC QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
231	570	30	02/28/11	WAC022811E	1ug/m³ to 25	+ 30	+ 30
493					TCE, CT, VNCL	+	+
78						+	+
362						+	+
570						+	+
562	245			WAC022811F		+	+
141						+	+
564						+	+
329						+	+
245						+	+
555	462			WAC022811H		+	+
159						+	+
283						+	+
225						+	+
462						+	+
188	550			WAC022811I		+	+
358						+	+
546						+	+
354						+	+
550						+	+
171	563			WAC022811J		+	+
468						+	+
170						+	+
425						+	+
563						+	+

Cleaned by: L.L.

Page # 163

Centek laboratories, LLC

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
163	428	30	02/28/11	WAC022811K	1ug/m3 +0.25	+ 30	+ 30
240	↓	↓	↓	↓	TCE, CT, VNCL	+	+
418					↓	+	+
275						+	+
428	↓			↓		+	+
558	220			WAC022811L		+	+
479	↓			↓		+	+
494						+	+
318						+	+
220	↓	↓	↓	↓	↓	+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L. I.

Page # 164

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022709.D Vial: 8
Acq On : 28 Feb 2011 2:56 pm Operator: RJP
Sample : WAC022811A Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 15:16:52 2011 Quant Results File: A225_1UG.RES

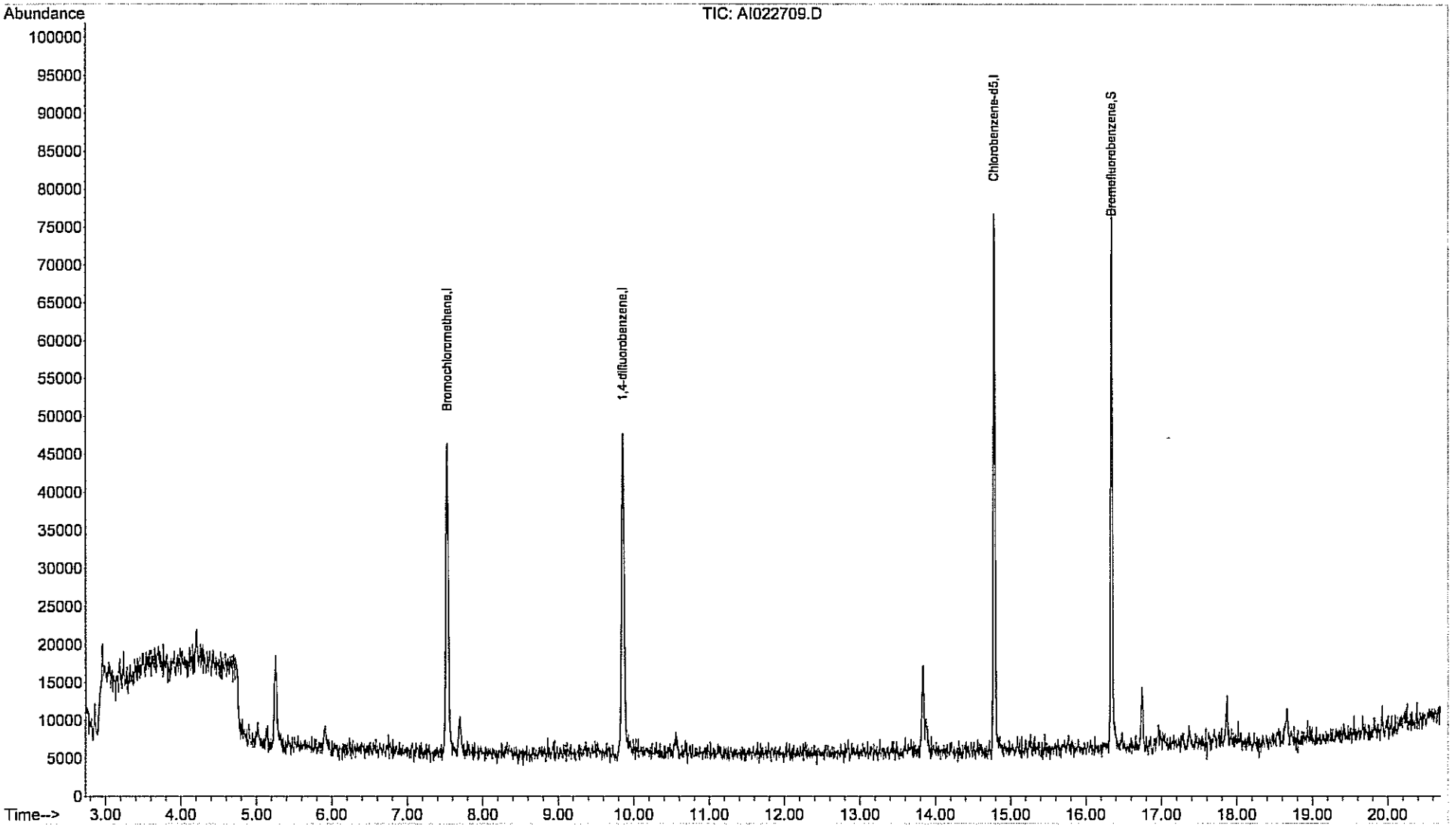
Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	15921	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	48203	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	44382	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	22105	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI022709.D A225_1UG.M Mon Apr 25 15:23:21 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI022709.D Vial: 8
Acq On : 28 Feb 2011 2:56 pm Operator: RJP
Sample : WAC022811A Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 17:14 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022710.D Vial: 9
Acq On : 28 Feb 2011 3:43 pm Operator: RJP
Sample : WAC022811B Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 16:03:57 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

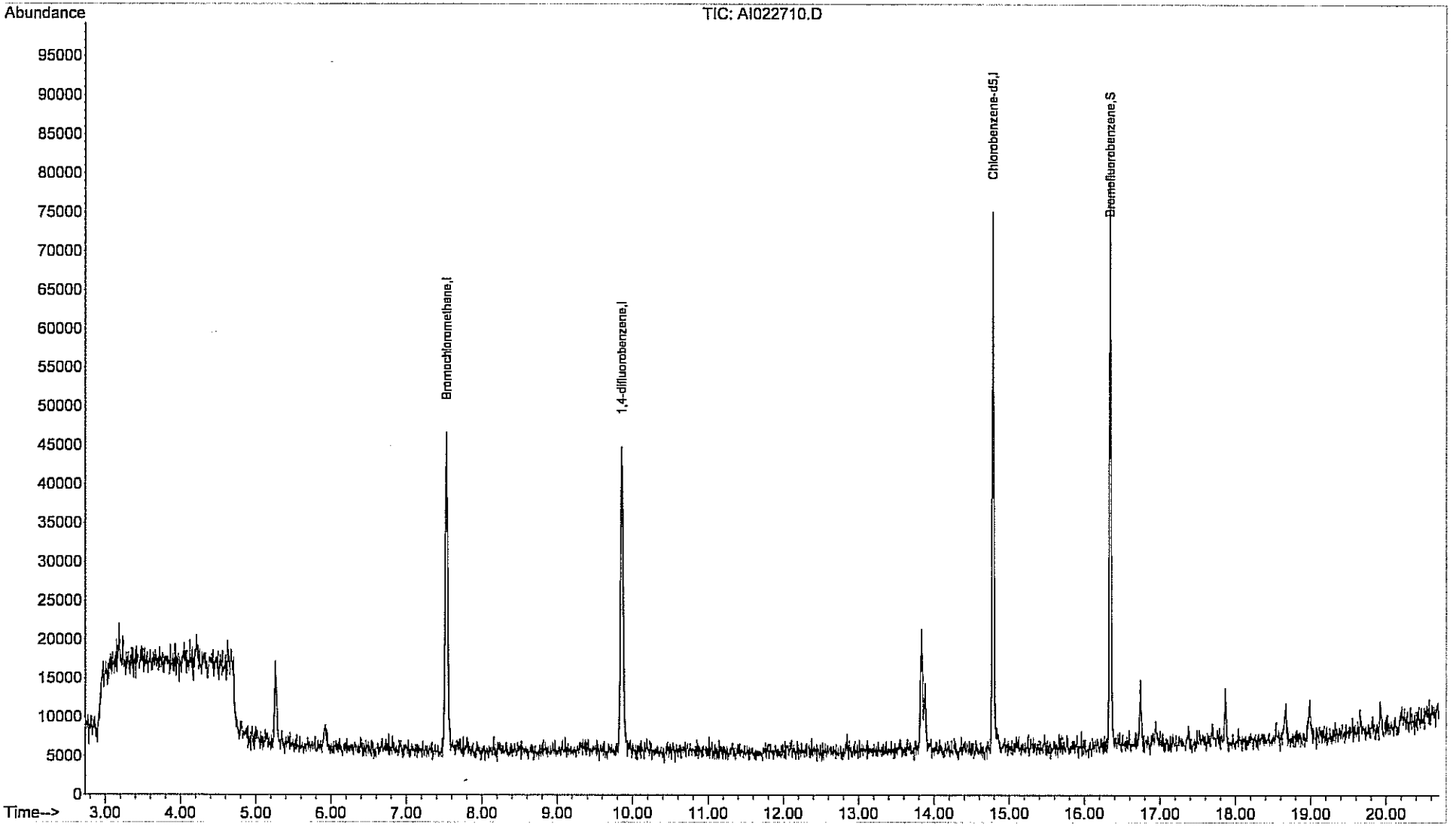
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	16158	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.86	114	44969	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	42179	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	20790	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022710.D Vial: 9
Acq On : 28 Feb 2011 3:43 pm Operator: RJP
Sample : WAC022811B Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 17:14 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022710.D A225_1UG.M Mon Apr 25 15:23:23 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022711.D Vial: 10
Acq On : 28 Feb 2011 4:18 pm Operator: RJP
Sample : WAC022811C Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 16:39:04 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

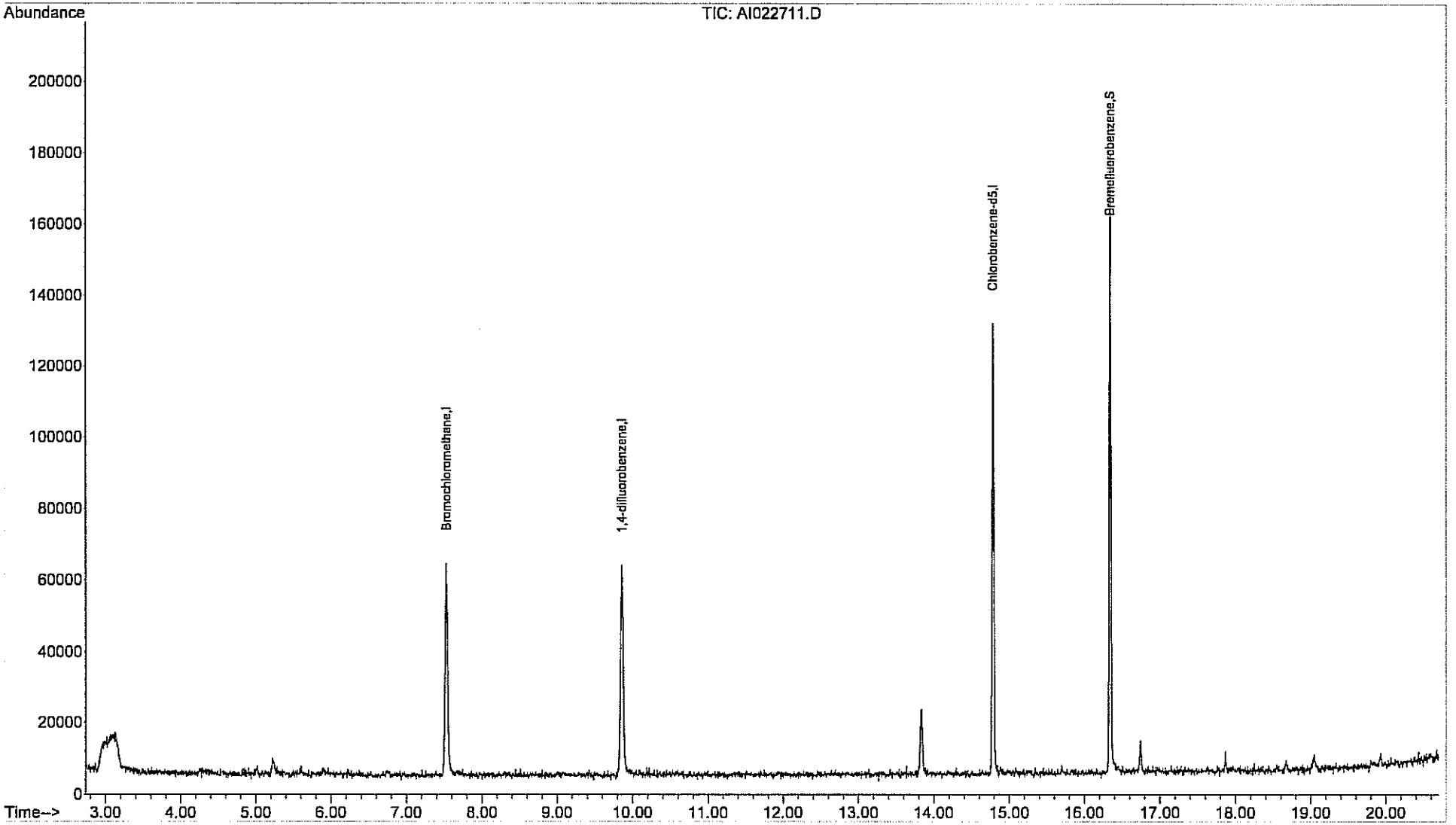
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	22814m	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.86	114	69567	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	77807	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	48021	1.18	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022711.D Vial: 10
Acq On : 28 Feb 2011 4:18 pm Operator: RJP
Sample : WAC022811C Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 18:25 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022711.D A225_1UG.M Mon Apr 25 15:23:26 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022712.D Vial: 11
Acq On : 28 Feb 2011 4:52 pm Operator: RJP
Sample : WAC022811D Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 17:13:44 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

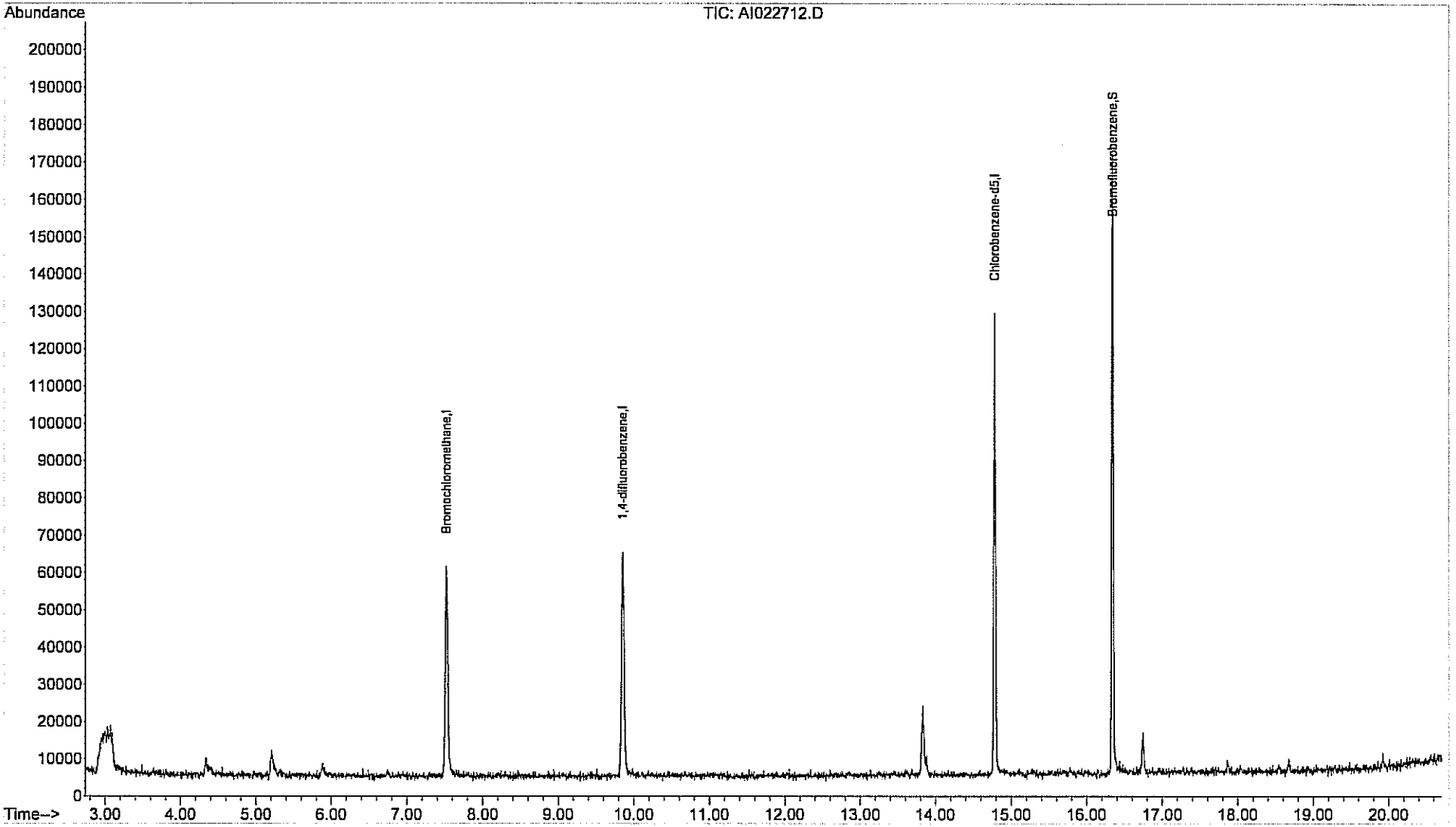
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	21980m	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	68543	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	75681	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.33	95	46934	1.18	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022712.D Vial: 11
Acq On : 28 Feb 2011 4:52 pm Operator: RJP
Sample : WAC022811D Inst : MSD #1
Misc : 6L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 18:26 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022713.D Vial: 21
Acq On : 28 Feb 2011 5:36 pm Operator: RJP
Sample : WAC022811E Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 17:57:43 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

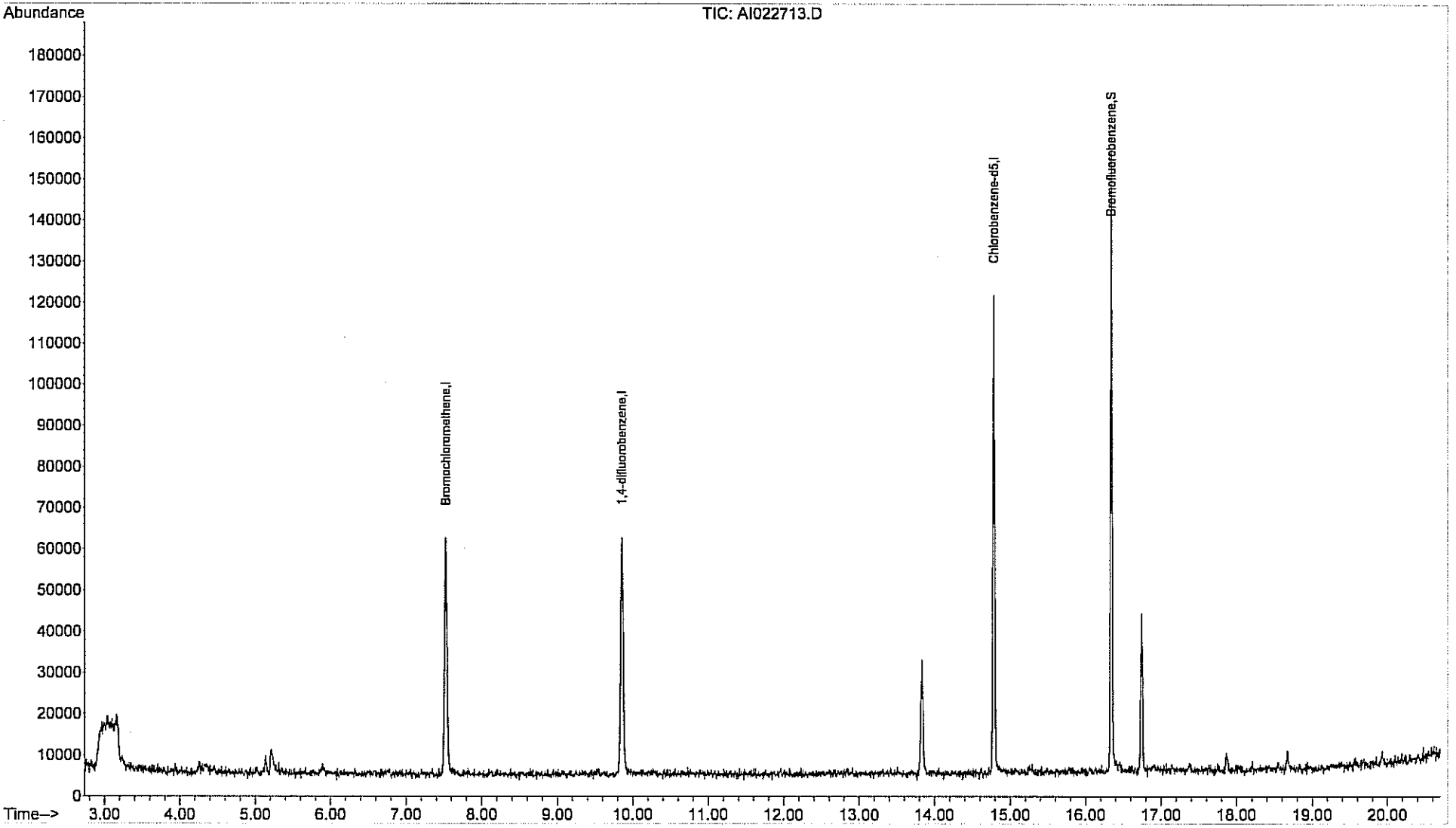
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	22218	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.86	114	64785	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	70046	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	42462	1.16	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 116.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022713.D Vial: 21
Acq On : 28 Feb 2011 5:36 pm Operator: RJP
Sample : WAC022811E Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 13 16:21 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022713.D A225_1UG.M Mon Apr 25 15:23:30 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022714.D Vial: 22
Acq On : 28 Feb 2011 6:10 pm Operator: RJP
Sample : WAC022811F Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 18:30:49 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

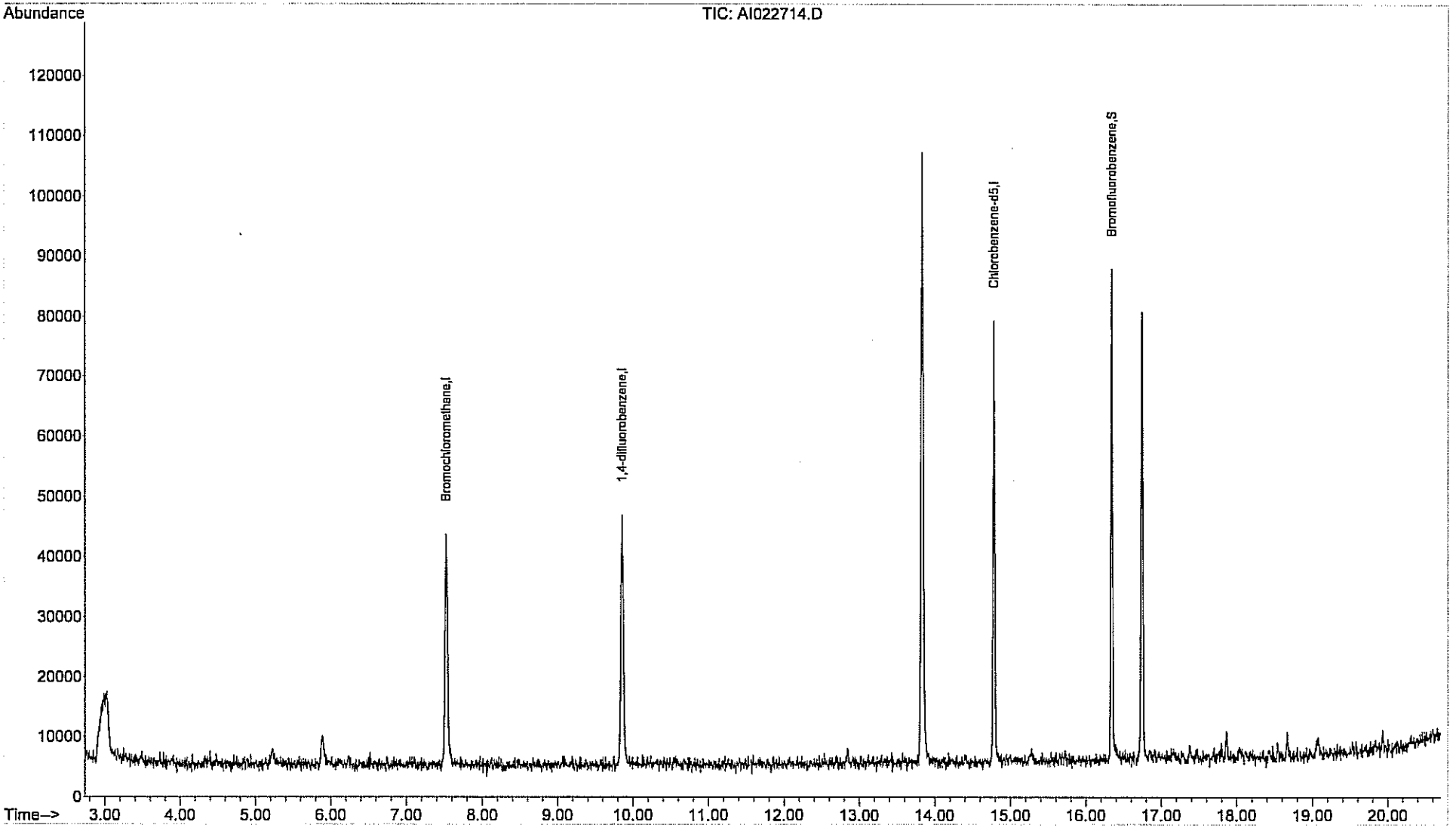
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	16143	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	47182	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	42991	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	23068	1.02	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022714.D Vial: 22
Acq On : 28 Feb 2011 6:10 pm Operator: RJP
Sample : WAC022811F Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 19:30 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022714.D A225_1UG.M Mon Apr 25 15:23:32 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022716.D Vial: 24
Acq On : 28 Feb 2011 7:15 pm Operator: RJP
Sample : WAC022811H Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 19:36:43 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

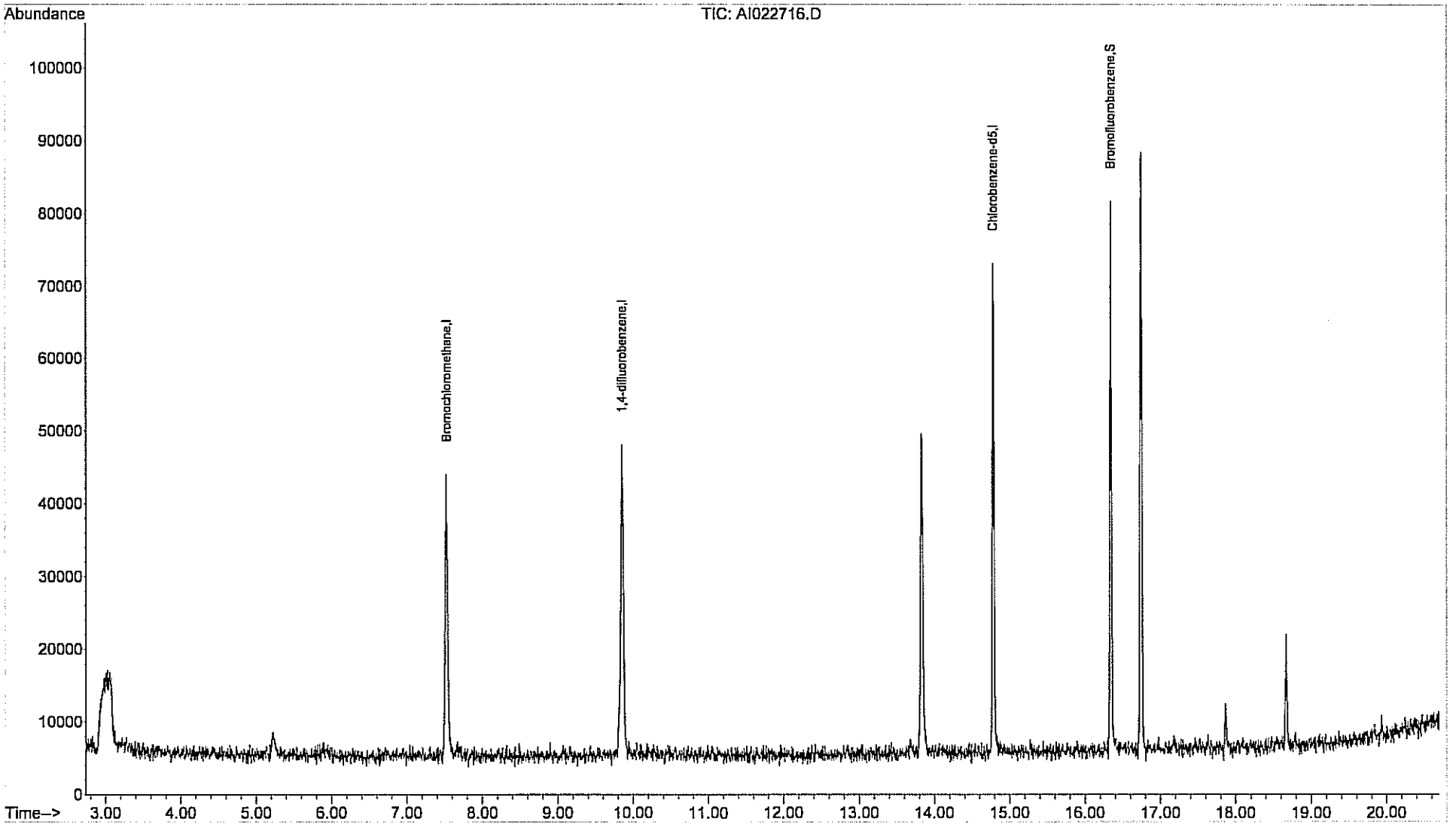
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.52	128	14758	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	46792	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	39502	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	20494	0.99	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022716.D Vial: 24
Acq On : 28 Feb 2011 7:15 pm Operator: RJP
Sample : WAC022811H Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 20:36 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022717.D Vial: 25
Acq On : 28 Feb 2011 7:48 pm Operator: RJP
Sample : WAC022811I Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 20:08:52 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

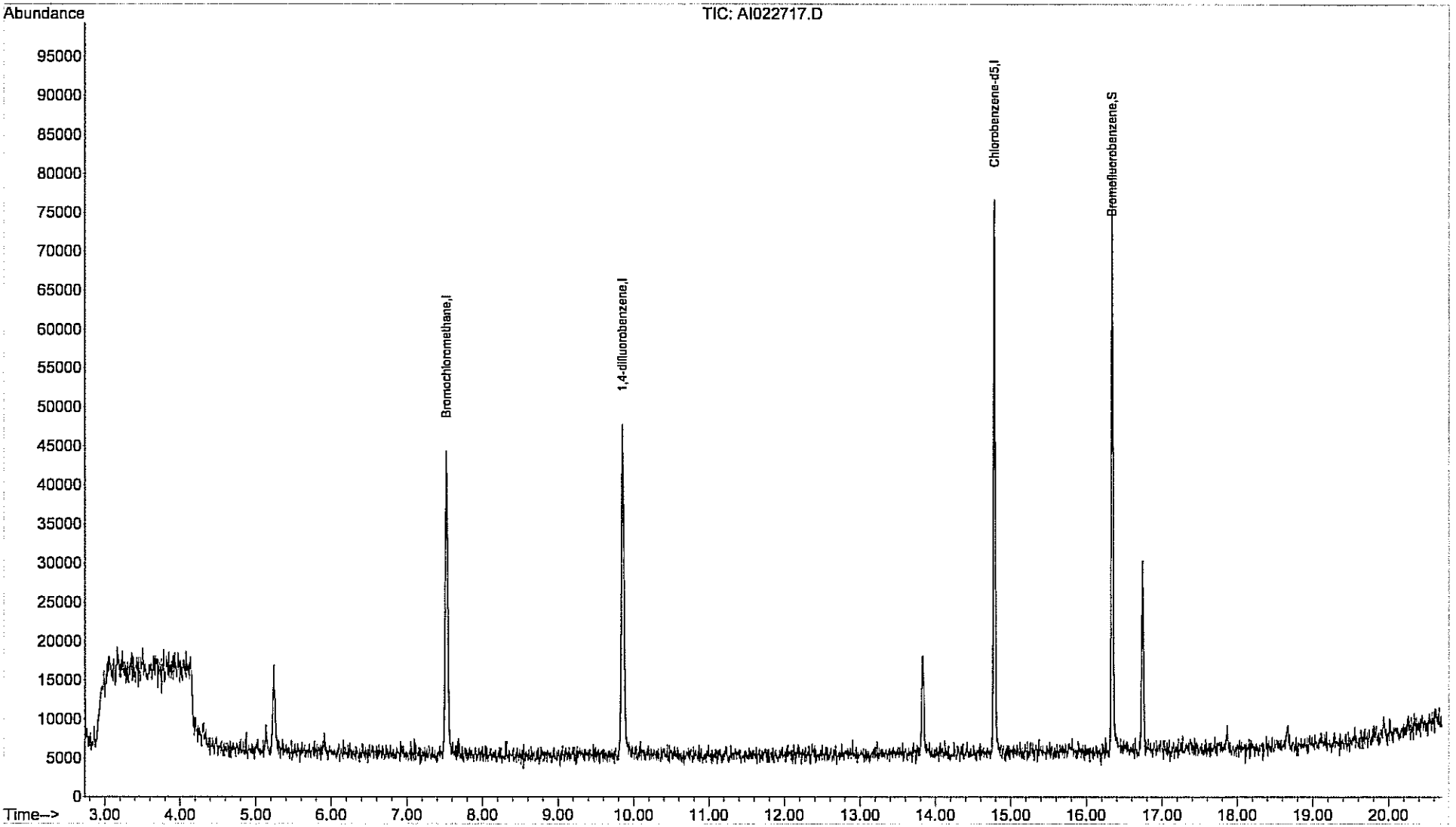
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.52	128	16093	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	46867	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	42067	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	21847	0.99	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022717.D Vial: 25
Acq On : 28 Feb 2011 7:48 pm Operator: RJP
Sample : WAC022811I Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 13 16:22 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022718.D Vial: 26
Acq On : 28 Feb 2011 8:20 pm Operator: RJP
Sample : WAC022811J Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 20:41:11 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

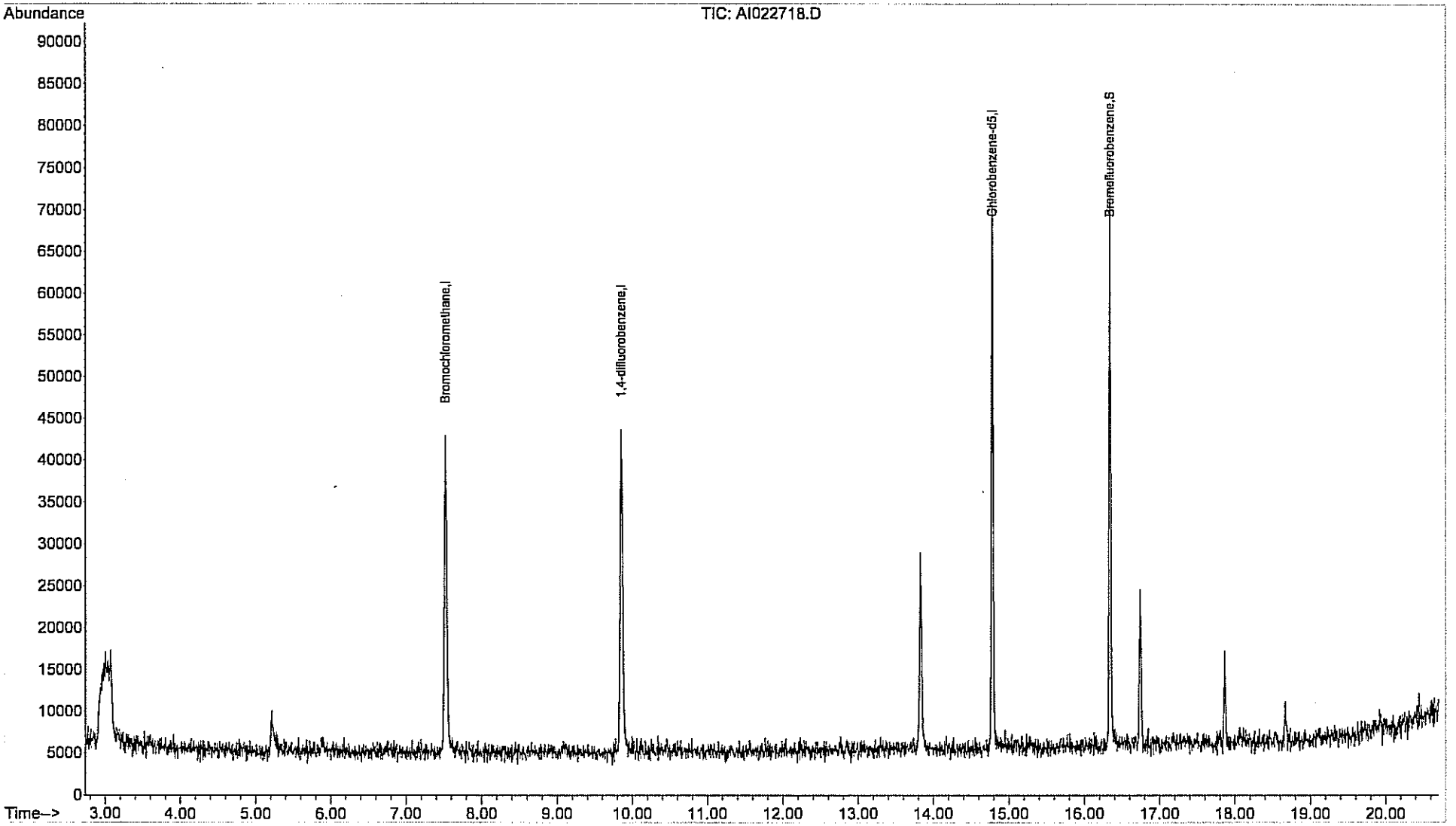
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	15194	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	44092	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	38933	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	20222	0.99	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022718.D Vial: 26
Acq On : 28 Feb 2011 8:20 pm Operator: RJP
Sample : WAC022811J Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 21:41 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022718.D A225_1UG.M Mon Apr 25 15:23:37 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022719.D Vial: 27
Acq On : 28 Feb 2011 8:52 pm Operator: RJP
Sample : WAC022811K Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 21:13:06 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

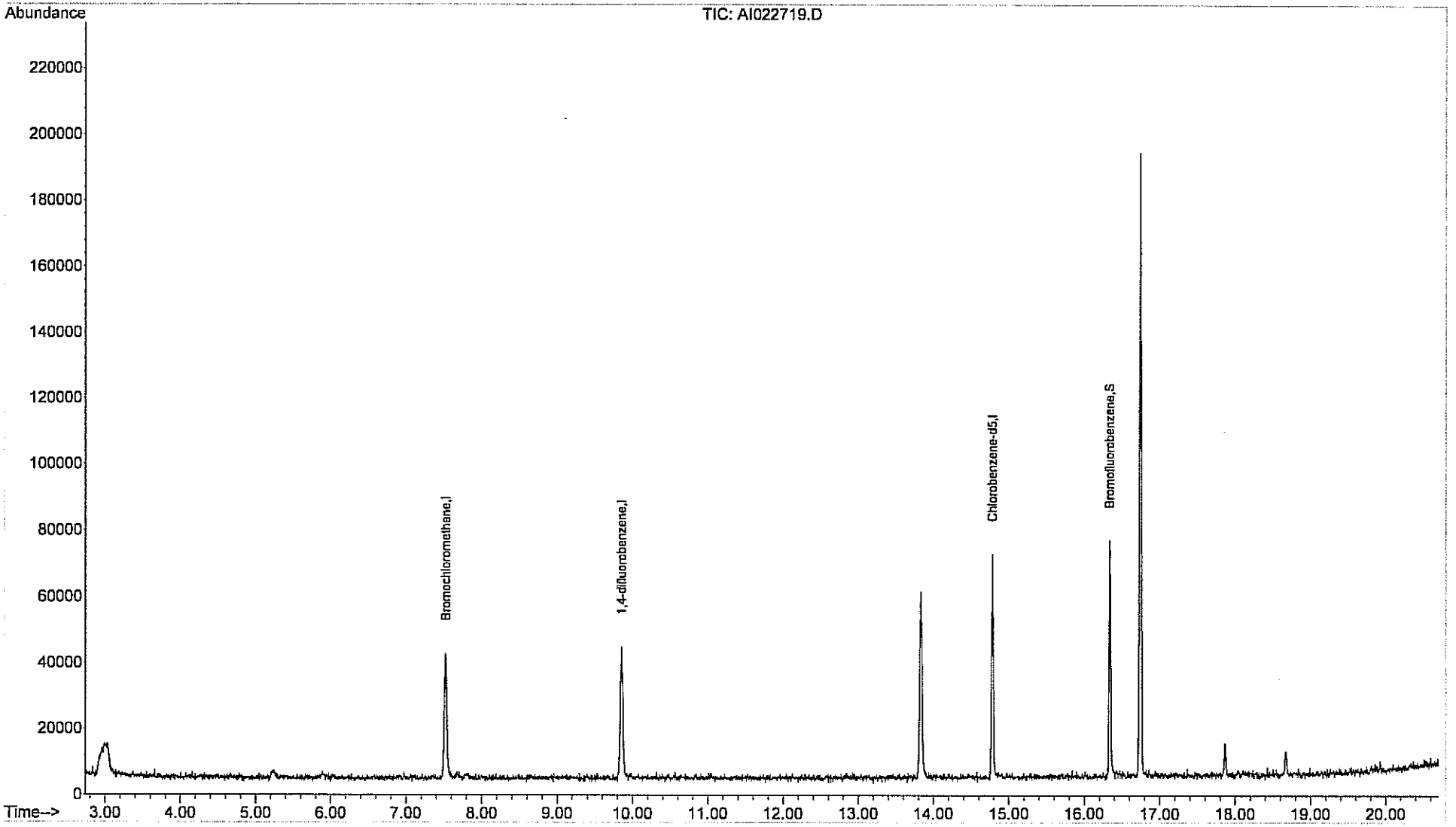
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.52	128	15641	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	45160	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	40222	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.33	95	21438	1.02	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022719.D Vial: 27
Acq On : 28 Feb 2011 8:52 pm Operator: RJP
Sample : WAC022811K Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 22:13 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022720.D Vial: 28
Acq On : 28 Feb 2011 9:24 pm Operator: RJP
Sample : WAC022811L Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 21:45:36 2011 Quant Results File: A225_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Feb 25 19:02:33 2011
Response via : Initial Calibration
DataAcq Meth : A225_1UG

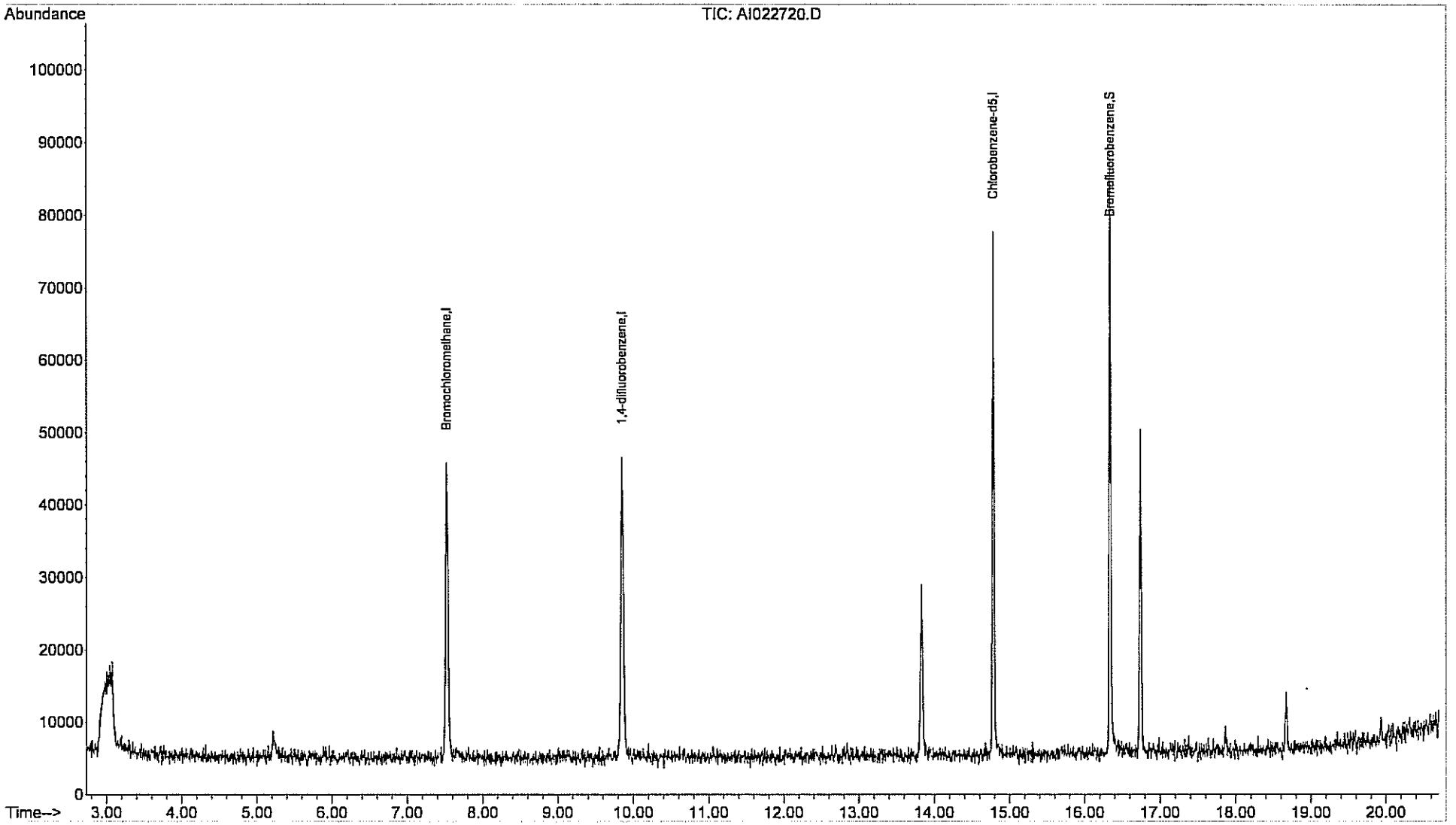
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	16060	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.85	114	47704	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	42911	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	22177	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI022720.D A225_1UG.M Mon Apr 25 15:23:41 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI022720.D Vial: 28
Acq On : 28 Feb 2011 9:24 pm Operator: RJP
Sample : WAC022811L Inst : MSD #1
Misc : 1L 1UG+0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 28 22:45 2011 Quant Results File: A225_1UG.RES

Method : C:\HPCHEM\1\METHODS\A225_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 10:37:44 2011
Response via : Initial Calibration



AI022720.D A225_1UG.M Mon Apr 25 15:23:42 2011 MSD1 Page 2

Centek laboratories, LLC

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
349	360	30	03/09/11	WAC030911B	1ug/m3+0.25	+ 30	+ 30
368	↓	↓	↓	↓	TCE, CT, VNCL	+	+
203	↓	↓	↓	↓	↓	+	+
274	↓	↓	↓	↓	↓	+	+
360	↓	↓	↓	↓	↓	+	+
95	464	↓	↓	WAC030911C	↓	+	+
365	↓	↓	↓	↓	↓	+	+
237	↓	↓	↓	↓	↓	+	+
167	↓	↓	↓	↓	↓	+	+
464	↓	↓	↓	↓	↓	+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: _____

Page # 174

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI030908.D Vial: 22
Acq On : 9 Mar 2011 5:11 pm Operator: RJP
Sample : WAC030911B Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 09 17:32:33 2011 Quant Results File: A306_1UG.RES

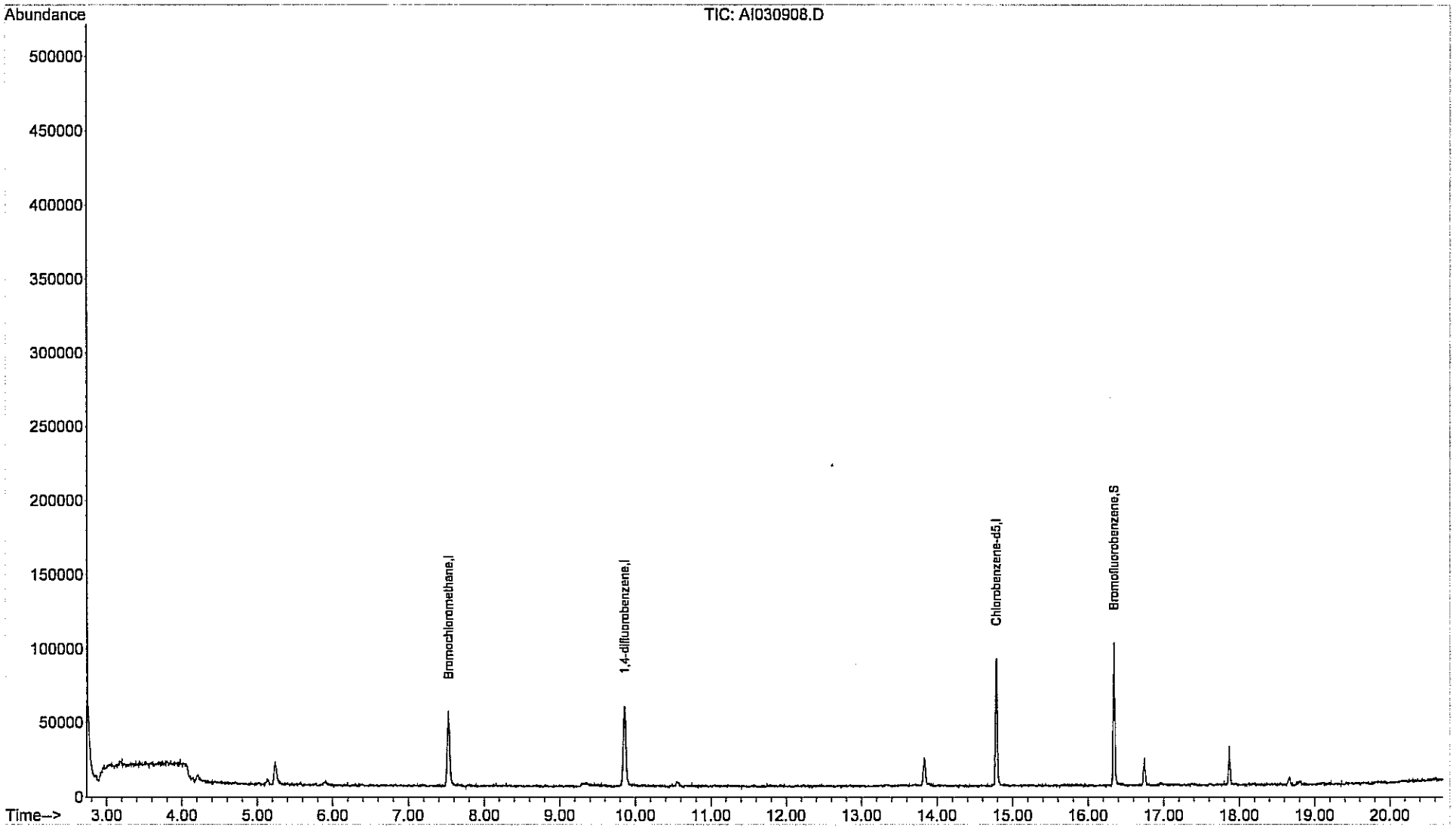
Quant Method : C:\HPCHEM\1\METHODS\A306_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Mar 08 16:18:06 2011
Response via : Initial Calibration
DataAcq Meth : A306_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	17842	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.86	114	57174	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	50086	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	26427	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI030908.D A306_1UG.M Mon Apr 25 17:31:42 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI030908.D Vial: 22
Acq On : 9 Mar 2011 5:11 pm Operator: RJP
Sample : WAC030911B Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 17:31 2011 Quant Results File: A306_1UG.RES

Method : C:\HPCHEM\1\METHODS\A306_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 11:50:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI030909.D Vial: 23
Acq On : 9 Mar 2011 5:45 pm Operator: RJP
Sample : WAC030911C Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 09 18:06:46 2011 Quant Results File: A306_1UG.RES

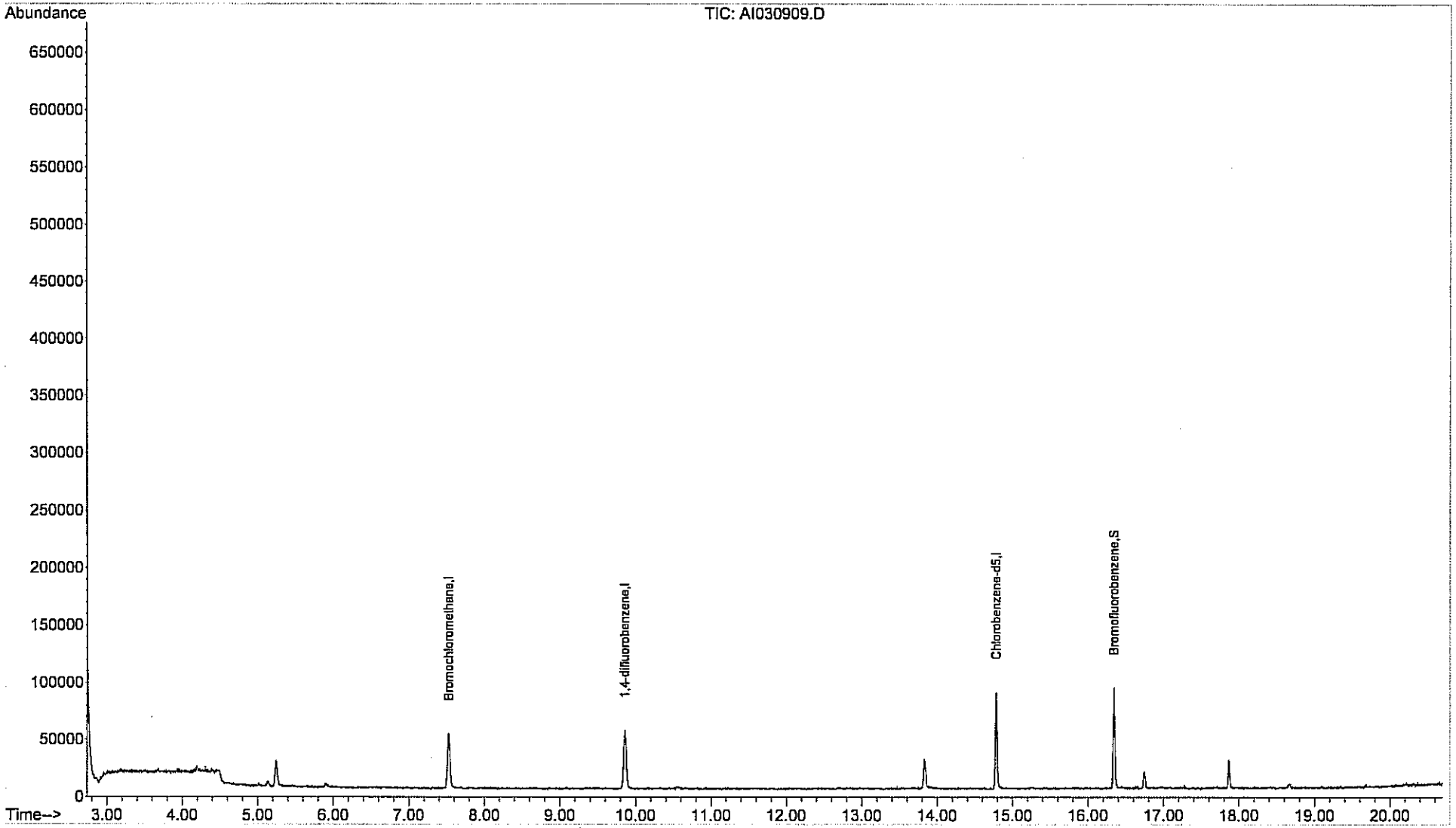
Quant Method : C:\HPCHEM\1\METHODS\A306_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Mar 08 16:18:06 2011
Response via : Initial Calibration
DataAcq Meth : A306_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.53	128	17617	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.86	114	56052	1.00	ppb	0.00
44) Chlorobenzene-d5	14.78	117	47268	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.34	95	25698	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI030909.D A306_1UG.M Mon Apr 25 17:31:44 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI030909.D Vial: 23
Acq On : 9 Mar 2011 5:45 pm Operator: RJP
Sample : WAC030911C Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 25 17:31 2011 Quant Results File: A306_1UG.RES

Method : C:\HPCHEM\1\METHODS\A306_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Mar 26 11:50:30 2011
Response via : Initial Calibration



AI030909.D A306_1UG.M Mon Apr 25 17:31:45 2011 MSD1 Page 2

Centek laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Group Project: Griffiss AFB SDG: C110501

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits		✓	
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: * SEE CASE NARRATIVE
* NO MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: EPM Group Project: Griffis AFB SDG: C1105011

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria		✓	
Standards Raw Data	Present and Complete	✓		

Comments: *SEE CASE NARRATIVE

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete			✓

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: _____ Date: 6/6/11

QC Supervisor: _____ Date: 6/6/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Tuesday, May 17, 2011
Order No.: C1105011

RE: Griffis AFB B774/B776 SSVM

Dear Katrina Mattice:

Centek Laboratories, LLC received 10 sample(s) on 5/9/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Snmmary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

CLIENT: FPM Group
Project: Griffis AFB B774/B776 SSVM
Lab Order: C1105011

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2209] LCSD did not meet criteria.
See Corrective Action: [2215] Continuing calibration did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 10-May-11 **Corrective Action Report ID:** 2209

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-051011 did not meet criteria for RPD and % recoveries for several compounds. The LCSD did not reproduce. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 11-May-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 14-May-11

QA Officer Approval: Nick Scala QA Date: 14-May-11

Last Updated BY russ2 Updated: 17-Jun-2011 4:32 PM Reported: 06-Jul-2011 2:09 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 10-May-11 **Corrective Action Report ID:** 2215

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Continuing calibration did not meet criteria

Description of Nonconformance: Continuing calibration did not meet criteria on 5/10/11 for MTBE &1,2,4-trimethylbenzene. The compounds are more sensitive and were not and not found associated samples.

Description of Corrective Action: Since the compound is more sensitive and was not found in the associated samples than continue with analysis.

Performed By: Russell Pellegrino **Completion Date:** 11-May-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 13-May-11

QA Officer Approval: Nick Scala QA Date: 13-May-11

Last Updated BY russ2 Updated: 22-Jun-2011 5:29 PM Reported: 06-Jul-2011 2:08 PM

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B774 / B776 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: K.mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
774VMP0101AA	774VMP-1	5/4	1155	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 131, Reg # 372 PID = 501 ppb
774VMP0201AA	774VMP-2	5/4	1220	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 236, Reg # 395 PID = 1233 ppb
774VMP0301AA	774VMP-3	5/4	1240	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 481, Reg # 388 PID = 14,500 ppb
774IA1AD	774IA-1	5/5	1532	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 128, Reg # 306 PID = 14 ppb
776VMP0101AA	776VMP-1	5/4	1325	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 129, Reg # 265 PID = 556 ppb
776VMP0201AA	776VMP-2	5/4	1315	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 222, Reg # 346 PID = 439 ppb
776VMP0301AA	776VMP-3	5/4	1330	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 284, Reg # 47 PID = 793 ppb
776IA1CA	776IA-1	5/4	1342	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 221, Reg # 178 PID = 6 ppb
776OA1DA	776OA-1	5/4	1348	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 476 Reg # 437 PID = 0 ppb
Trip Blank	050411TB	5/4	1400	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 370

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

Canister # 88: Do Not Analyze, indoor air sample collected when window was opened, recollected sample

Canister # 542: Do Not Analyze, this canister did not read as having an applied vacuum on regulator gauge during and attempt to collect sample.

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 5/6/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1200	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 5/2/11	#2 Received by: (Sig)	Date: 5/9/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1300	Company Name:	Time: 1000	Company Name: Centek Labs	Time:

MATRIX **SMCODE** **SACODE**

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

CLIENT: FPM Group
Project: Griffis AFB B774/B776 SSVM
Lab Order: C1105011

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1105011-001A	774VMP0101AA	131,372	5/4/2011	5/9/2011
C1105011-002A	774VMP0201AA	236,395	5/9/2011	5/9/2011
C1105011-003A	774VMP0301AA	481,388	5/9/2011	5/9/2011
C1105011-004A	774IA1AD	128,306	5/4/2011	5/9/2011
C1105011-005A	776VMP0101AA	129,265	5/4/2011	5/9/2011
C1105011-006A	776VMP0201AA	222,346	5/4/2011	5/9/2011
C1105011-007A	776VMP0301AA	284,47	5/4/2011	5/9/2011

CLIENT: FPM Group
Project: Griffis AFB B774/B776 SSVM
Lab Order: C1105011

Work Order Sample Summary

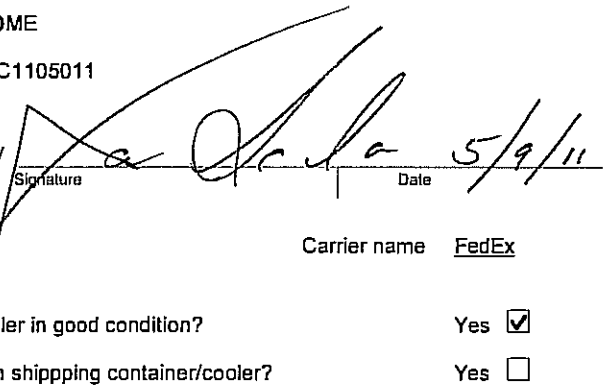
Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1105011-008A	776IA1CA	221,178	5/4/2011	5/9/2011
C1105011-009A	776OA1DA	476,437	5/4/2011	5/9/2011
C1105011-010A	Trip Blank	370	5/4/2011	5/9/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name FPM-ROME | Date and Time Receive 5/9/2011

Work Order Numbe C1105011 | Received by JDS

Checklist completed by  Signature 5/9/11 Date | Reviewed by Initials 5/11/11 Date

Matrix: | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Lab Order: C1105011
Client: FPM Group
Project: Griffis AFB B774/B776 SSVM

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1105011-001A	774VMP0101AA	5/4/2011	Air	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/13/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
C1105011-002A	774VMP0201AA	5/9/2011		1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/13/2011
C1105011-003A	774VMP0301AA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/13/2011
C1105011-004A	774IA1AD	5/4/2011		1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
C1105011-005A	776VMP0101AA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
C1105011-006A	776VMP0201AA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/13/2011
C1105011-007A	776VMP0301AA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/13/2011
C1105011-008A	776IA1CA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
C1105011-009A	776OA1DA			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011
				1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/11/2011
C1105011-010A	Trip Blank			1ug/m3 w/ 0.25ug/M3 CT-TCE-VC			5/10/2011

Page 14 of 370

Centek laboratories, LLC

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1105011-001A	Login	5/9/2011 2:39:19 PM	jans	Sample Log In
C1105011-002A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-003A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-004A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-005A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-006A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-007A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-008A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-009A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-010A	Login	5/9/2011 2:55:03 PM	jans	Sample Log In
C1105011-005A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-010A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-009A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-008A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-006A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-004A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-003A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-002A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-001A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-007A	Transfer	5/11/2011 12:03:28 AM	ADM	GC/MS Lab
C1105011-001A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-010A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-009A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-008A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-007A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-006A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-005A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-004A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-003A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed
C1105011-002A	Mark as Consumed	5/13/2011 2:10:29 PM	ADM	Consumed

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2319

06-Jul-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 153 Brook Road
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 252
Project:

Submitted By:

Ship Date: 4/18/2011
VIA: FedEx
Due Date: 4/20/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT&TCE by M	10

Can / Reg ID	Description
47	Time-Set Reg - 544R
88	1L Mini-Can - 1107
129	1L Mini-Can - 1077
131	1L Mini-Can - 1079
152	Time-Set Reg - 647
221	1L Mini-Can - 1183
222	1L Mini-Can - 1184
236	1L Mini-Can - 1167
265	Time-Set Reg - 703
284	1L Mini-Can - 1059
346	Time-Set Reg - 743
370	1L Mini-Can - 1319
372	Time-Set Reg - 746
388	Time-Set Reg - 762
395	Time-Set Reg - 774
481	1L Mini-Can - 1383
542	1L Mini-Can - 110
788	Shipping Cooler XL

Comments: 2 1L w/ quick grabs. 7 1L w/ 5 min regulators. 1 trip blank. WAC 041111 A-C

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	11	1.5		ppbV	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.13	0.15	J	ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	0.50	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
4-ethyltoluene	0.93	0.15		ppbV	1	5/10/2011 6:00:00 PM
Acetone	22	3.0		ppbV	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzene	0.49	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	0.16	0.040		ppbV	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroform	3.7	1.5		ppbV	10	5/10/2011 11:27:00 PM
Chloromethane	1.7	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.22	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Cyclohexane	1.4	0.15		ppbV	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.32	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 11	5.5	1.5		ppbV	10	5/10/2011 11:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 12	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
o-Xylene	0.55	0.15		ppbV	1	5/10/2011 6:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	1.0	0.15		ppbV	1	5/10/2011 6:00:00 PM
Toluene	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Trichloroethene	110	3.6		ppbV	90	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:00:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	59	8.3		ug/m3	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.53	0.62	J	ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	2.5	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:00:00 PM
4-ethyltoluene	4.6	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Acetone	54	7.2		ug/m3	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:00:00 PM
Benzene	1.6	0.49		ug/m3	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	1.0	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:00:00 PM
Chloroform	18	7.4		ug/m3	10	5/10/2011 11:27:00 PM
Chloromethane	3.5	0.31		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.89	0.60		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Freon 11	31	8.6		ug/m3	10	5/10/2011 11:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	2.1	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 6:00:00 PM
m&p-Xylene	5.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:00:00 PM
o-Xylene	2.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.97	1.0	J	ug/m3	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	3.1	0.45		ug/m3	1	5/10/2011 6:00:00 PM
Toluene	1.6	0.57		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Trichloroethene	580	20		ug/m3	90	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	15	1.5		ppbV	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	2.3	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
4-ethyltoluene	1.7	0.15		ppbV	1	5/10/2011 6:35:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzene	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	0.22	0.040		ppbV	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroform	9.1	1.5		ppbV	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Cyclohexane	1.7	1.5		ppbV	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 11	70	40		ppbV	270	5/13/2011 3:56:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 6:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 12	0.56	0.15		ppbV	1	5/10/2011 6:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
o-Xylene	0.49	0.15		ppbV	1	5/10/2011 6:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	2.2	0.15		ppbV	1	5/10/2011 6:35:00 PM
Toluene	0.83	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Trichloroethene	540	11		ppbV	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:35:00 PM
Surr: Bromofluorobenzene	108	70-130		%REC	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	85	8.3		ug/m3	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	12	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	3.9	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:35:00 PM
4-ethyltoluene	8.5	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Acetone	53	7.2		ug/m3	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:35:00 PM
Benzene	6.0	0.49		ug/m3	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	1.4	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:35:00 PM
Chloroform	45	7.4		ug/m3	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.73	0.60		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Cyclohexane	5.9	5.2		ug/m3	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Freon 11	400	230		ug/m3	270	5/13/2011 3:56:00 AM
Freon 113	0.86	1.2	J	ug/m3	1	5/10/2011 6:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	4.4	0.37		ug/m3	1	5/10/2011 6:35:00 PM
m&p-Xylene	5.1	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	4.3	0.90		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:35:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	6.7	0.45		ug/m3	1	5/10/2011 6:35:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Trichloroethene	2900	60		ug/m3	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.1	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	0.45	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
4-ethyltoluene	0.85	0.15		ppbV	1	5/10/2011 7:10:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzene	0.78	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.070	0.040		ppbV	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroform	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Cyclohexane	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.35	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 11	110	14		ppbV	90	5/13/2011 5:28:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 7:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
m&p-Xylene	1.0	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
o-Xylene	0.50	0.15		ppbV	1	5/10/2011 7:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Toluene	0.59	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Trichloroethene	56	3.6		ppbV	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:10:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	12	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	6.3	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:10:00 PM
4-ethyltoluene	4.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:10:00 PM
Benzene	2.5	0.49		ug/m3	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.45	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:10:00 PM
Chloroform	9.1	0.74		ug/m3	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Cyclohexane	6.2	0.52		ug/m3	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Freon 11	630	80		ug/m3	90	5/13/2011 5:28:00 AM
Freon 113	0.86	1.2	J	ug/m3	1	5/10/2011 7:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 7:10:00 PM
m&p-Xylene	4.5	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:10:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:10:00 PM
Toluene	2.3	0.57		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Trichloroethene	300	20		ug/m3	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	0.54	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzene	0.39	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroform	0.11	0.15	J	ppbV	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Cyclohexane	0.36	0.15		ppbV	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	0.19	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 11	5.7	1.5		ppbV	10	5/11/2011 1:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Heptane	0.41	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexane	9.1	1.5		ppbV	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	4.5	1.5		ppbV	10	5/11/2011 1:14:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	5/10/2011 7:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Toluene	1.3	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Trichloroethene	0.81	0.040		ppbV	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:46:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Acetone	52	7.2		ug/m3	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:46:00 PM
Benzene	1.3	0.49		ug/m3	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:46:00 PM
Chloroform	0.55	0.74	J	ug/m3	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Cyclohexane	1.3	0.52		ug/m3	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
Ethylbenzene	0.84	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Freon 11	33	8.6		ug/m3	10	5/11/2011 1:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Heptane	1.7	0.62		ug/m3	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Hexane	33	5.4		ug/m3	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	5/11/2011 1:14:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:46:00 PM
Toluene	5.1	0.57		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Trichloroethene	4.4	0.22		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.82	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	1.8	1.5		ppbV	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	0.77	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
Acetone	10	3.0		ppbV	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzene	0.32	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon disulfide	0.38	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroform	2.2	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Cyclohexane	2.0	0.15		ppbV	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 11	0.29	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 113	1.1	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 12	1.3	0.15		ppbV	1	5/10/2011 8:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	0.96	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	0.53	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
o-Xylene	0.57	0.15		ppbV	1	5/10/2011 8:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	1.6	0.15		ppbV	1	5/10/2011 8:23:00 PM
Toluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Trichloroethene	3.9	0.40		ppbV	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 8:23:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	9.0	7.5		ug/m3	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	3.8	0.75		ug/m3	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 8:23:00 PM
4-ethyltoluene	7.2	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Acetone	25	7.2		ug/m3	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 8:23:00 PM
Benzene	1.0	0.49		ug/m3	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 8:23:00 PM
Carbon disulfide	1.2	0.47		ug/m3	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 8:23:00 PM
Chloroform	11	0.74		ug/m3	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Cyclohexane	6.8	0.52		ug/m3	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Freon 11	1.7	0.86		ug/m3	1	5/10/2011 8:23:00 PM
Freon 113	8.6	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	6.6	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 8:23:00 PM
m&p-Xylene	5.4	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	2.9	0.90		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	2.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 8:23:00 PM
o-Xylene	2.5	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	4.8	0.45		ug/m3	1	5/10/2011 8:23:00 PM
Toluene	5.6	0.57		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Trichloroethene	21	2.2		ug/m3	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	1.8	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	0.57	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:00:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzene	0.33	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.31	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroform	1.7	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Cyclohexane	1.3	0.15		ppbV	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 11	0.44	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 113	0.87	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 12	2.2	0.15		ppbV	1	5/10/2011 9:00:00 PM
Heptane	0.16	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
o-Xylene	0.26	0.15		ppbV	1	5/10/2011 9:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	0.20	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	0.55	0.15		ppbV	1	5/10/2011 9:00:00 PM
Toluene	0.84	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Trichloroethene	66	3.6		ppbV	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:00:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	8.7	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	9.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	2.8	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:00:00 PM
4-ethyltoluene	5.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:00:00 PM
Benzene	1.1	0.49		ug/m3	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.98	0.47		ug/m3	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:00:00 PM
Chloroform	8.3	0.74		ug/m3	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Cyclohexane	4.5	0.52		ug/m3	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Freon 11	2.5	0.86		ug/m3	1	5/10/2011 9:00:00 PM
Freon 113	6.8	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	11	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Heptane	0.67	0.62		ug/m3	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:00:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:00:00 PM
o-Xylene	1.1	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	1.4	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	1.6	0.45		ug/m3	1	5/10/2011 9:00:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Trichloroethene	360	20		ug/m3	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	2.1	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	0.55	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:37:00 PM
Acetone	8.3	3.0		ppbV	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzene	0.63	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.060	0.040		ppbV	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroform	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Cyclohexane	1.5	0.15		ppbV	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.25	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 11	0.81	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 113	0.21	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 12	4.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
m&p-Xylene	0.86	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	0.93	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
o-Xylene	0.37	0.15		ppbV	1	5/10/2011 9:37:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	5/11/2011 3:00:00 AM
Toluene	1.2	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Trichloroethene	150	11		ppbV	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:37:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	18	8.3		ug/m3	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	11	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:37:00 PM
4-ethyltoluene	5.2	0.75		ug/m3	1	5/10/2011 9:37:00 PM
Acetone	20	7.2		ug/m3	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:37:00 PM
Benzene	2.0	0.49		ug/m3	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.38	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:37:00 PM
Chloroform	16	7.4		ug/m3	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Cyclohexane	5.4	0.52		ug/m3	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Freon 11	4.6	0.86		ug/m3	1	5/10/2011 9:37:00 PM
Freon 113	1.6	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	21	7.5		ug/m3	10	5/11/2011 3:00:00 AM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:37:00 PM
m&p-Xylene	3.8	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:37:00 PM
o-Xylene	1.6	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	5/11/2011 3:00:00 AM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Trichloroethene	830	60		ug/m3	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzene	0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.13	0.15	J	ppbV	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloromethane	0.85	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Ethyl acetate	1.6	0.25		ppbV	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	0.16	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 11	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 12	0.71	0.15		ppbV	1	5/10/2011 10:14:00 PM
Heptane	0.77	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexane	0.65	0.15		ppbV	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	5/11/2011 3:34:00 AM
m&p-Xylene	0.27	0.30	J	ppbV	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	5/10/2011 10:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Toluene	1.2	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Trichloroethene	0.66	0.040		ppbV	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:14:00 PM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Acetone	54	7.2		ug/m3	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:14:00 PM
Benzene	0.49	0.49		ug/m3	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.41	0.47	J	ug/m3	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:14:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:14:00 PM
Chloromethane	1.8	0.31		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:14:00 PM
Ethyl acetate	5.8	0.92		ug/m3	1	5/10/2011 10:14:00 PM
Ethylbenzene	0.71	0.66		ug/m3	1	5/10/2011 10:14:00 PM
Freon 11	1.4	0.86		ug/m3	1	5/10/2011 10:14:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.6	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Heptane	3.2	0.62		ug/m3	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Hexane	2.3	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	5/11/2011 3:34:00 AM
m&p-Xylene	1.2	1.3	J	ug/m3	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	3.3	0.90		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:14:00 PM
o-Xylene	0.44	0.66	J	ug/m3	1	5/10/2011 10:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:14:00 PM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Trichloroethene	3.6	0.22		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Acetone	7.6	3.0		ppbV	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 11	0.23	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Heptane	0.29	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexane	0.25	0.15		ppbV	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Toluene	0.26	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Trichloroethene	0.18	0.040		ppbV	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:50:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Acetone	18	7.2		ug/m3	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:50:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:50:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Freon 11	1.3	0.86		ug/m3	1	5/10/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Heptane	1.2	0.62		ug/m3	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Hexane	0.90	0.54		ug/m3	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:50:00 PM
Toluene	1.0	0.57		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Trichloroethene	0.98	0.22		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Acetone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 11	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Toluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Acetone	< 0.72	0.72		ug/m3	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 4:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 4:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	5/10/2011 4:52:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 4:52:00 PM
Toluene	< 0.57	0.57		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.22	0.22		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 04-Jun-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-051011	93.0							
ALCS1UG-051211	98.0							
ALCS1UGD-051011	93.0							
AMB1UG-051011	88.0							
AMB1UG-051211	85.0							
C1105011-001A	125							
C1105011-002A	108							
C1105011-003A	109							
C1105011-004A	93.0							
C1105011-005A	99.0							
C1105011-006A	123							
C1105011-007A	109							
C1105011-008A	91.0							
C1105011-009A	87.0							
C1105011-010A	87.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI051002.D
Tune Time : 10 May 2011 1:14 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AI051002.D

			(BFB)	(IS1)	(IS2)	(IS3)
				17660	60894	55839
File	Sample	DL	surrogate Recovery %	Internal Standard Responses		
AI051003.D	ALCS1UG-051011		93	18315	59433	53700
AI051004.D	AMB1UG-051011		88	17412	56929	51326
AI051007.D	C1105011-010A		87	16965	51765	45521
AI051008.D	C1105011-001A		125	21864	75551	72663
AI051009.D	C1105011-002A		108	17644	59912	59616
AI051010.D	C1105011-003A		109	18356	73702	66916
AI051011.D	C1105011-004A		93	17074	59361	55194
AI051012.D	C1105011-005A		99	17537	54043	58747
AI051013.D	C1105011-006A		123	17635	60079	61522
AI051014.D	C1105011-007A		109	18757	62698	64320
AI051015.D	C1105011-008A		91	18206	57726	55579
AI051016.D	C1105011-009A		87	16469	51156	48247
AI051017.D	C1105011-001A	10X	78	16576	48412	44337
AI051018.D	C1105011-002A	10X	86	16585	50723	46571
AI051019.D	C1105011-003A	10X	86	16392	54507	45602
AI051020.D	C1105011-004A	10X	83	19571	61457	55586
AI051021.D	C1105011-005A	10X	92	16300	47196	44901
AI051022.D	C1105011-006A	10X	85	15458	43619	40856
AI051023.D	C1105011-007A	10X	85	15263	41451	38104
AI051024.D	C1105011-008A	10X	82	15841	44140	40631
AI051025.D	C1105011-009A	10X	86	15692	42814	39086
AI051026.D	ALCS1UGD-051011		93	15134	40289	37261

t - fails 24hr time check * - fails criteria

Created: Sat Jun 04 14:18:44 2011 MSD #1/

GC/MS QA/QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI051203.D
Tune Time : 12 May 2011 12:52 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AI051203.D

			(BFB)	(IS1)	(IS2)	(IS3)
				15576	44756	41049
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI051204.D	ALCS1UG-051211		98	14134	41009	35874
AI051205.D	AMB1UG-051211		85	13821	38162	31208
AI051224.D	C1105011-001A	90X	87	13858	37917	31904
AI051225.D	C1105011-002A	270X	86	13751	35781	30129
AI051227.D	C1105011-003A	90X	86	13675	41593	31949
AI051229.D	C1105011-006A	90X	84	13842	31898	27154
AI051230.D	C1105011-007A	270X	87	13034	33354	28211

t - fails 24hr time check * - fails criteria

Created: Sat Jun 04 14:22:41 2011 MSD #1/

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *04-Jun-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID **ALCS1UG-051011** SampType: **LCS** TestCode: **0.25CT-TCE-** Units: **ppbV** Prep Date: RunNo: **4541**
Client ID: **ZZZZZ** Batch ID: **R4541** TestNo: **TO-15** Analysis Date: **5/10/2011** SeqNo: **54193**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	1.230	0.15	1	0	123	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	1.630	0.15	1	0	163	70	130				S
1,2,4-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,2-Dibromoethane	0.9300	0.15	1	0	93.0	70	130				
1,2-Dichlorobenzene	1.030	0.15	1	0	103	70	130				
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,3-butadiene	1.090	0.15	1	0	109	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.150	0.15	1	0	115	70	130				
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				
Acetone	1.080	0.30	1	0	108	70	130				
Allyl chloride	1.200	0.15	1	0	120	70	130				
Benzene	1.070	0.15	1	0	107	70	130				
Benzyl chloride	1.150	0.15	1	0	115	70	130				
Bromodichloromethane	1.010	0.15	1	0	101	70	130				
Bromoform	0.9400	0.15	1	0	94.0	70	130				
Bromomethane	1.010	0.15	1	0	101	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID ALCS1UG-051011	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/10/2011	SeqNo: 54193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.150	0.15	1	0	115	70	130				
Carbon tetrachloride	1.030	0.040	1	0	103	70	130				
Chlorobenzene	0.9400	0.15	1	0	94.0	70	130				
Chloroethane	1.040	0.15	1	0	104	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.050	0.15	1	0	105	70	130				
cis-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8900	0.15	1	0	89.0	70	130				
Ethyl acetate	1.200	0.25	1	0	120	70	130				
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	1.100	0.15	1	0	110	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	0.9600	0.15	1	0	96.0	70	130				
Hexachloro-1,3-butadiene	1.360	0.15	1	0	136	70	130				S
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	1.100	0.30	1	0	110	70	130				
Methyl Ethyl Ketone	1.010	0.30	1	0	101	70	130				
Methyl Isobutyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl tert-butyl ether	1.420	0.15	1	0	142	70	130				S
Methylene chloride	1.080	0.15	1	0	108	70	130				
o-Xylene	0.8800	0.15	1	0	88.0	70	130				
Propylene	1.040	0.15	1	0	104	70	130				
Styrene	0.9100	0.15	1	0	91.0	70	130				
Tetrachloroethylene	0.8200	0.15	1	0	82.0	70	130				
Tetrahydrofuran	0.9600	0.15	1	0	96.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID ALCS1UG-051011	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/10/2011	SeqNo: 54193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	0.9600	0.040	1	0	96.0	70	130				
Vinyl acetate	1.260	0.15	1	0	126	70	130				
Vinyl Bromide	1.150	0.15	1	0	115	70	130				
Vinyl chloride	1.030	0.040	1	0	103	70	130				

Sample ID ALCS1UG-051211	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4542
Client ID: ZZZZZ	Batch ID: R4542	TestNo: TO-15		Analysis Date: 5/12/2011	SeqNo: 54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1,2,2-Tetrachloroethane	1.170	0.15	1	0	117	70	130				
1,1,2-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130				
1,1-Dichloroethene	0.8700	0.15	1	0	87.0	70	130				
1,2,4-Trichlorobenzene	1.450	0.15	1	0	145	70	130				S
1,2,4-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dibromoethane	1.100	0.15	1	0	110	70	130				
1,2-Dichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2-Dichloroethane	1.220	0.15	1	0	122	70	130				
1,2-Dichloropropane	1.250	0.15	1	0	125	70	130				
1,3,5-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,3-butadiene	1.220	0.15	1	0	122	70	130				
1,3-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.7900	0.30	1	0	79.0	70	130				
2,2,4-trimethylpentane	1.150	0.15	1	0	115	70	130				
4-ethyltoluene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-051211	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.150	0.30	1	0	115	70	130				
Allyl chloride	1.280	0.15	1	0	128	70	130				
Benzene	1.230	0.15	1	0	123	70	130				
Benzyl chloride	0.9600	0.15	1	0	96.0	70	130				
Bromodichloromethane	1.170	0.15	1	0	117	70	130				
Bromoform	1.080	0.15	1	0	108	70	130				
Bromomethane	1.190	0.15	1	0	119	70	130				
Carbon disulfide	1.170	0.15	1	0	117	70	130				
Carbon tetrachloride	1.220	0.040	1	0	122	70	130				
Chlorobenzene	1.020	0.15	1	0	102	70	130				
Chloroethane	1.270	0.15	1	0	127	70	130				
Chloroform	1.180	0.15	1	0	118	70	130				
Chloromethane	1.250	0.15	1	0	125	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	1.100	0.15	1	0	110	70	130				
Dibromochloromethane	1.090	0.15	1	0	109	70	130				
Ethyl acetate	1.140	0.25	1	0	114	70	130				
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	0.8300	0.15	1	0	83.0	70	130				
Freon 114	1.170	0.15	1	0	117	70	130				
Freon 12	1.150	0.15	1	0	115	70	130				
Heptane	1.030	0.15	1	0	103	70	130				
Hexachloro-1,3-butadiene	1.520	0.15	1	0	152	70	130				S
Hexane	1.040	0.15	1	0	104	70	130				
Isopropyl alcohol	0.8000	0.15	1	0	80.0	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9700	0.30	1	0	97.0	70	130				
Methyl Isobutyl Ketone	0.9600	0.30	1	0	96.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-051211	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.190	0.15	1	0	119	70	130				
Methylene chloride	1.120	0.15	1	0	112	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	1.070	0.15	1	0	107	70	130				
Styrene	0.9400	0.15	1	0	94.0	70	130				
Tetrachloroethylene	0.9800	0.15	1	0	98.0	70	130				
Tetrahydrofuran	0.9800	0.15	1	0	98.0	70	130				
Toluene	1.040	0.15	1	0	104	70	130				
trans-1,2-Dichloroethene	1.140	0.15	1	0	114	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.040	1	0	110	70	130				
Vinyl acetate	1.180	0.15	1	0	118	70	130				
Vinyl Bromide	1.240	0.15	1	0	124	70	130				
Vinyl chloride	1.120	0.040	1	0	112	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *04-Jun-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-051011	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/11/2011	SeqNo:	54194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130	1.25	10.6	30	S
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130	0.94	22.6	30	
1,1,2-Trichloroethane	1.290	0.15	1	0	129	70	130	0.99	26.3	30	
1,1-Dichloroethane	1.230	0.15	1	0	123	70	130	1.23	0	30	
1,1-Dichloroethene	1.140	0.15	1	0	114	70	130	1.11	2.67	30	
1,2,4-Trichlorobenzene	1.700	0.15	1	0	170	70	130	1.63	4.20	30	S
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	0.88	10.8	30	
1,2-Dibromoethane	1.150	0.15	1	0	115	70	130	0.93	21.2	30	
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
1,2-Dichloroethane	1.220	0.15	1	0	122	70	130	1.08	12.2	30	
1,2-Dichloropropane	1.270	0.15	1	0	127	70	130	1.1	14.3	30	
1,3,5-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	0.88	7.65	30	
1,3-butadiene	1.230	0.15	1	0	123	70	130	1.09	12.1	30	
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1	10.4	30	
1,4-Dichlorobenzene	1.100	0.15	1	0	110	70	130	0.99	10.5	30	
1,4-Dioxane	1.060	0.30	1	0	106	70	130	0.95	10.9	30	
2,2,4-trimethylpentane	1.250	0.15	1	0	125	70	130	1.15	8.33	30	
4-ethyltoluene	0.9000	0.15	1	0	90.0	70	130	0.87	3.39	30	
Acetone	1.100	0.30	1	0	110	70	130	1.08	1.83	30	
Allyl chloride	1.200	0.15	1	0	120	70	130	1.2	0	30	
Benzene	1.220	0.15	1	0	122	70	130	1.07	13.1	30	
Benzyl chloride	1.230	0.15	1	0	123	70	130	1.15	6.72	30	
Bromodichloromethane	1.320	0.15	1	0	132	70	130	1.01	26.6	30	S
Bromoform	1.130	0.15	1	0	113	70	130	0.94	18.4	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.01	18.8	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-051011	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/11/2011	SeqNo:	54194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Carbon tetrachloride	1.370	0.040	1	0	137	70	130	1.03	28.3	30	S
Chlorobenzene	1.060	0.15	1	0	106	70	130	0.94	12.0	30	
Chloroethane	1.200	0.15	1	0	120	70	130	1.04	14.3	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.12	4.37	30	
Chloromethane	1.200	0.15	1	0	120	70	130	1.05	13.3	30	
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130	1.07	2.76	30	
cis-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130	1.12	11.0	30	
Cyclohexane	1.090	0.15	1	0	109	70	130	0.98	10.6	30	
Dibromochloromethane	1.120	0.15	1	0	112	70	130	0.89	22.9	30	
Ethyl acetate	1.180	0.25	1	0	118	70	130	1.2	1.68	30	
Ethylbenzene	0.9700	0.15	1	0	97.0	70	130	0.93	4.21	30	
Freon 11	1.190	0.15	1	0	119	70	130	1	17.4	30	
Freon 113	1.230	0.15	1	0	123	70	130	1.1	11.2	30	
Freon 114	1.170	0.15	1	0	117	70	130	1.01	14.7	30	
Freon 12	1.210	0.15	1	0	121	70	130	1.07	12.3	30	
Heptane	1.060	0.15	1	0	106	70	130	0.96	9.90	30	
Hexachloro-1,3-butadiene	1.680	0.15	1	0	168	70	130	1.36	21.1	30	S
Hexane	0.9800	0.15	1	0	98.0	70	130	1.05	6.90	30	
Isopropyl alcohol	1.050	0.15	1	0	105	70	130	1.07	1.89	30	
m&p-Xylene	2.000	0.30	2	0	100	70	130	1.93	3.56	30	
Methyl Butyl Ketone	1.020	0.30	1	0	102	70	130	1.1	7.55	30	
Methyl Ethyl Ketone	1.120	0.30	1	0	112	70	130	1.01	10.3	30	
Methyl Isobutyl Ketone	1.040	0.30	1	0	104	70	130	1.08	3.77	30	
Methyl tert-butyl ether	1.100	0.15	1	0	110	70	130	1.42	25.4	30	
Methylene chloride	1.190	0.15	1	0	119	70	130	1.08	9.69	30	
o-Xylene	0.9500	0.15	1	0	95.0	70	130	0.88	7.65	30	
Propylene	1.080	0.15	1	0	108	70	130	1.04	3.77	30	
Styrene	0.9400	0.15	1	0	94.0	70	130	0.91	3.24	30	
Tetrachloroethylene	1.070	0.15	1	0	107	70	130	0.82	26.5	30	
Tetrahydrofuran	0.8000	0.15	1	0	80.0	70	130	0.96	18.2	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-051011	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541	
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/11/2011	SeqNo:	54194	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.040	0.15	1	0	104	70	130	1	3.92	30	
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130	1.07	3.67	30	
trans-1,3-Dichloropropene	1.180	0.15	1	0	118	70	130	1.13	4.33	30	
Trichloroethene	1.200	0.040	1	0	120	70	130	0.96	22.2	30	
Vinyl acetate	1.040	0.15	1	0	104	70	130	1.26	19.1	30	
Vinyl Bromide	1.320	0.15	1	0	132	70	130	1.15	13.8	30	S
Vinyl chloride	1.170	0.040	1	0	117	70	130	1.03	12.7	30	

Qualifiers:

- . Results reported are not blank corrected
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051011	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/10/2011	SeqNo:	54192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051011	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/10/2011	SeqNo:	54192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

- . Results reported are not blank corrected
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID AMB1UG-051011	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/10/2011	SeqNo: 54192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									
Surr: Bromofluorobenzene	0.8800	0	1	0	88.0	70	130				

Sample ID AMB1UG-051211	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4542
Client ID: ZZZZZ	Batch ID: R4542	TestNo: TO-15		Analysis Date: 5/12/2011	SeqNo: 54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051211	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID AMB1UG-051211	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4542
Client ID: ZZZZZ	Batch ID: R4542	TestNo: TO-15		Analysis Date: 5/12/2011	SeqNo: 54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									
Surr: Bromofluorobenzene	0.8500	0	1	0	85.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	11	1.5		ppbV	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.13	0.15	J	ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	0.50	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
4-ethyltoluene	0.93	0.15		ppbV	1	5/10/2011 6:00:00 PM
Acetone	22	3.0		ppbV	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzene	0.49	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	0.16	0.040		ppbV	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroform	3.7	1.5		ppbV	10	5/10/2011 11:27:00 PM
Chloromethane	1.7	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.22	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Cyclohexane	1.4	0.15		ppbV	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:00:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT: FPM Group
Lab Order: C1105011
Project: Griffis AFB B774/B776 SSVM
Lab ID: C1105011-001A

Client Sample ID: 774VMP0101AA
Tag Number: 131,372
Collection Date: 5/4/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.32	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 11	5.5	1.5		ppbV	10	5/10/2011 11:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 12	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
o-Xylene	0.55	0.15		ppbV	1	5/10/2011 6:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.14	0.15	J	ppbV	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	1.0	0.15		ppbV	1	5/10/2011 6:00:00 PM
Toluene	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Trichloroethene	110	3.6		ppbV	90	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:00:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	59	8.3		ug/m3	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.53	0.62	J	ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	2.5	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:00:00 PM
4-ethyltoluene	4.6	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Acetone	54	7.2		ug/m3	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:00:00 PM
Benzene	1.6	0.49		ug/m3	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	1.0	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:00:00 PM
Chloroform	18	7.4		ug/m3	10	5/10/2011 11:27:00 PM
Chloromethane	3.5	0.31		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.89	0.60		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Freon 11	31	8.6		ug/m3	10	5/10/2011 11:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.1	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 6:00:00 PM
m&p-Xylene	5.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:00:00 PM
o-Xylene	2.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.97	1.0	J	ug/m3	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	3.1	0.45		ug/m3	1	5/10/2011 6:00:00 PM
Toluene	1.6	0.57		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Trichloroethene	580	20		ug/m3	90	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:00:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051008.D Vial: 21
Acq On : 10 May 2011 6:00 pm Operator: RJP
Sample : C1105011-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 18:21:17 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

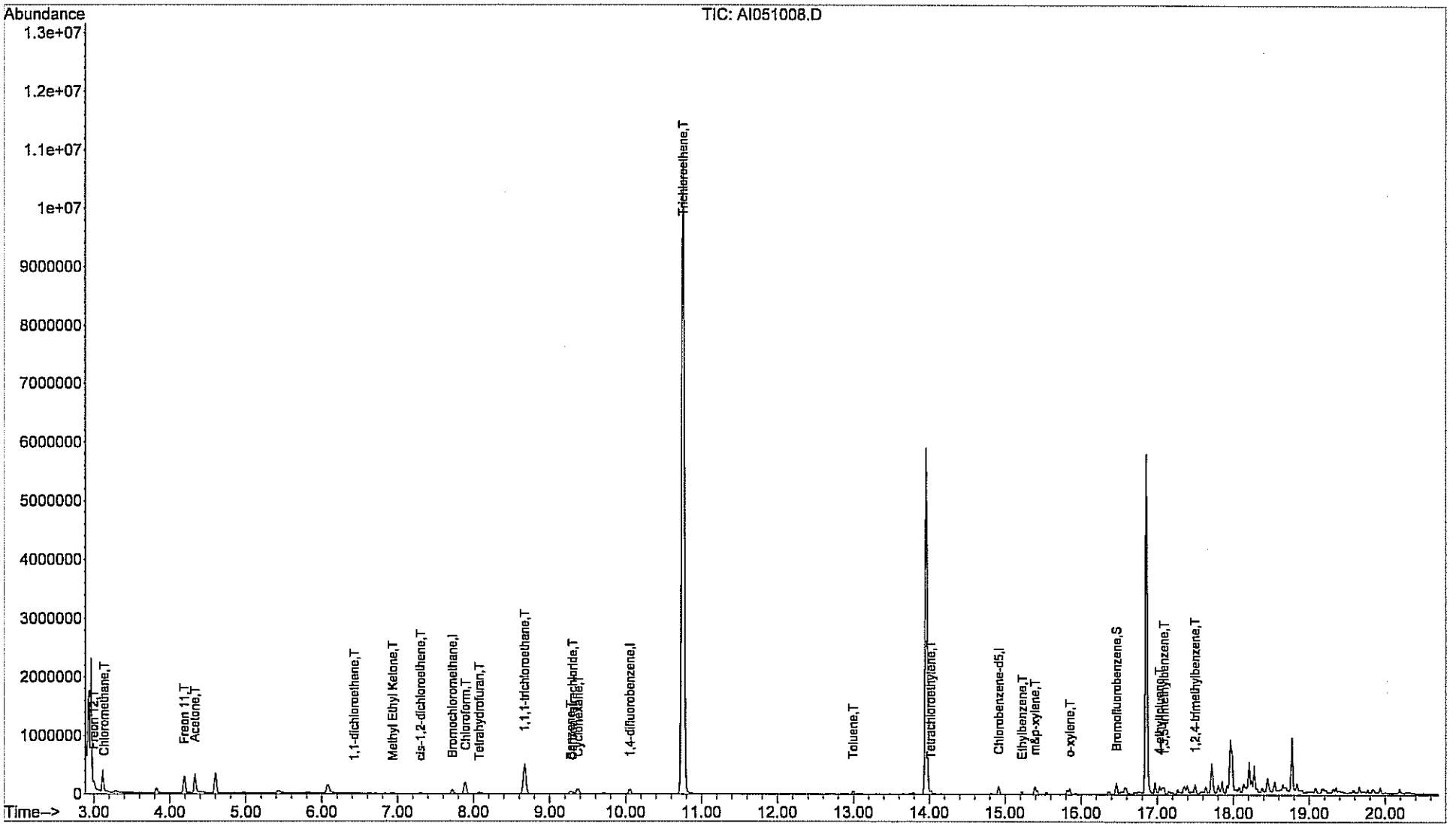
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	21864	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.05	114	75551	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	72663	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	49994	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	37795	0.42	ppb		97
4) Chloromethane	3.14	50	31762	1.66	ppb		93
13) Freon 11	4.19	101	228094	3.59	ppb		100
14) Acetone	4.33	58	115755	16.39	ppb		91
23) 1,1-dichloroethane	6.42	63	5465	0.13	ppb		95
25) Methyl Ethyl Ketone	6.93	72	4563	0.57	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	7175	0.22	ppb		97
29) Chloroform	7.89	83	177062	2.64	ppb		99
30) Tetrahydrofuran	8.08	42	15752	1.02	ppb		97
33) 1,1,1-trichloroethane	8.67	97	380763	6.85	ppb		98
34) Cyclohexane	9.37	56	39122	1.38	ppb	#	69
35) Carbon tetrachloride	9.31	117	14135	0.16	ppb		94
36) Benzene	9.27	78	36293	0.49	ppb		99
41) Trichloroethene	10.75	130	4834564	94.29	ppb		99
48) Toluene	12.99	92	21283	0.42	ppb		99
53) Tetrachloroethylene	14.02	164	8947	0.14	ppb		98
55) Ethylbenzene	15.22	91	31521	0.32	ppb		100
56) m&p-xylene	15.39	91	100322	1.20	ppb		100
59) o-xylene	15.85	91	52134	0.55	ppb		99
63) 4-ethyltoluene	17.03	105	73234m	0.93	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	40141	0.50	ppb		100
65) 1,2,4-trimethylbenzene	17.50	105	71930	1.34	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

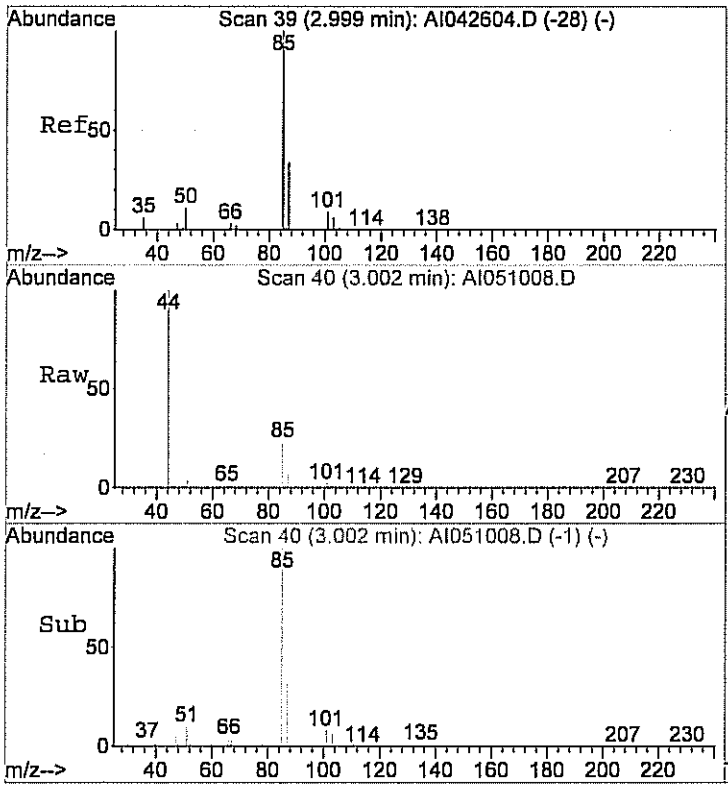
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051008.D Vial: 21
Acq On : 10 May 2011 6:00 pm Operator: RJP
Sample : C1105011-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 9:54 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



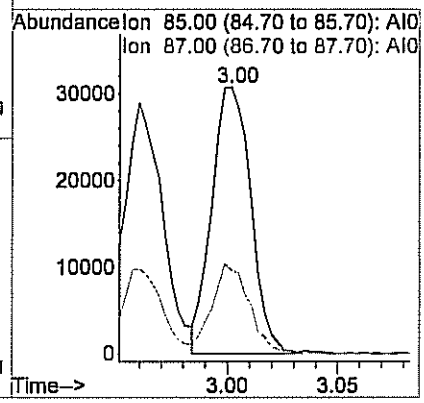
Centek laboratories, LLC

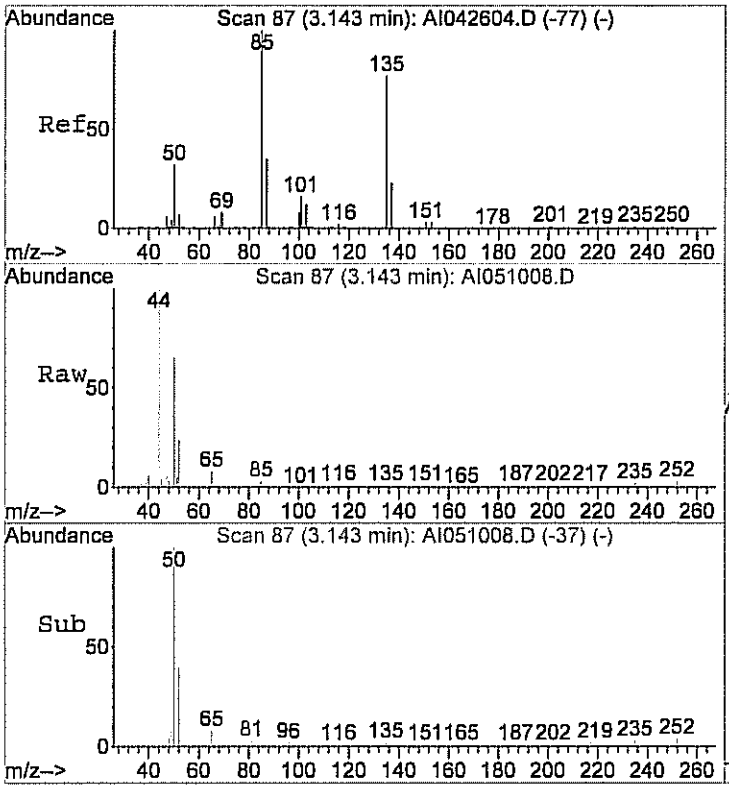


#3
Freon 12
Concen: 0.42 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 85 Resp: 37795

Ion	Ratio	Lower	Upper
85	100		
87	31.7	13.2	53.2

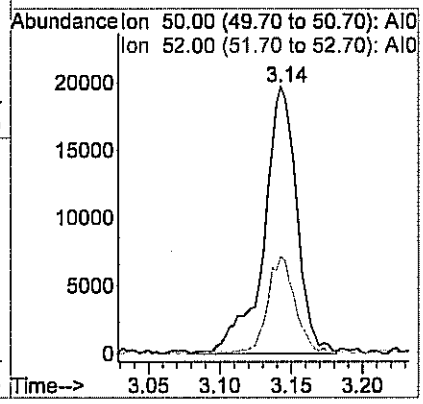


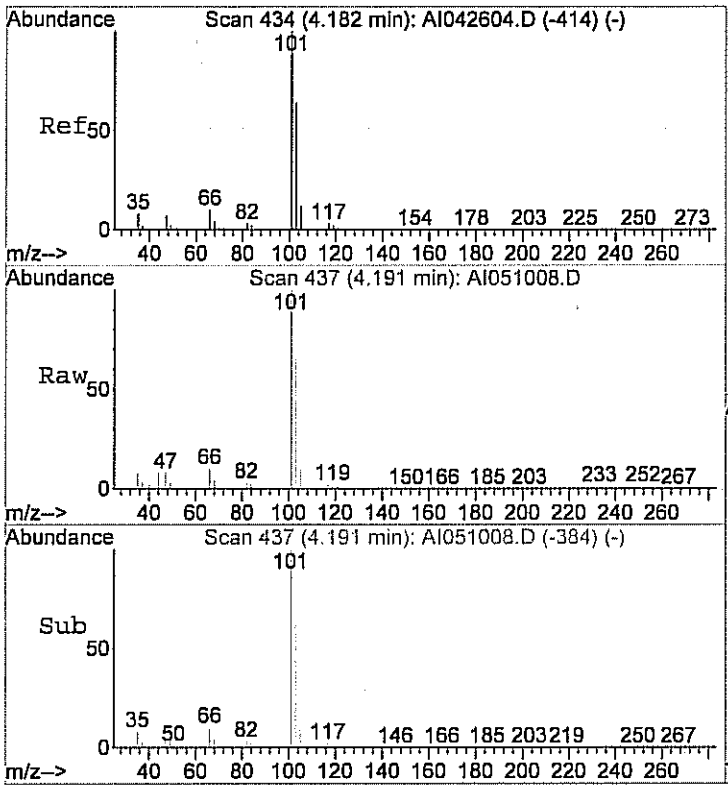


#4
Chloromethane
Concen: 1.66 ppb
RT: 3.14 min Scan# 87
Delta R.T. -0.00 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 50 Resp: 31762

Ion	Ratio	Lower	Upper
50	100		
52	31.0	7.1	47.1

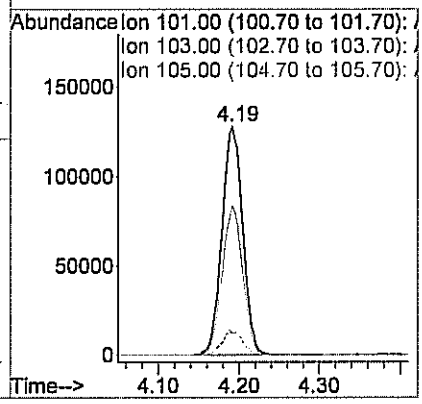


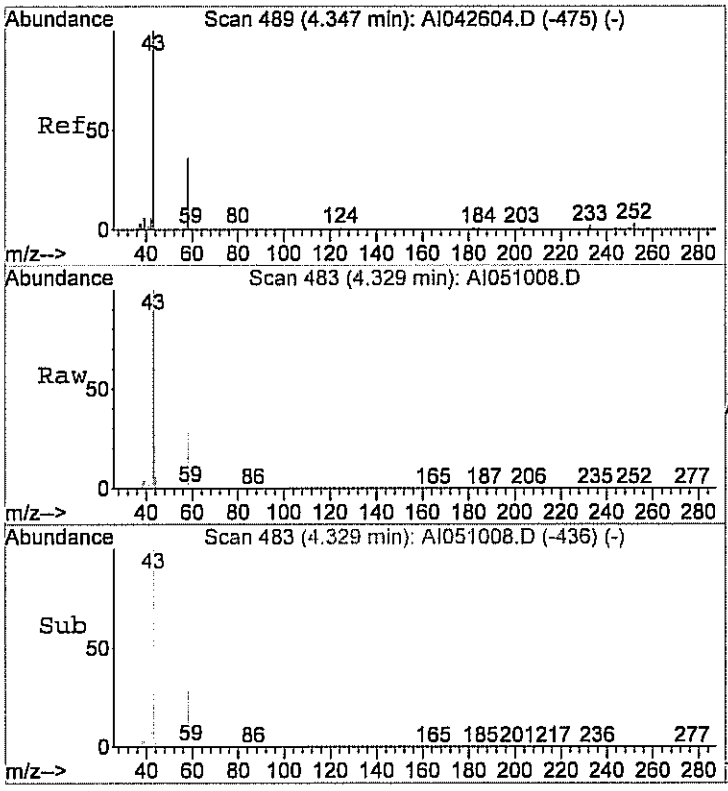


#13
Freon 11
Concen: 3.59 ppb
RT: 4.19 min Scan# 437
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:101 Resp: 228094

Ion	Ratio	Lower	Upper
101	100		
103	65.0	45.1	85.1
105	10.6	0.0	31.5

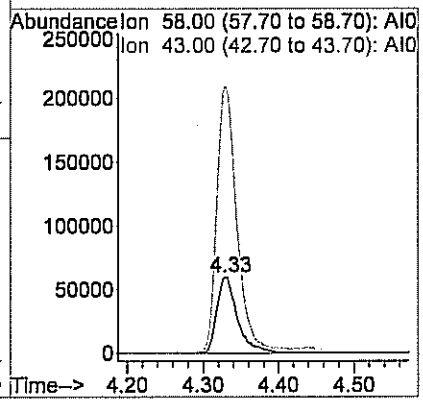


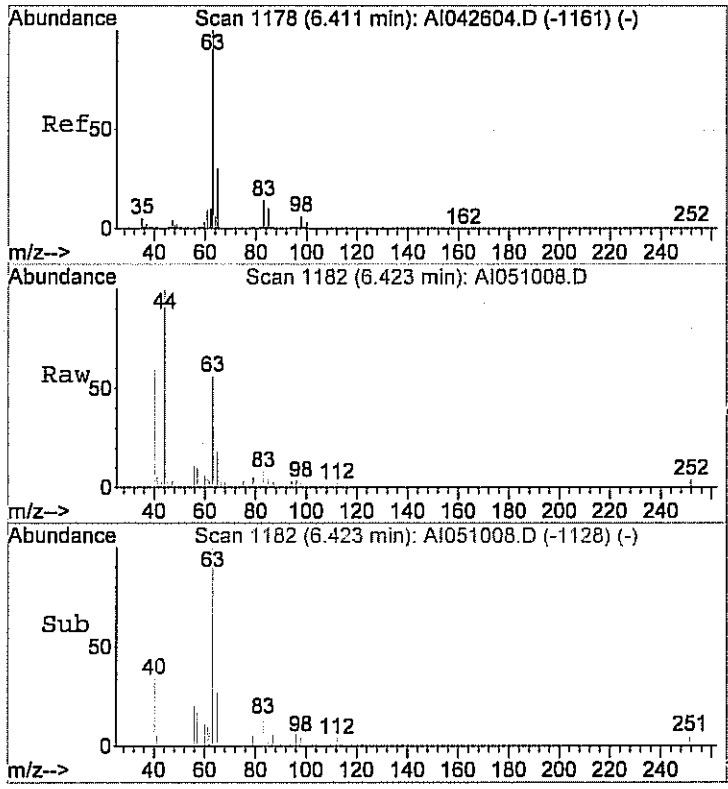


#14
Acetone
Concen: 16.39 ppb
RT: 4.33 min Scan# 483
Delta R.T. -0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 58 Resp: 115755

Ion	Ratio	Lower	Upper
58	100		
43	344.2	333.6	393.6

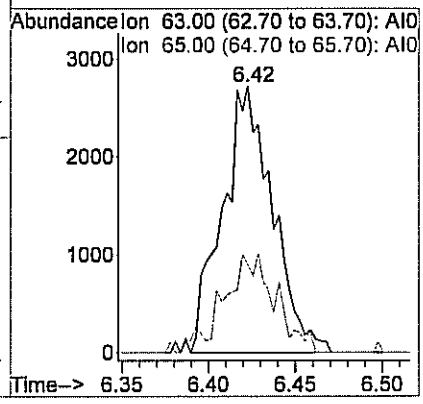


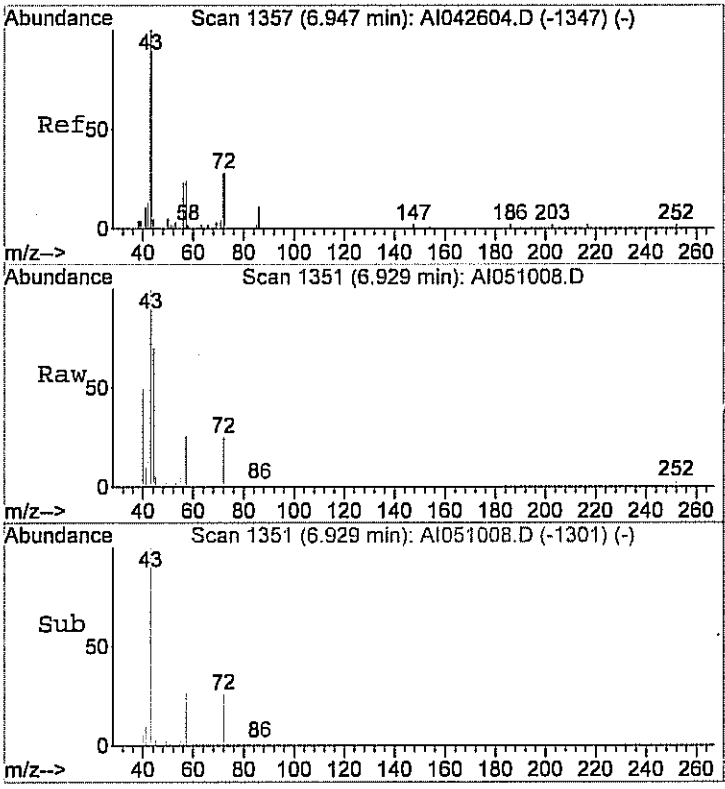


#23
1,1-dichloroethane
Concen: 0.13 ppb
RT: 6.42 min Scan# 1182
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 63 Resp: 5465

Ion	Ratio	Lower	Upper
63	100		
65	34.9	11.9	51.9

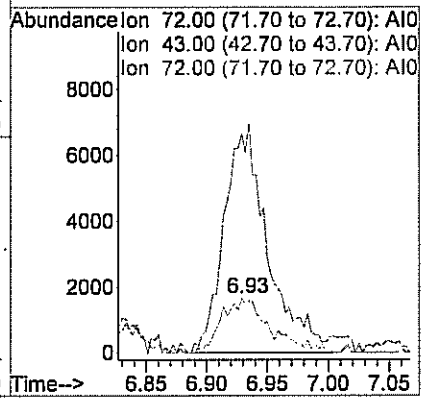


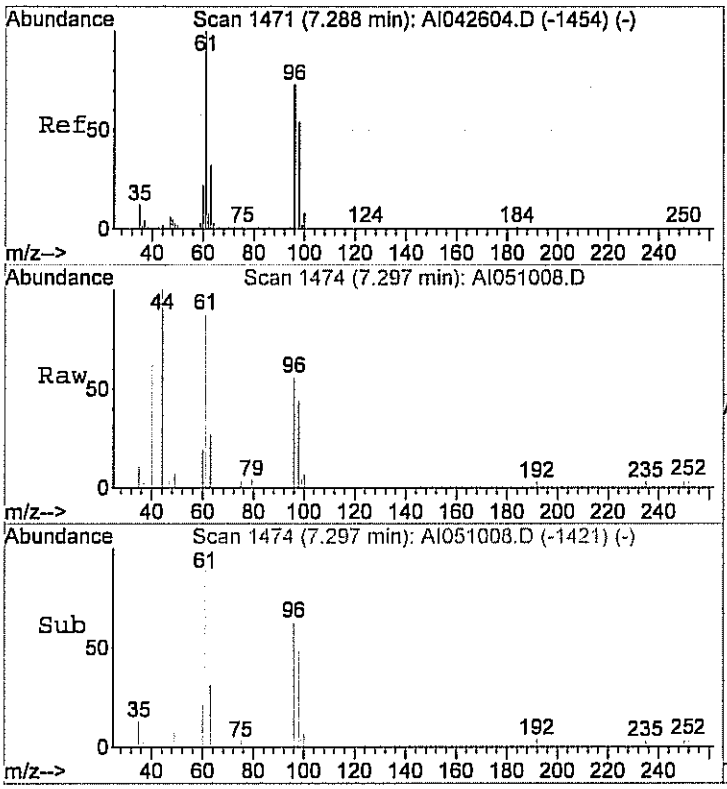


#25
Methyl Ethyl Ketone
Concen: 0.57 ppb
RT: 6.93 min Scan# 1351
Delta R.T. -0.00 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 72 Resp: 4563

Ion	Ratio	Lower	Upper
72	100		
43	389.9	0.0	20.0#
72	100.0	80.0	120.0

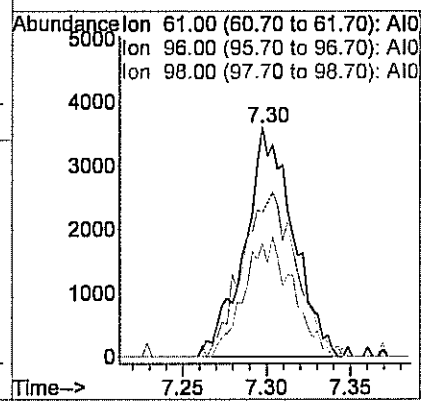


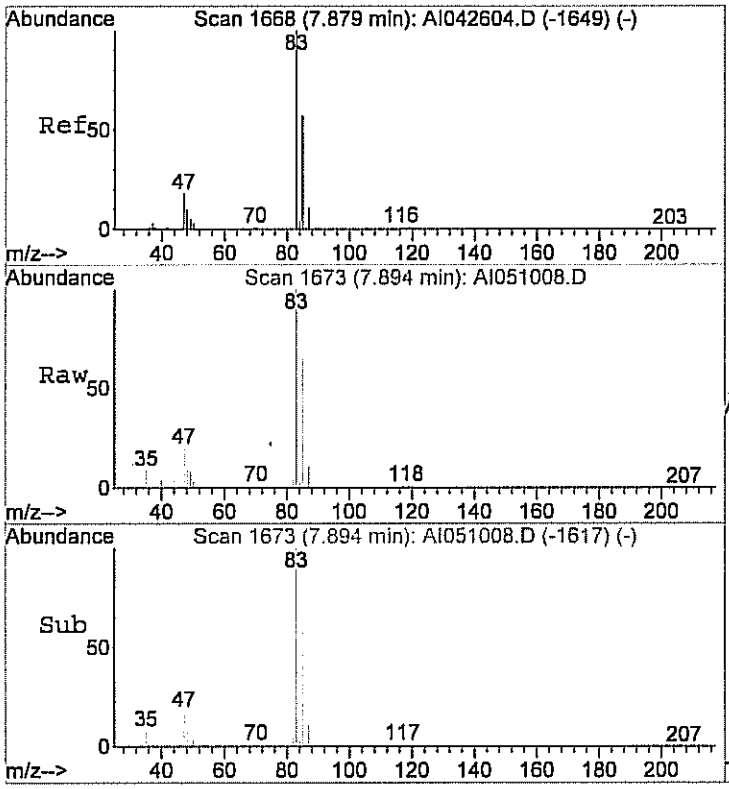


#26
cis-1,2-dichloroethene
Concen: 0.22 ppb
RT: 7.30 min Scan# 1474
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 61 Resp: 7175

Ion	Ratio	Lower	Upper
61	100		
96	80.8	63.1	103.1
98	51.7	35.0	75.0

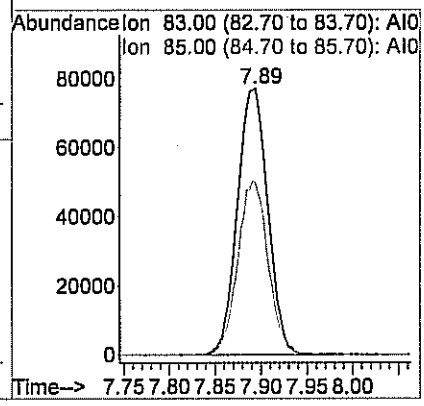


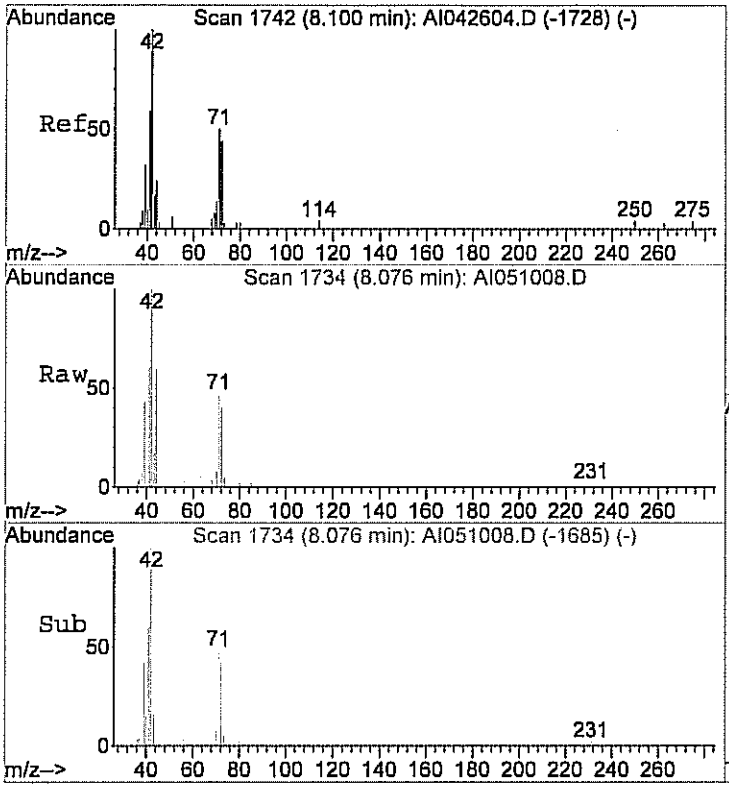


#29
Chloroform
Concen: 2.64 ppb
RT: 7.89 min Scan# 1673
Delta R.T. 0.02 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 83 Resp: 177062

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.9	85.9

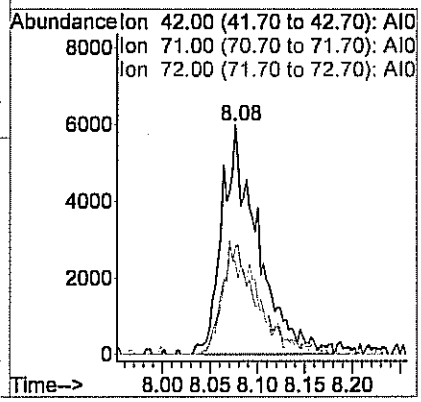


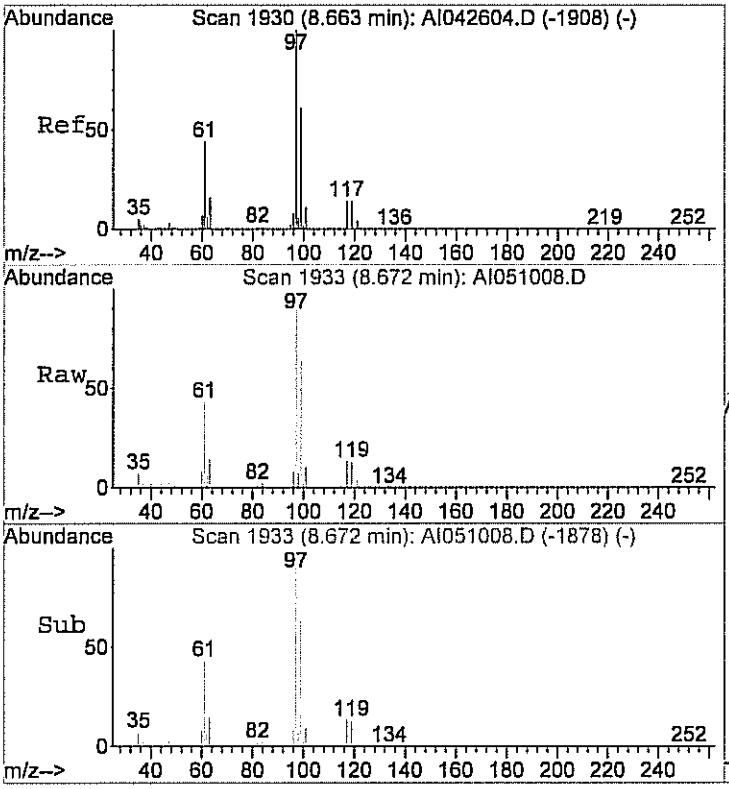


#30
Tetrahydrofuran
Concen: 1.02 ppb
RT: 8.08 min Scan# 1734
Delta R.T. -0.00 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 42 Resp: 15752

Ion	Ratio	Lower	Upper
42	100		
71	48.8	28.4	68.4
72	45.0	29.0	69.0

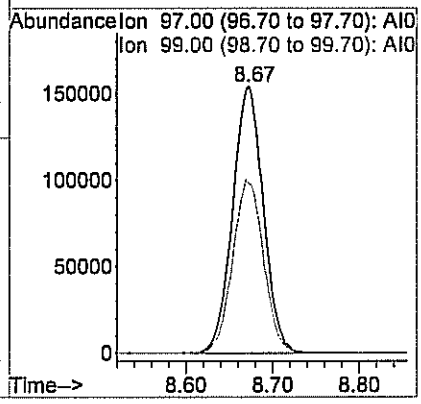


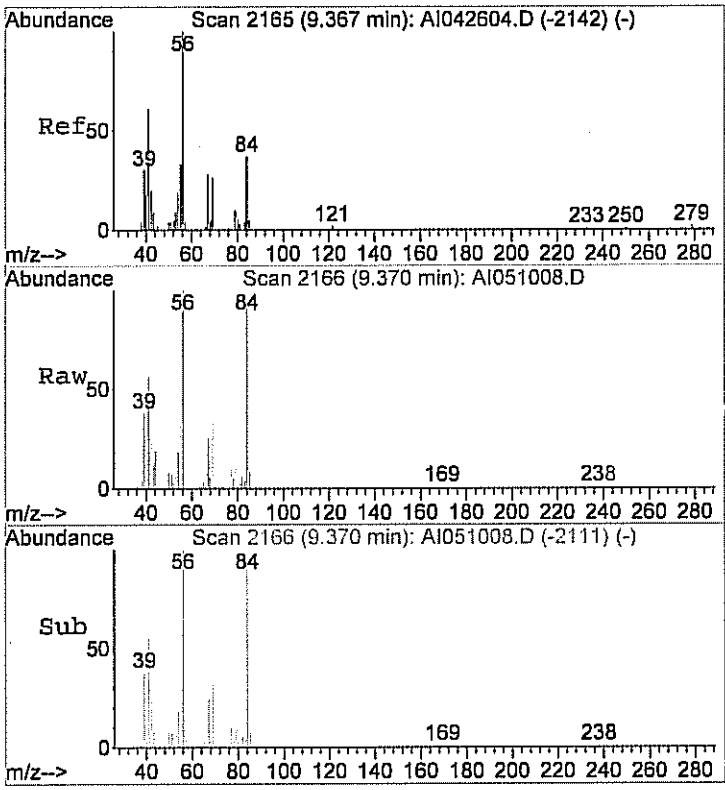


#33
1,1,1-trichloroethane
Concen: 6.85 ppb
RT: 8.67 min Scan# 1933
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 97 Resp: 380763

Ion	Ratio	Lower	Upper
97	100		
99	65.4	47.3	87.3

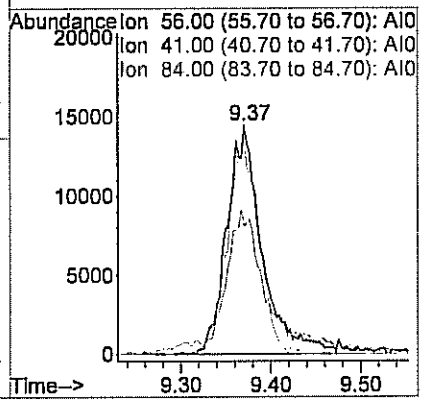


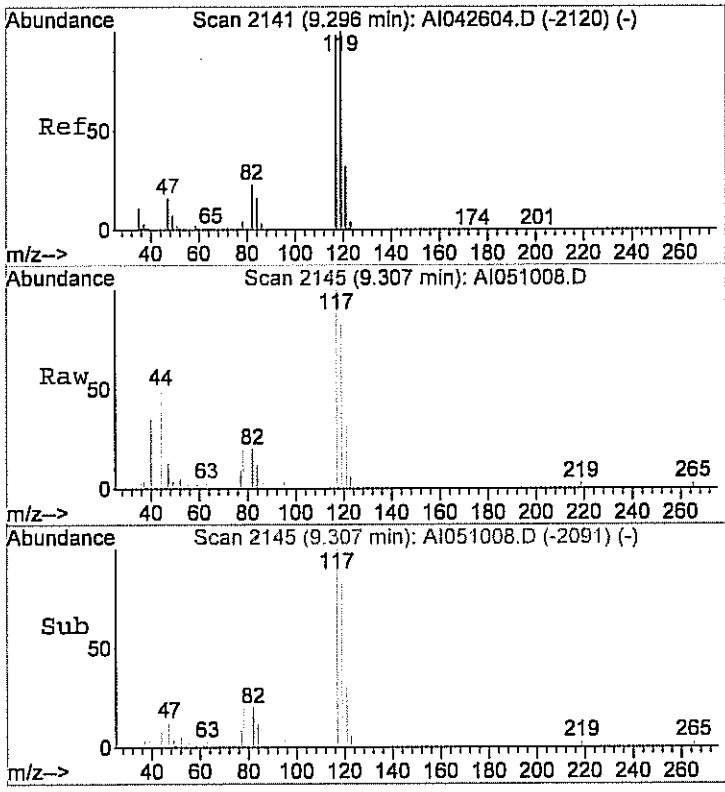


#34
Cyclohexane
Concen: 1.38 ppb
RT: 9.37 min Scan# 2166
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 56 Resp: 39122

Ion	Ratio	Lower	Upper
56	100		
41	74.2	46.1	86.1
84	82.2	110.9	150.9#

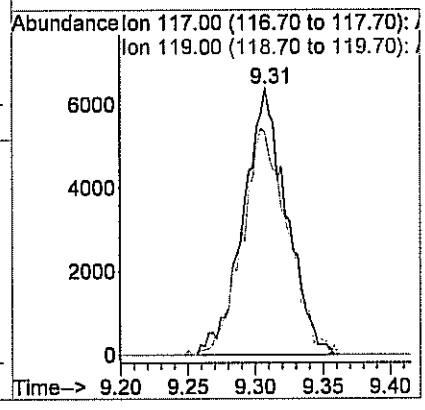


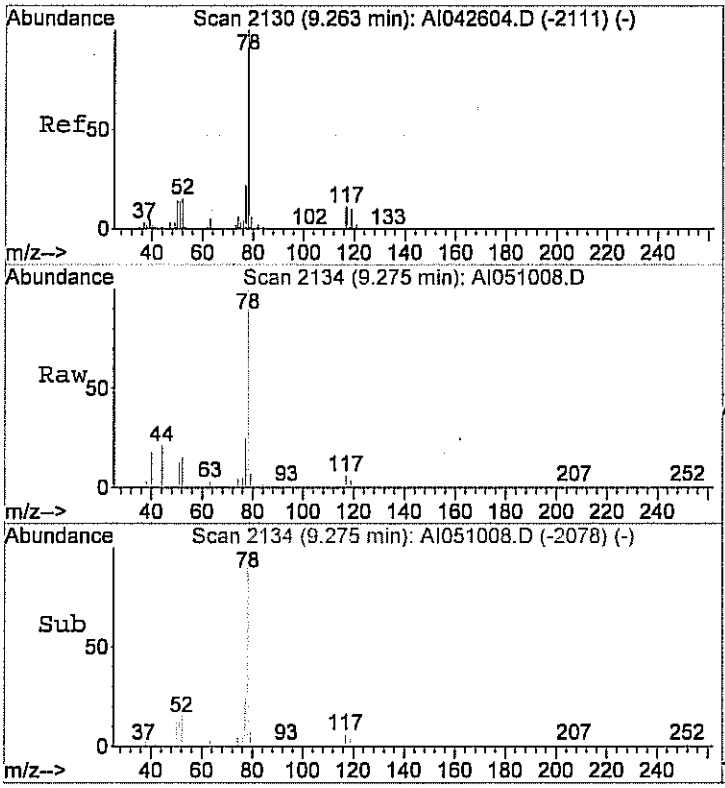


#35
Carbon tetrachloride
Concen: 0.16 ppb
RT: 9.31 min Scan# 2145
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:117 Resp: 14135

Ion	Ratio	Lower	Upper
117	100		
119	89.7	75.8	115.8

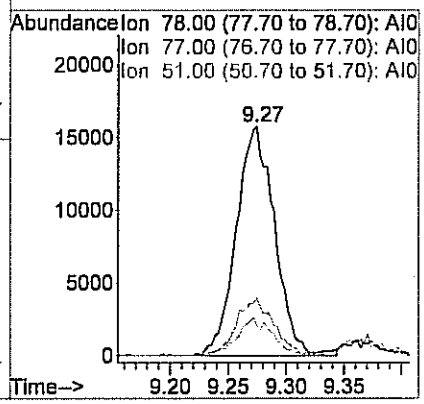


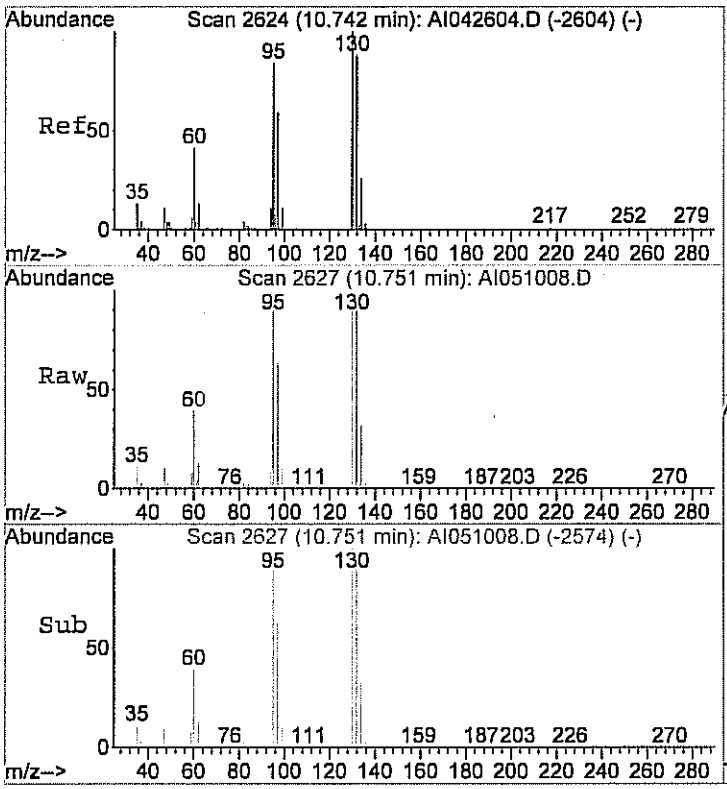


#36
Benzene
Concen: 0.49 ppb
RT: 9.27 min Scan# 2134
Delta R.T. 0.02 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 78 Resp: 36293

Ion	Ratio	Lower	Upper
78	100		
77	24.1	3.4	43.4
51	15.3	0.0	35.0

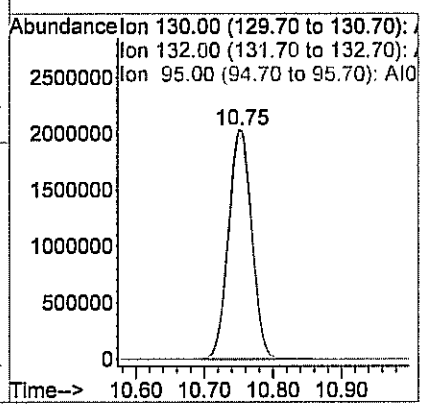


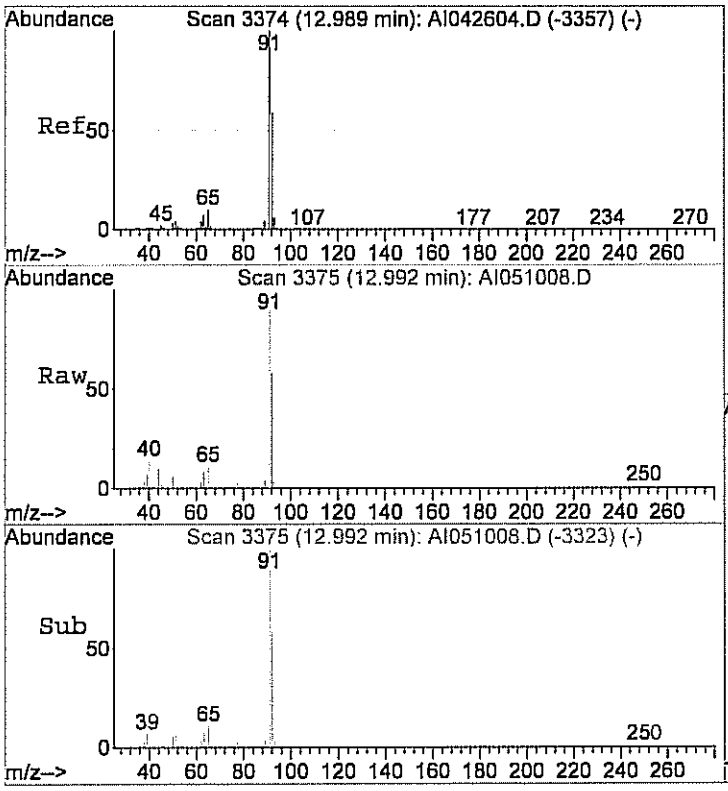


#41
Trichloroethene
Concen: 94.29 ppb
RT: 10.75 min Scan# 2627
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:130 Resp: 4834564

Ion	Ratio	Lower	Upper
130	100		
132	97.2	75.8	115.8
95	96.1	76.8	116.8

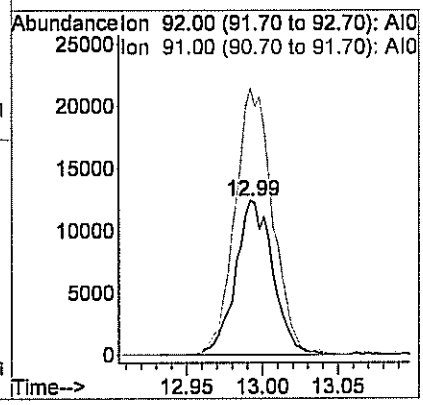


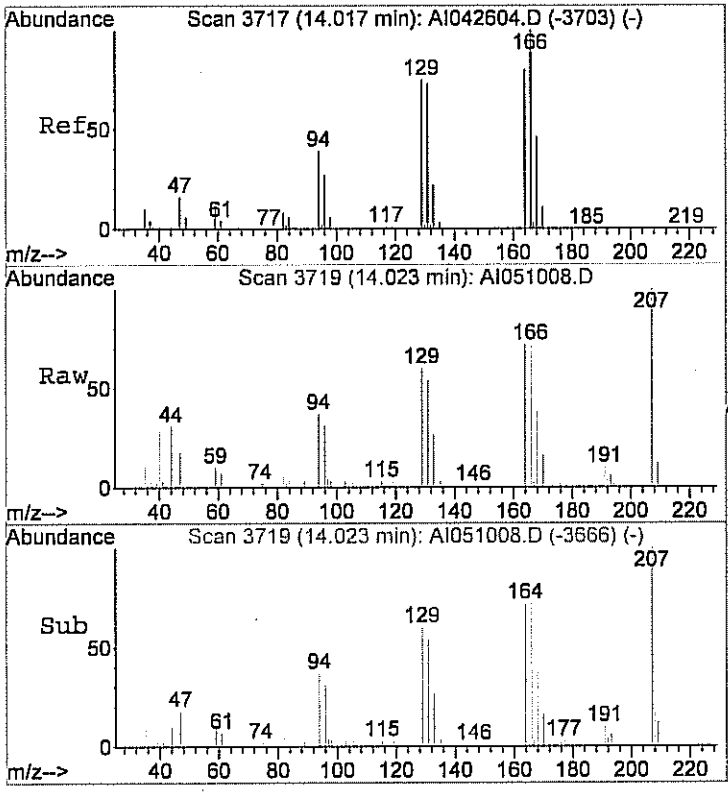


#48
Toluene
Concen: 0.42 ppb
RT: 12.99 min Scan# 3375
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 92 Resp: 21283

Ion	Ratio	Lower	Upper
92	100		
91	174.6	152.8	192.8

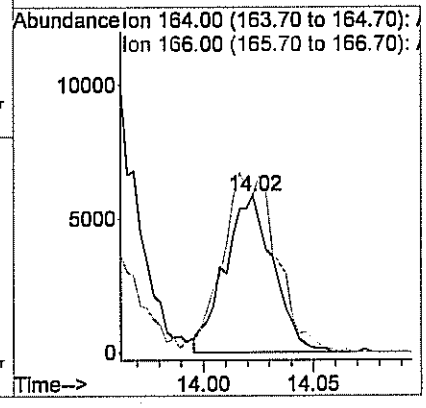


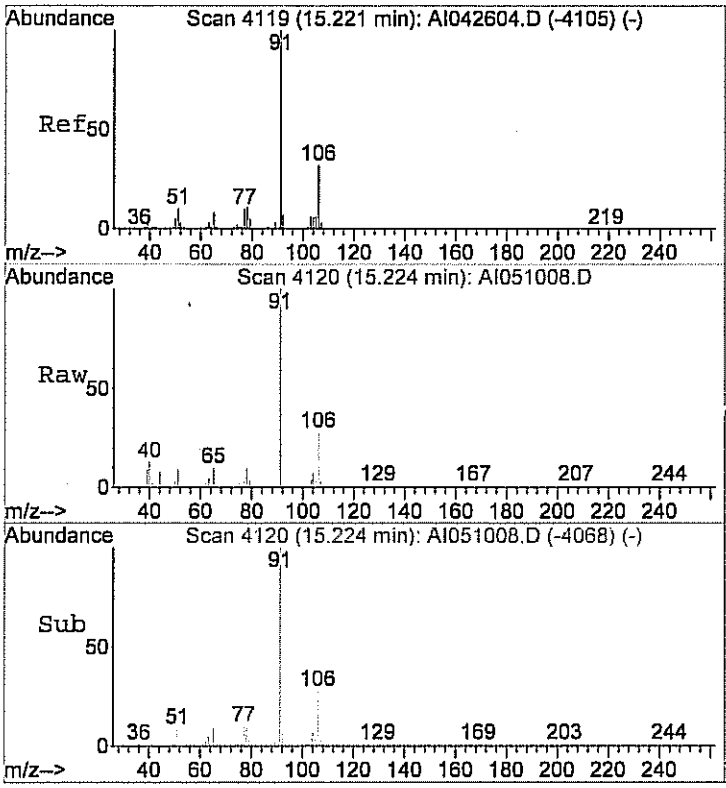


#53
Tetrachloroethylene
Concen: 0.14 ppb
RT: 14.02 min Scan# 3719
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:164 Resp: 8947

Ion	Ratio	Lower	Upper
164	100		
166	127.9	105.5	145.5

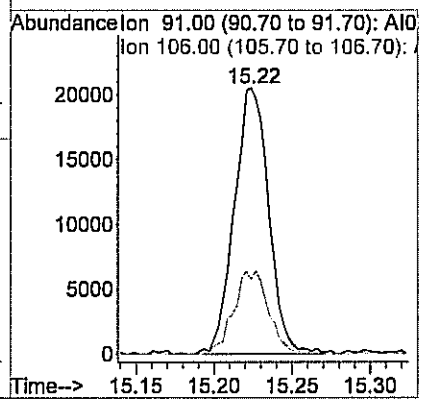


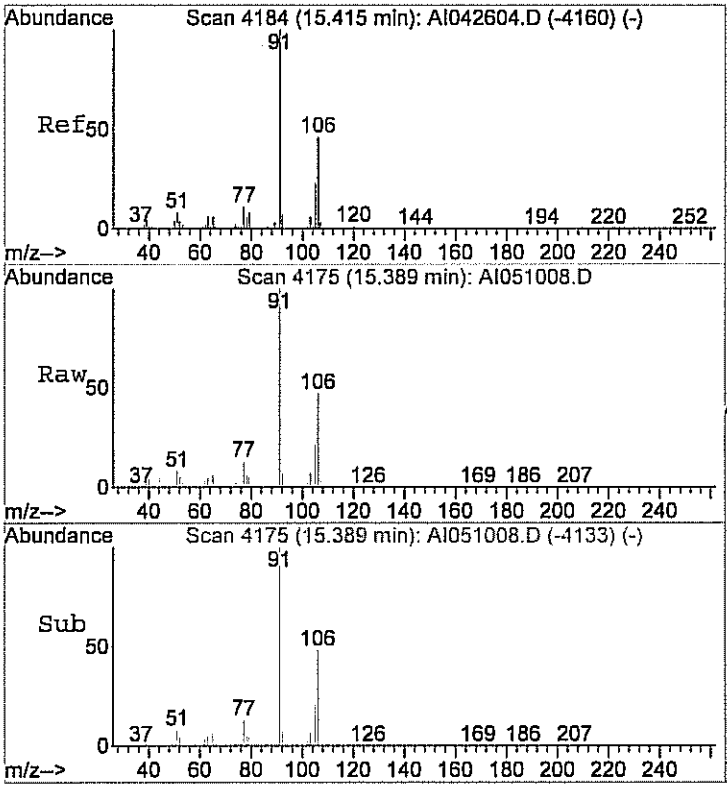


#55
Ethylbenzene
Concen: 0.32 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 91 Resp: 31521

Ion	Ratio	Lower	Upper
91	100		
106	31.6	11.8	51.8

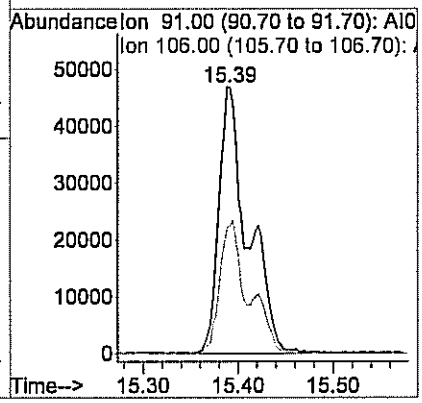


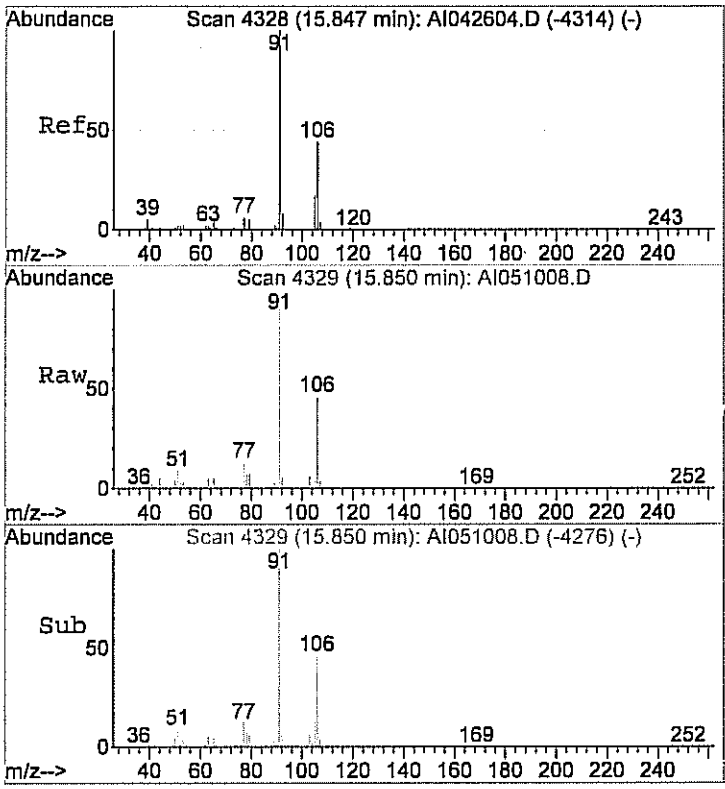


#56
m&p-xylene
Concen: 1.20 ppb
RT: 15.39 min Scan# 4175
Delta R.T. -0.02 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 91 Resp: 100322

Ion	Ratio	Lower	Upper
91	100		
106	48.5	28.7	68.7

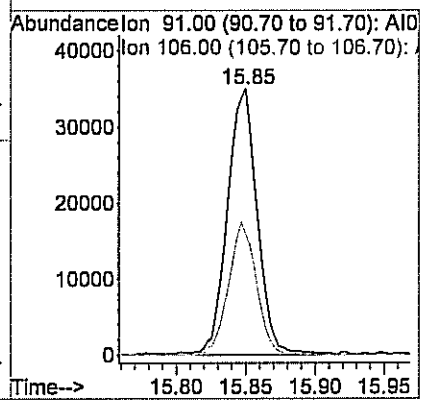


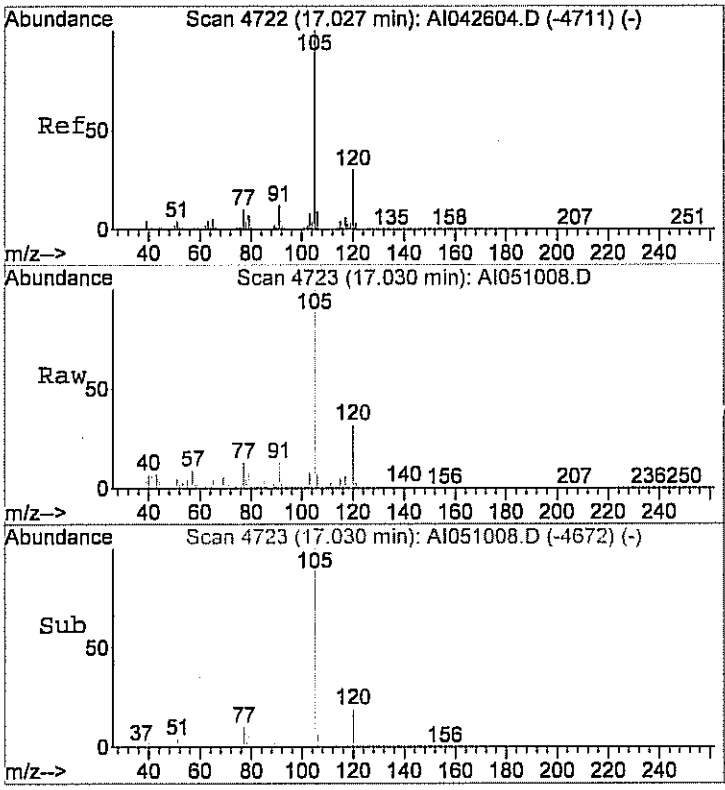


#59
o-xylene
Concen: 0.55 ppb
RT: 15.85 min Scan# 4329
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion: 91 Resp: 52134

Ion	Ratio	Lower	Upper
91	100		
106	46.2	25.6	65.6

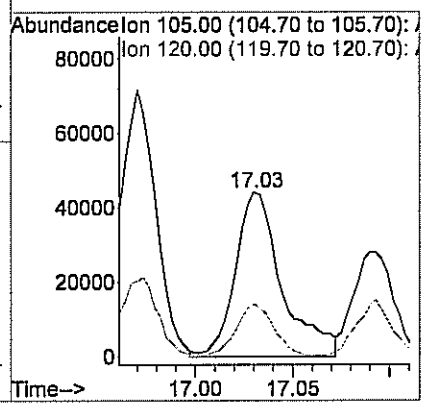


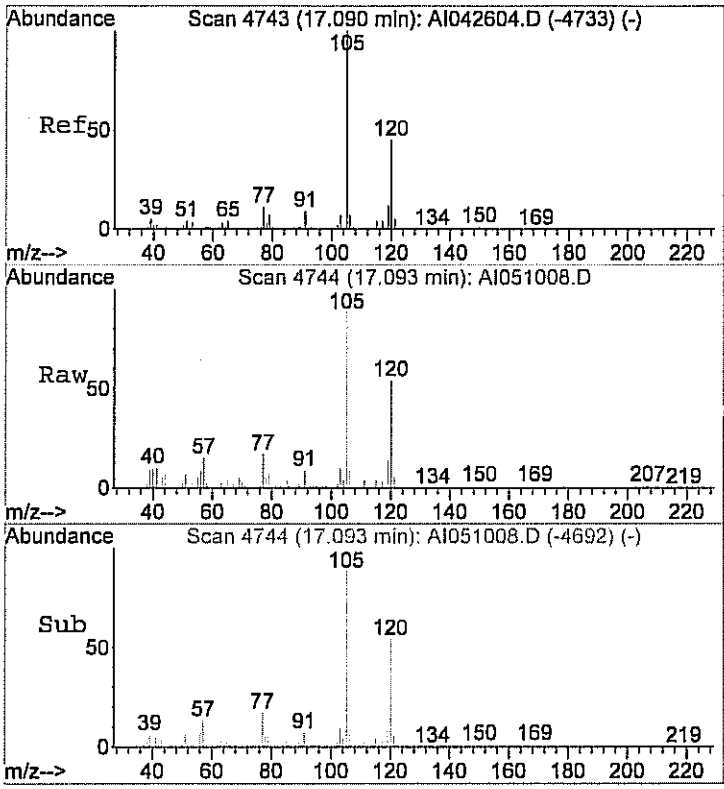


#63
4-ethyltoluene
Concen: 0.93 ppb m
RT: 17.03 min Scan# 4723
Delta R.T. 0.00 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:105 Resp: 73234

Ion	Ratio	Lower	Upper
105	100		
120	26.1	26.5	66.5#

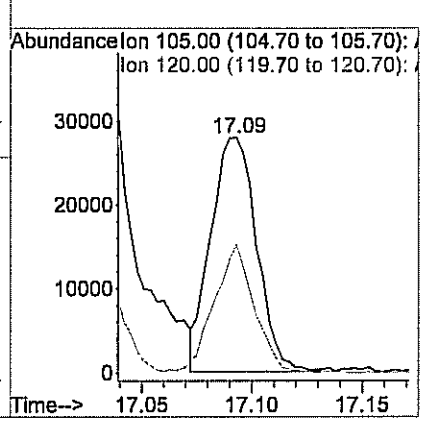


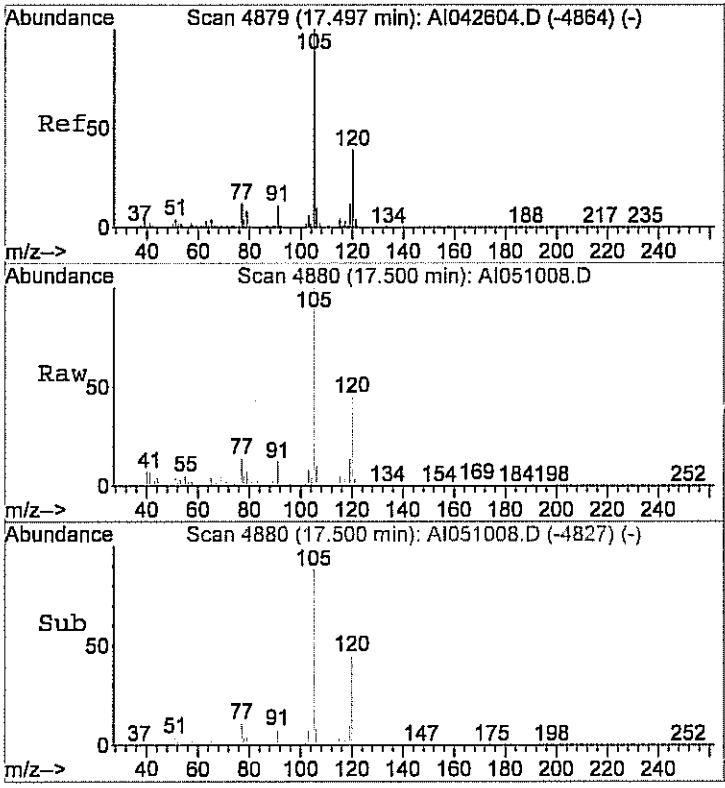


#64
1,3,5-trimethylbenzene
Concen: 0.50 ppb
RT: 17.09 min Scan# 4744
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:105 Resp: 40141

Ion	Ratio	Lower	Upper
105	100		
120	47.6	27.4	67.4

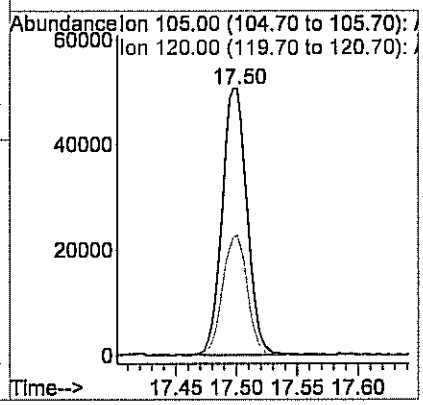




#65
1,2,4-trimethylbenzene
Concen: 1.34 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051008.D
Acq: 10 May 2011 6:00 pm

Tgt Ion:105 Resp: 71930

Ion	Ratio	Lower	Upper
105	100		
120	45.1	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051017.D Vial: 21
Acq On : 10 May 2011 11:27 pm Operator: RJP
Sample : C1105011-001A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 23:48:04 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

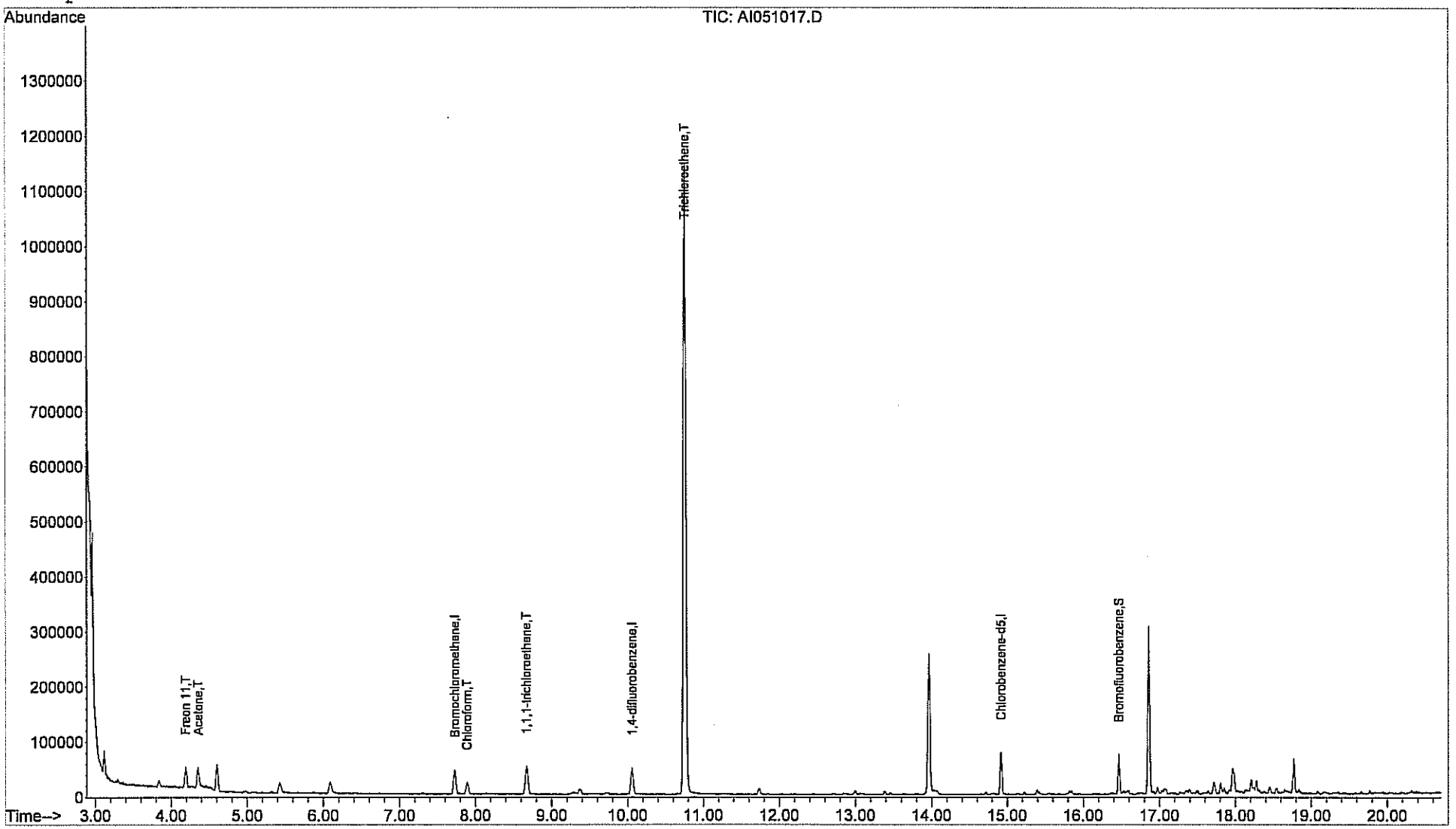
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	16576	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.06	114	48412	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	44337	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	19111	0.78	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 78.00%			
Target Compounds						Qvalue
13) Freon 11	4.19	101	26675	0.55	ppb	98
14) Acetone	4.35	58	11867m	2.22	ppb	
29) Chloroform	7.90	83	18884	0.37	ppb	97
33) 1,1,1-trichloroethane	8.67	97	37695	1.06	ppb	98
41) Trichloroethene	10.75	130	497135	15.13	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051017.D A325_1UG.M Sat Jun 04 14:14:24 2011 MSD1 Page 1

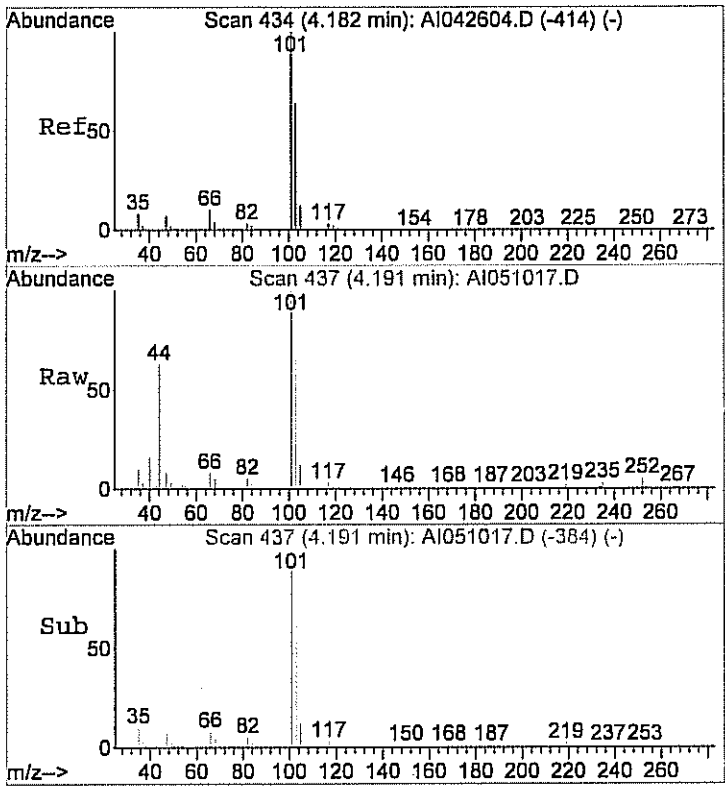
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051017.D Vial: 21
Acq On : 10 May 2011 11:27 pm Operator: RJP
Sample : C1105011-001A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 13:55 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



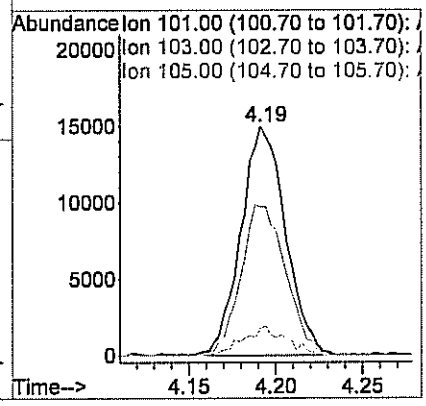
Centek laboratories, LLC

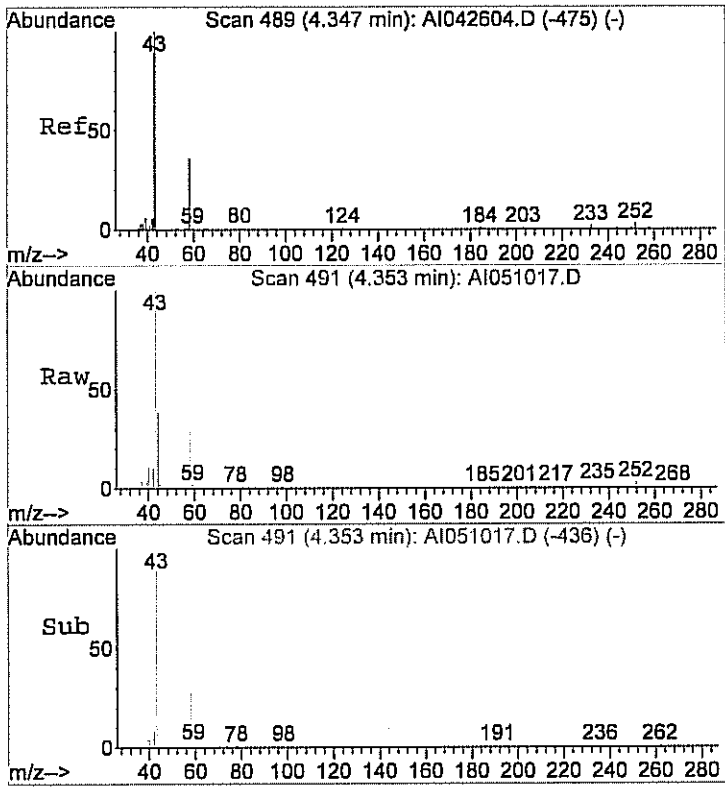


#13
Freon 11
Concen: 0.55 ppb
RT: 4.19 min Scan# 437
Delta R.T. 0.01 min
Lab File: AI051017.D
Acq: 10 May 2011 11:27 pm

Tgt Ion:101 Resp: 26675

Ion	Ratio	Lower	Upper
101	100		
103	66.6	45.1	85.1
105	12.1	0.0	31.5

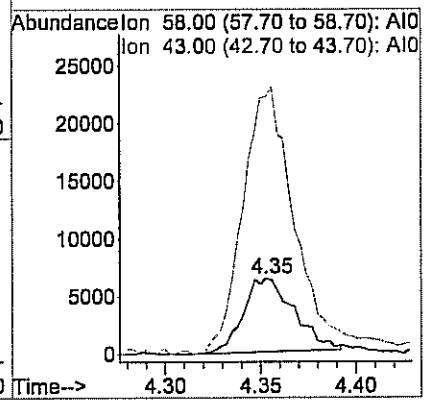


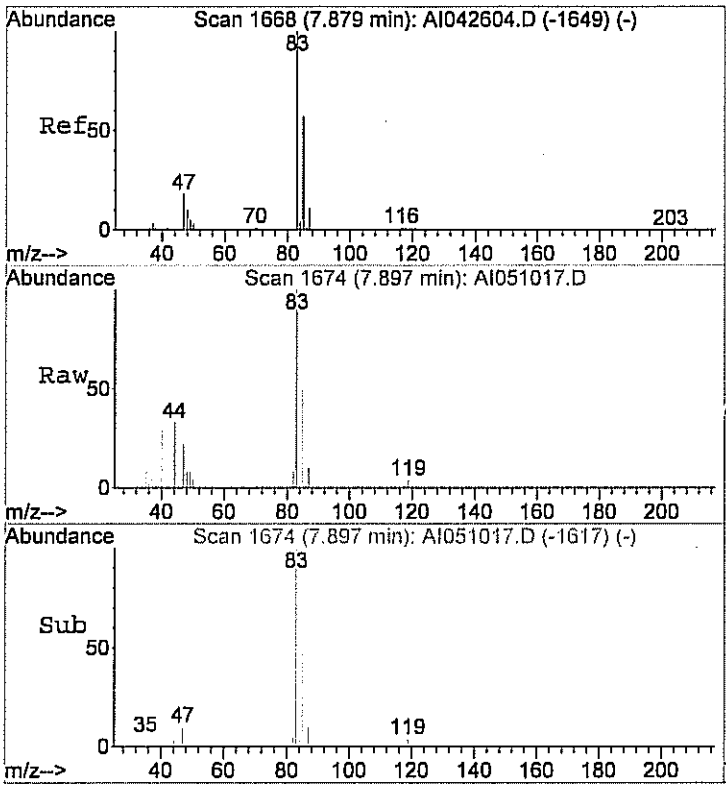


#14
Acetone
Concen: 2.22 ppb m
RT: 4.35 min Scan# 491
Delta R.T. 0.01 min
Lab File: AI051017.D
Acq: 10 May 2011 11:27 pm

Tgt Ion: 58 Resp: 11867

Ion	Ratio	Lower	Upper
58	100		
43	387.6	333.6	393.6

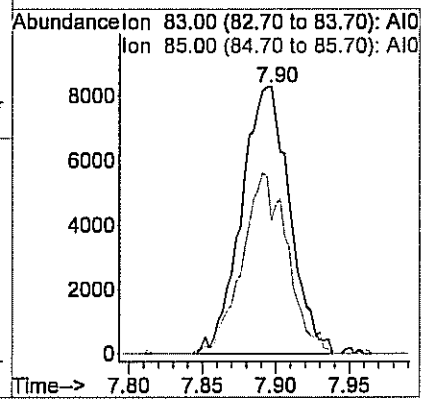


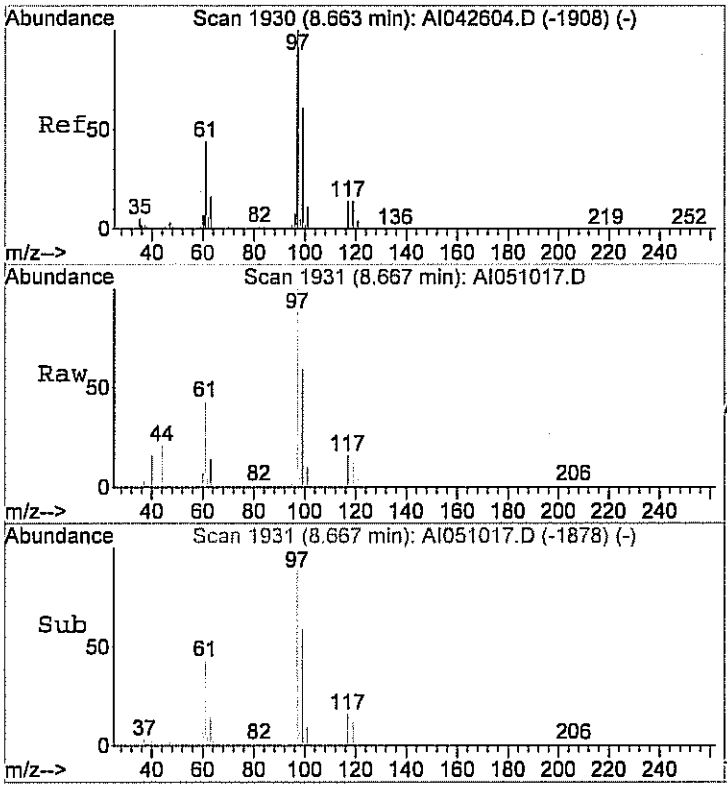


#29
Chloroform
Concen: 0.37 ppb
RT: 7.90 min Scan# 1674
Delta R.T. 0.02 min
Lab File: AI051017.D
Acq: 10 May 2011 11:27 pm

Tgt Ion: 83 Resp: 18884

Ion	Ratio	Lower	Upper
83	100		
85	63.7	45.9	85.9

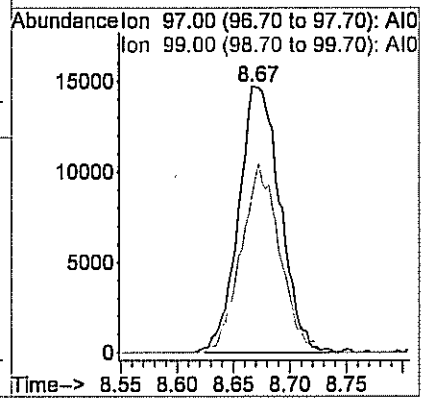


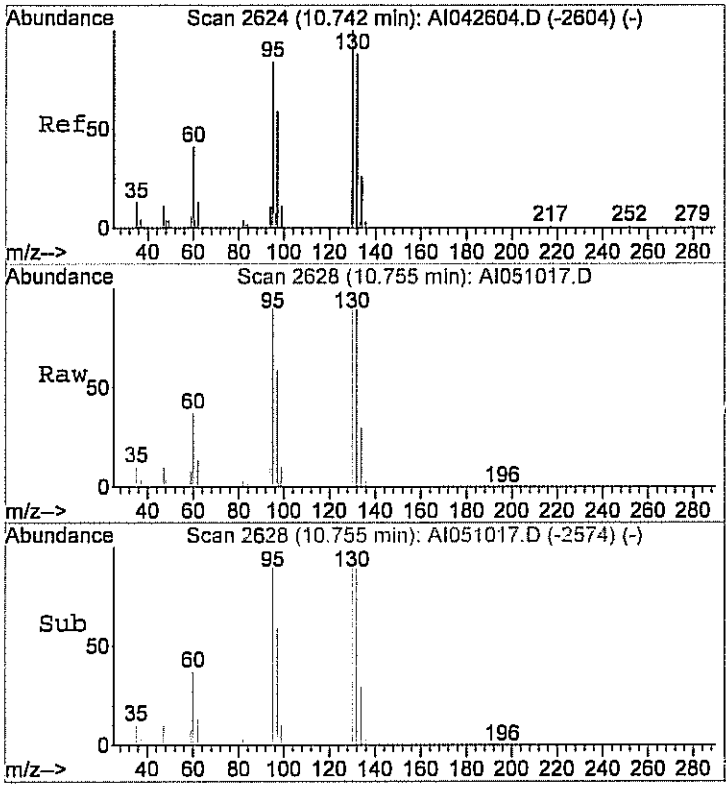


#33
1,1,1-trichloroethane
Concen: 1.06 ppb
RT: 8.67 min Scan# 1931
Delta R.T. 0.01 min
Lab File: AI051017.D
Acq: 10 May 2011 11:27 pm

Tgt Ion: 97 Resp: 37695

Ion	Ratio	Lower	Upper
97	100		
99	66.0	47.3	87.3

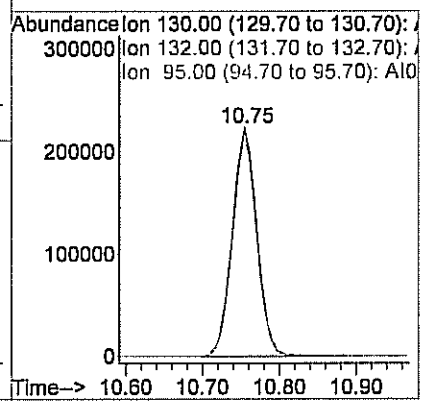




#41
Trichloroethene
Concen: 15.13 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051017.D
Acq: 10 May 2011 11:27 pm

Tgt Ion:130 Resp: 497135

Ion	Ratio	Lower	Upper
130	100		
132	96.9	75.8	115.8
95	96.0	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051224.D Vial: 21
Acq On : 13 May 2011 3:14 am Operator: RJP
Sample : C1105011-001A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 03:35:44 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

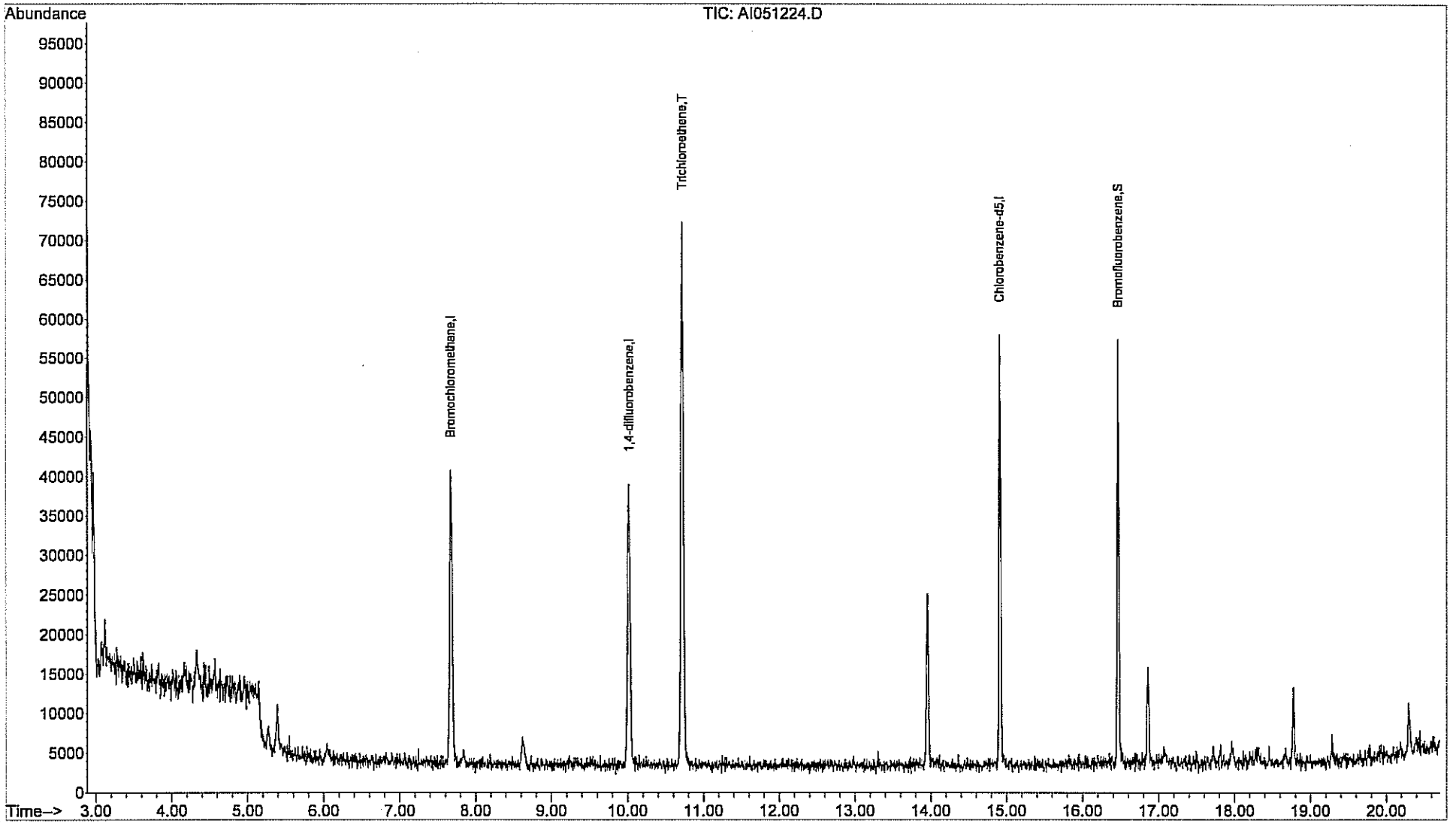
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.67	128	13858	1.00	ppb	-0.04
32) 1,4-difluorobenzene	10.01	114	37917	1.00	ppb	-0.02
47) Chlorobenzene-d5	14.91	117	31904	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	15308	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.72	130	30247	1.18	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

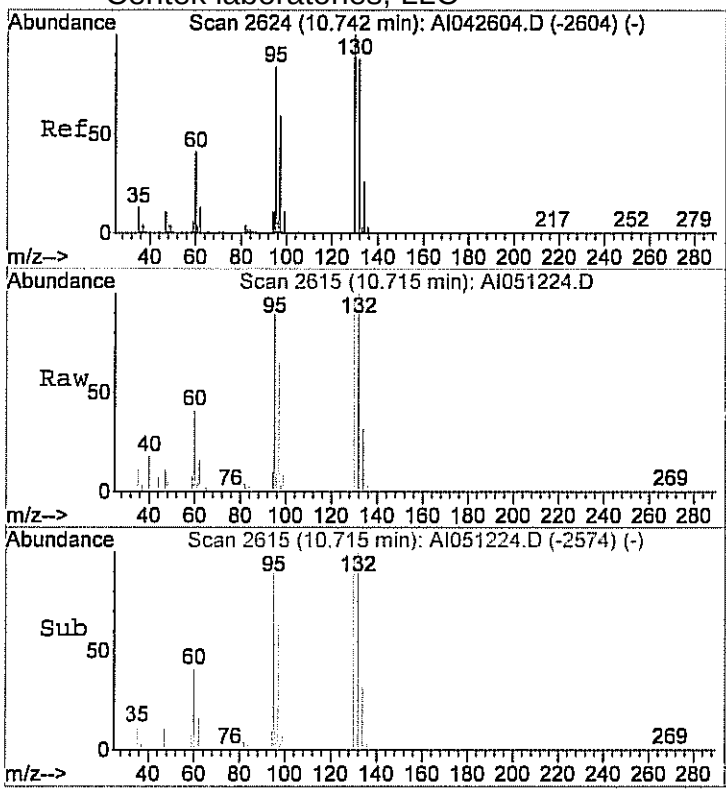
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051224.D Vial: 21
Acq On : 13 May 2011 3:14 am Operator: RJP
Sample : C1105011-001A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 13:55 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



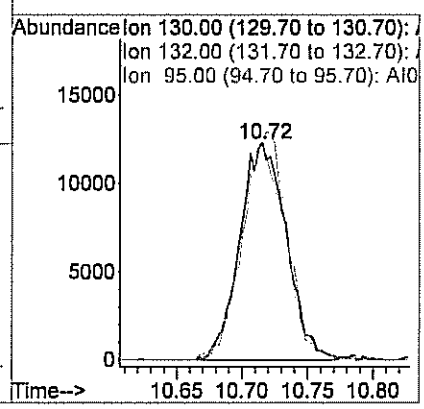
Centek laboratories, LLC



#41
Trichloroethene
Concen: 1.18 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.03 min
Lab File: AI051224.D
Acq: 13 May 2011 3:14 am

Tgt Ion:130 Resp: 30247

Ion	Ratio	Lower	Upper
130	100		
132	101.2	75.8	115.8
95	95.8	76.8	116.8



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	15	1.5		ppbV	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	2.3	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
4-ethyltoluene	1.7	0.15		ppbV	1	5/10/2011 6:35:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzene	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	0.22	0.040		ppbV	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroform	9.1	1.5		ppbV	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Cyclohexane	1.7	1.5		ppbV	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 11	70	40		ppbV	270	5/13/2011 3:56:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 6:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 12	0.56	0.15		ppbV	1	5/10/2011 6:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
o-Xylene	0.49	0.15		ppbV	1	5/10/2011 6:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	2.2	0.15		ppbV	1	5/10/2011 6:35:00 PM
Toluene	0.83	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Trichloroethene	540	11		ppbV	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:35:00 PM
Surr: Bromofluorobenzene	108	70-130		%REC	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	85	8.3		ug/m3	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	12	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	3.9	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:35:00 PM
4-ethyltoluene	8.5	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Acetone	53	7.2		ug/m3	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:35:00 PM
Benzene	6.0	0.49		ug/m3	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	1.4	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:35:00 PM
Chloroform	45	7.4		ug/m3	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.73	0.60		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Cyclohexane	5.9	5.2		ug/m3	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Freon 11	400	230		ug/m3	270	5/13/2011 3:56:00 AM
Freon 113	0.86	1.2	J	ug/m3	1	5/10/2011 6:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	4.4	0.37		ug/m3	1	5/10/2011 6:35:00 PM
m&p-Xylene	5.1	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	4.3	0.90		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:35:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	6.7	0.45		ug/m3	1	5/10/2011 6:35:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Trichloroethene	2900	60		ug/m3	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051009.D Vial: 22
Acq On : 10 May 2011 6:35 pm Operator: RJP
Sample : C1105011-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 18:56:21 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

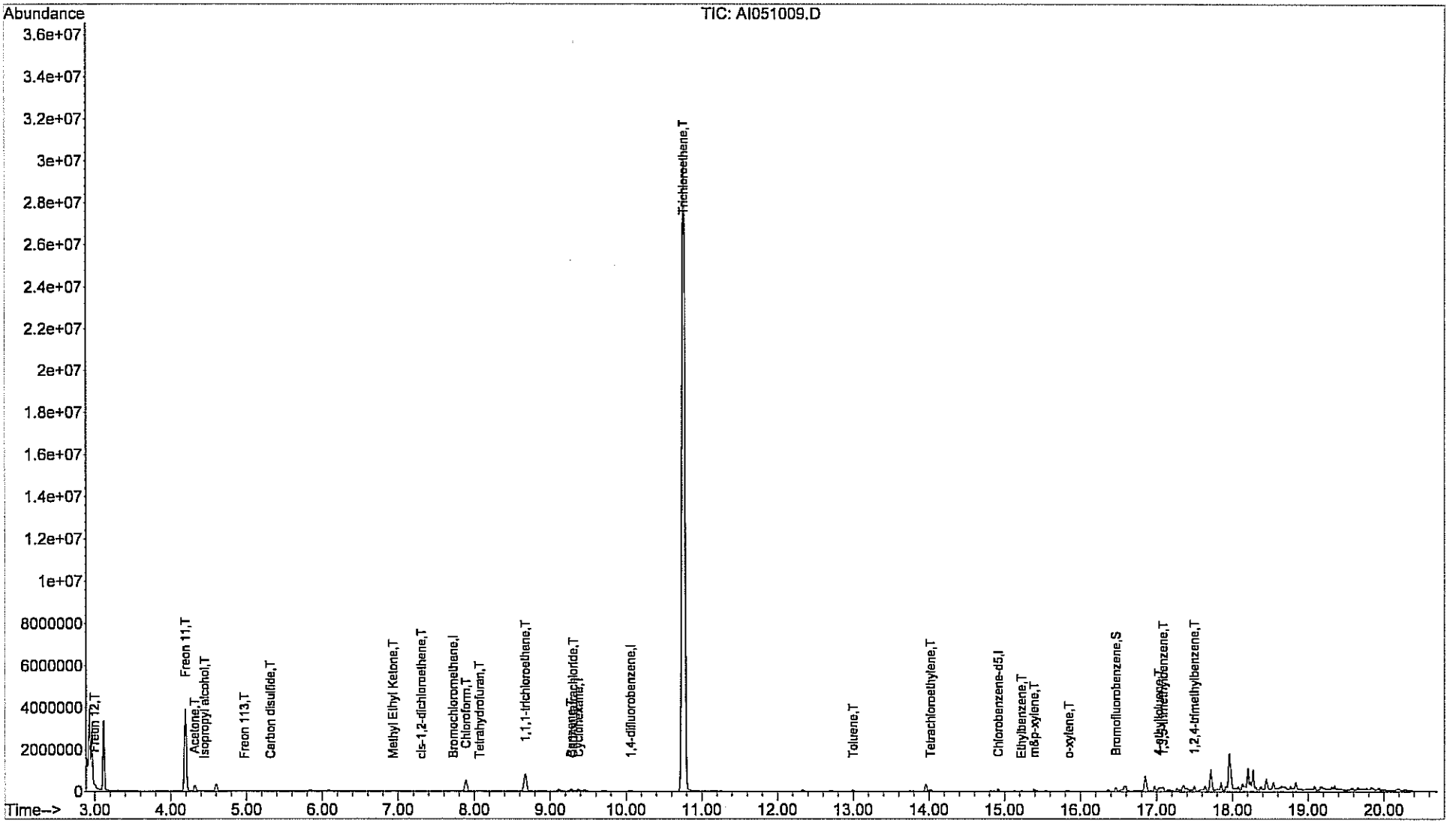
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	17644	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.06	114	59912	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	59616	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	35480	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	40427	0.56	ppb		100
13) Freon 11	4.19	101	3108214	60.62	ppb		99
14) Acetone	4.32	58	98941	17.36	ppb		97
15) Isopropyl alcohol	4.44	45	22794	1.76	ppb	#	36
17) Freon 113	4.98	101	5703	0.11	ppb		97
20) Carbon disulfide	5.31	76	19966	0.30	ppb		96
25) Methyl Ethyl Ketone	6.92	72	9228	1.43	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	4874	0.18	ppb		94
29) Chloroform	7.89	83	473675	8.74	ppb		99
30) Tetrahydrofuran	8.07	42	27722	2.22	ppb		94
33) 1,1,1-trichloroethane	8.67	97	640366	14.53	ppb		96
34) Cyclohexane	9.37	56	54192	2.42	ppb	#	36
35) Carbon tetrachloride	9.31	117	15787	0.22	ppb		99
36) Benzene	9.27	78	107926	1.84	ppb		99
41) Trichloroethene	10.76	130	15257193	375.24	ppb		99
48) Toluene	12.99	92	34273	0.83	ppb		98
53) Tetrachloroethylene	14.02	164	22126	0.41	ppb		97
55) Ethylbenzene	15.22	91	29602	0.37	ppb		99
56) m&p-xylene	15.39	91	79234	1.15	ppb		99
59) o-xylene	15.85	91	38016	0.49	ppb		99
63) 4-ethyltoluene	17.03	105	110174m	1.71	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	51820	0.78	ppb		100
65) 1,2,4-trimethylbenzene	17.50	105	102120	2.32	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

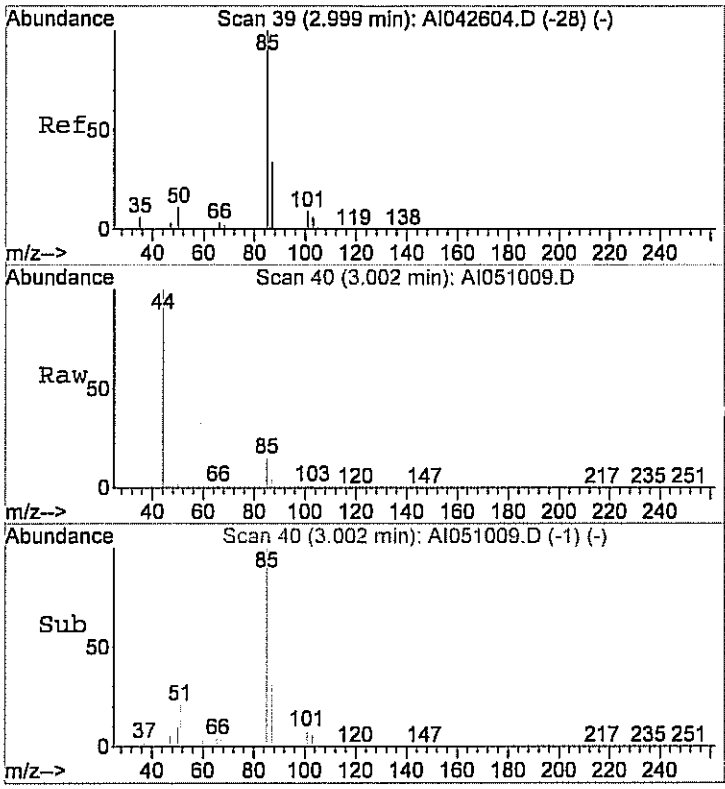
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051009.D Vial: 22
Acq On : 10 May 2011 6:35 pm Operator: RJP
Sample : C1105011-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 9:55 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



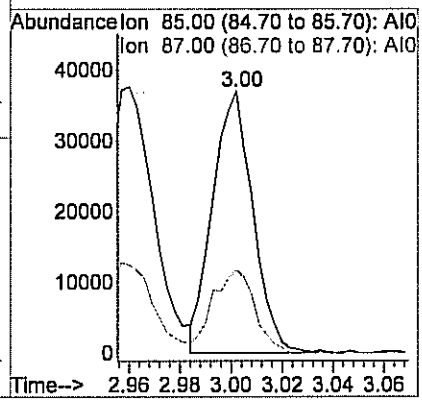
Centek laboratories, LLC

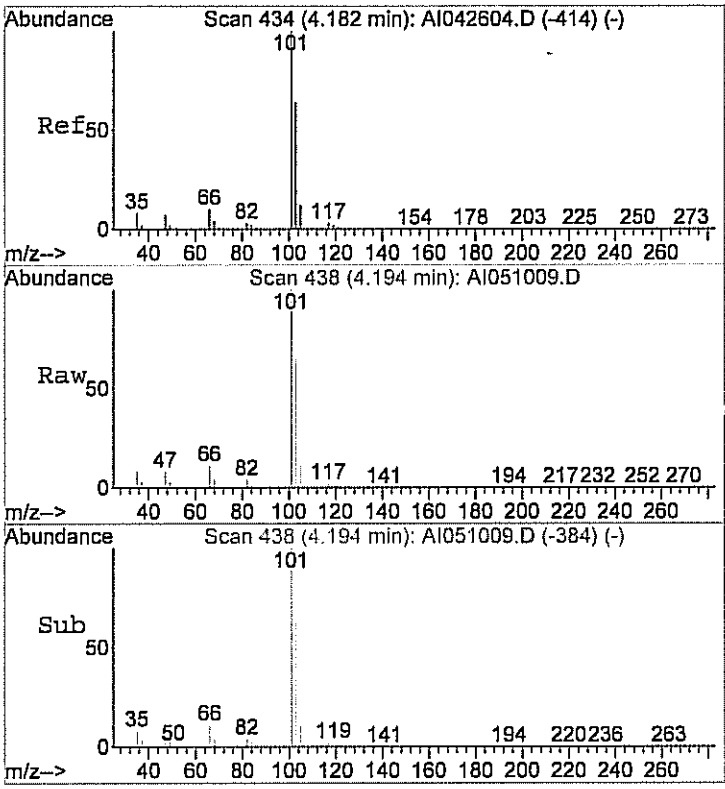


#3
Freon 12
Concen: 0.56 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 85 Resp: 40427

Ion	Ratio	Lower	Upper
85	100		
87	33.1	13.2	53.2

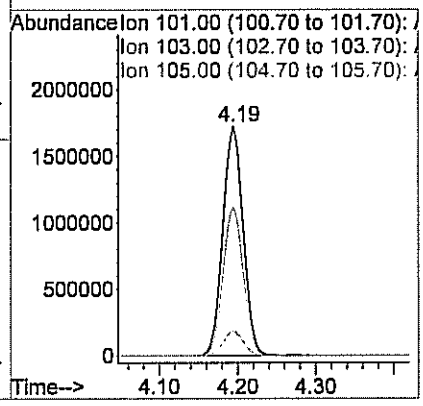


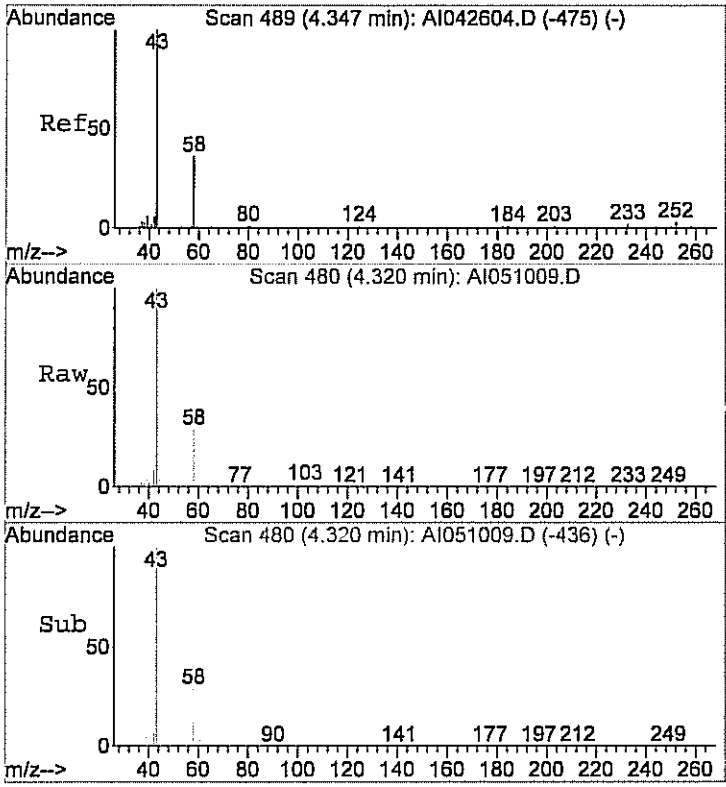


#13
Freon 11
Concen: 60.62 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:101 Resp: 3108214

Ion	Ratio	Lower	Upper
101	100		
103	65.3	45.1	85.1
105	10.7	0.0	31.5

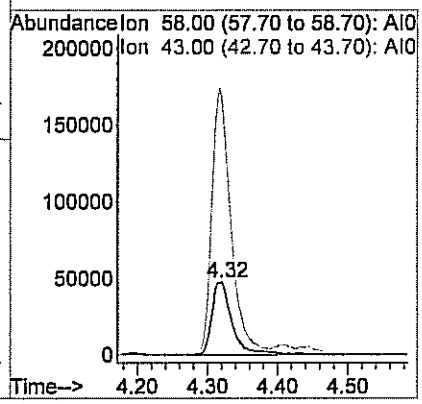


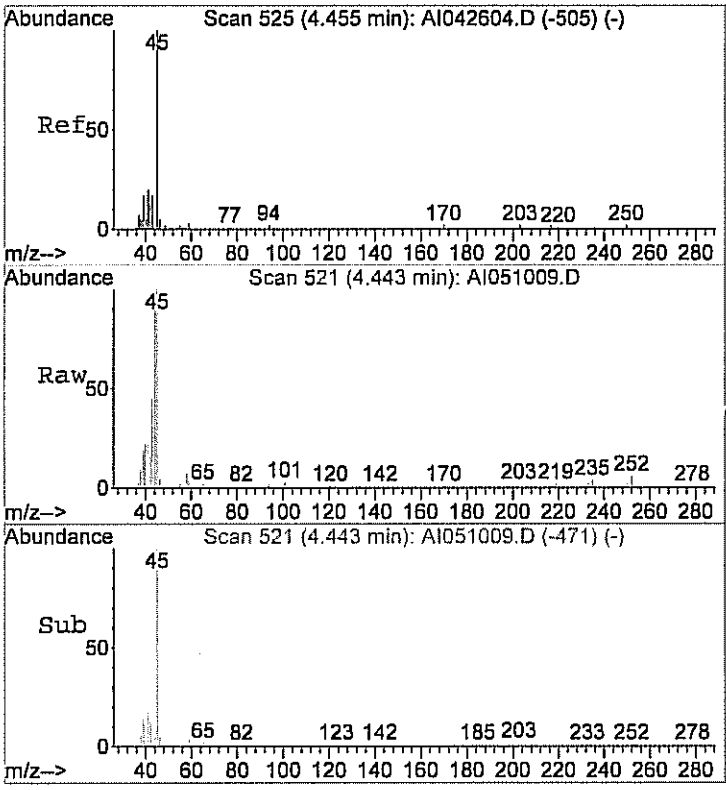


#14
Acetone
Concen: 17.36 ppb
RT: 4.32 min Scan# 480
Delta R.T. -0.02 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 58 Resp: 98941

Ion	Ratio	Lower	Upper
58	100		
43	356.7	333.6	393.6

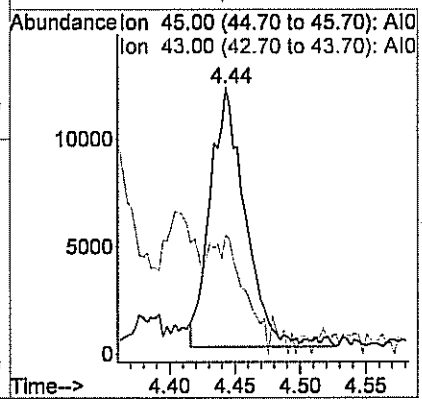


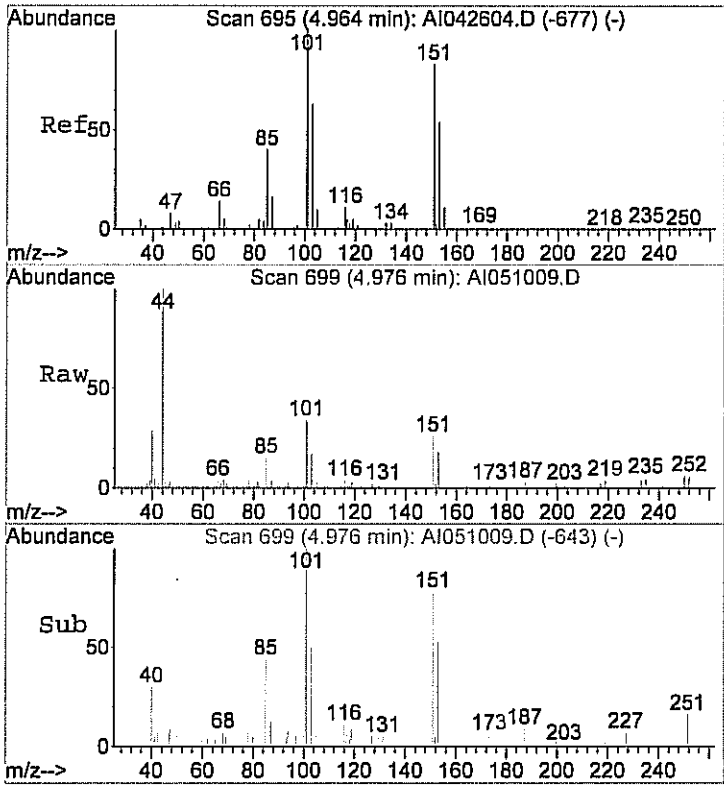


#15
Isopropyl alcohol
Concen: 1.76 ppb
RT: 4.44 min Scan# 521
Delta R.T. -0.00 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 45 Resp: 22794

Ion	Ratio	Lower	Upper
45	100		
43	0.0	19.2	59.2#

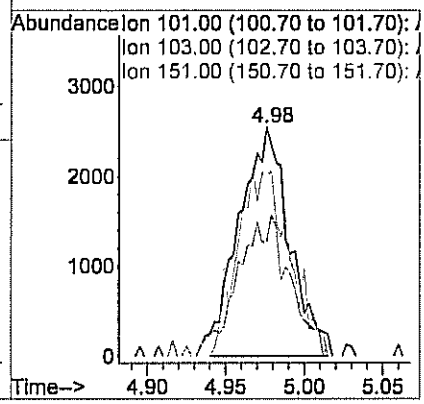


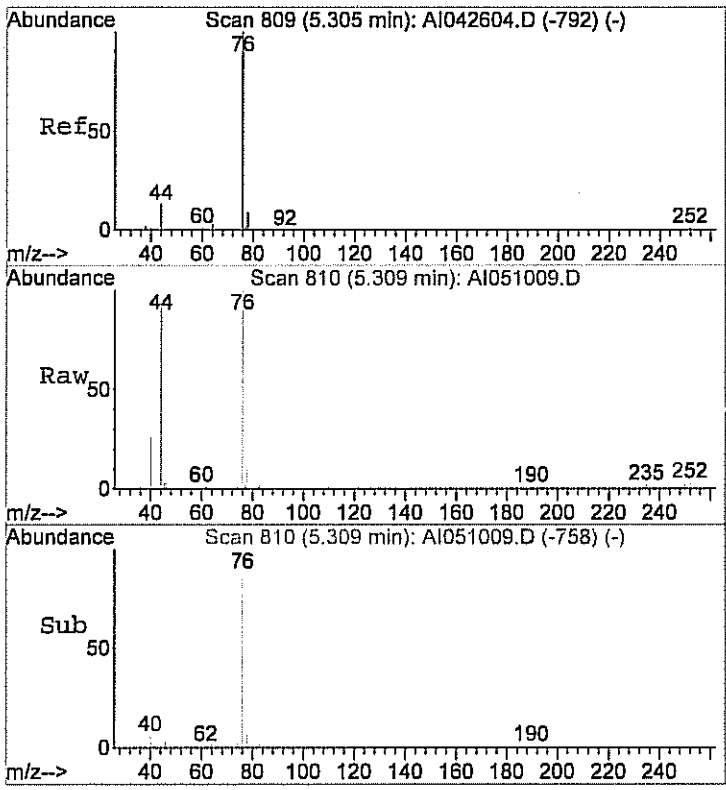


#17
Freon 113
Concen: 0.11 ppb
RT: 4.98 min Scan# 699
Delta R.T. 0.02 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:101 Resp: 5703

Ion	Ratio	Lower	Upper
101	100		
103	62.3	43.9	83.9
151	84.0	66.7	106.7

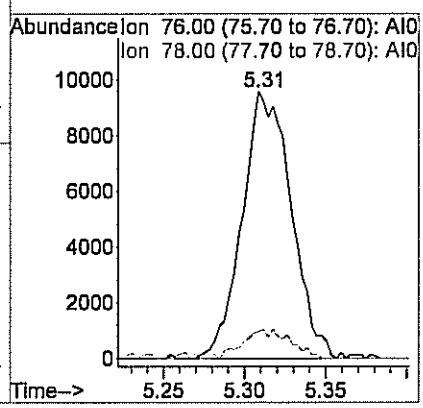


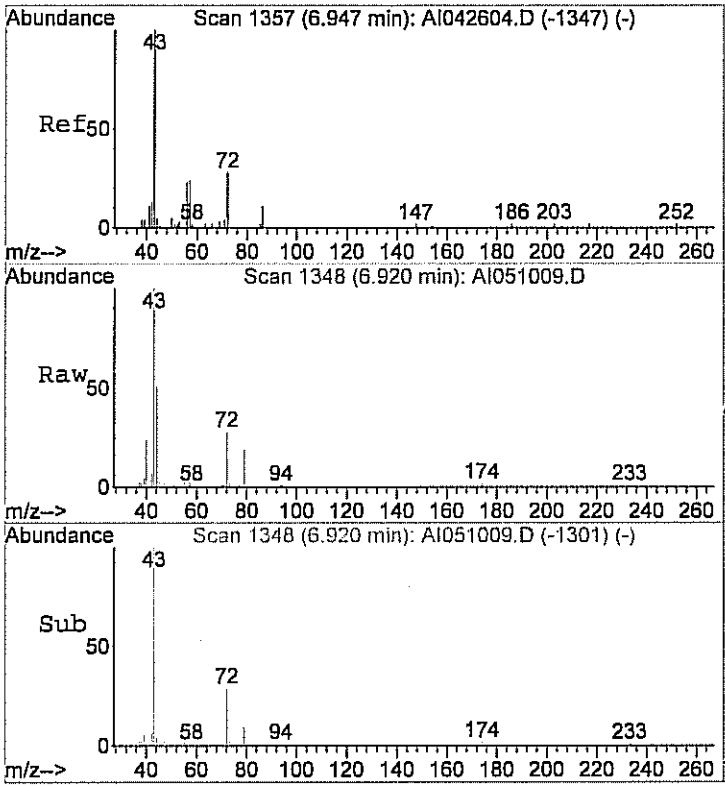


#20
Carbon disulfide
Concen: 0.30 ppb
RT: 5.31 min Scan# 810
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 76 Resp: 19966

Ion	Ratio	Lower	Upper
76	100		
78	10.6	0.0	29.3

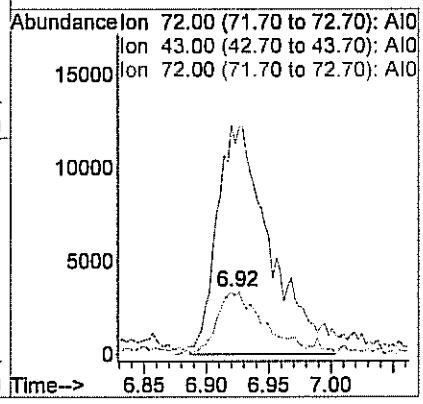


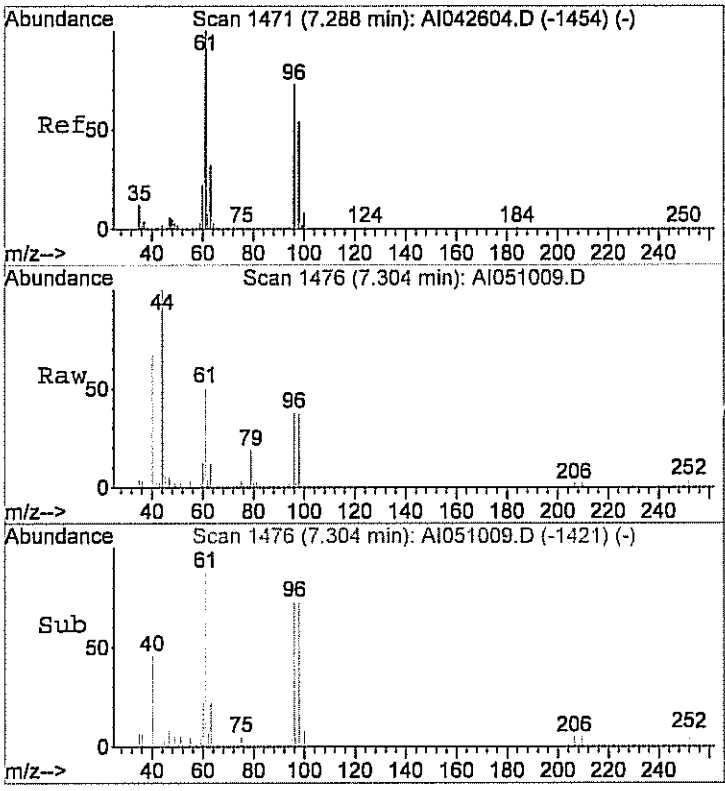


#25
Methyl Ethyl Ketone
Concen: 1.43 ppb
RT: 6.92 min Scan# 1348
Delta R.T. -0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 72 Resp: 9228

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

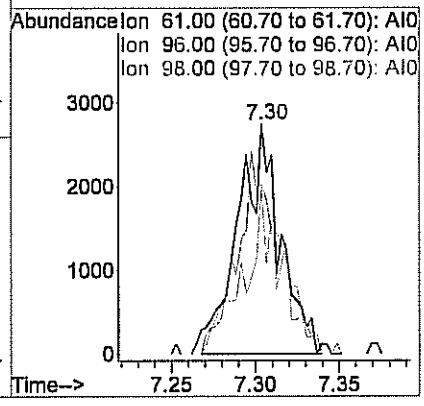


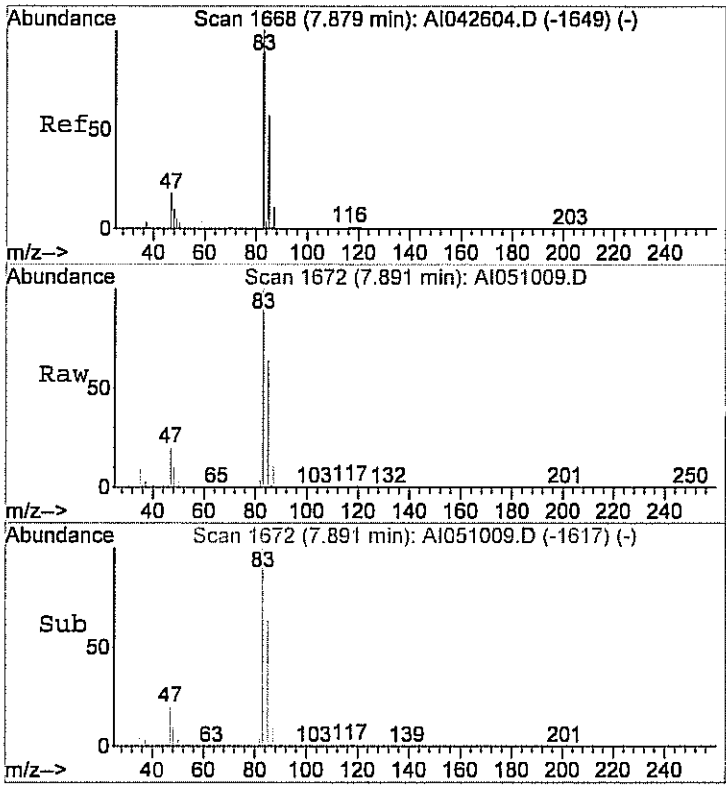


#26
cis-1,2-dichloroethene
Concen: 0.18 ppb
RT: 7.30 min Scan# 1476
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 61 Resp: 4874

Ion	Ratio	Lower	Upper
61	100		
96	86.2	63.1	103.1
98	62.4	35.0	75.0

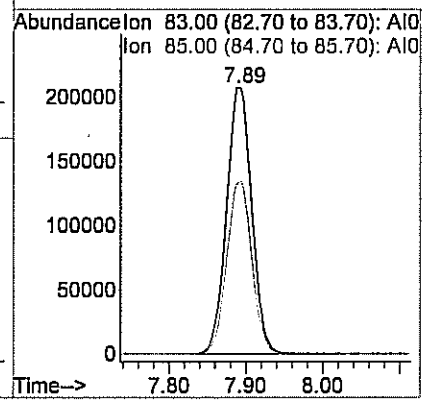


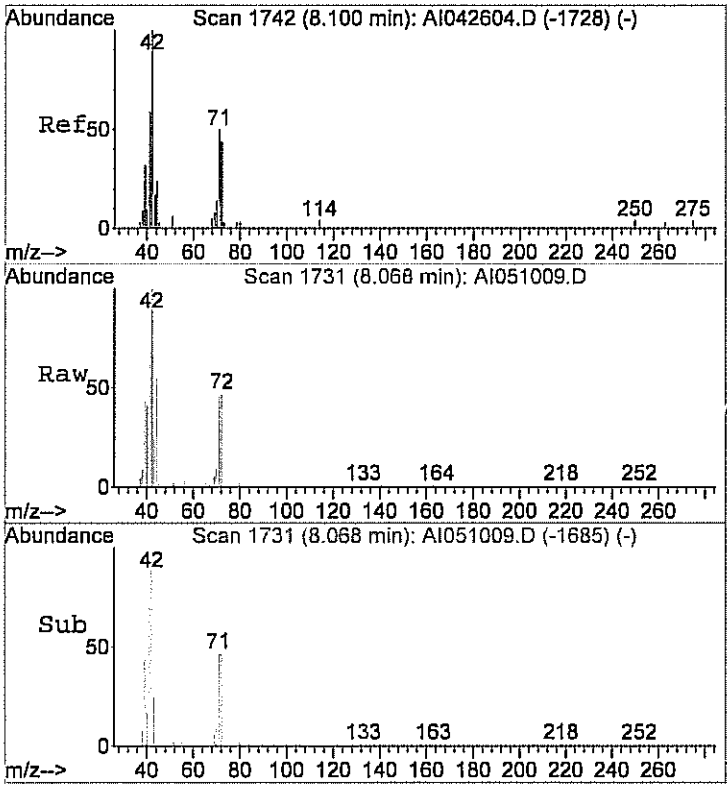


#29
Chloroform
Concen: 8.74 ppb
RT: 7.89 min Scan# 1672
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 83 Resp: 473675

Ion	Ratio	Lower	Upper
83	100		
85	65.2	45.9	85.9

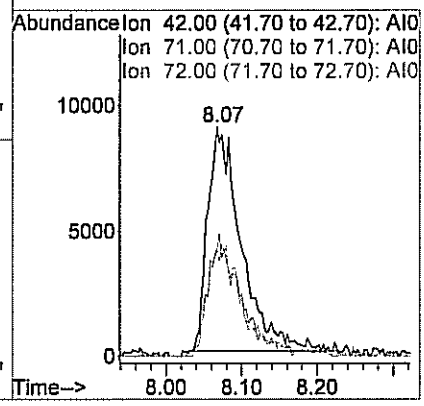


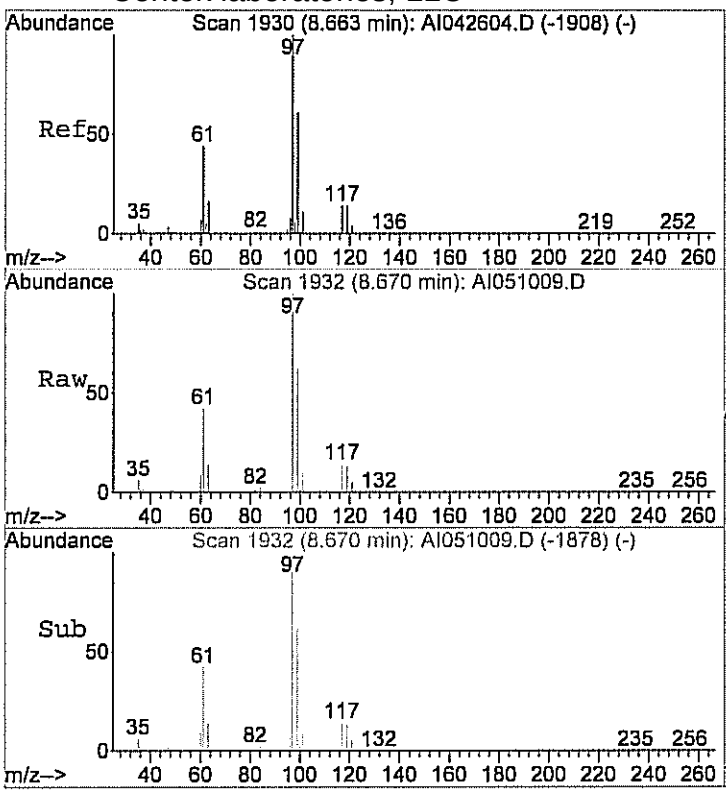


#30
Tetrahydrofuran
Concen: 2.22 ppb
RT: 8.07 min Scan# 1731
Delta R.T. -0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 42 Resp: 27722

Ion	Ratio	Lower	Upper
42	100		
71	52.3	28.4	68.4
72	52.9	29.0	69.0

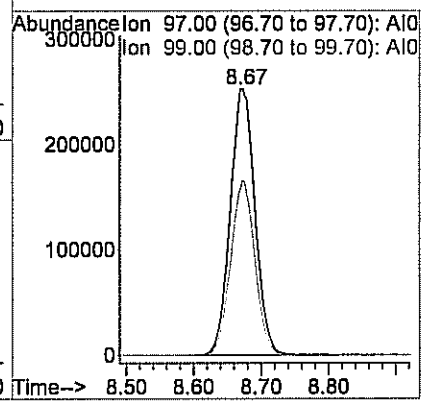


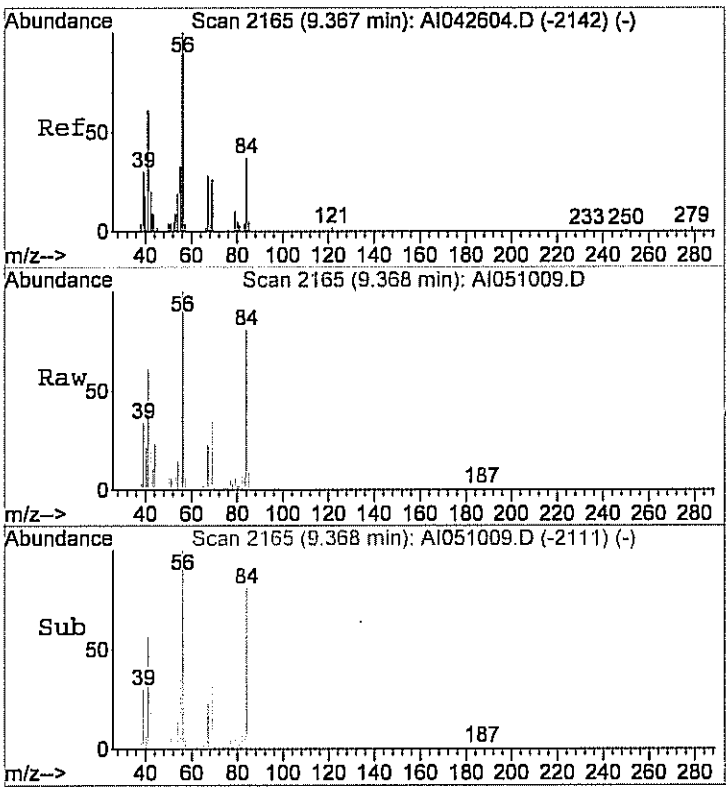


#33
1,1,1-trichloroethane
Concen: 14.53 ppb
RT: 8.67 min Scan# 1932
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 97 Resp: 640366

Ion	Ratio	Lower	Upper
97	100		
99	64.5	47.3	87.3

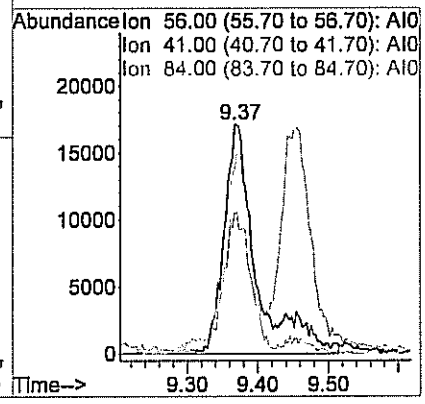


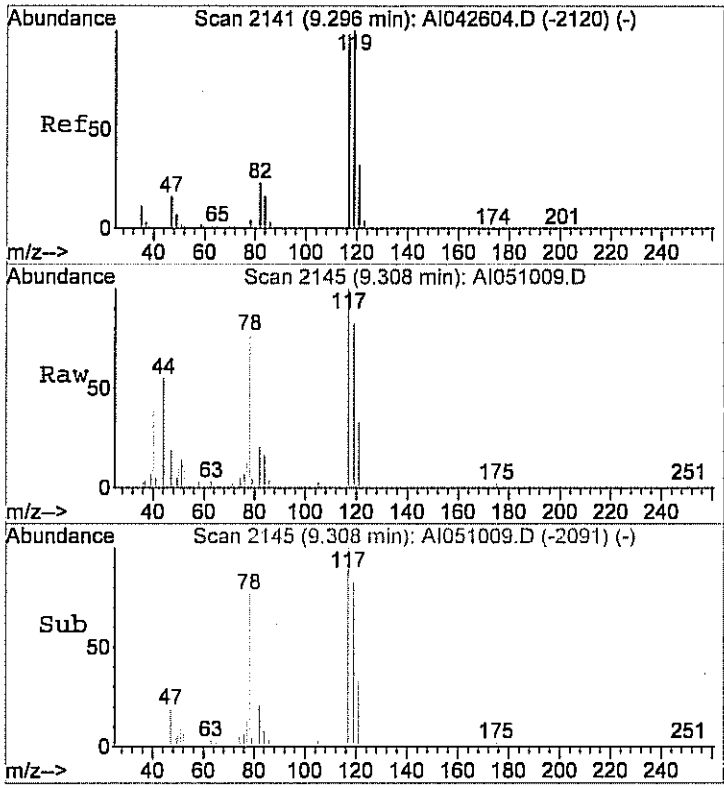


#34
Cyclohexane
Concen: 2.42 ppb
RT: 9.37 min Scan# 2165
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 56 Resp: 54192

Ion	Ratio	Lower	Upper
56	100		
41	0.0	46.1	86.1#
84	66.6	110.9	150.9#

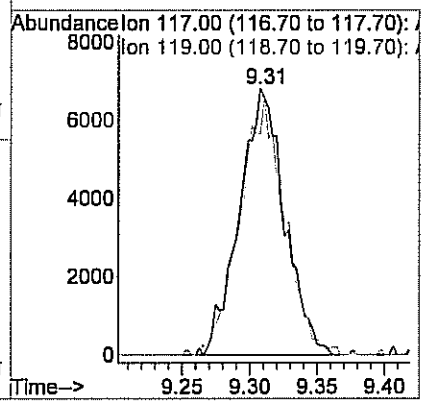


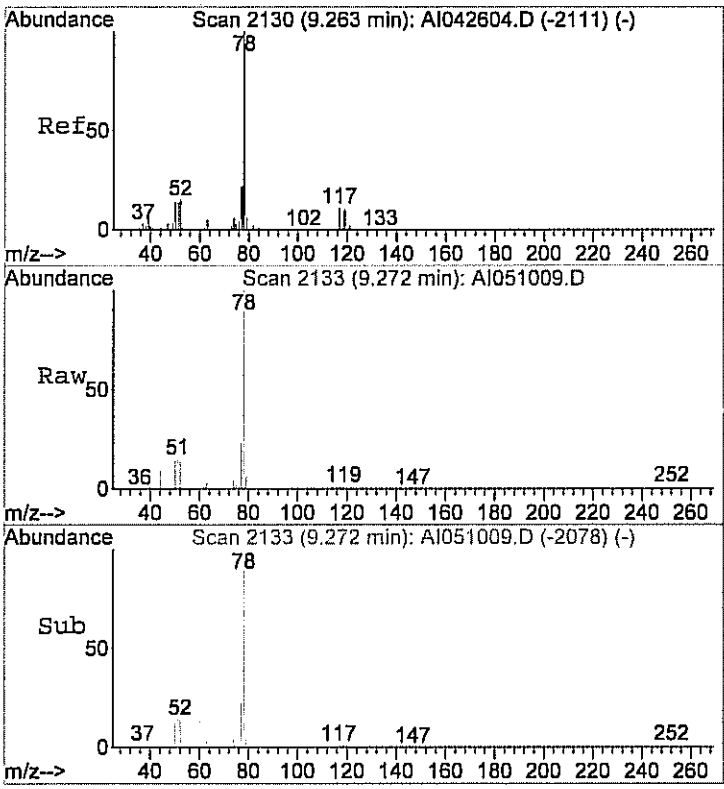


#35
Carbon tetrachloride
Concen: 0.22 ppb
RT: 9.31 min Scan# 2145
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:117 Resp: 15787

Ion	Ratio	Lower	Upper
117	100		
119	96.7	75.8	115.8

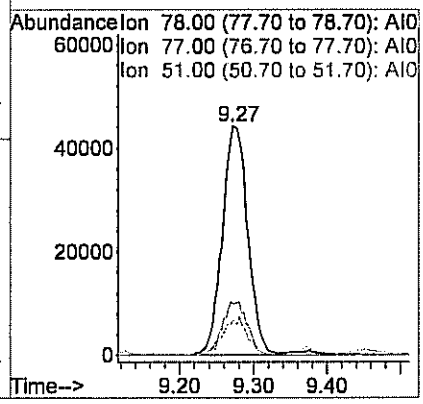


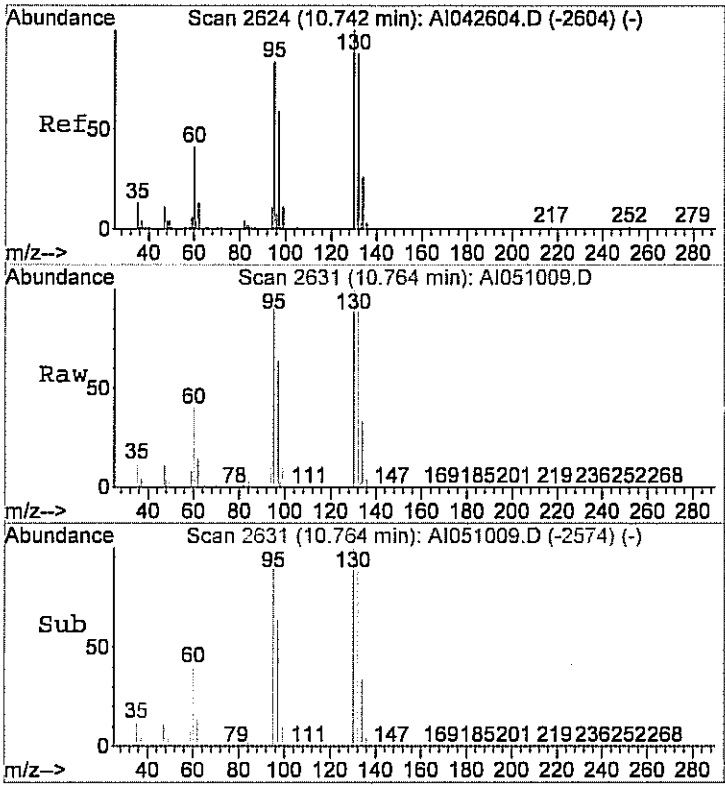


#36
Benzene
Concen: 1.84 ppb
RT: 9.27 min Scan# 2133
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 78 Resp: 107926

Ion	Ratio	Lower	Upper
78	100		
77	22.8	3.4	43.4
51	15.3	0.0	35.0

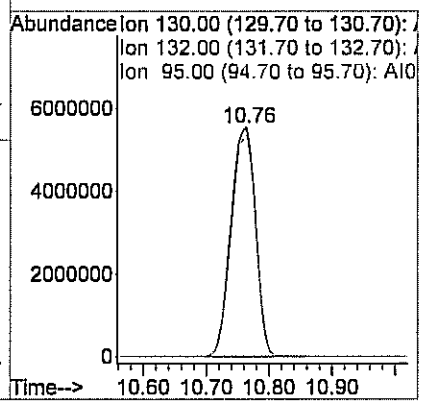


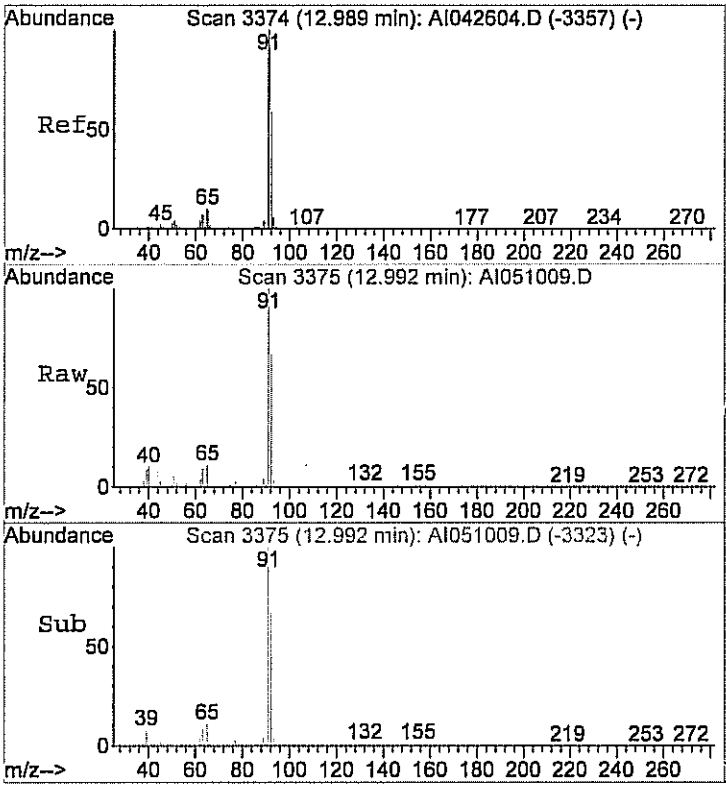


#41
Trichloroethene
Concen: 375.24 ppb
RT: 10.76 min Scan# 2631
Delta R.T. 0.02 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:130 Resp:15257193

Ion	Ratio	Lower	Upper
130	100		
132	96.8	75.8	115.8
95	95.5	76.8	116.8

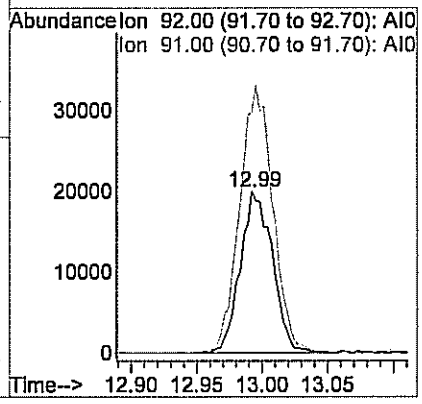


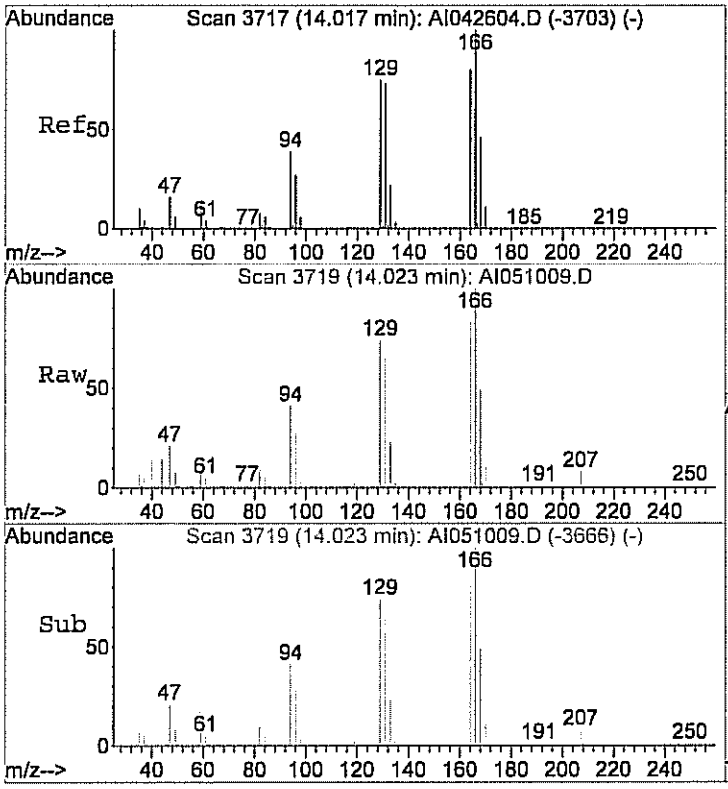


#48
Toluene
Concen: 0.83 ppb
RT: 12.99 min Scan# 3375
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 92 Resp: 34273

Ion	Ratio	Lower	Upper
92	100		
91	170.3	152.8	192.8

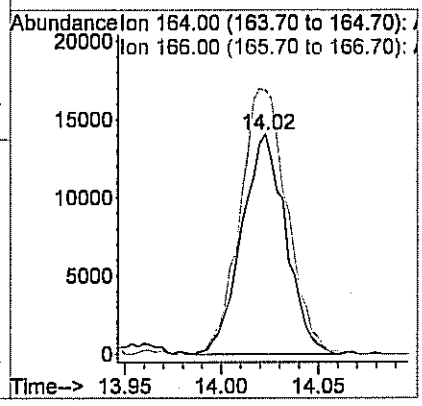


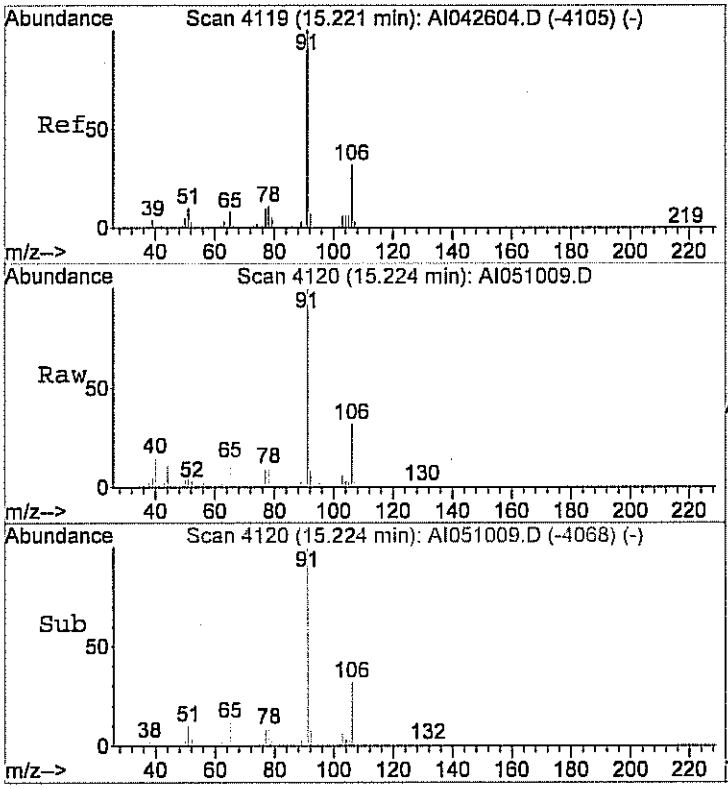


#53
Tetrachloroethylene
Concen: 0.41 ppb
RT: 14.02 min Scan# 3719
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:164 Resp: 22126

Ion	Ratio	Lower	Upper
164	100		
166	128.6	105.5	145.5

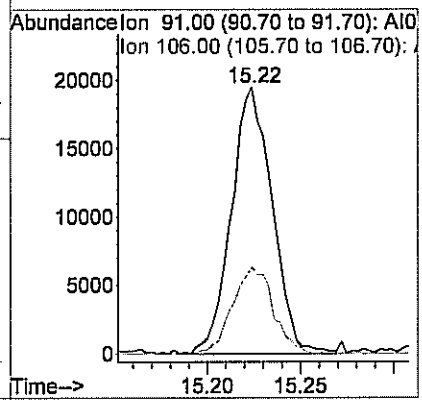


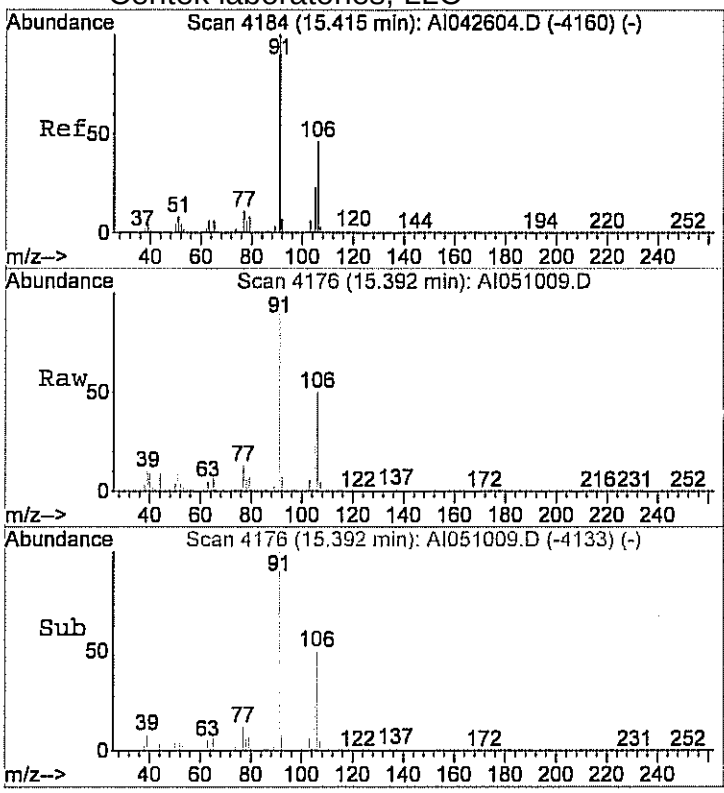


#55
Ethylbenzene
Concen: 0.37 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 91 Resp: 29602

Ion	Ratio	Lower	Upper
91	100		
106	32.1	11.8	51.8

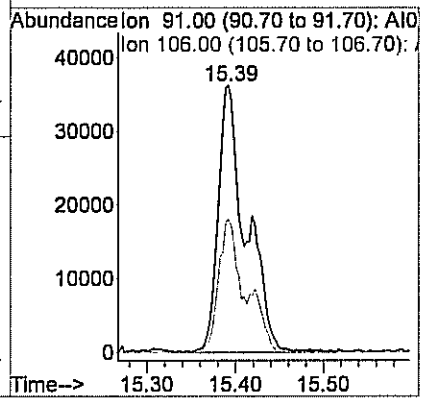


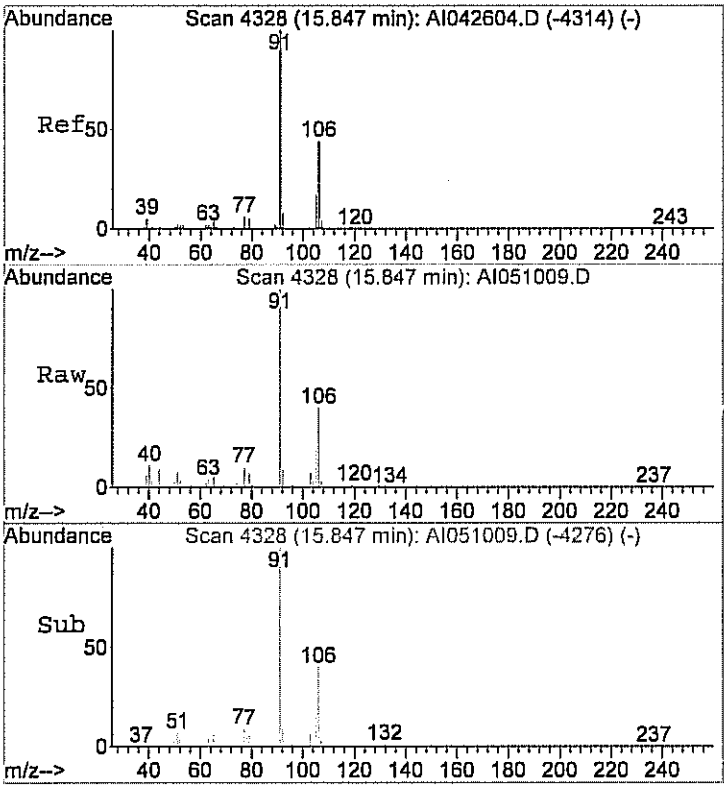


#56
m&p-xylene
Concen: 1.15 ppb
RT: 15.39 min Scan# 4176
Delta R.T. -0.02 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 91 Resp: 79234

Ion	Ratio	Lower	Upper
91	100		
106	48.0	28.7	68.7

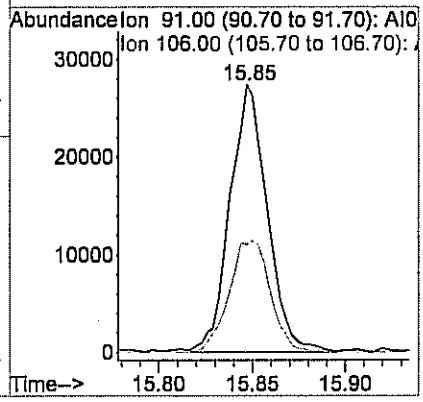


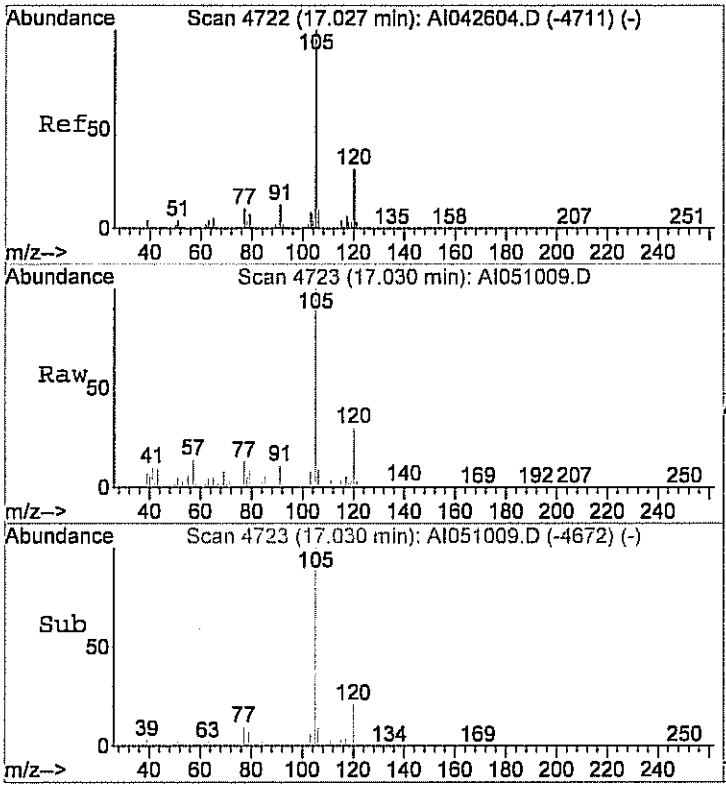


#59
o-xylene
Concen: 0.49 ppb
RT: 15.85 min Scan# 4328
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion: 91 Resp: 38016

Ion	Ratio	Lower	Upper
91	100		
106	46.0	25.6	65.6

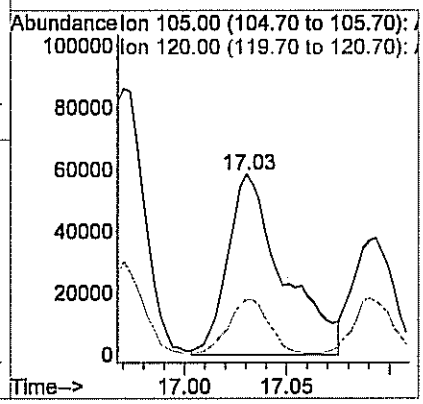


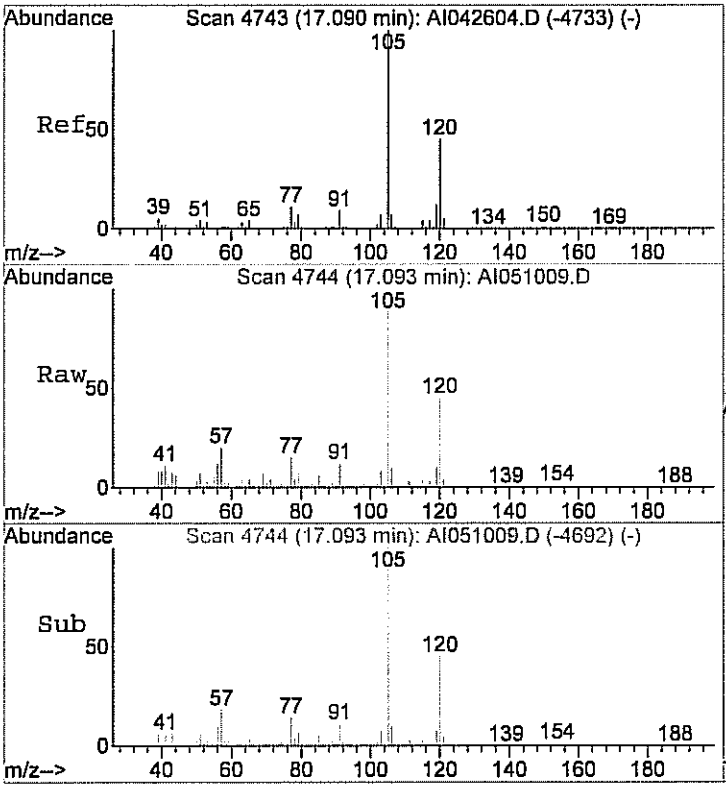


#63
4-ethyltoluene
Concen: 1.71 ppb m
RT: 17.03 min Scan# 4723
Delta R.T. 0.00 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:105 Resp: 110174

Ion	Ratio	Lower	Upper
105	100		
120	22.4	26.5	66.5#

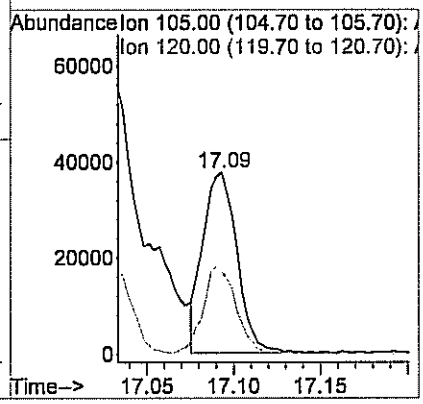


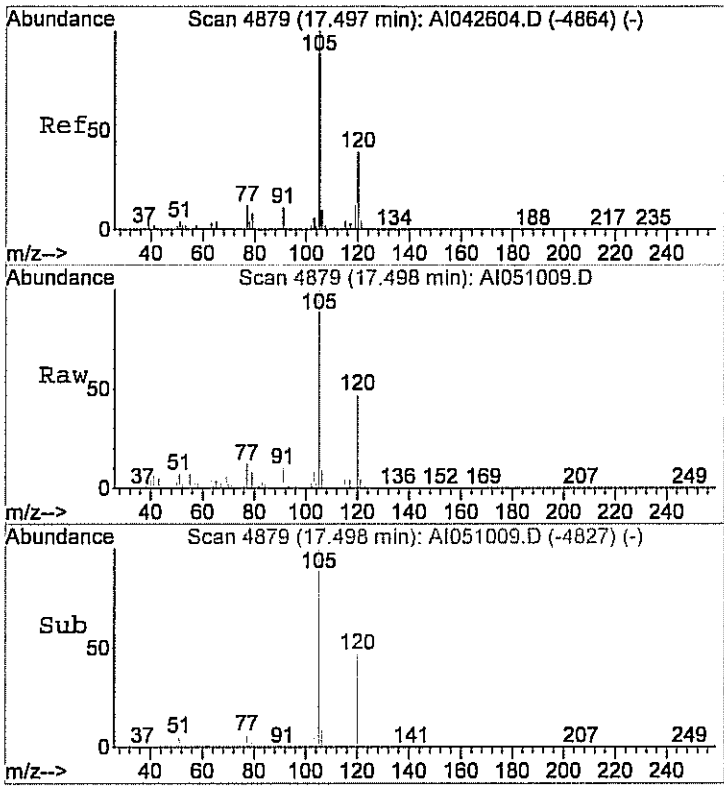


#64
1,3,5-trimethylbenzene
Concen: 0.78 ppb
RT: 17.09 min Scan# 4744
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:105 Resp: 51820

Ion	Ratio	Lower	Upper
105	100		
120	47.6	27.4	67.4

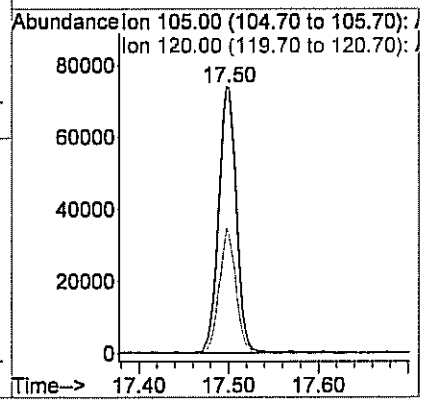




#65
1,2,4-trimethylbenzene
Concen: 2.32 ppb
RT: 17.50 min Scan# 4879
Delta R.T. 0.01 min
Lab File: AI051009.D
Acq: 10 May 2011 6:35 pm

Tgt Ion:105 Resp: 102120

Ion	Ratio	Lower	Upper
105	100		
120	44.0	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051018.D Vial: 22
Acq On : 11 May 2011 12:03 am Operator: RJP
Sample : C1105011-002A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 00:24:19 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

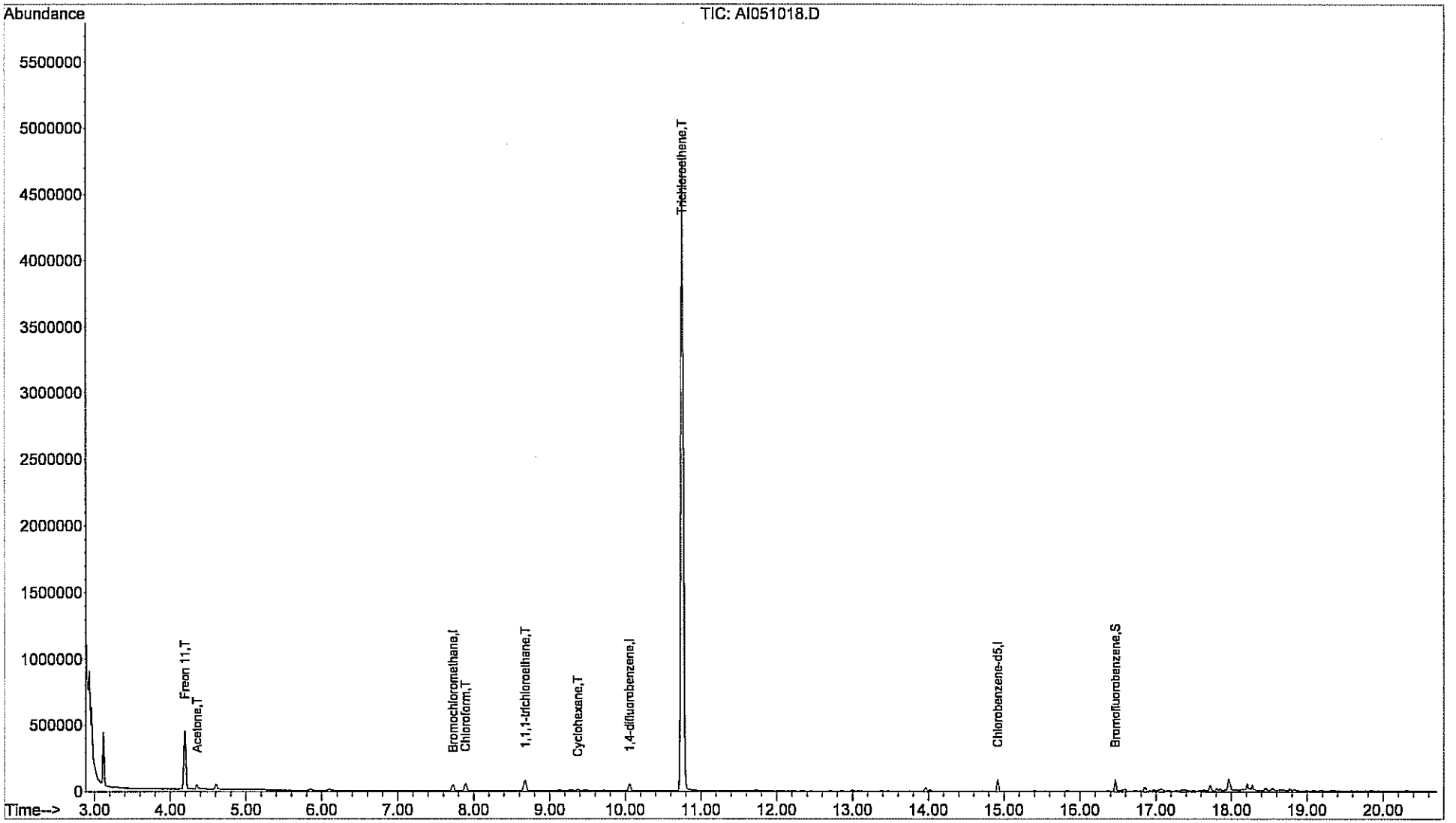
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	16585	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.05	114	50723	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	46571	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	22098	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
13) Freon 11	4.19	101	355007	7.37	ppb		99
14) Acetone	4.35	58	11744	2.19	ppb		100
29) Chloroform	7.89	83	46521	0.91	ppb		97
33) 1,1,1-trichloroethane	8.68	97	57464	1.54	ppb		98
34) Cyclohexane	9.38	56	3192	0.17	ppb	#	80
41) Trichloroethene	10.75	130	2038971	59.23	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

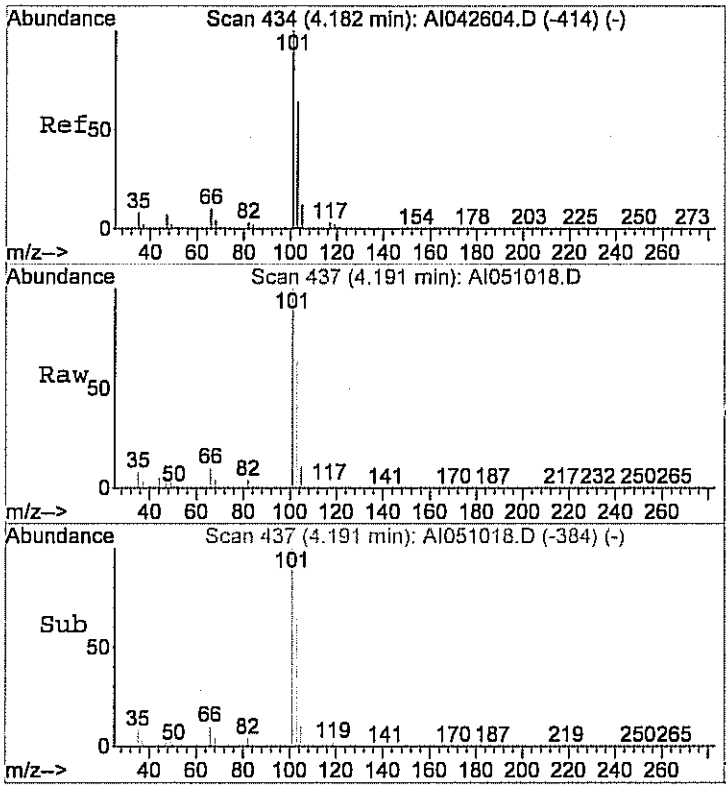
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051018.D Vial: 22
Acq On : 11 May 2011 12:03 am Operator: RJP
Sample : C1105011-002A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 13:57 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



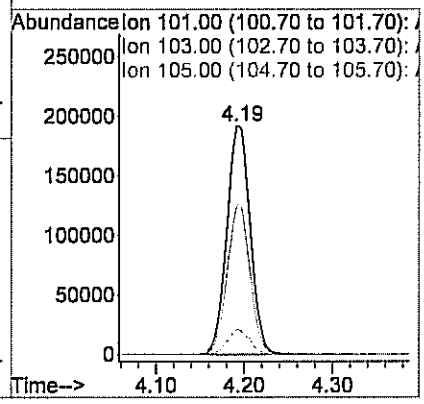
Centek laboratories, LLC

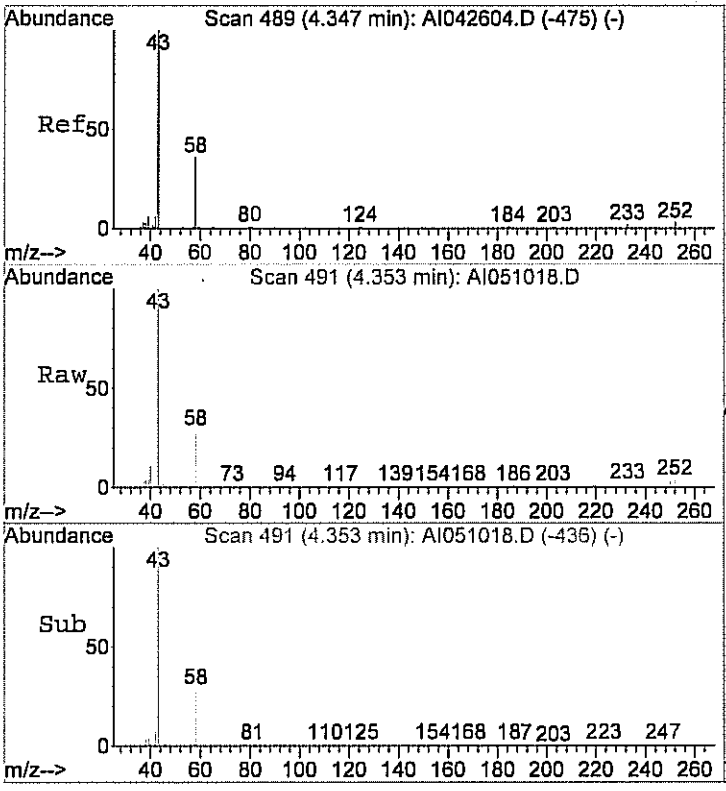


#13
Freon 11
Concen: 7.37 ppb
RT: 4.19 min Scan# 437
Delta R.T. 0.01 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion:101 Resp: 355007

Ion	Ratio	Lower	Upper
101	100		
103	64.6	45.1	85.1
105	10.6	0.0	31.5

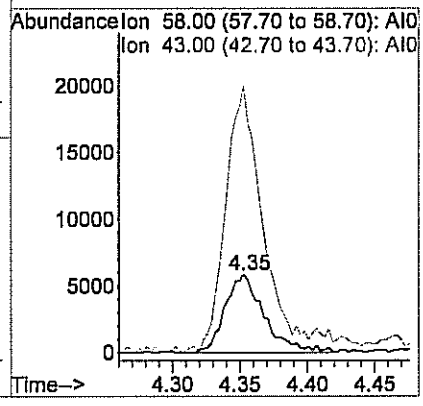


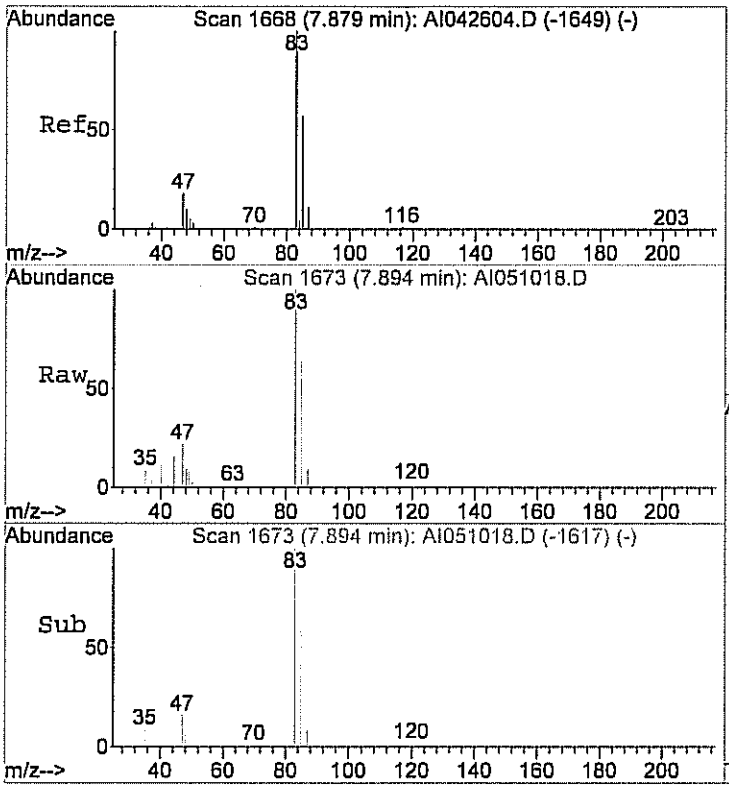


#14
Acetone
Concen: 2.19 ppb
RT: 4.35 min Scan# 491
Delta R.T. 0.01 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion: 58 Resp: 11744

Ion	Ratio	Lower	Upper
58	100		
43	363.5	333.6	393.6

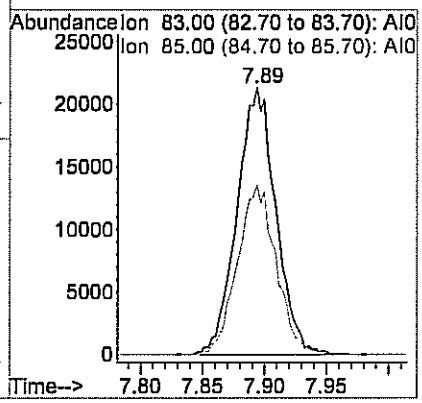


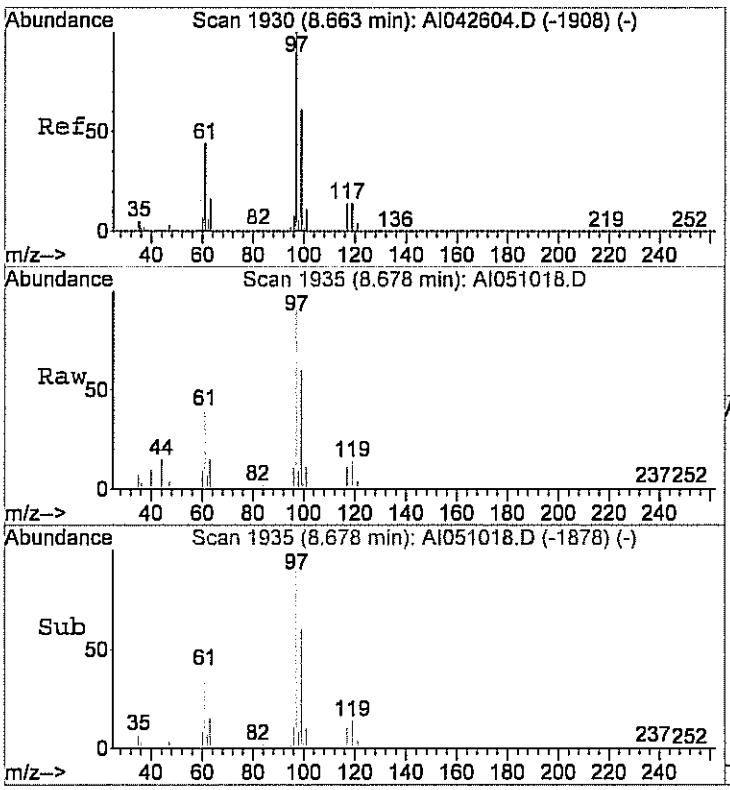


#29
Chloroform
Concen: 0.91 ppb
RT: 7.89 min Scan# 1673
Delta R.T. 0.02 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion: 83 Resp: 46521

Ion	Ratio	Lower	Upper
83	100		
85	63.3	45.9	85.9

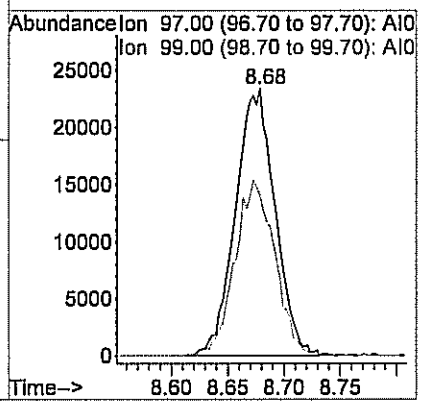


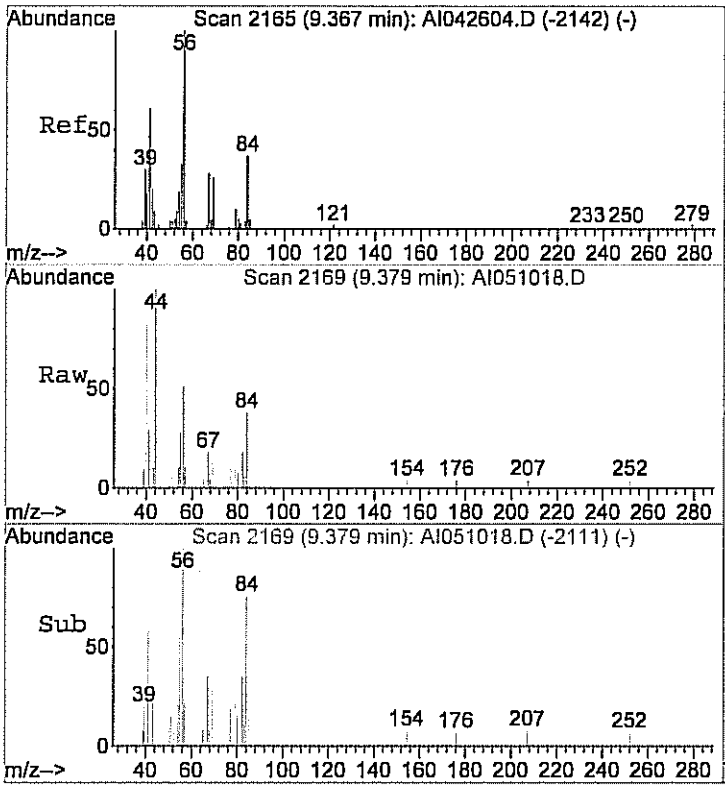


#33
1,1,1-trichloroethane
Concen: 1.54 ppb
RT: 8.68 min Scan# 1935
Delta R.T. 0.02 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion: 97 Resp: 57464

Ion	Ratio	Lower	Upper
97	100		
99	65.9	47.3	87.3

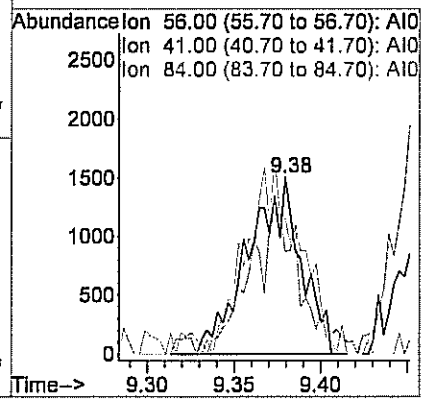


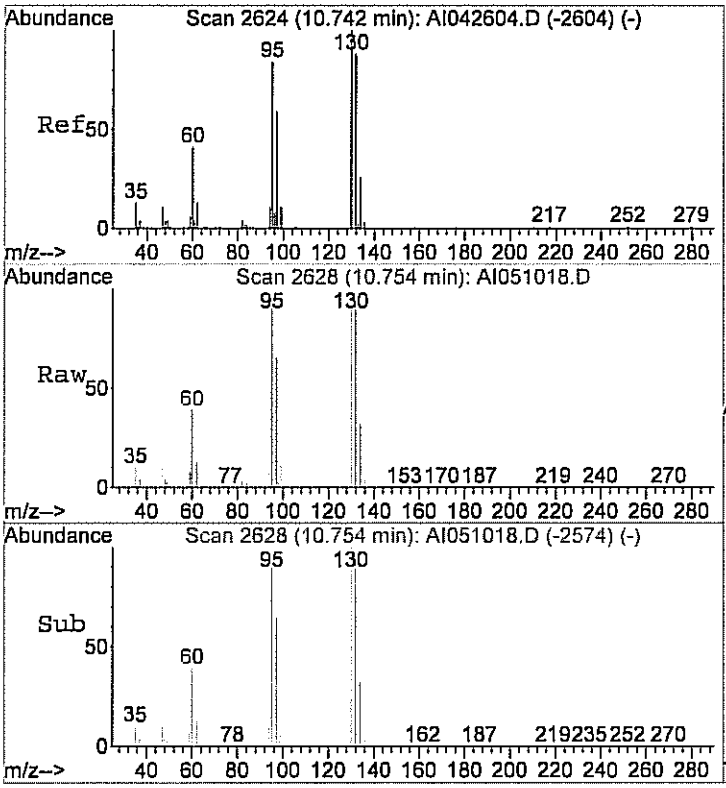


#34
Cyclohexane
Concen: 0.17 ppb
RT: 9.38 min Scan# 2169
Delta R.T. 0.02 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion: 56 Resp: 3192

Ion	Ratio	Lower	Upper
56	100		
41	50.7	46.1	86.1
84	106.5	110.9	150.9#

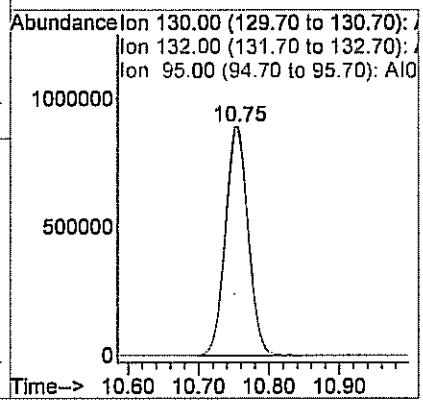




#41
Trichloroethene
Concen: 59.23 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051018.D
Acq: 11 May 2011 12:03 am

Tgt Ion:130 Resp: 2038971

Ion	Ratio	Lower	Upper
130	100		
132	97.5	75.8	115.8
95	95.6	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051225.D Vial: 22
Acq On : 13 May 2011 3:56 am Operator: RJP
Sample : C1105011-002A 270X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 04:17:05 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

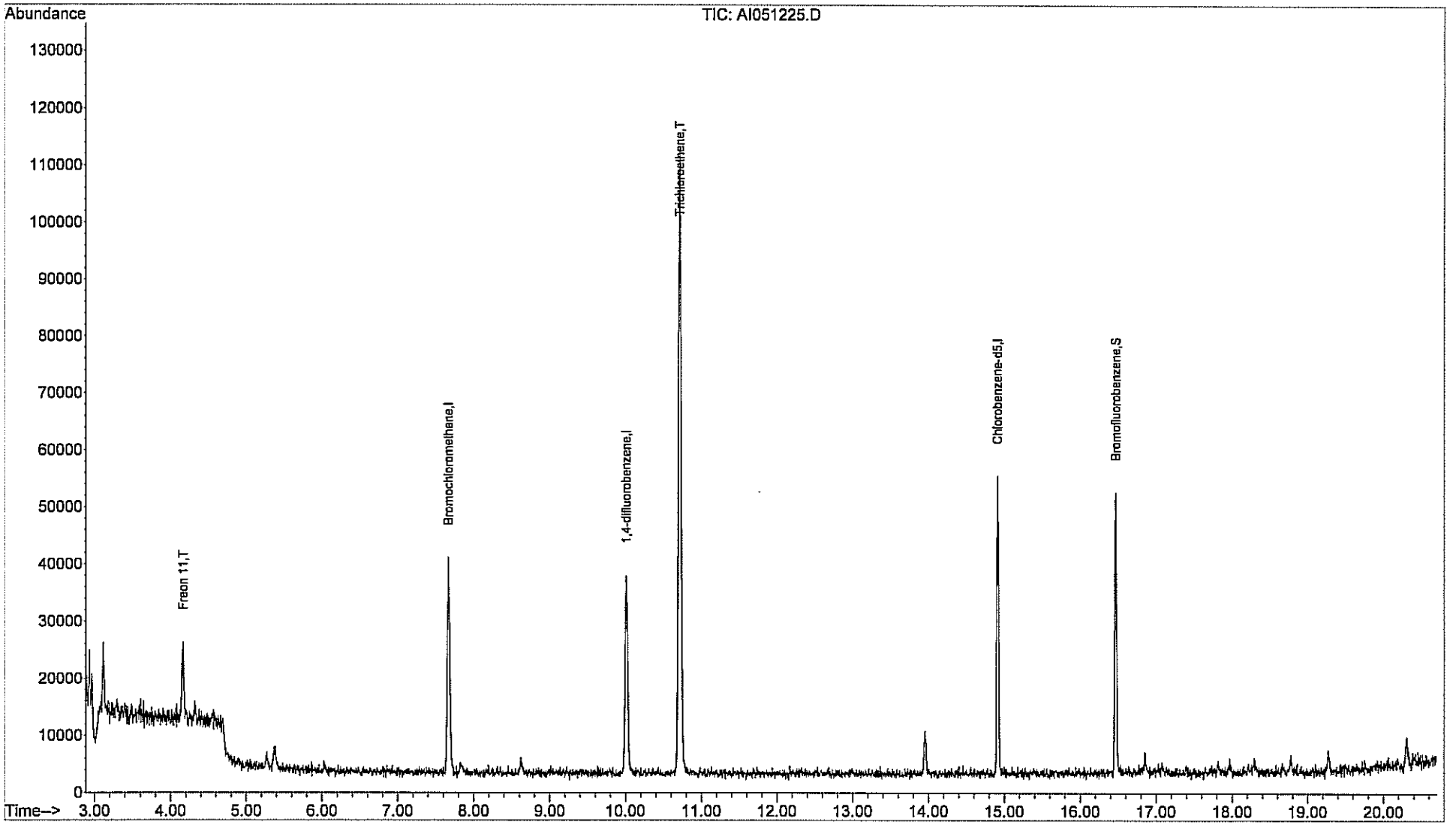
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.67	128	13751	1.00	ppb	-0.05
32) 1,4-difluorobenzene	10.01	114	35781	1.00	ppb	-0.03
47) Chlorobenzene-d5	14.91	117	30129	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	14327	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
13) Freon 11	4.16	101	10304	0.26	ppb	97
41) Trichloroethene	10.71	130	48395	1.99	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051225.D A325_1UG.M Sat Jun 04 14:15:04 2011 MSD1 Page 1

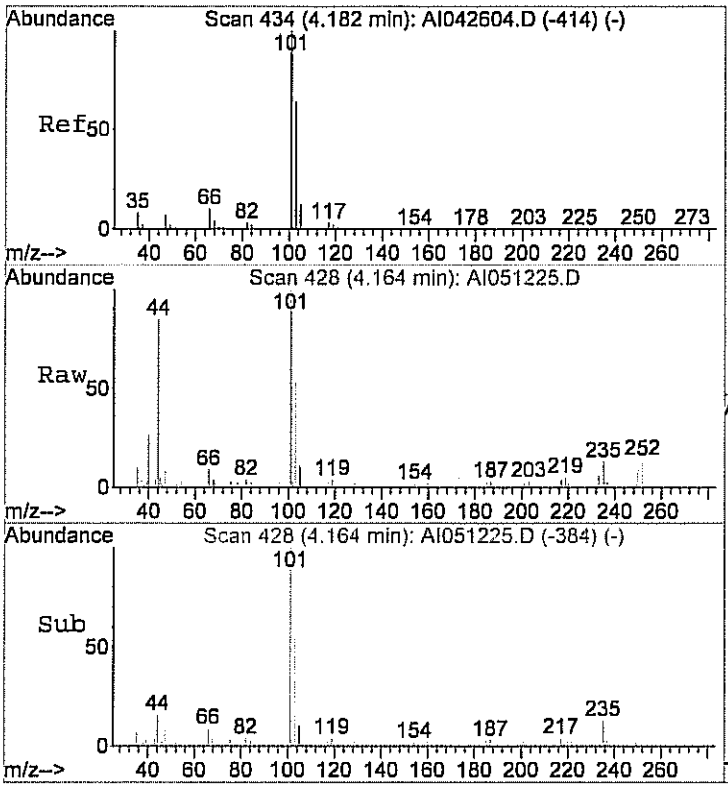
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051225.D Vial: 22
Acq On : 13 May 2011 3:56 am Operator: RJP
Sample : C1105011-002A 270X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 13:57 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



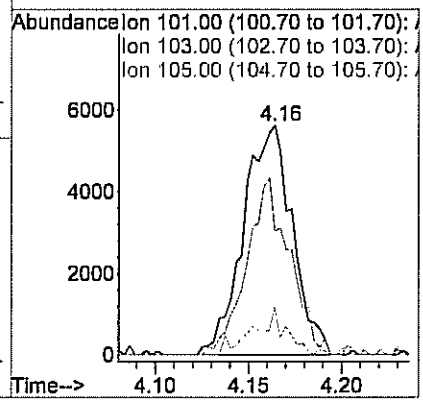
Centek laboratories, LLC

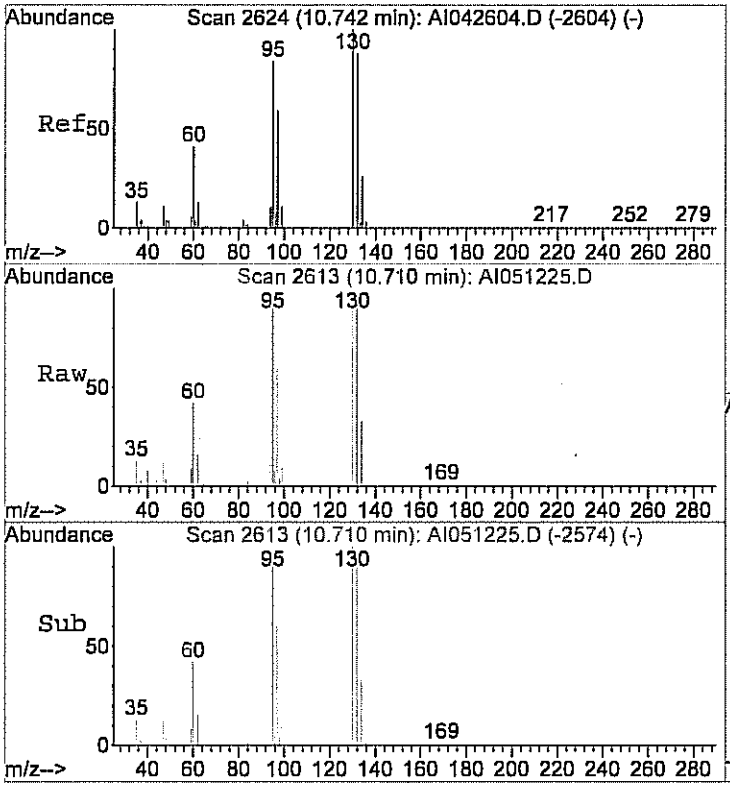


#13
Freon 11
Concen: 0.26 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI051225.D
Acq: 13 May 2011 3:56 am

Tgt Ion:101 Resp: 10304

Ion	Ratio	Lower	Upper
101	100		
103	67.4	45.1	85.1
105	12.0	0.0	31.5

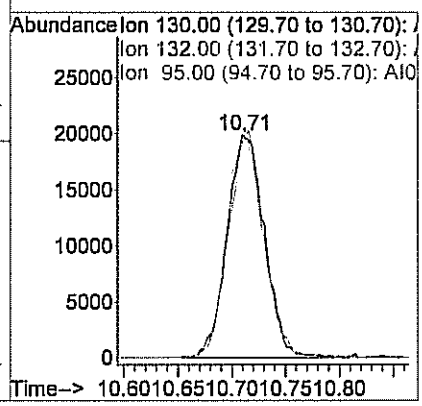




#41
Trichloroethene
Concen: 1.99 ppb
RT: 10.71 min Scan# 2613
Delta R.T. -0.03 min
Lab File: AI051225.D
Acq: 13 May 2011 3:56 am

Tgt Ion:130 Resp: 48395

Ion	Ratio	Lower	Upper
130	100		
132	97.5	75.8	115.8
95	98.3	76.8	116.8



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.1	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	0.45	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
4-ethyltoluene	0.85	0.15		ppbV	1	5/10/2011 7:10:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzene	0.78	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.070	0.040		ppbV	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroform	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Cyclohexane	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.35	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 11	110	14		ppbV	90	5/13/2011 5:28:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 7:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
m&p-Xylene	1.0	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
o-Xylene	0.50	0.15		ppbV	1	5/10/2011 7:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Toluene	0.59	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Trichloroethene	56	3.6		ppbV	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:10:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	12	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	6.3	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:10:00 PM
4-ethyltoluene	4.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:10:00 PM
Benzene	2.5	0.49		ug/m3	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.45	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:10:00 PM
Chloroform	9.1	0.74		ug/m3	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Cyclohexane	6.2	0.52		ug/m3	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Freon 11	630	80		ug/m3	90	5/13/2011 5:28:00 AM
Freon 113	0.86	1.2	J	ug/m3	1	5/10/2011 7:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 7:10:00 PM
m&p-Xylene	4.5	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:10:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:10:00 PM
Toluene	2.3	0.57		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Trichloroethene	300	20		ug/m3	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051010.D Vial: 23
Acq On : 10 May 2011 7:10 pm Operator: RJP
Sample : C1105011-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 19:31:45 2011 Quant Results File: A325_1UG.RES

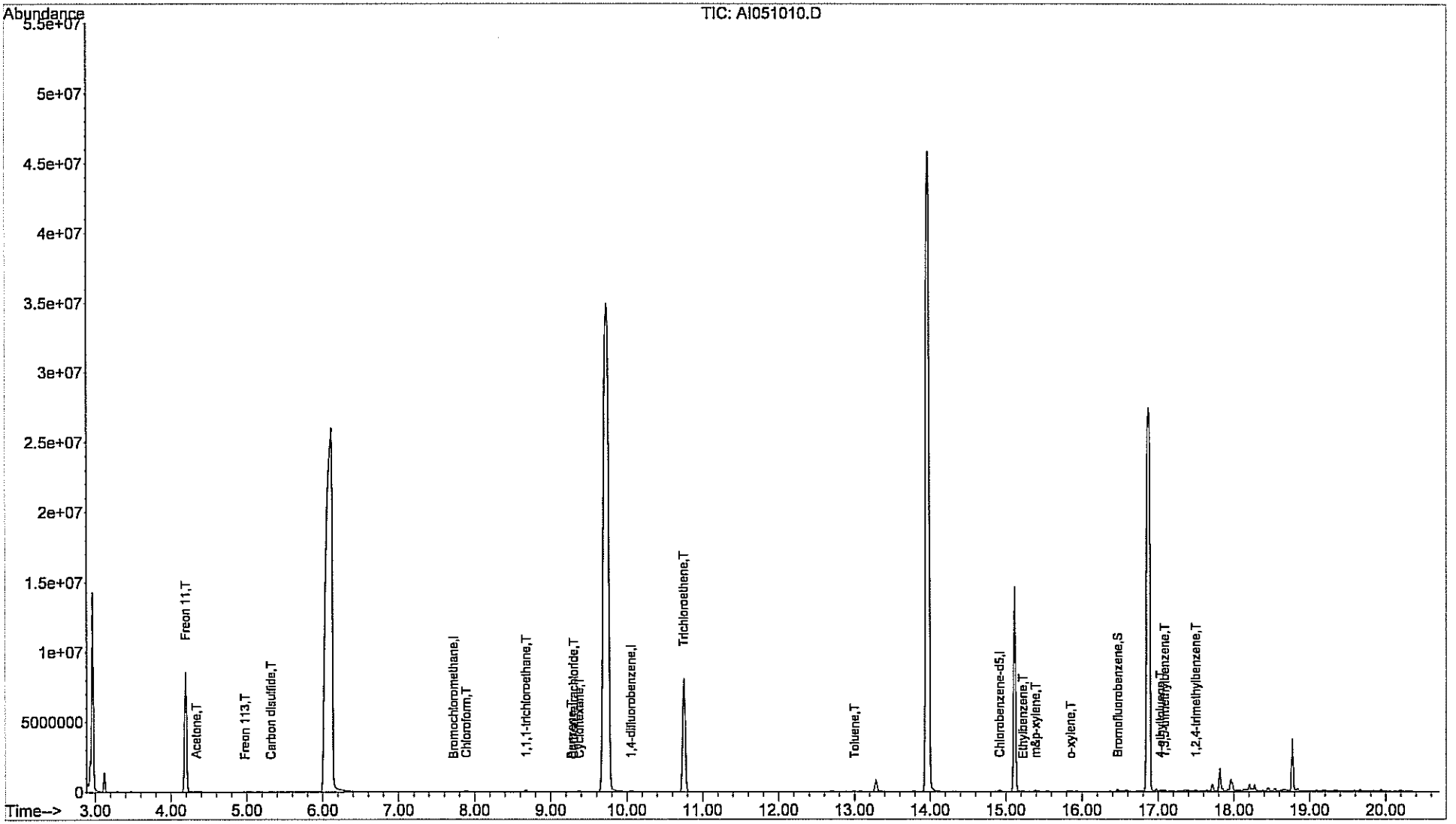
Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	18356	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.05	114	73702	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	66916	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	40255	1.09	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%				
Target Compounds							Qvalue
13) Freon 11	4.19	101	6911894	129.57	ppb		99
14) Acetone	4.34	58	35363	5.96	ppb	#	78
17) Freon 113	4.97	101	5865	0.11	ppb		98
20) Carbon disulfide	5.32	76	20739	0.30	ppb		98
29) Chloroform	7.89	83	103748	1.84	ppb		99
33) 1,1,1-trichloroethane	8.68	97	116120	2.14	ppb		97
34) Cyclohexane	9.38	56	48719	1.77	ppb	#	58
35) Carbon tetrachloride	9.31	117	6340	0.07	ppb		94
36) Benzene	9.27	78	56095	0.78	ppb		100
41) Trichloroethene	10.75	130	3601957	72.01	ppb		99
48) Toluene	13.00	92	27490	0.59	ppb		95
55) Ethylbenzene	15.22	91	31343	0.35	ppb		98
56) m&p-xylene	15.39	91	77675	1.01	ppb		100
59) o-xylene	15.85	91	43678	0.50	ppb		97
63) 4-ethyltoluene	17.03	105	61550m	0.85	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	33410	0.45	ppb		95
65) 1,2,4-trimethylbenzene	17.50	105	62796	1.27	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

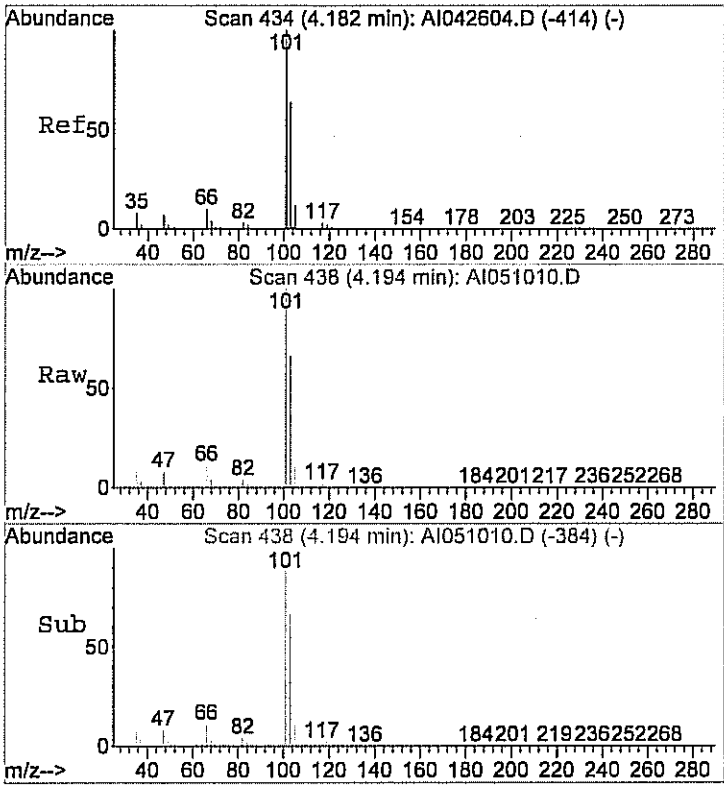
Data File : C:\HPCHEM\1\DATA\AI051010.D Vial: 23
Acq On : 10 May 2011 7:10 pm Operator: RJP
Sample : C1105011-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:09 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Page 135 of 370

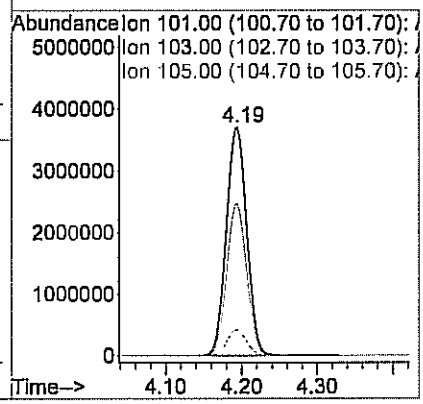
Centek laboratories, LLC

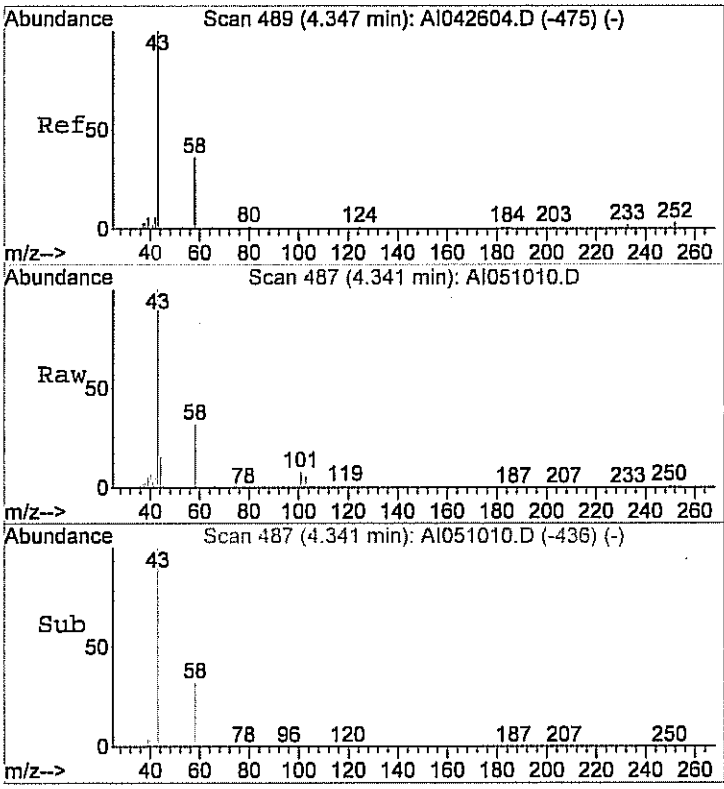


#13
Freon 11
Concen: 129.57 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:101 Resp: 6911894

Ion	Ratio	Lower	Upper
101	100		
103	65.9	45.1	85.1
105	11.0	0.0	31.5

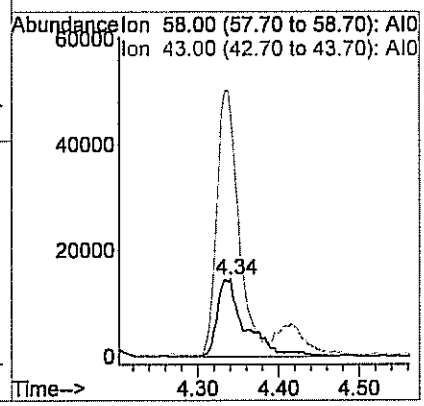


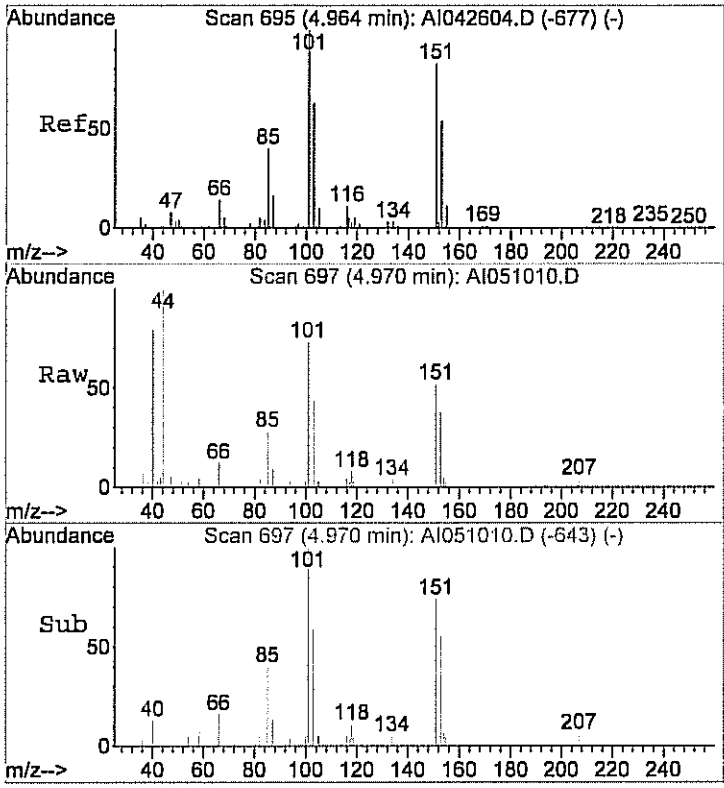


#14
Acetone
Concen: 5.96 ppb
RT: 4.34 min Scan# 487
Delta R.T. 0.00 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 58 Resp: 35363

Ion	Ratio	Lower	Upper
58	100		
43	314.8	333.6	393.6#

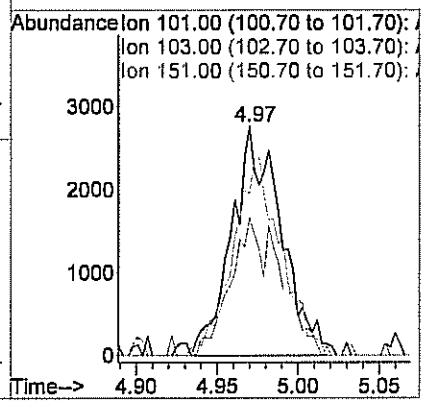


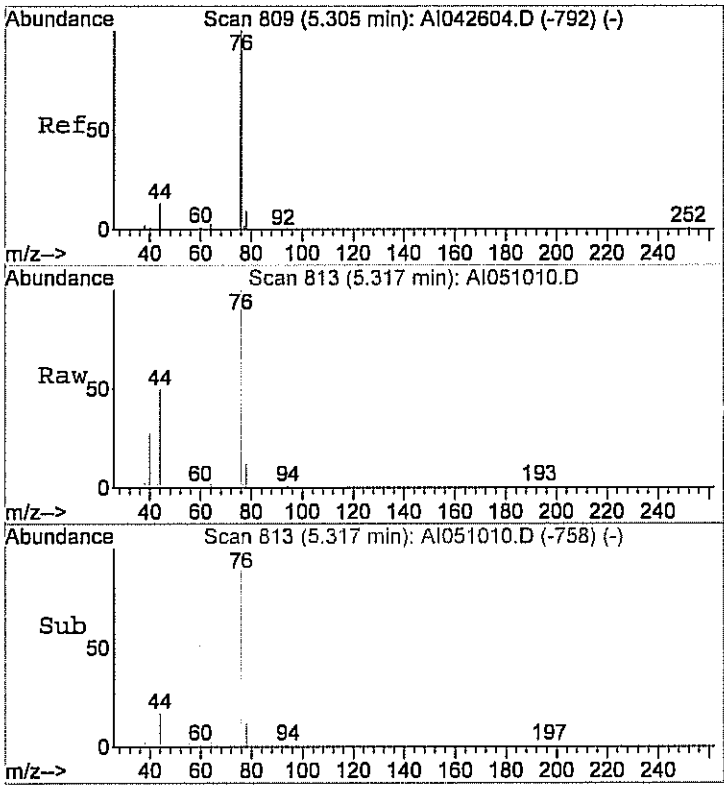


#17
Freon 113
Concen: 0.11 ppb
RT: 4.97 min Scan# 697
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:101 Resp: 5865

Ion	Ratio	Lower	Upper
101	100		
103	62.3	43.9	83.9
151	84.3	66.7	106.7

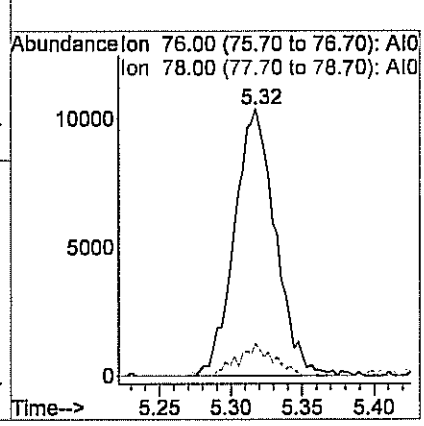


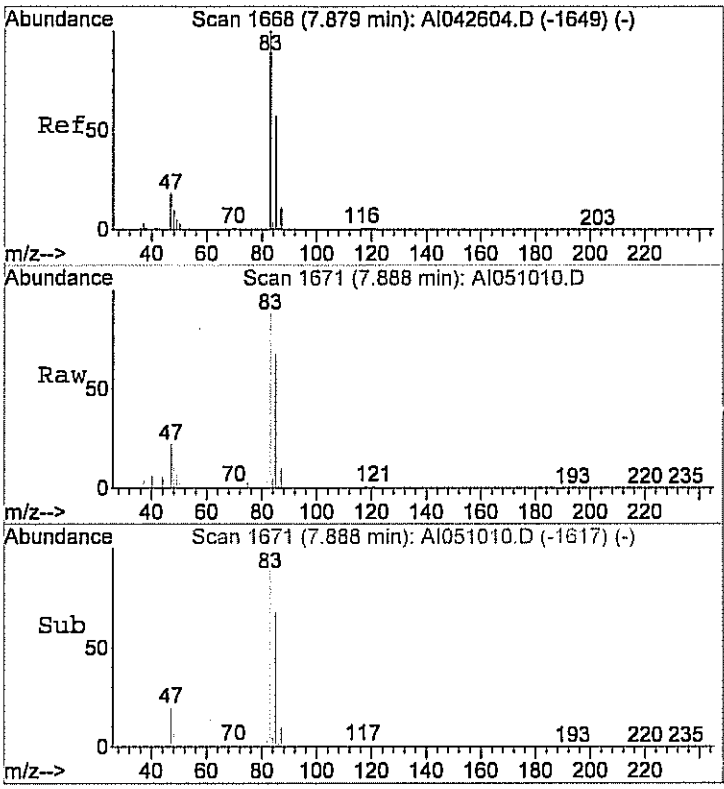


#20
Carbon disulfide
Concen: 0.30 ppb
RT: 5.32 min Scan# 813
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 76 Resp: 20739

Ion	Ratio	Lower	Upper
76	100		
78	10.2	0.0	29.3

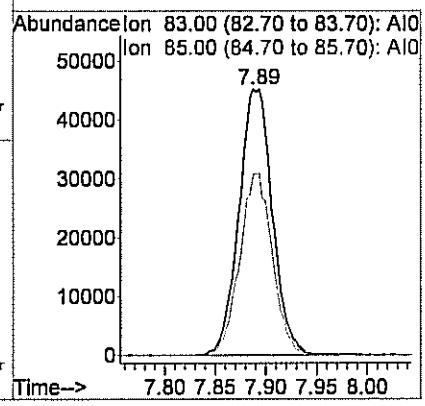


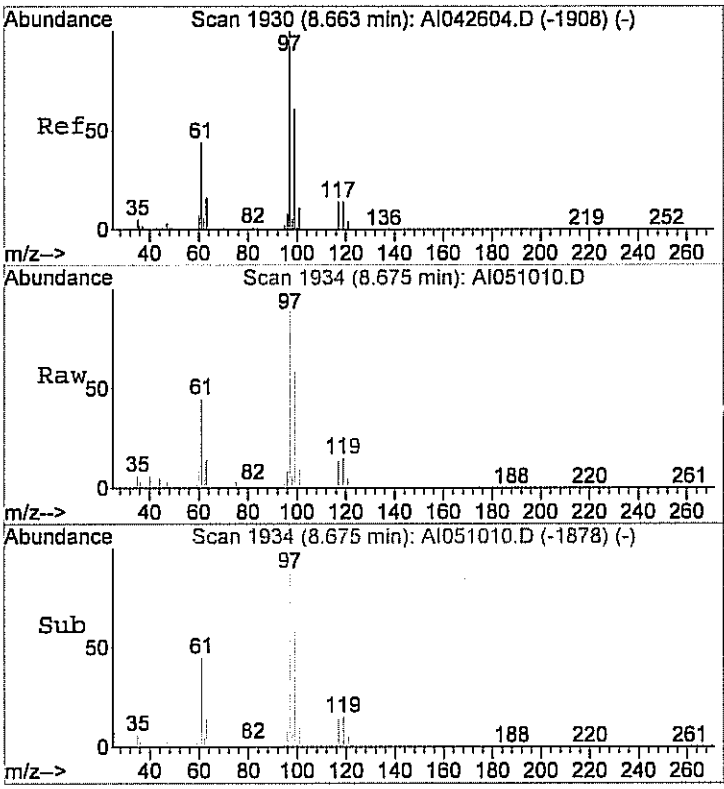


#29
Chloroform
Concen: 1.84 ppb
RT: 7.89 min Scan# 1671
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 83 Resp: 103748

Ion	Ratio	Lower	Upper
83	100		
85	66.8	45.9	85.9

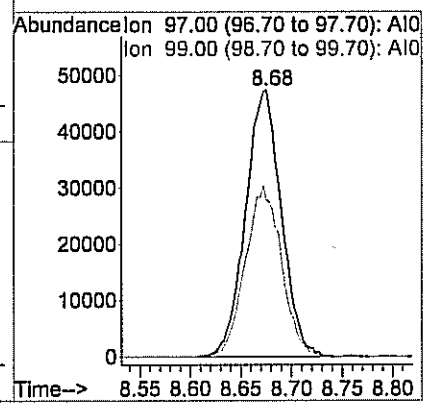


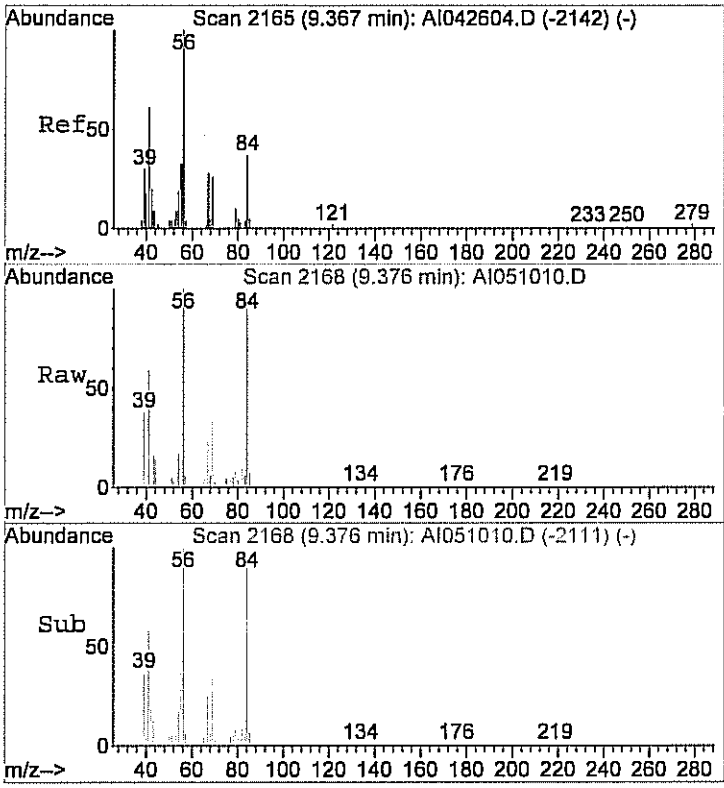


#33
1,1,1-trichloroethane
Concen: 2.14 ppb
RT: 8.68 min Scan# 1934
Delta R.T. 0.02 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 97 Resp: 116120

Ion	Ratio	Lower	Upper
97	100		
99	64.6	47.3	87.3

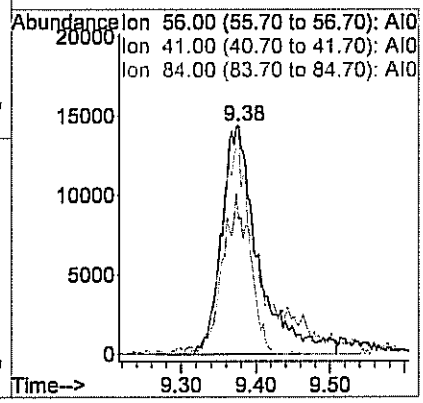


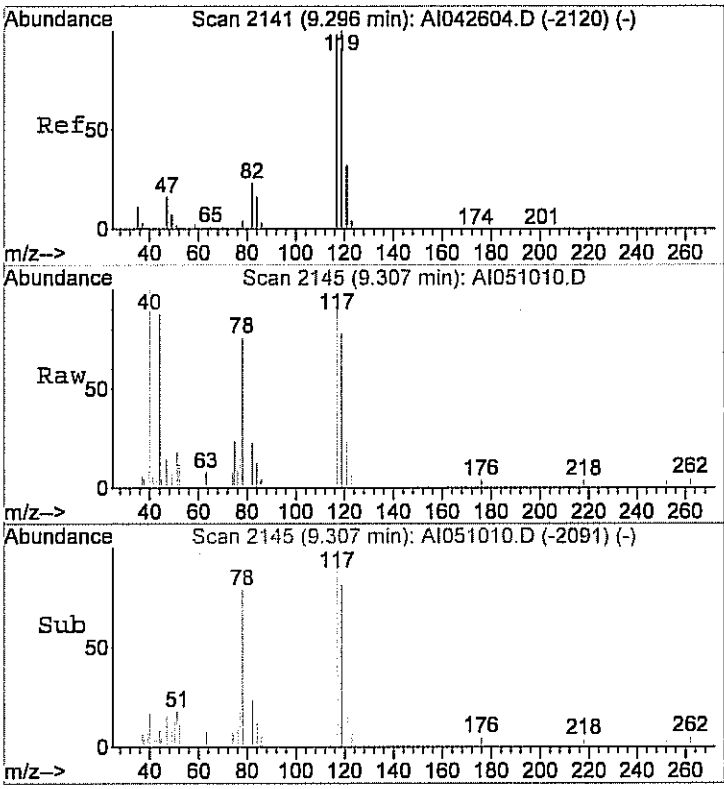


#34
Cyclohexane
Concen: 1.77 ppb
RT: 9.38 min Scan# 2168
Delta R.T. 0.02 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 56 Resp: 48719

Ion	Ratio	Lower	Upper
56	100		
41	81.0	46.1	86.1
84	68.2	110.9	150.9#

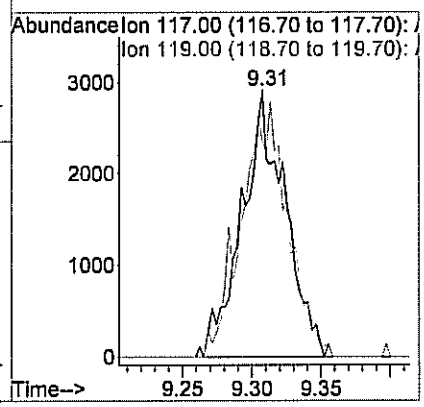


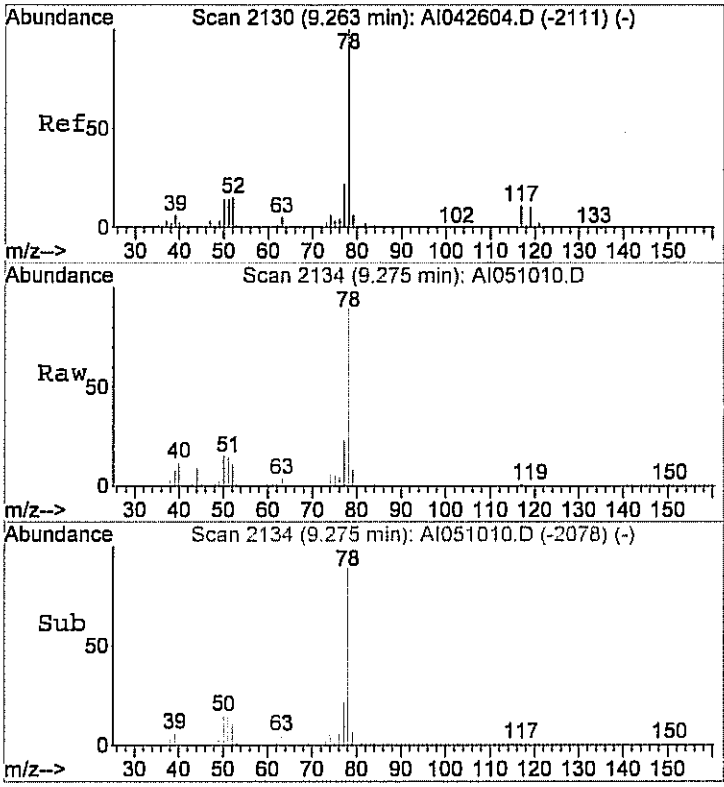


#35
Carbon tetrachloride
Concen: 0.07 ppb
RT: 9.31 min Scan# 2145
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:117 Resp: 6340

Ion	Ratio	Lower	Upper
117	100		
119	101.9	75.8	115.8

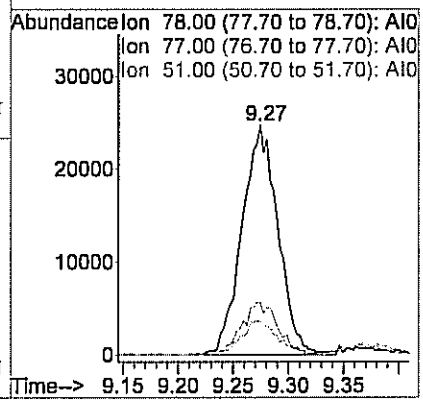


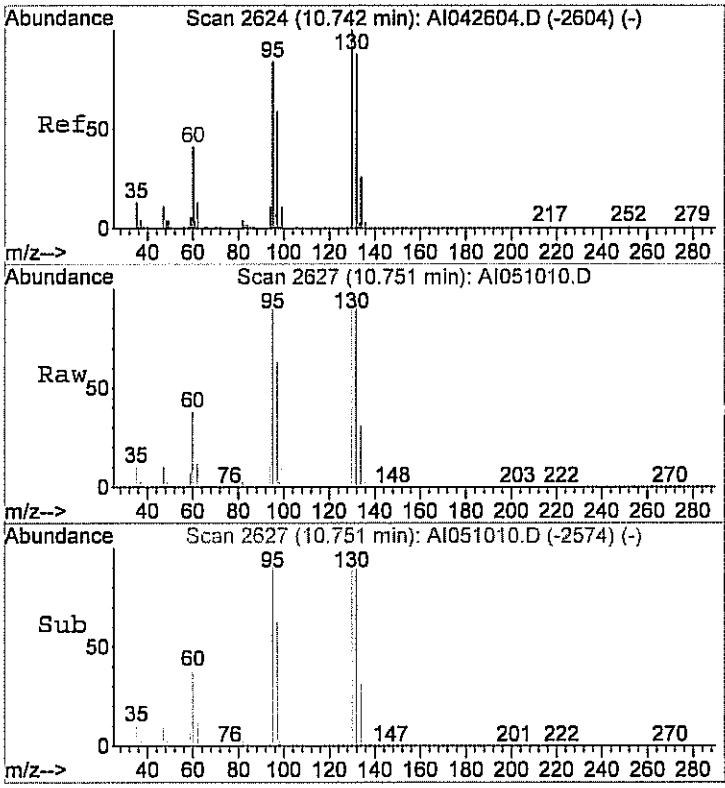


#36
Benzene
Concen: 0.78 ppb
RT: 9.27 min Scan# 2134
Delta R.T. 0.02 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 78 Resp: 56095

Ion	Ratio	Lower	Upper
78	100		
77	23.5	3.4	43.4
51	14.9	0.0	35.0

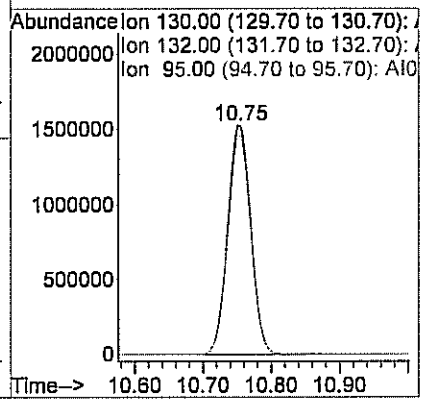


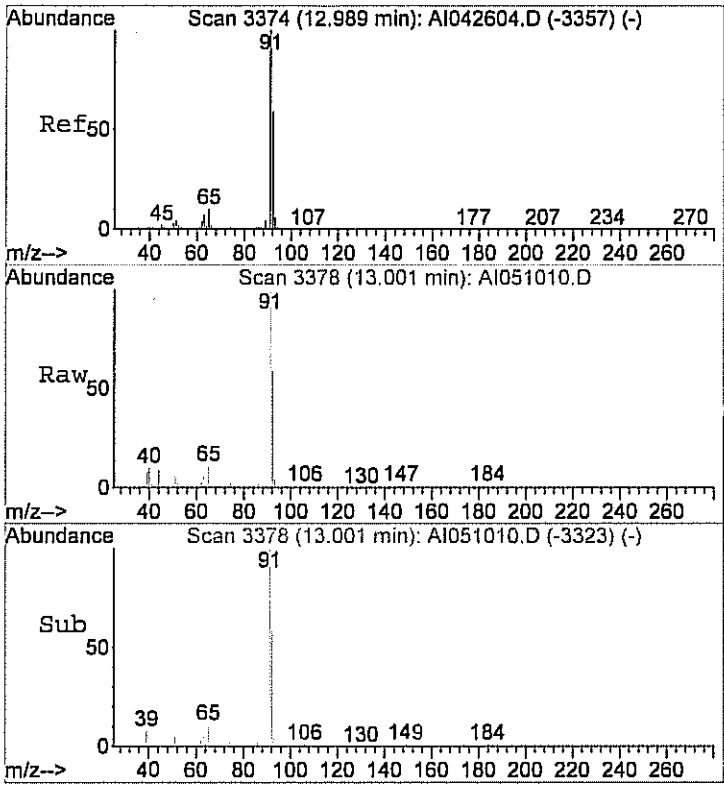


#41
Trichloroethene
Concen: 72.01 ppb
RT: 10.75 min Scan# 2627
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:130 Resp: 3601957

Ion	Ratio	Lower	Upper
130	100		
132	97.0	75.8	115.8
95	96.1	76.8	116.8

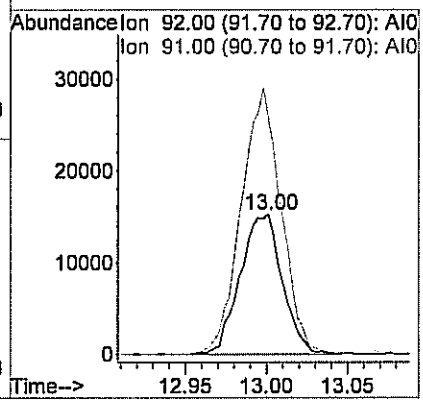


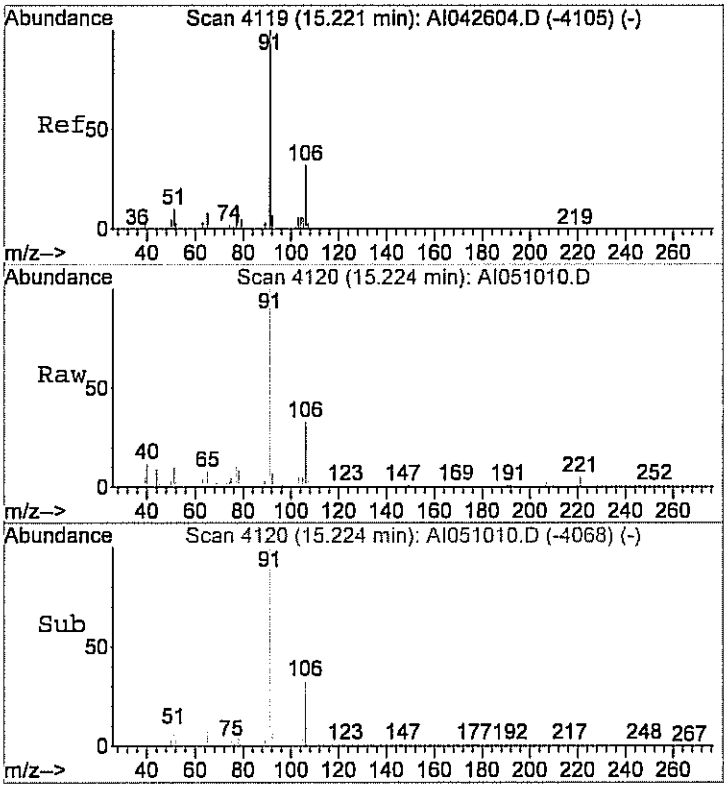


#48
Toluene
Concen: 0.59 ppb
RT: 13.00 min Scan# 3378
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 92 Resp: 27490

Ion	Ratio	Lower	Upper
92	100		
91	179.8	152.8	192.8

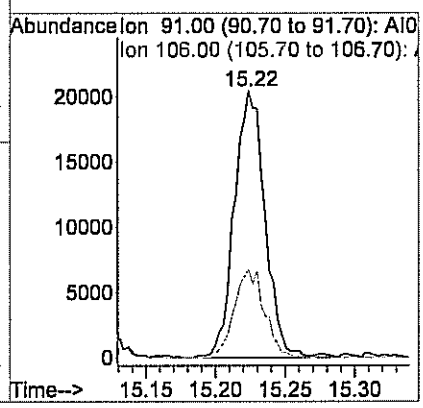


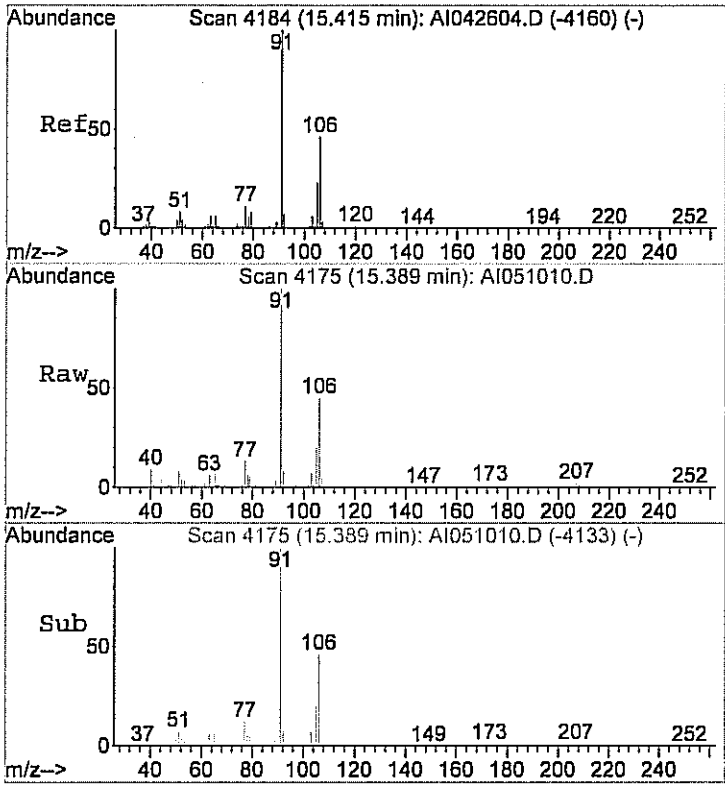


#55
Ethylbenzene
Concen: 0.35 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 91 Resp: 31343

Ion	Ratio	Lower	Upper
91	100		
106	32.7	11.8	51.8

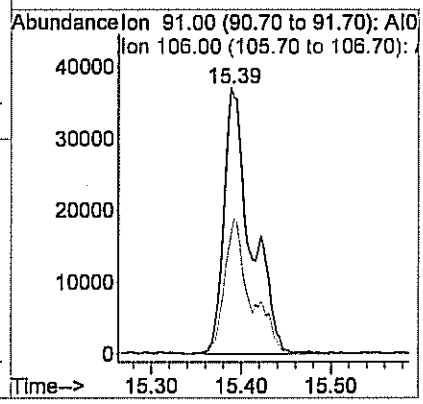


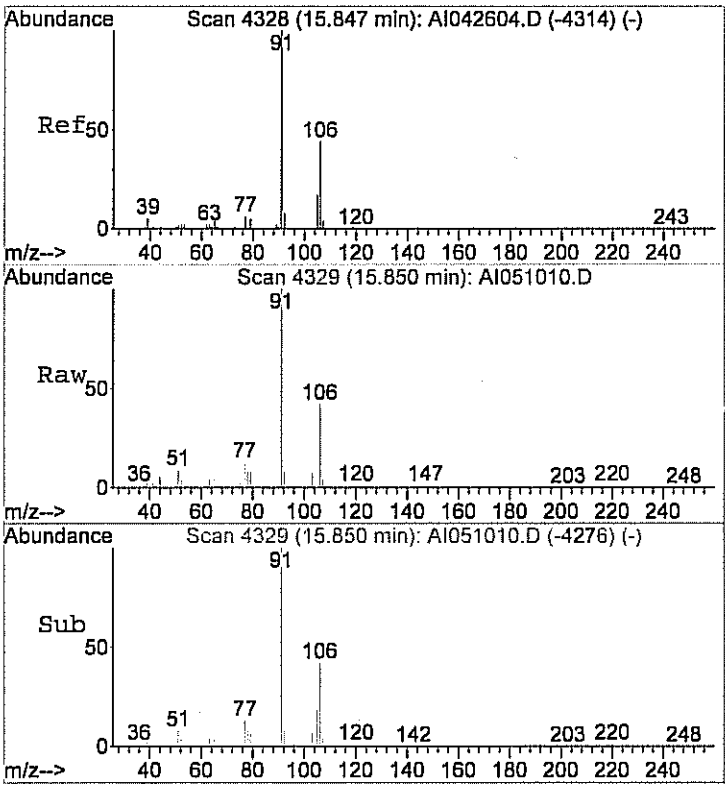


#56
m&p-xylene
Concen: 1.01 ppb
RT: 15.39 min Scan# 4175
Delta R.T. -0.02 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 91 Resp: 77675

Ion	Ratio	Lower	Upper
91	100		
106	48.7	28.7	68.7

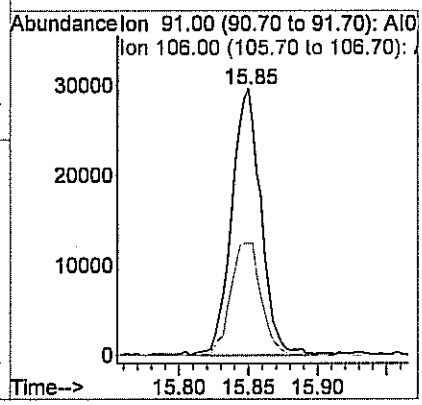


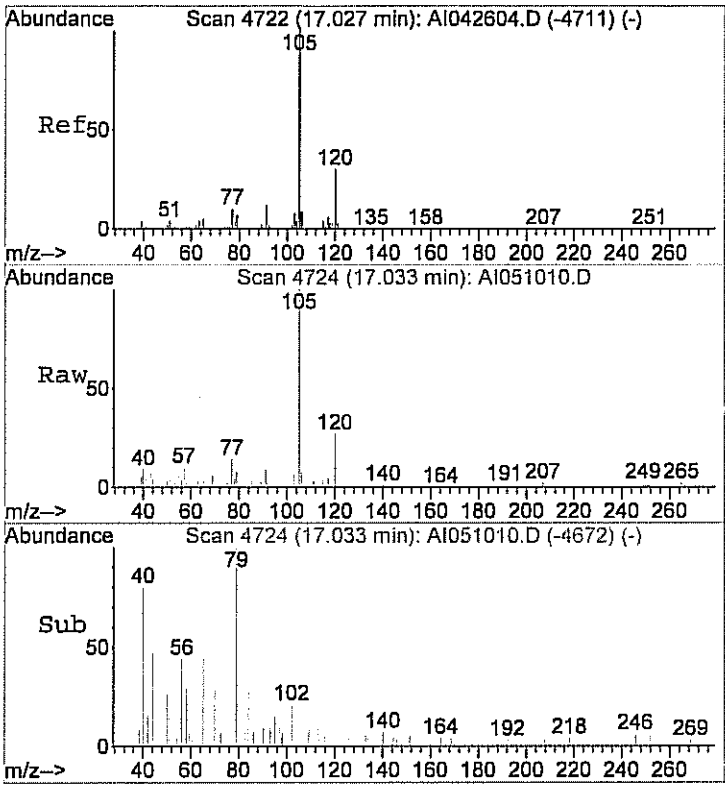


#59
o-xylene
Concen: 0.50 ppb
RT: 15.85 min Scan# 4329
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion: 91 Resp: 43678

Ion	Ratio	Lower	Upper
91	100		
106	44.0	25.6	65.6

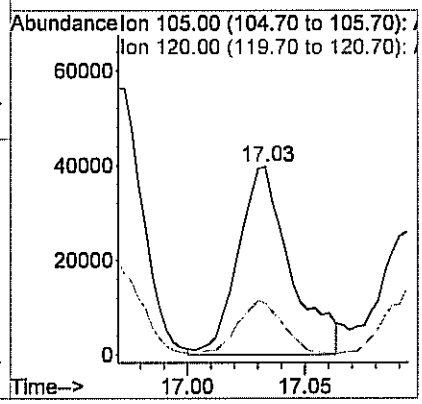


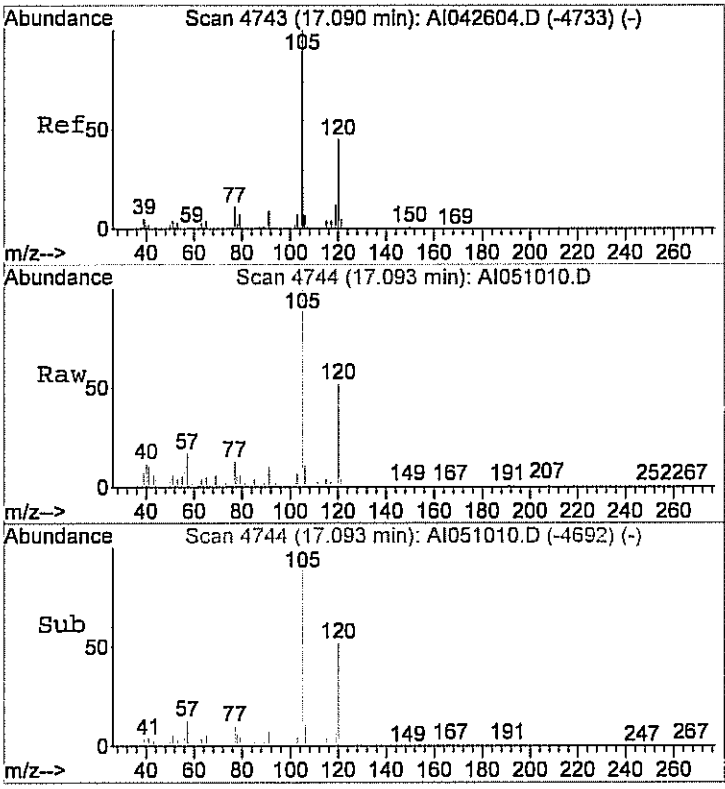


#63
4-ethyltoluene
Concen: 0.85 ppb m
RT: 17.03 min Scan# 4724
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:105 Resp: 61550

Ion	Ratio	Lower	Upper
105	100		
120	27.7	26.5	66.5

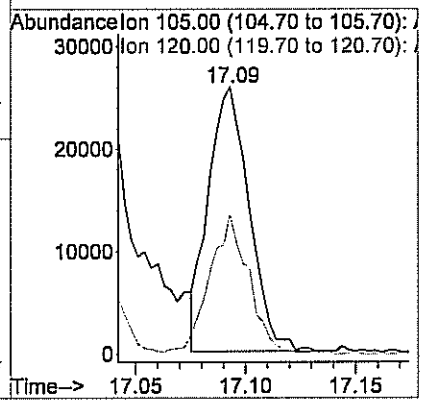


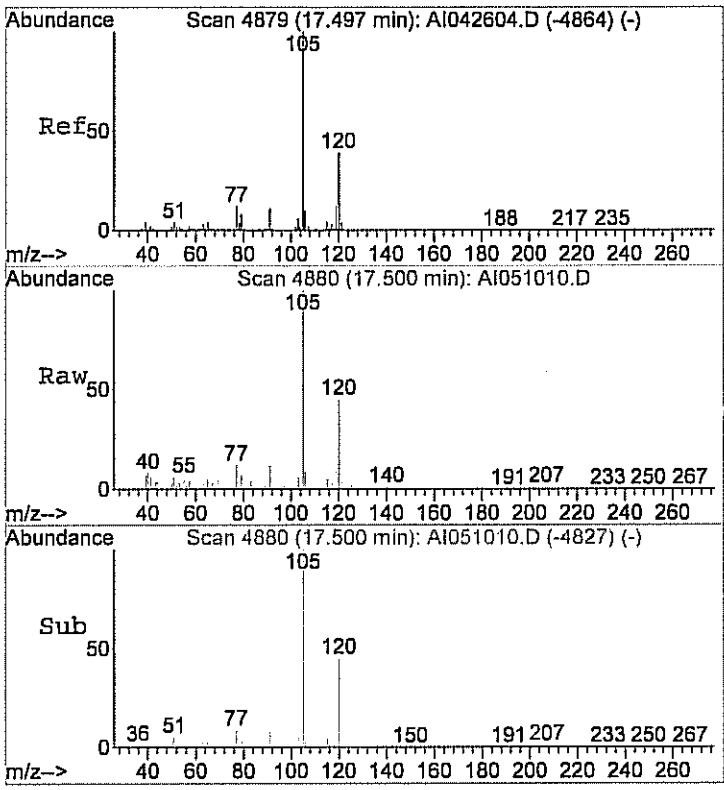


#64
1,3,5-trimethylbenzene
Concen: 0.45 ppb
RT: 17.09 min Scan# 4744
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:105 Resp: 33410

Ion	Ratio	Lower	Upper
105	100		
120	51.0	27.4	67.4

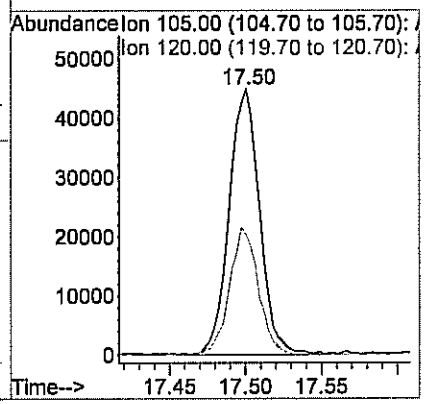




#65
1,2,4-trimethylbenzene
Concen: 1.27 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051010.D
Acq: 10 May 2011 7:10 pm

Tgt Ion:105 Resp: 62796

Ion	Ratio	Lower	Upper
105	100		
120	45.2	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051019.D Vial: 23
Acq On : 11 May 2011 12:39 am Operator: RJP
Sample : C1105011-003A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 01:00:05 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

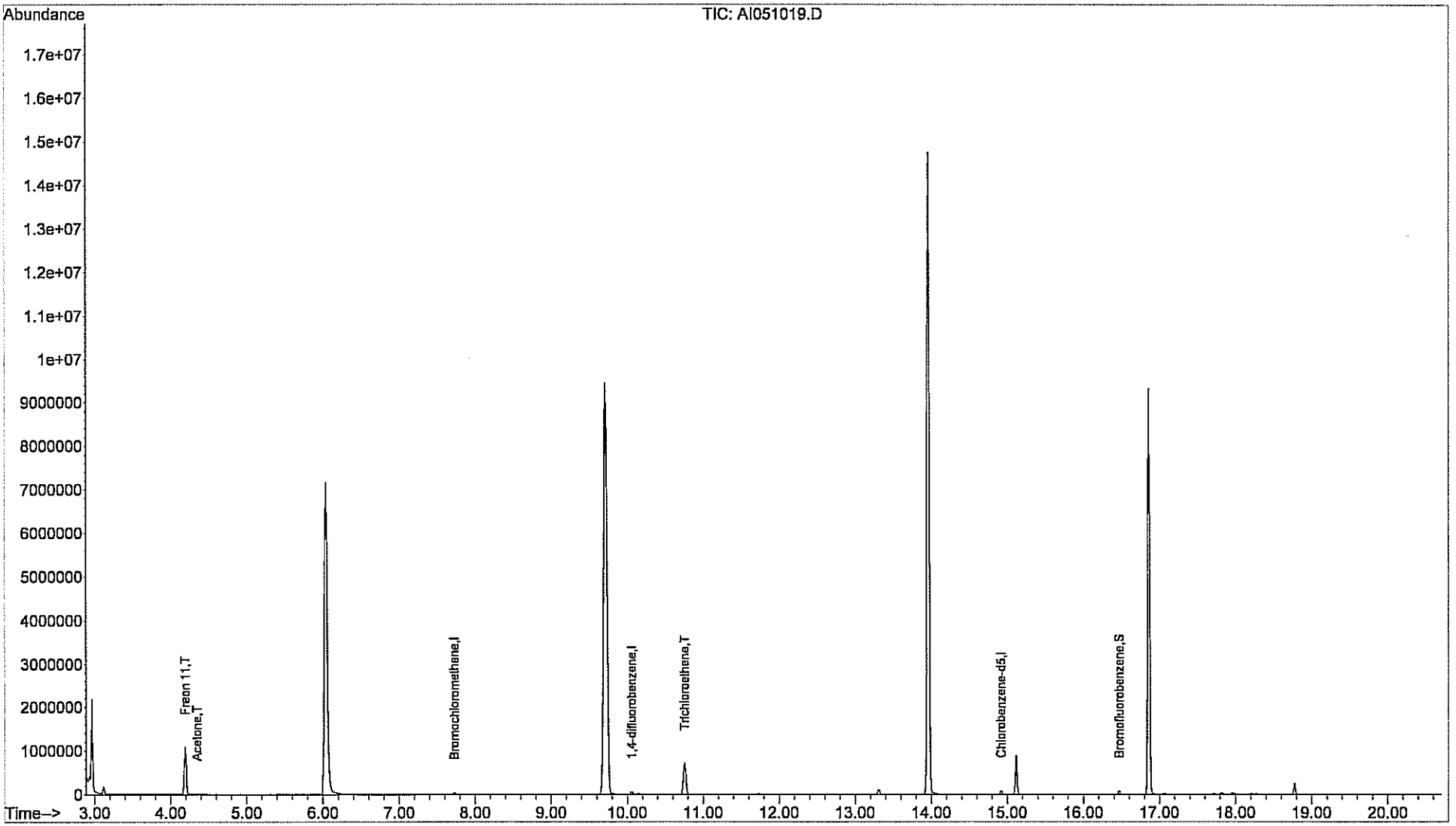
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	16392	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.06	114	54507	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	45602	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	21604	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
13) Freon 11	4.19	101	838697	17.61	ppb		99
14) Acetone	4.34	58	3807	0.72	ppb	#	57
41) Trichloroethene	10.75	130	313687	8.48	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

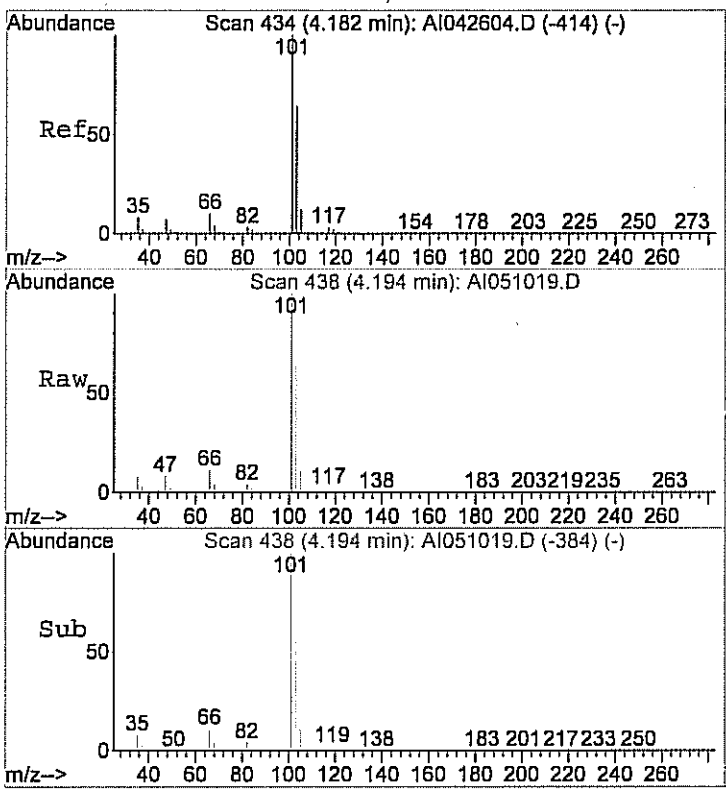
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051019.D Vial: 23
Acq On : 11 May 2011 12:39 am Operator: RJP
Sample : C1105011-003A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 13:59 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



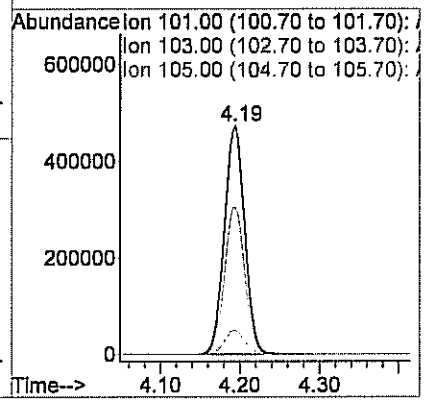
Centek laboratories, LLC

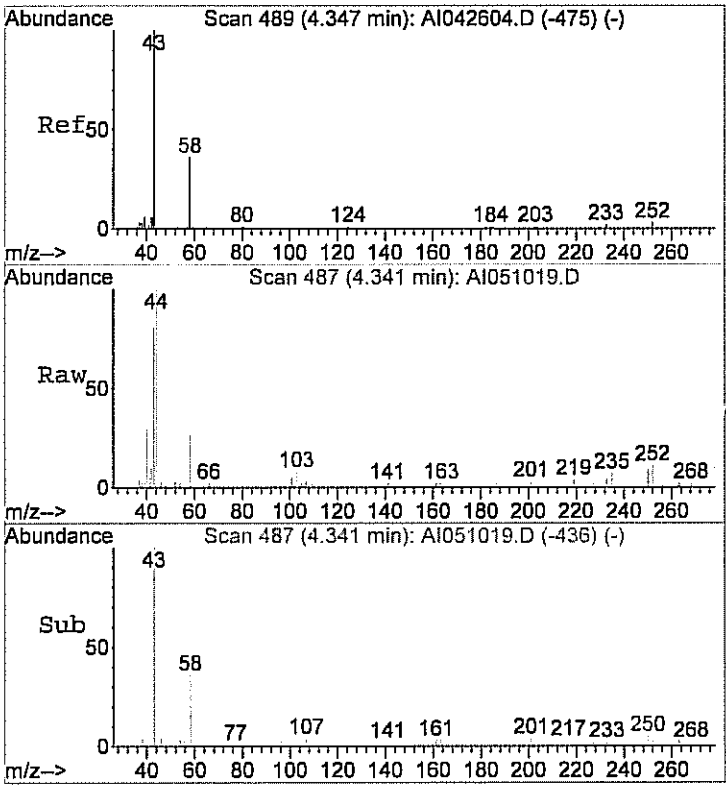


#13
Freon 11
Concen: 17.61 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051019.D
Acq: 11 May 2011 12:39 am

Tgt Ion:101 Resp: 838697

Ion	Ratio	Lower	Upper
101	100		
103	65.5	45.1	85.1
105	10.7	0.0	31.5

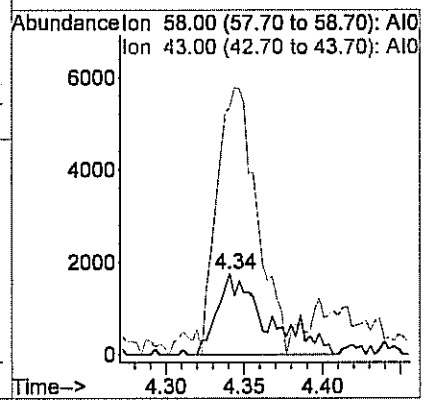


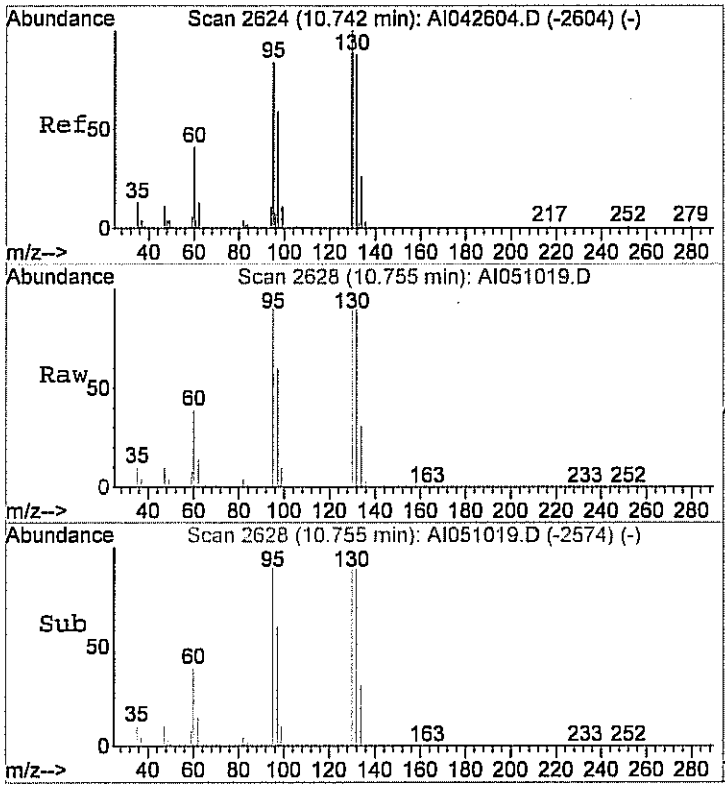


#14
Acetone
Concen: 0.72 ppb
RT: 4.34 min Scan# 487
Delta R.T. 0.00 min
Lab File: AI051019.D
Acq: 11 May 2011 12:39 am

Tgt Ion: 58 Resp: 3807

Ion	Ratio	Lower	Upper
58	100		
43	268.5	333.6	393.6#

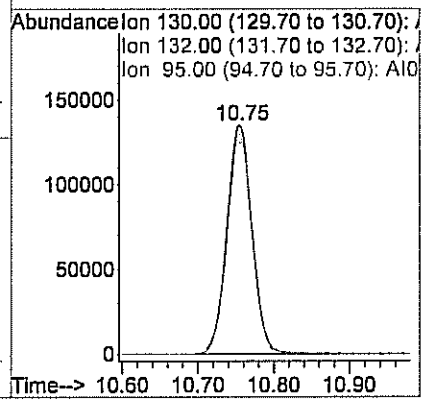




#41
Trichloroethene
Concen: 8.48 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051019.D
Acq: 11 May 2011 12:39 am

Tgt Ion:130 Resp: 313687

Ion	Ratio	Lower	Upper
130	100		
132	96.8	75.8	115.8
95	95.8	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051227.D Vial: 24
Acq On : 13 May 2011 5:28 am Operator: RJP
Sample : C1105011-003A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 05:49:06 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

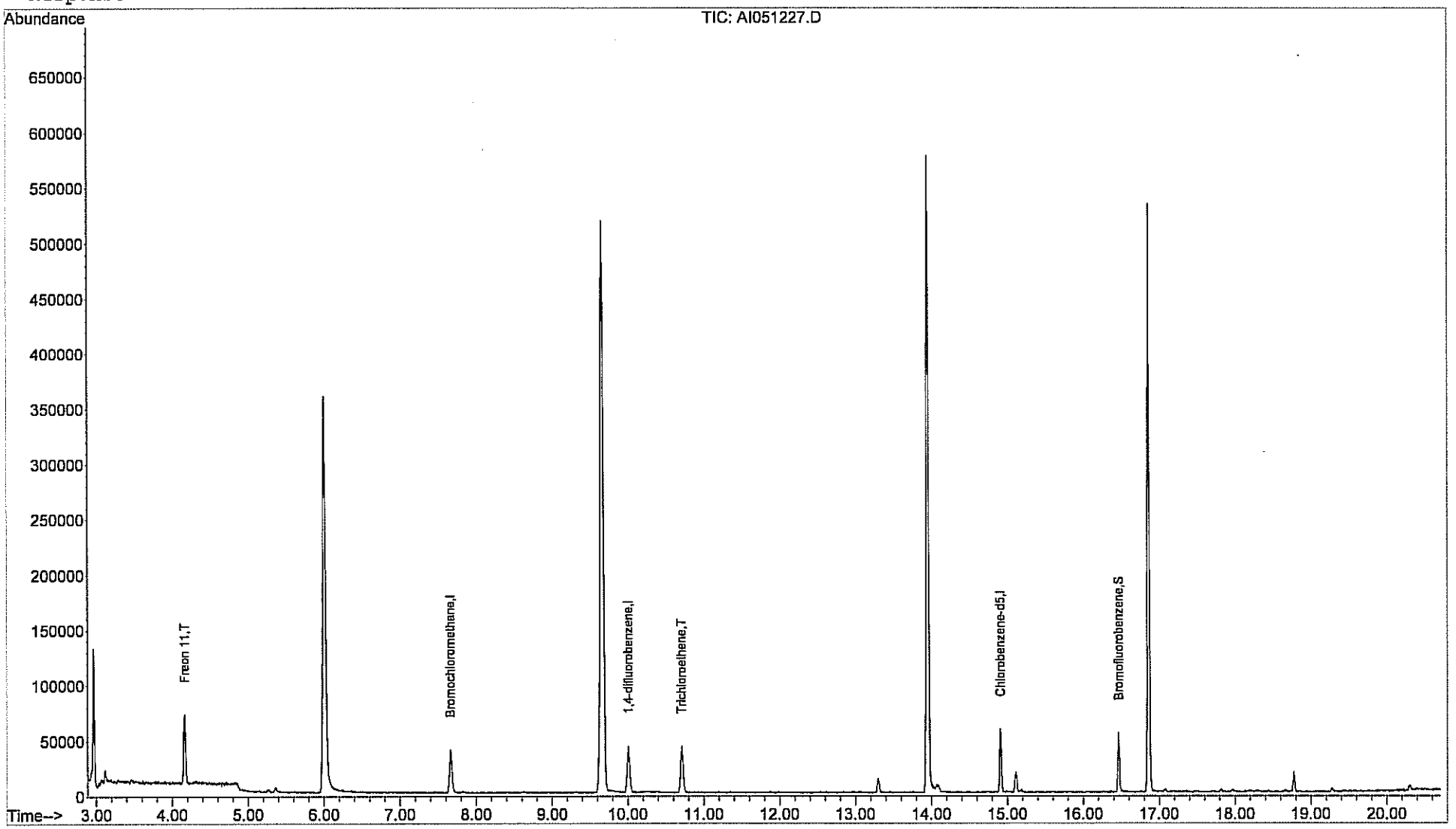
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	13675	1.00	ppb	-0.05
32) 1,4-difluorobenzene	10.01	114	41593	1.00	ppb	-0.03
47) Chlorobenzene-d5	14.91	117	31949	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	15128	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
13) Freon 11	4.16	101	49007	1.23	ppb	99
41) Trichloroethene	10.71	130	17592	0.62	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051227.D A325_1UG.M Sat Jun 04 14:15:08 2011 MSD1 Page 1

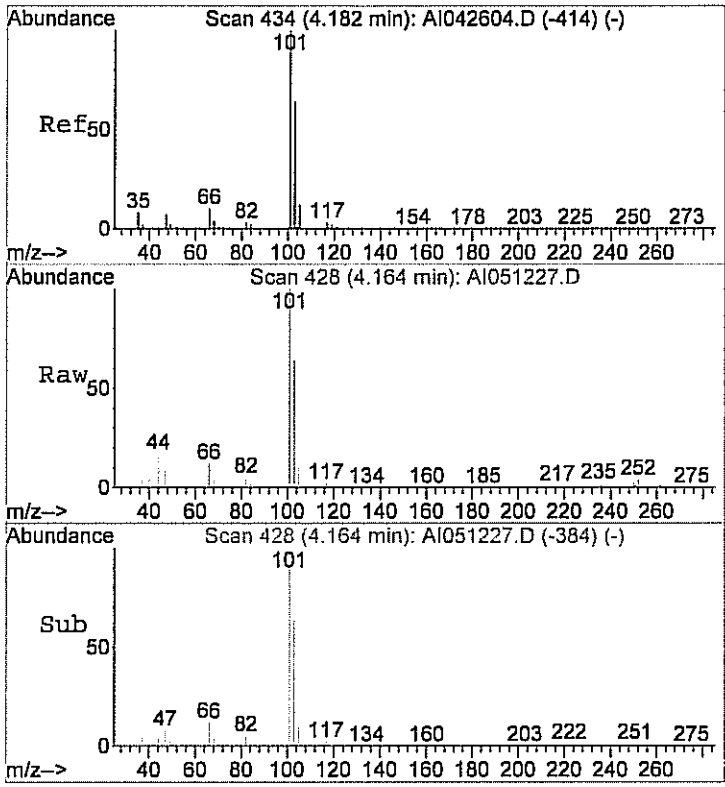
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051227.D Vial: 24
Acq On : 13 May 2011 5:28 am Operator: RJP
Sample : C1105011-003A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:00 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



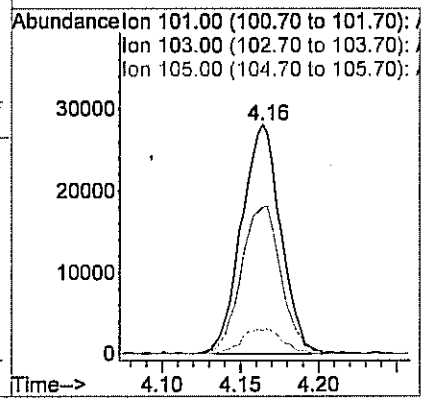
Centek laboratories, LLC

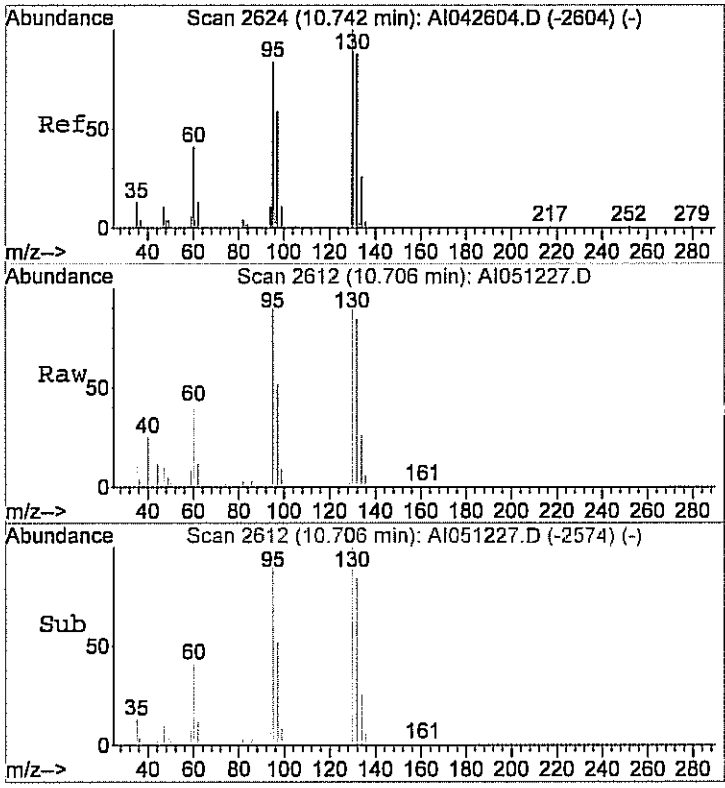


#13
Freon 11
Concen: 1.23 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI051227.D
Acq: 13 May 2011 5:28 am

Tgt Ion:101 Resp: 49007

Ion	Ratio	Lower	Upper
101	100		
103	65.6	45.1	85.1
105	11.2	0.0	31.5

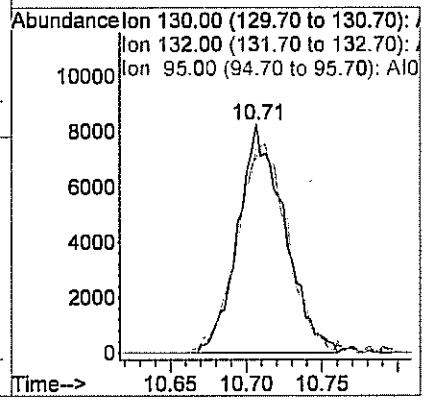




#41
Trichloroethene
Concen: 0.62 ppb
RT: 10.71 min Scan# 2612
Delta R.T. -0.04 min
Lab File: AI051227.D
Acq: 13 May 2011 5:28 am

Tgt Ion:130 Resp: 17592

Ion	Ratio	Lower	Upper
130	100		
132	98.4	75.8	115.8
95	97.8	76.8	116.8



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	0.54	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzene	0.39	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroform	0.11	0.15	J	ppbV	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Cyclohexane	0.36	0.15		ppbV	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.19	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 11	5.7	1.5		ppbV	10	5/11/2011 1:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Heptane	0.41	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexane	9.1	1.5		ppbV	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	4.5	1.5		ppbV	10	5/11/2011 1:14:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	5/10/2011 7:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Toluene	1.3	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Trichloroethene	0.81	0.040		ppbV	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:46:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Acetone	52	7.2		ug/m3	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:46:00 PM
Benzene	1.3	0.49		ug/m3	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:46:00 PM
Chloroform	0.55	0.74	J	ug/m3	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Cyclohexane	1.3	0.52		ug/m3	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
Ethylbenzene	0.84	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Freon 11	33	8.6		ug/m3	10	5/11/2011 1:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	7741A1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Heptane	1.7	0.62		ug/m3	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Hexane	33	5.4		ug/m3	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	5/11/2011 1:14:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:46:00 PM
Toluene	5.1	0.57		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Trichloroethene	4.4	0.22		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051011.D Vial: 24
Acq On : 10 May 2011 7:46 pm Operator: RJP
Sample : C1105011-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 20:07:45 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

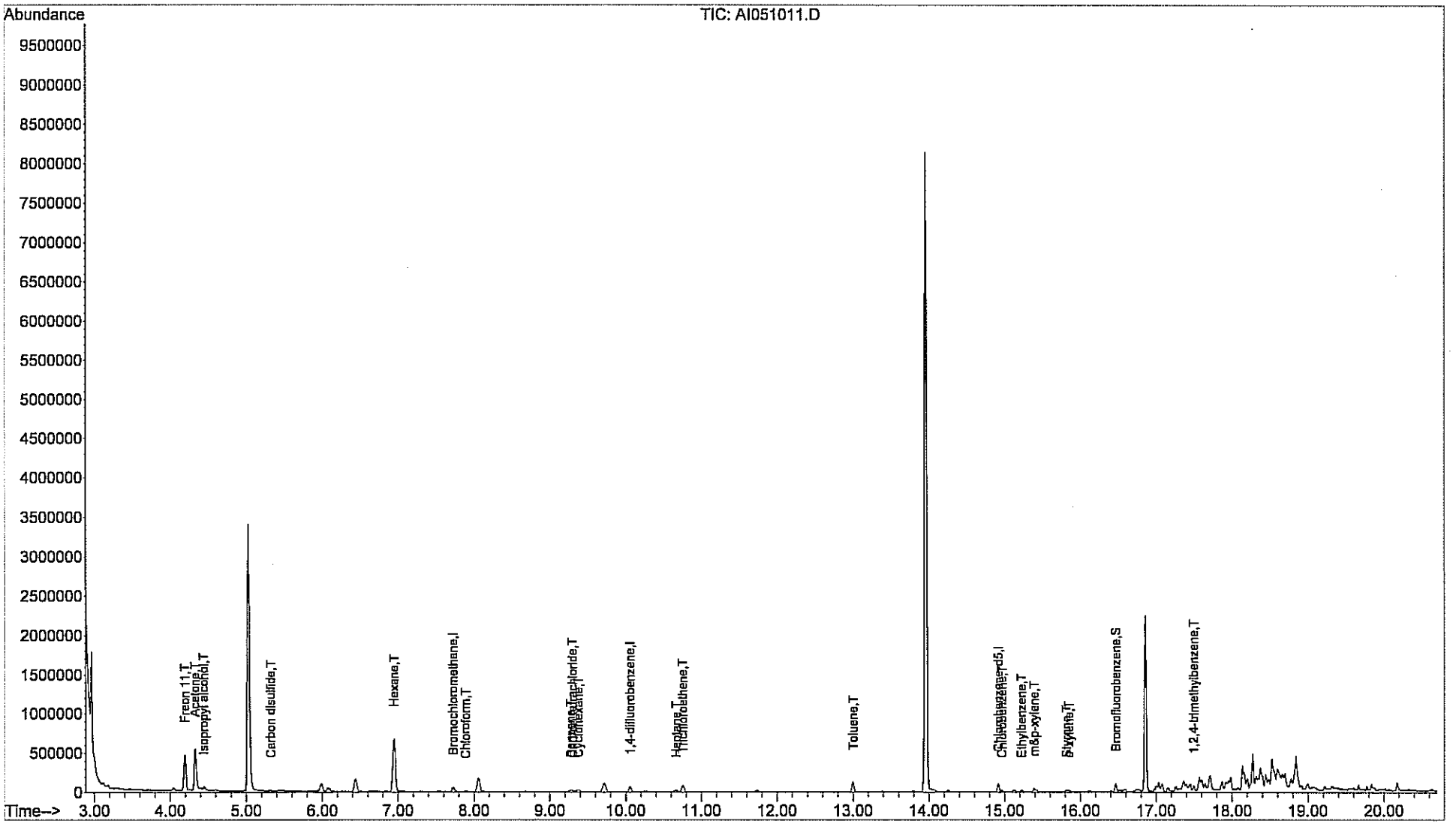
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	17074	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.05	114	59361	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	55194	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	28251	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
13) Freon 11	4.19	101	370968	7.48	ppb		100
14) Acetone	4.33	58	188125	34.10	ppb		95
15) Isopropyl alcohol	4.45	45	40627	3.24	ppb	#	36
20) Carbon disulfide	5.31	76	13724	0.21	ppb		98
27) Hexane	6.95	57	348941	17.74	ppb		97
29) Chloroform	7.90	83	5700	0.11	ppb		95
34) Cyclohexane	9.37	56	7991	0.36	ppb	#	62
35) Carbon tetrachloride	9.31	117	5307	0.08	ppb		99
36) Benzene	9.28	78	22702	0.39	ppb		97
40) Heptane	10.67	43	8767	0.41	ppb	#	78
41) Trichloroethene	10.75	130	32431	0.81	ppb		97
48) Toluene	13.00	92	50911	1.33	ppb		94
54) Chlorobenzene	14.97	112	9638	0.15	ppb		97
55) Ethylbenzene	15.22	91	14190	0.19	ppb		94
56) m&p-xylene	15.39	91	34332	0.54	ppb		97
57) Styrene	15.83	104	6360	0.18	ppb		96
59) o-xylene	15.85	91	11144	0.16	ppb		99
65) 1,2,4-trimethylbenzene	17.50	105	22075	0.54	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

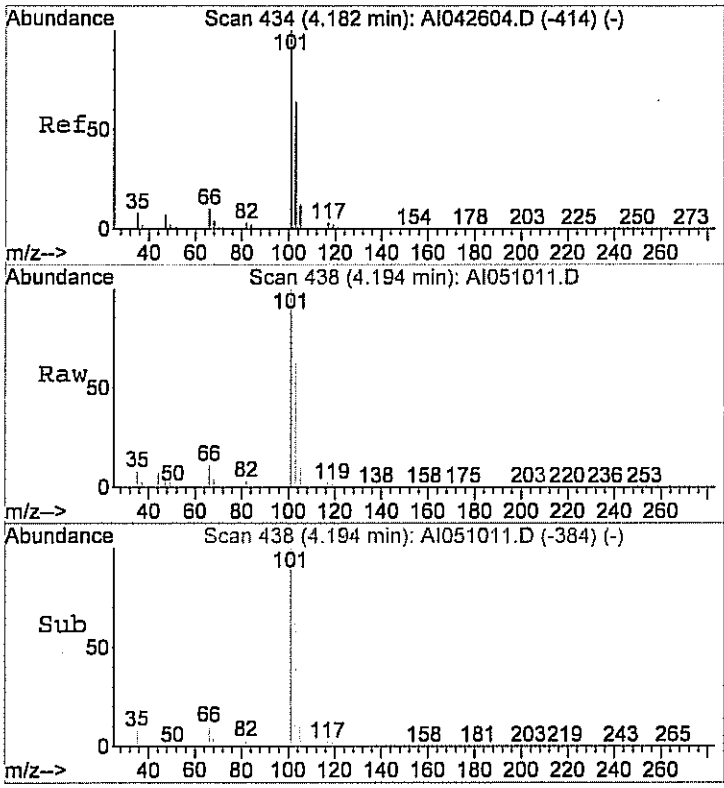
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051011.D Vial: 24
Acq On : 10 May 2011 7:46 pm Operator: RJP
Sample : C1105011-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:33 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



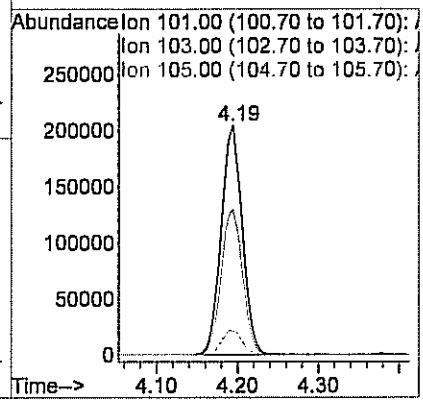
Centek laboratories, LLC

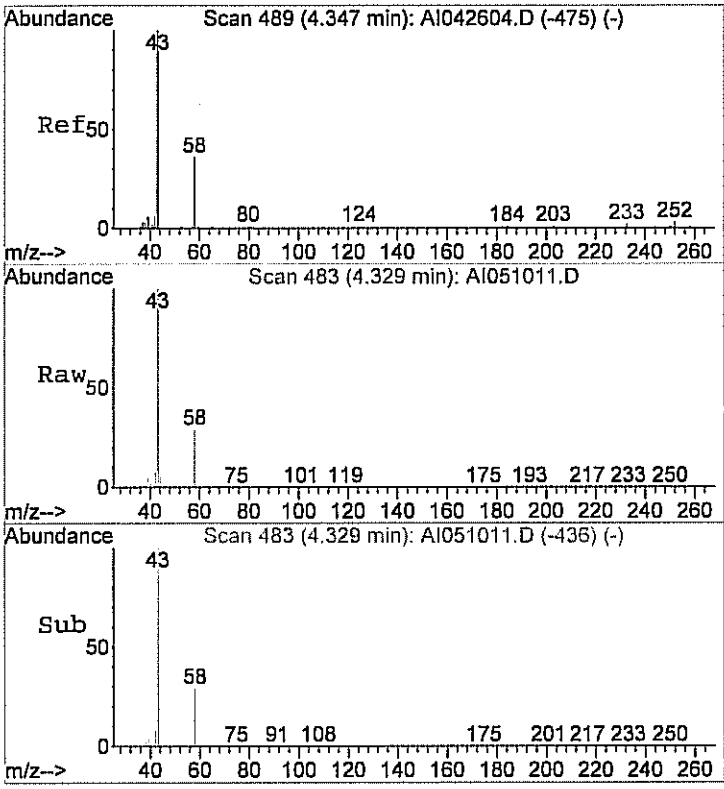


#13
Freon 11
Concen: 7.48 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:101 Resp: 370968

Ion	Ratio	Lower	Upper
101	100		
103	65.1	45.1	85.1
105	10.8	0.0	31.5

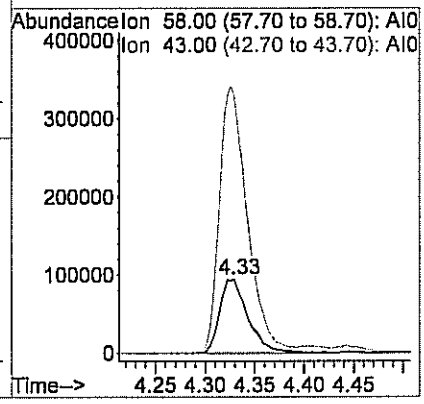


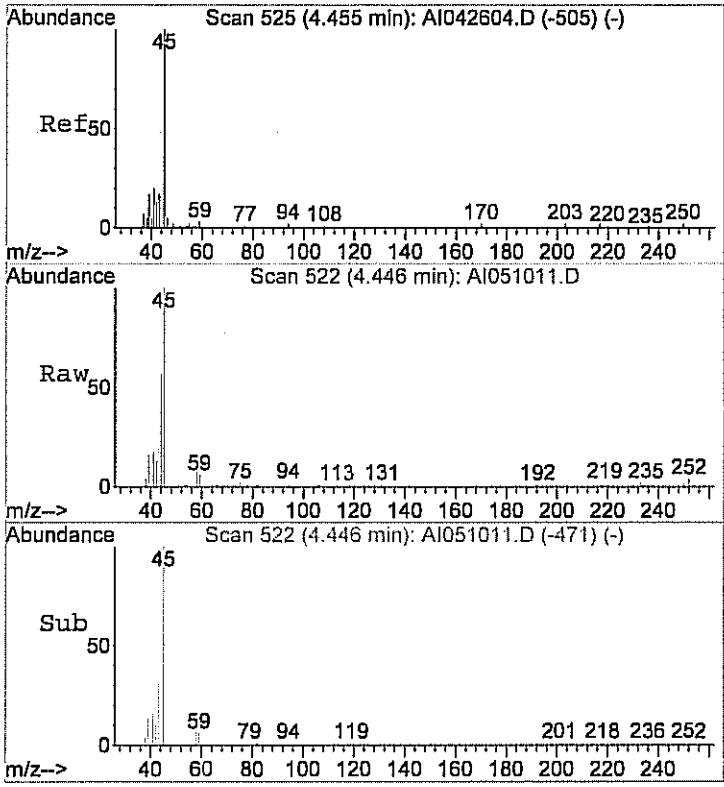


#14
Acetone
Concen: 34.10 ppb
RT: 4.33 min Scan# 483
Delta R.T. -0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 58 Resp: 188125

Ion	Ratio	Lower	Upper
58	100		
43	374.3	333.6	393.6

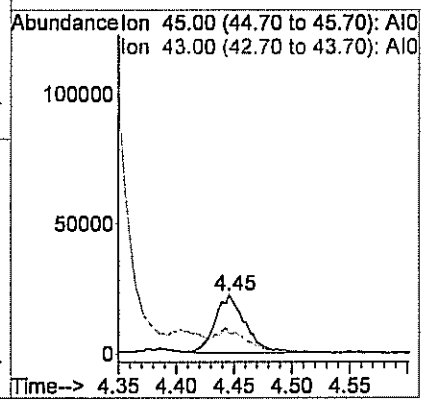


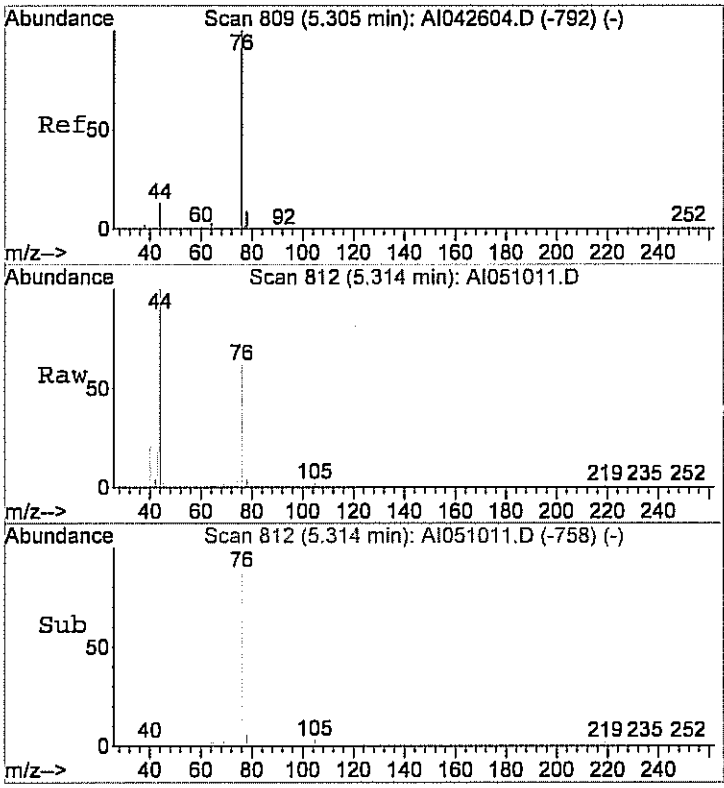


#15
Isopropyl alcohol
Concen: 3.24 ppb
RT: 4.45 min Scan# 522
Delta R.T. 0.00 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 45 Resp: 40627

Ion	Ratio	Lower	Upper
45	100		
43	0.0	19.2	59.2#

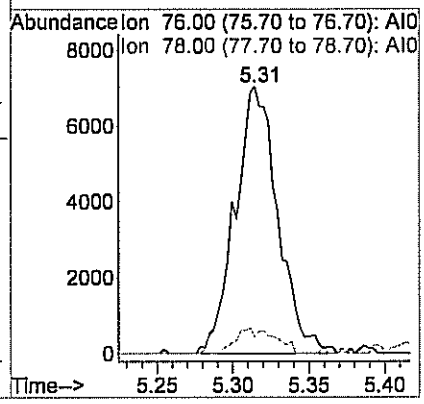


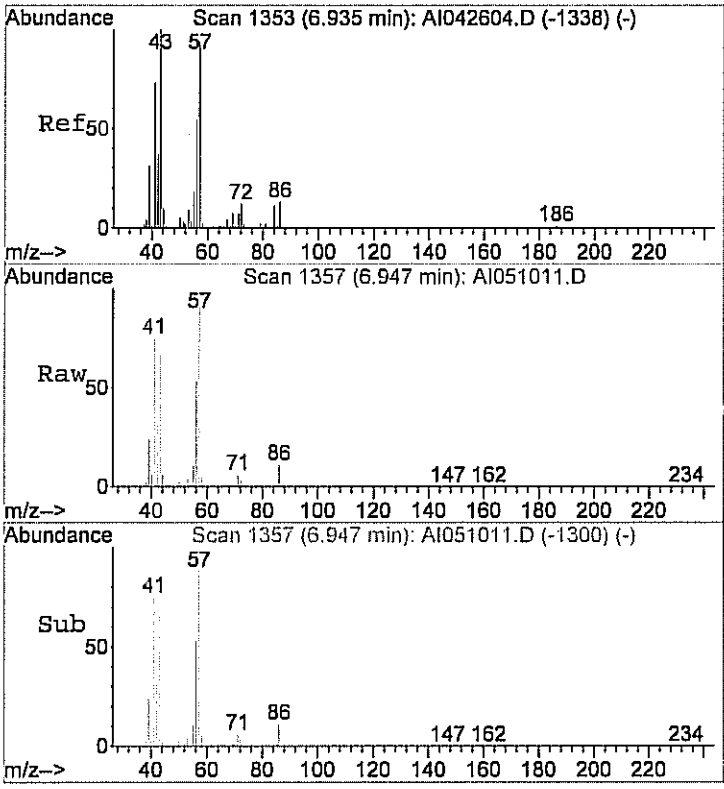


#20
Carbon disulfide
Concen: 0.21 ppb
RT: 5.31 min Scan# 812
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 76 Resp: 13724

Ion	Ratio	Lower	Upper
76	100		
78	8.6	0.0	29.3

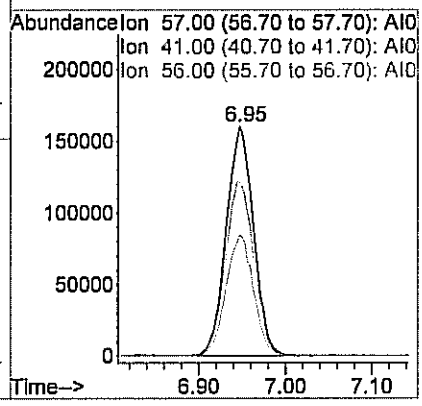


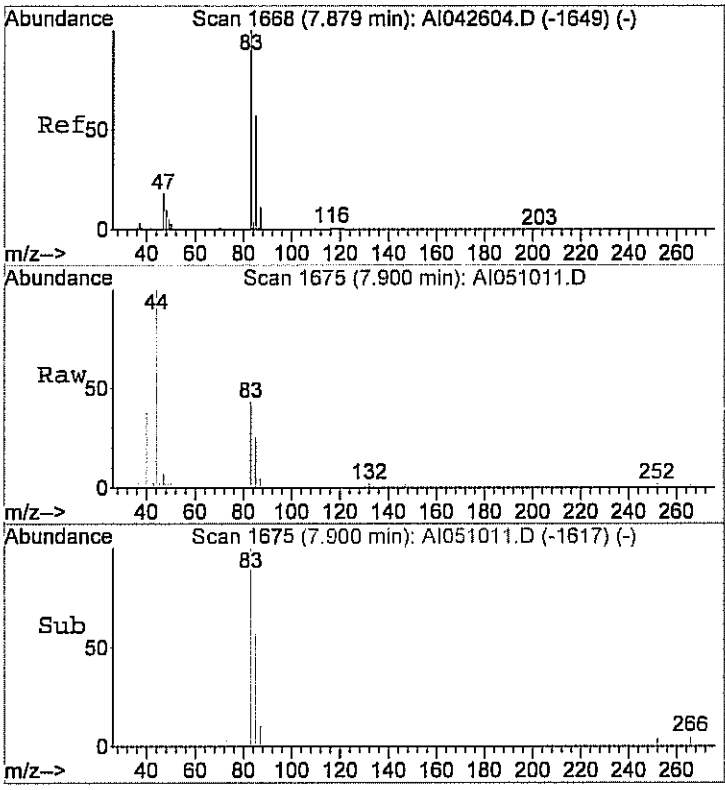


#27
Hexane
Concen: 17.74 ppb
RT: 6.95 min Scan# 1357
Delta R.T. 0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 57 Resp: 348941

Ion	Ratio	Lower	Upper
57	100		
41	79.3	64.2	104.2
56	53.3	33.5	73.5

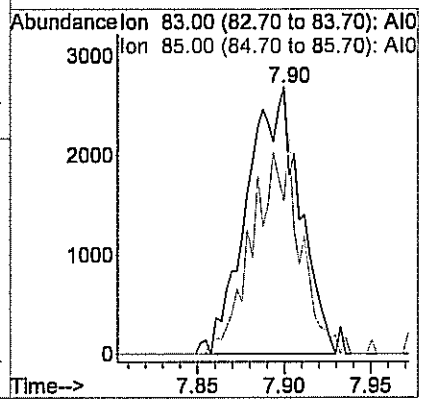


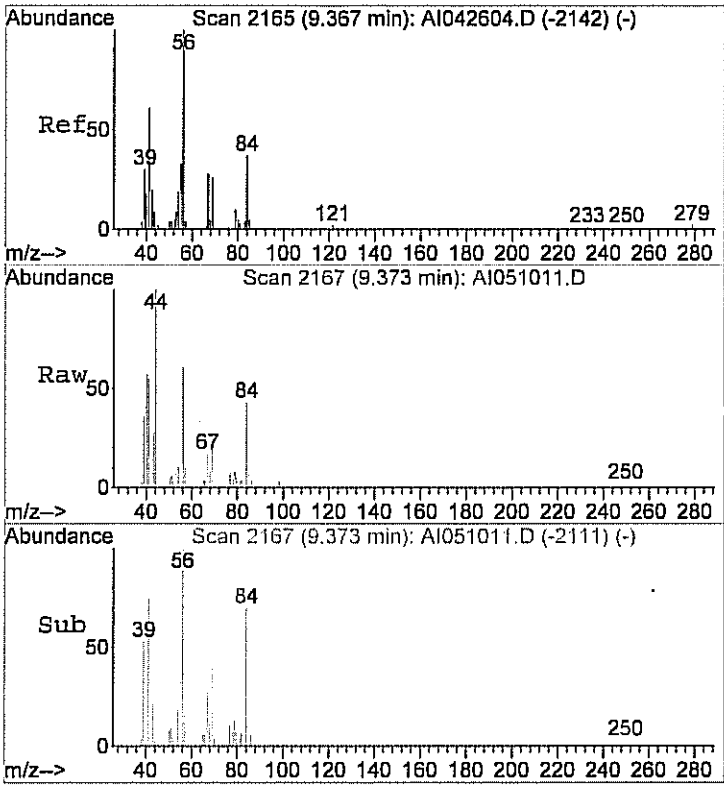


#29
Chloroform
Concen: 0.11 ppb
RT: 7.90 min Scan# 1675
Delta R.T. 0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 83 Resp: 5700

Ion	Ratio	Lower	Upper
83	100		
85	69.8	45.9	85.9

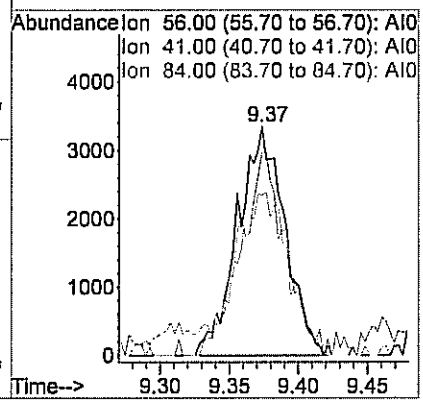


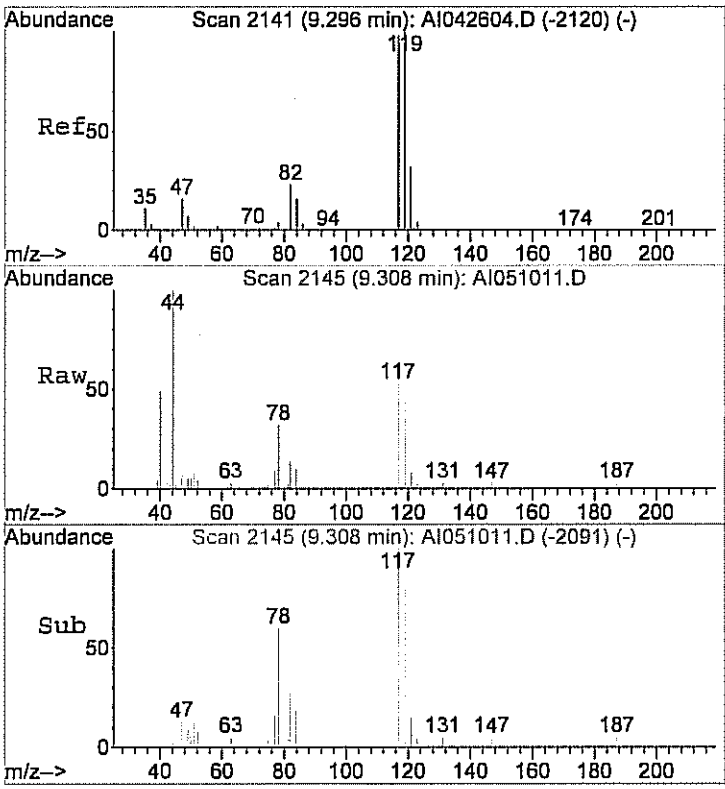


#34
Cyclohexane
Concen: 0.36 ppb
RT: 9.37 min Scan# 2167
Delta R.T. 0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 56 Resp: 7991

Ion	Ratio	Lower	Upper
56	100		
41	86.1	46.1	86.1
84	78.1	110.9	150.9#

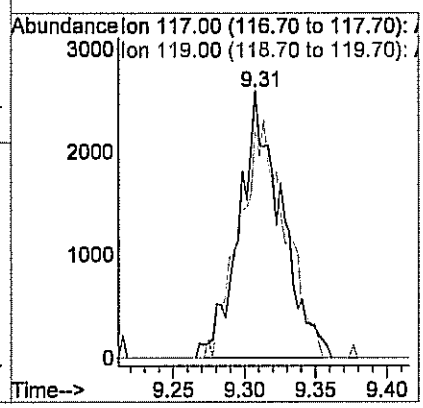


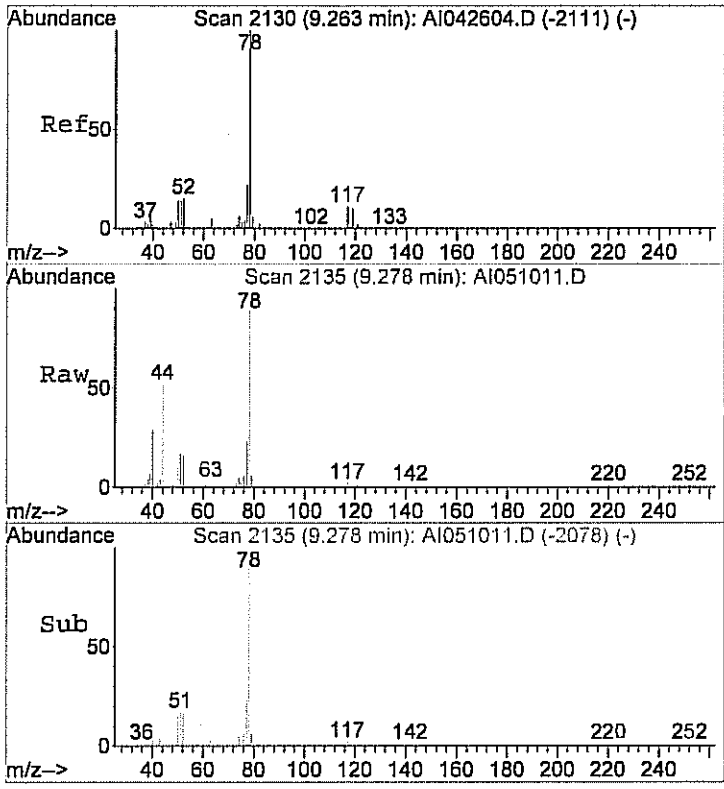


#35
Carbon tetrachloride
Concen: 0.08 ppb
RT: 9.31 min Scan# 2145
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:117 Resp: 5307

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.8	115.8

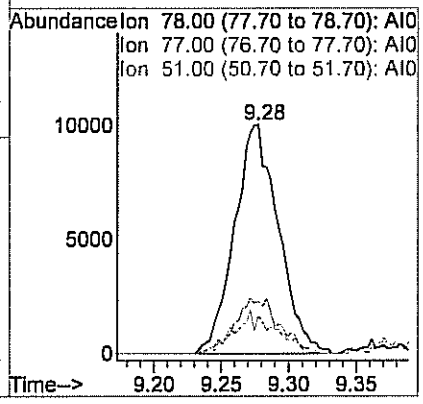


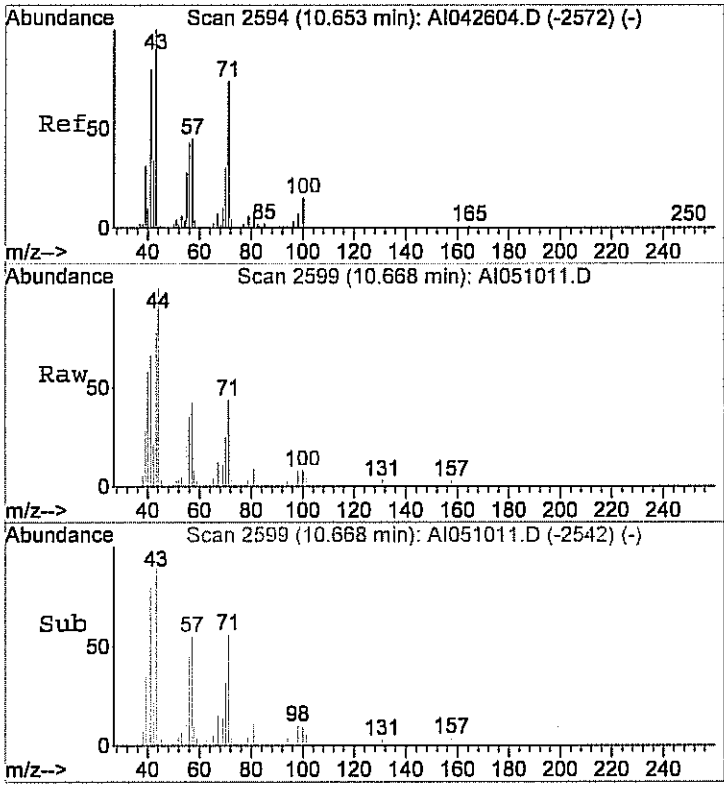


#36
Benzene
Concen: 0.39 ppb
RT: 9.28 min Scan# 2135
Delta R.T. 0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 78 Resp: 22702

Ion	Ratio	Lower	Upper
78	100		
77	24.2	3.4	43.4
51	17.2	0.0	35.0

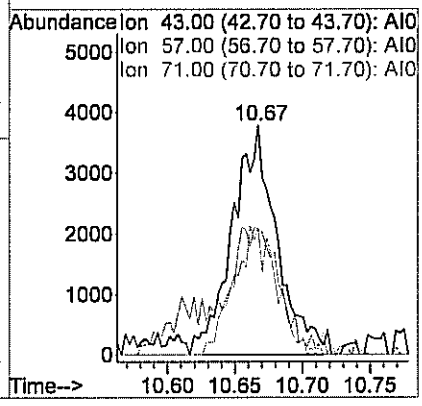


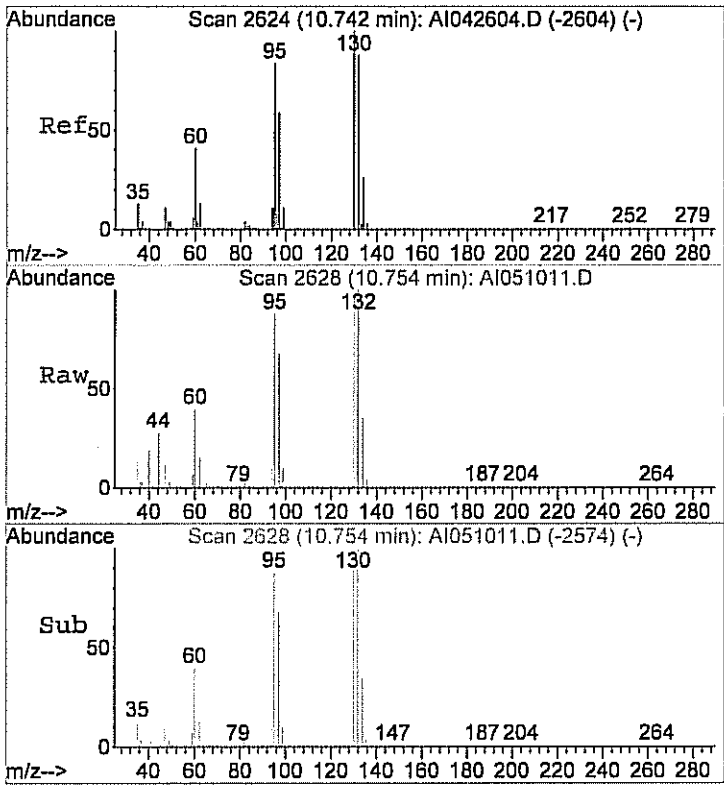


#40
Heptane
Concen: 0.41 ppb
RT: 10.67 min Scan# 2599
Delta R.T. 0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 43 Resp: 8767

Ion	Ratio	Lower	Upper
43	100		
57	82.2	35.0	75.0#
71	53.1	37.8	77.8

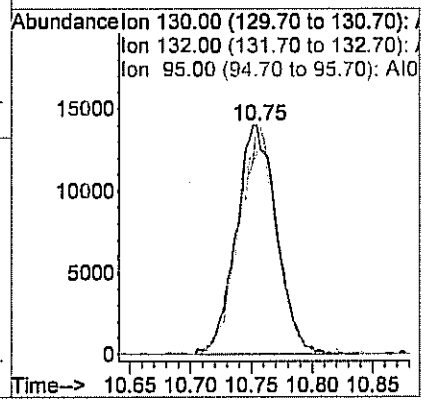


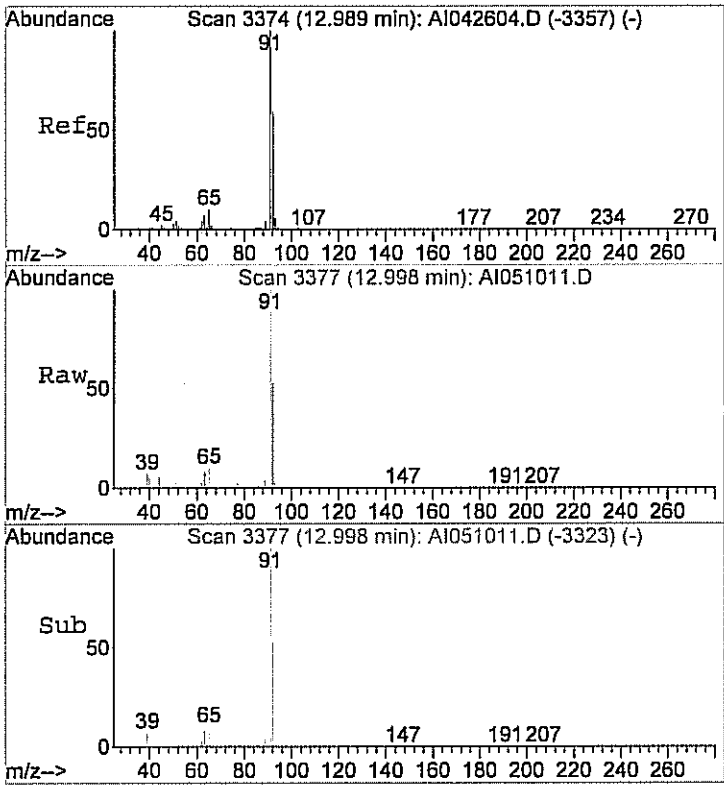


#41
Trichloroethene
Concen: 0.81 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:130 Resp: 32431

Ion	Ratio	Lower	Upper
130	100		
132	94.0	75.8	115.8
95	92.5	76.8	116.8

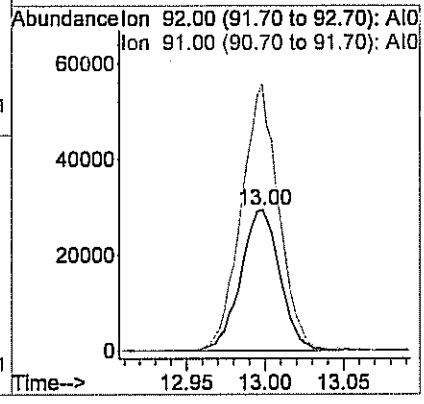


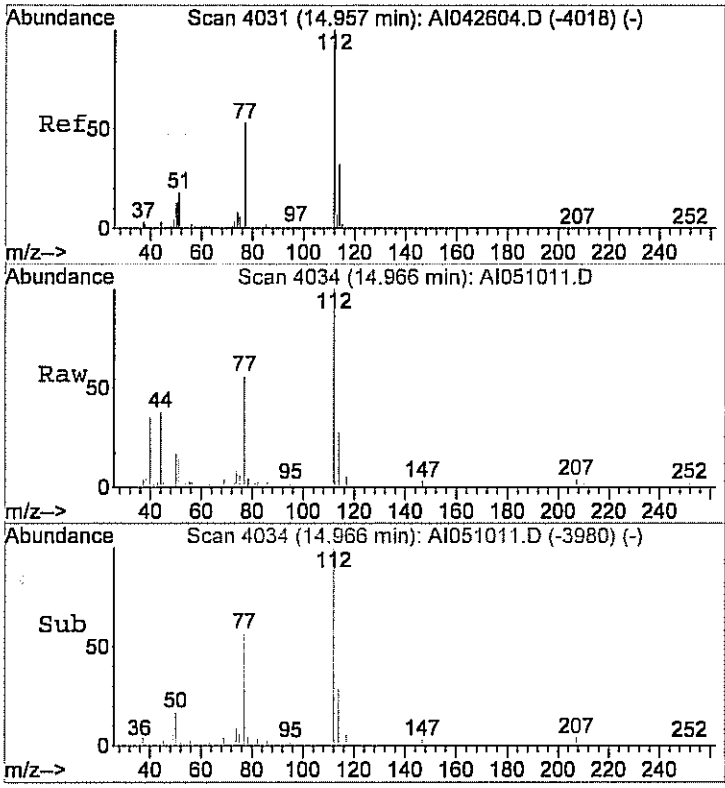


#48
Toluene
Concen: 1.33 ppb
RT: 13.00 min Scan# 3377
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 92 Resp: 50911

Ion	Ratio	Lower	Upper
92	100		
91	180.8	152.8	192.8

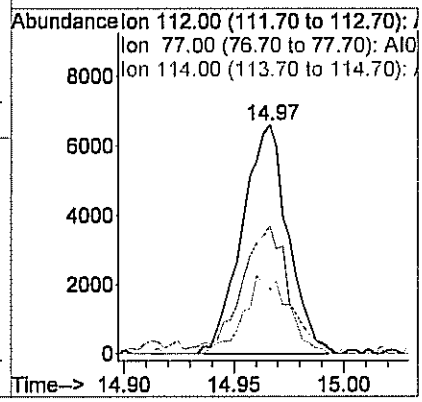


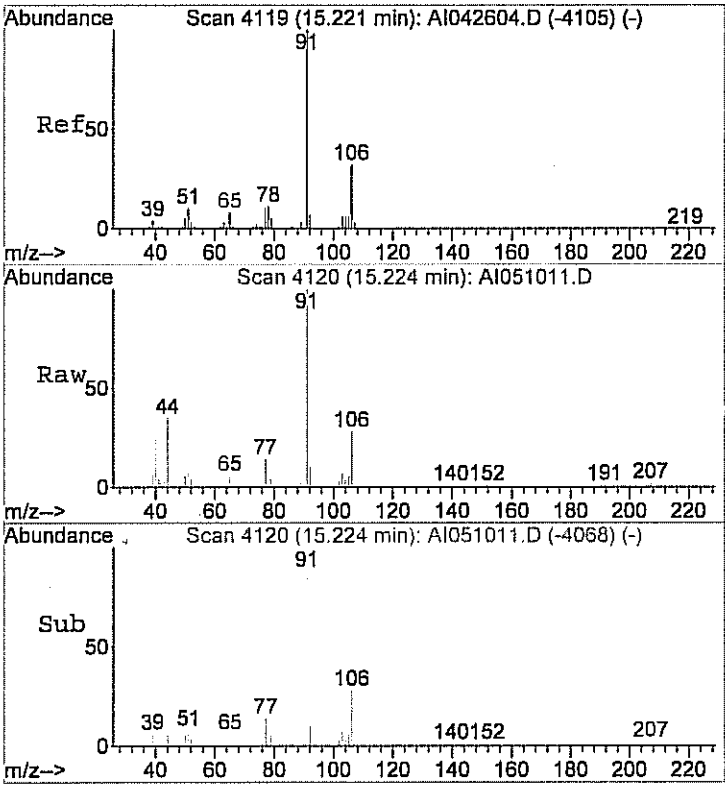


#54
Chlorobenzene
Concen: 0.15 ppb
RT: 14.97 min Scan# 4034
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:112 Resp: 9638

Ion	Ratio	Lower	Upper
112	100		
77	56.2	33.1	73.1
114	32.6	11.9	51.9

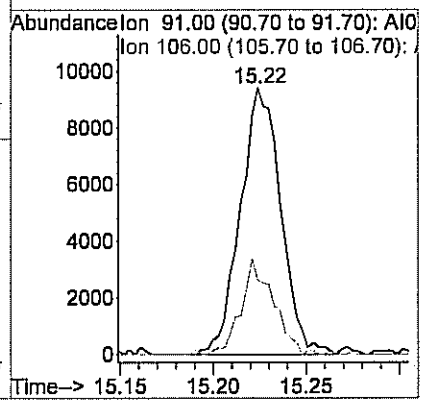


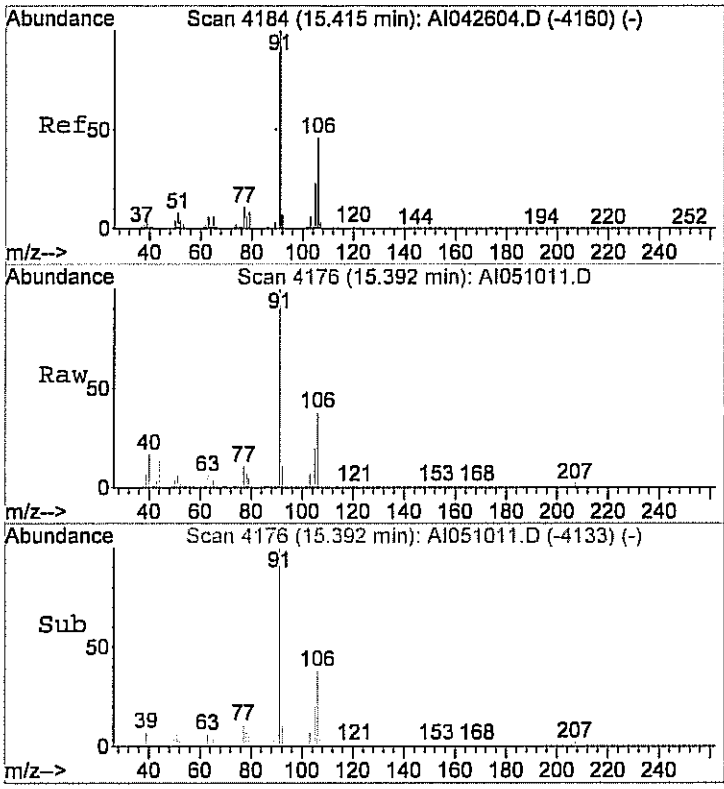


#55
Ethylbenzene
Concen: 0.19 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 91 Resp: 14190

Ion	Ratio	Lower	Upper
91	100		
106	28.5	11.8	51.8

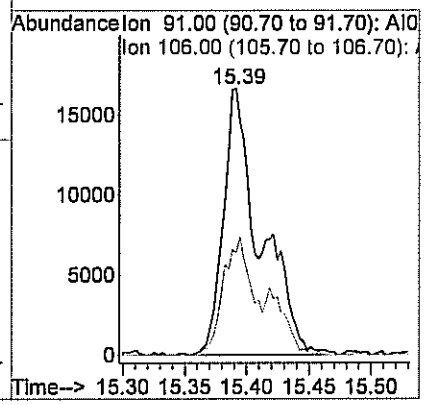


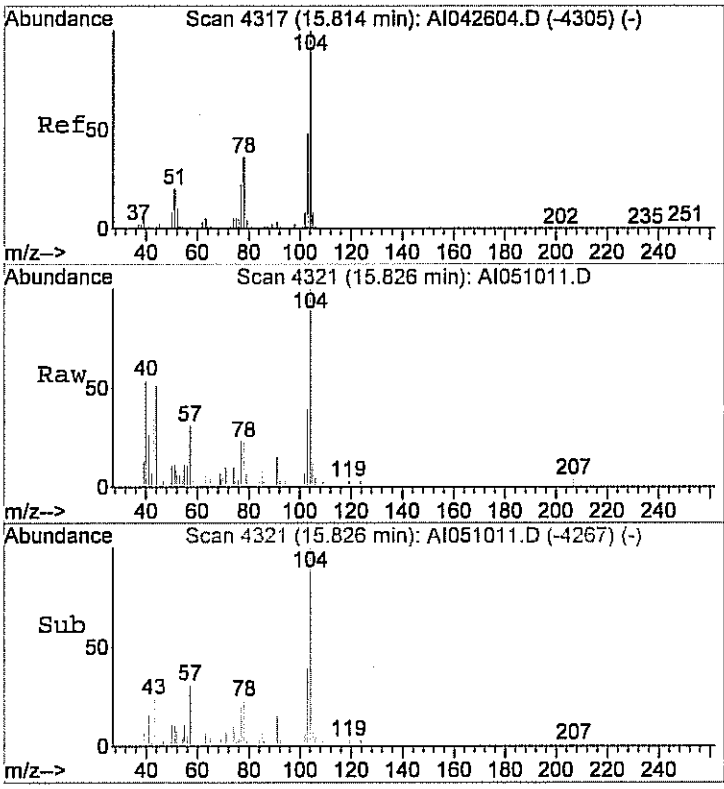


#56
m&p-xylene
Concen: 0.54 ppb
RT: 15.39 min Scan# 4176
Delta R.T. -0.02 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 91 Resp: 34332

Ion	Ratio	Lower	Upper
91	100		
106	47.0	28.7	68.7

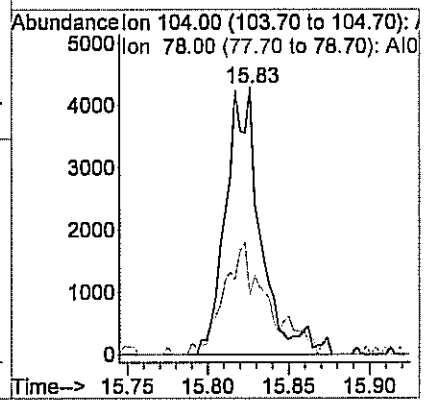


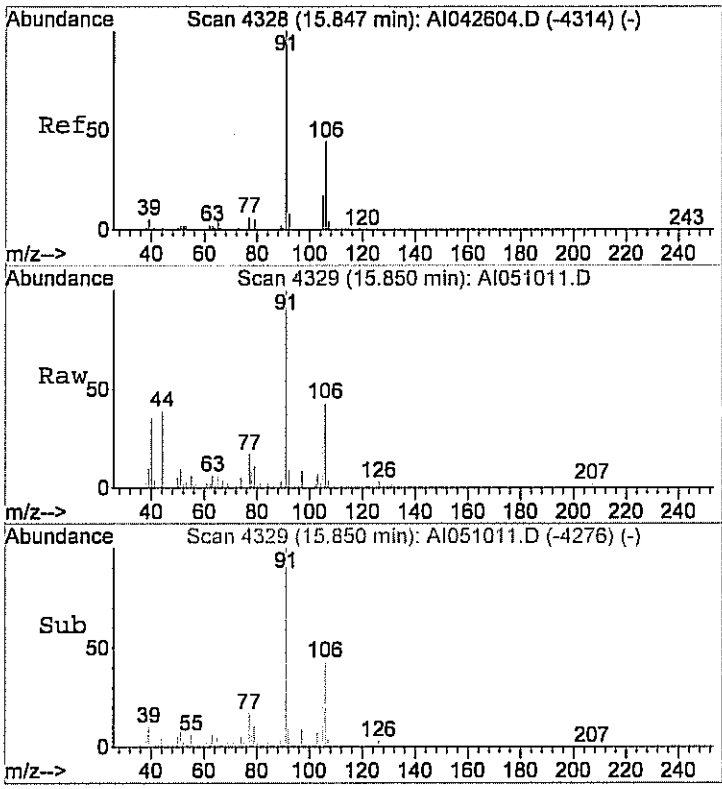


#57
Styrene
Concen: 0.18 ppb
RT: 15.83 min Scan# 4321
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:104 Resp: 6360

Ion	Ratio	Lower	Upper
104	100		
78	52.4	35.0	75.0

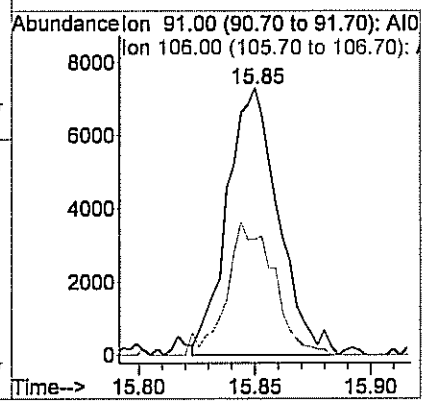


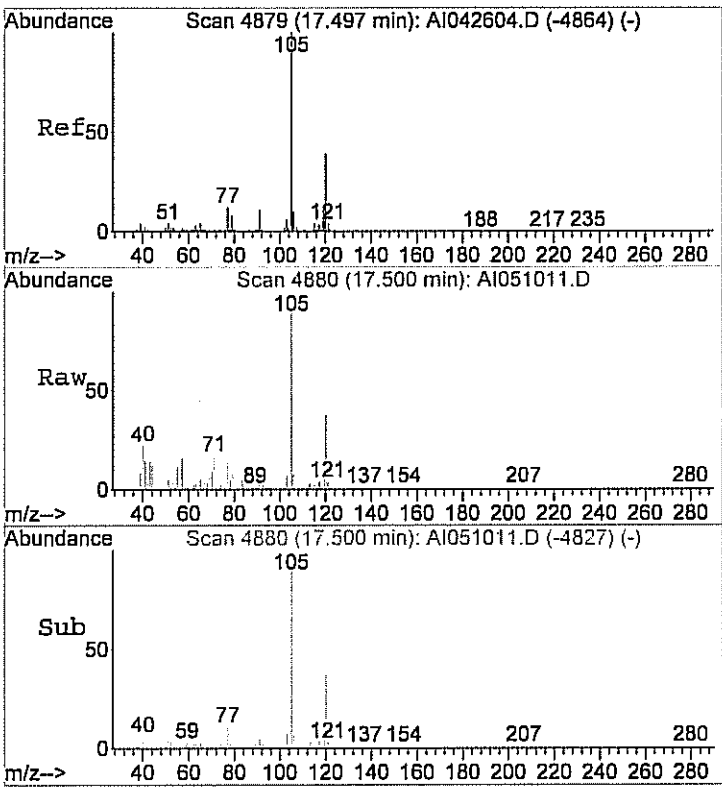


#59
o-xylene
Concen: 0.16 ppb
RT: 15.85 min Scan# 4329
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion: 91 Resp: 11144

Ion	Ratio	Lower	Upper
91	100		
106	45.9	25.6	65.6

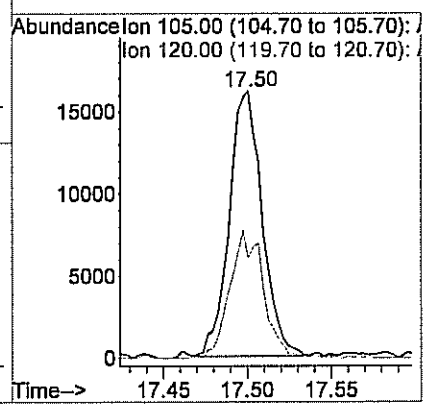




#65
1,2,4-trimethylbenzene
Concen: 0.54 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051011.D
Acq: 10 May 2011 7:46 pm

Tgt Ion:105 Resp: 22075

Ion	Ratio	Lower	Upper
105	100		
120	48.8	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051020.D Vial: 24
Acq On : 11 May 2011 1:14 am Operator: RJP
Sample : C1105011-004A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 01:35:42 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

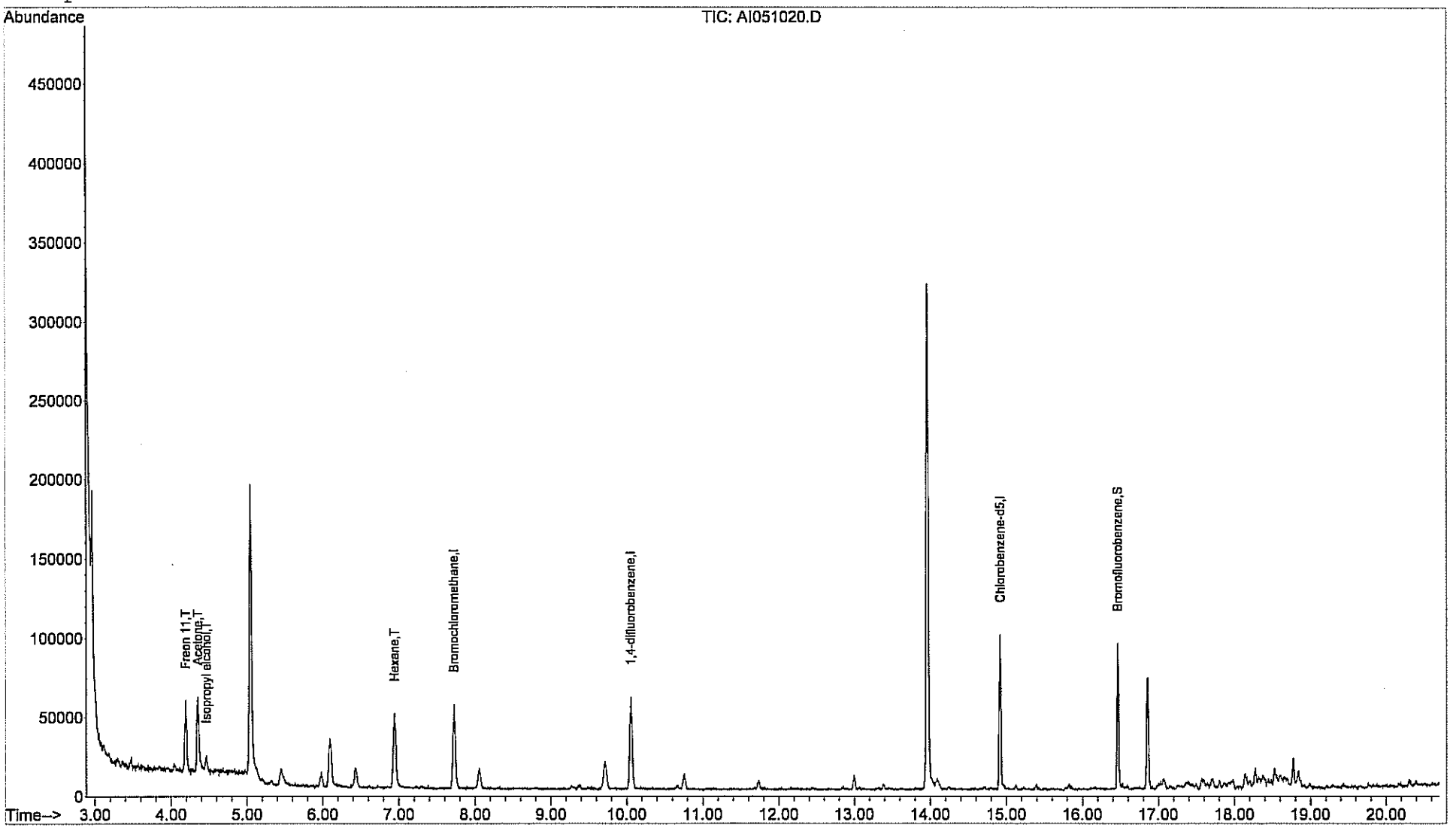
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	19571	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.05	114	61457	1.00	ppb	0.01
47) Chlorobenzene-d5	14.92	117	55586	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	25457	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue
13) Freon 11	4.19	101	32489	0.57	ppb	98
14) Acetone	4.35	58	13624m	2.15	ppb	
15) Isopropyl alcohol	4.46	45	6521	0.45	ppb	# 36
27) Hexane	6.95	57	20621	0.91	ppb	92

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051020.D A325_1UG.M Sat Jun 04 14:14:37 2011 MSD1 Page 1

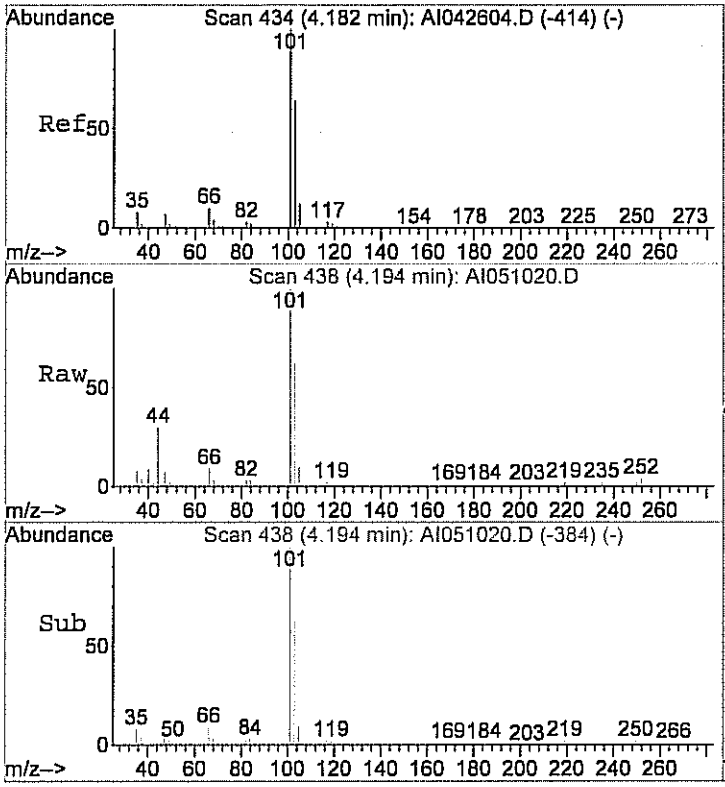
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051020.D Vial: 24
Acq On : 11 May 2011 1:14 am Operator: RJP
Sample : C1105011-004A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:02 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



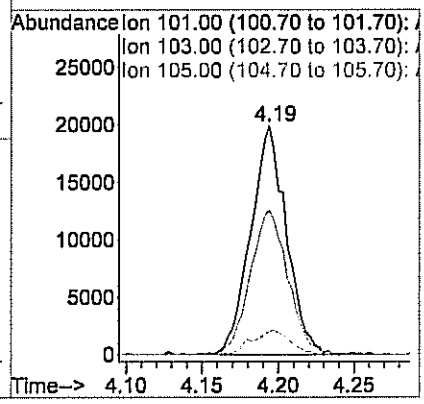
Centek laboratories, LLC

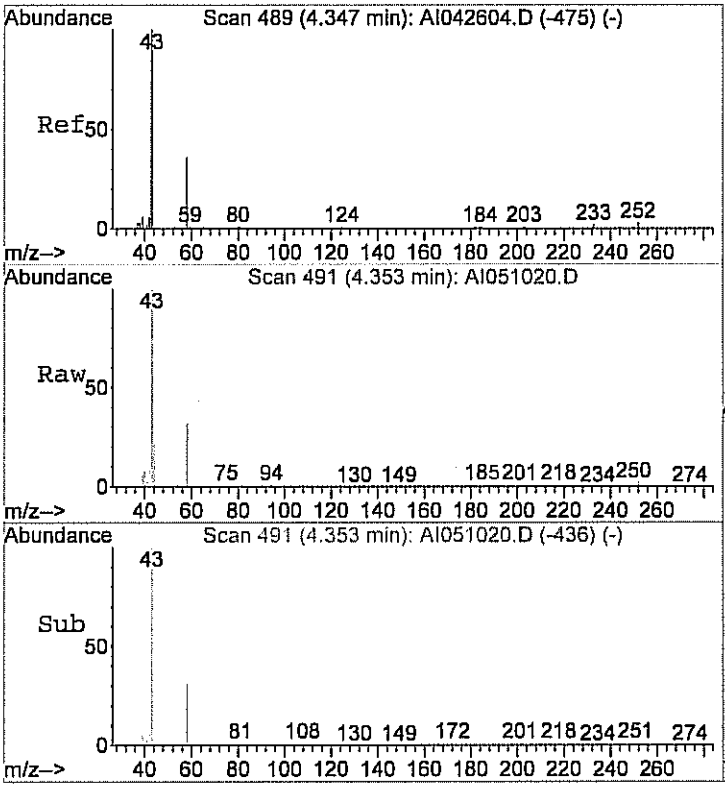


#13
Freon 11
Concen: 0.57 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051020.D
Acq: 11 May 2011 1:14 am

Tgt Ion:101 Resp: 32489

Ion	Ratio	Lower	Upper
101	100		
103	66.8	45.1	85.1
105	11.4	0.0	31.5

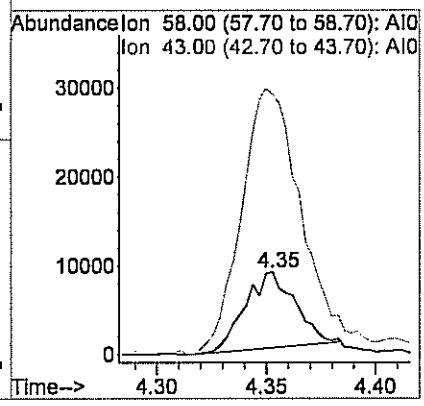


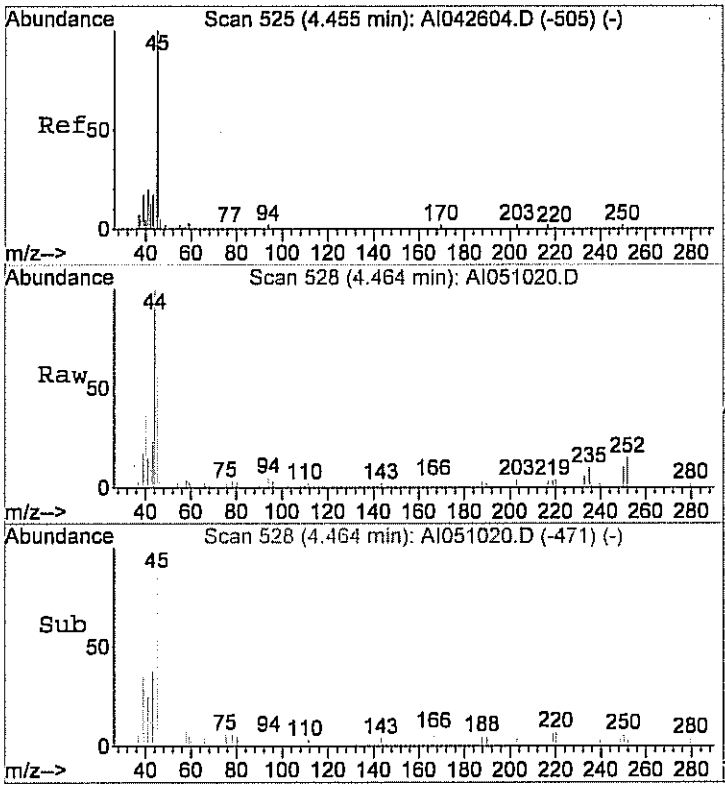


#14
Acetone
Concen: 2.15 ppb m
RT: 4.35 min Scan# 491
Delta R.T. 0.01 min
Lab File: AI051020.D
Acq: 11 May 2011 1:14 am

Tgt Ion: 58 Resp: 13624

Ion	Ratio	Lower	Upper
58	100		
43	473.2	333.6	393.6#

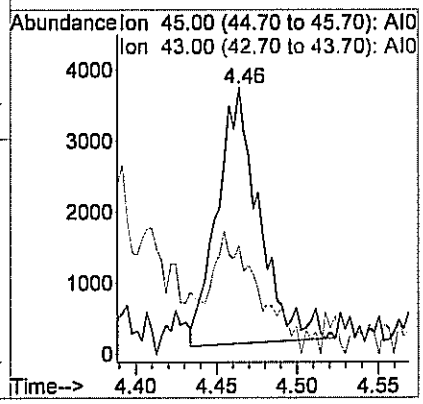


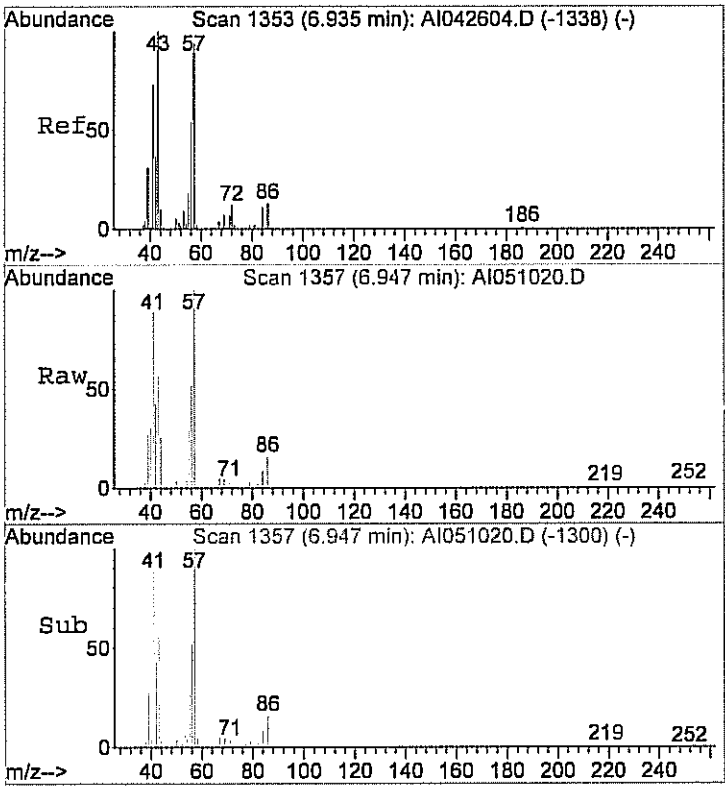


#15
Isopropyl alcohol
Concen: 0.45 ppb
RT: 4.46 min Scan# 528
Delta R.T. 0.02 min
Lab File: AI051020.D
Acq: 11 May 2011 1:14 am

Tgt Ion: 45 Resp: 6521

Ion	Ratio	Lower	Upper
45	100		
43	0.0	19.2	59.2#

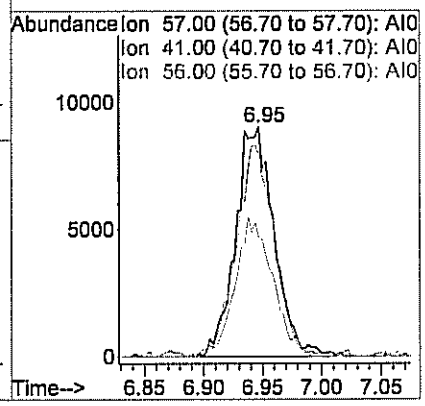




#27
Hexane
Concen: 0.91 ppb
RT: 6.95 min Scan# 1357
Delta R.T. 0.02 min
Lab File: AI051020.D
Acq: 11 May 2011 1:14 am

Tgt Ion: 57 Resp: 20621

Ion	Ratio	Lower	Upper
57	100		
41	91.6	64.2	104.2
56	58.6	33.5	73.5



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.82	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	1.8	1.5		ppbV	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	0.77	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
Acetone	10	3.0		ppbV	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzene	0.32	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon disulfide	0.38	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroform	2.2	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Cyclohexane	2.0	0.15		ppbV	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 11	0.29	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 113	1.1	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 12	1.3	0.15		ppbV	1	5/10/2011 8:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	0.96	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	0.53	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
o-Xylene	0.57	0.15		ppbV	1	5/10/2011 8:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	1.6	0.15		ppbV	1	5/10/2011 8:23:00 PM
Toluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Trichloroethene	3.9	0.40		ppbV	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 8:23:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	9.0	7.5		ug/m3	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	3.8	0.75		ug/m3	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 8:23:00 PM
4-ethyltoluene	7.2	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Acetone	25	7.2		ug/m3	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 8:23:00 PM
Benzene	1.0	0.49		ug/m3	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 8:23:00 PM
Carbon disulfide	1.2	0.47		ug/m3	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 8:23:00 PM
Chloroform	11	0.74		ug/m3	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Cyclohexane	6.8	0.52		ug/m3	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Freon 11	1.7	0.86		ug/m3	1	5/10/2011 8:23:00 PM
Freon 113	8.6	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	6.6	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 8:23:00 PM
m&p-Xylene	5.4	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	2.9	0.90		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	2.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 8:23:00 PM
o-Xylene	2.5	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	4.8	0.45		ug/m3	1	5/10/2011 8:23:00 PM
Toluene	5.6	0.57		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Trichloroethene	21	2.2		ug/m3	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051012.D Vial: 25
Acq On : 10 May 2011 8:23 pm Operator: RJP
Sample : C1105011-005A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 20:44:15 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

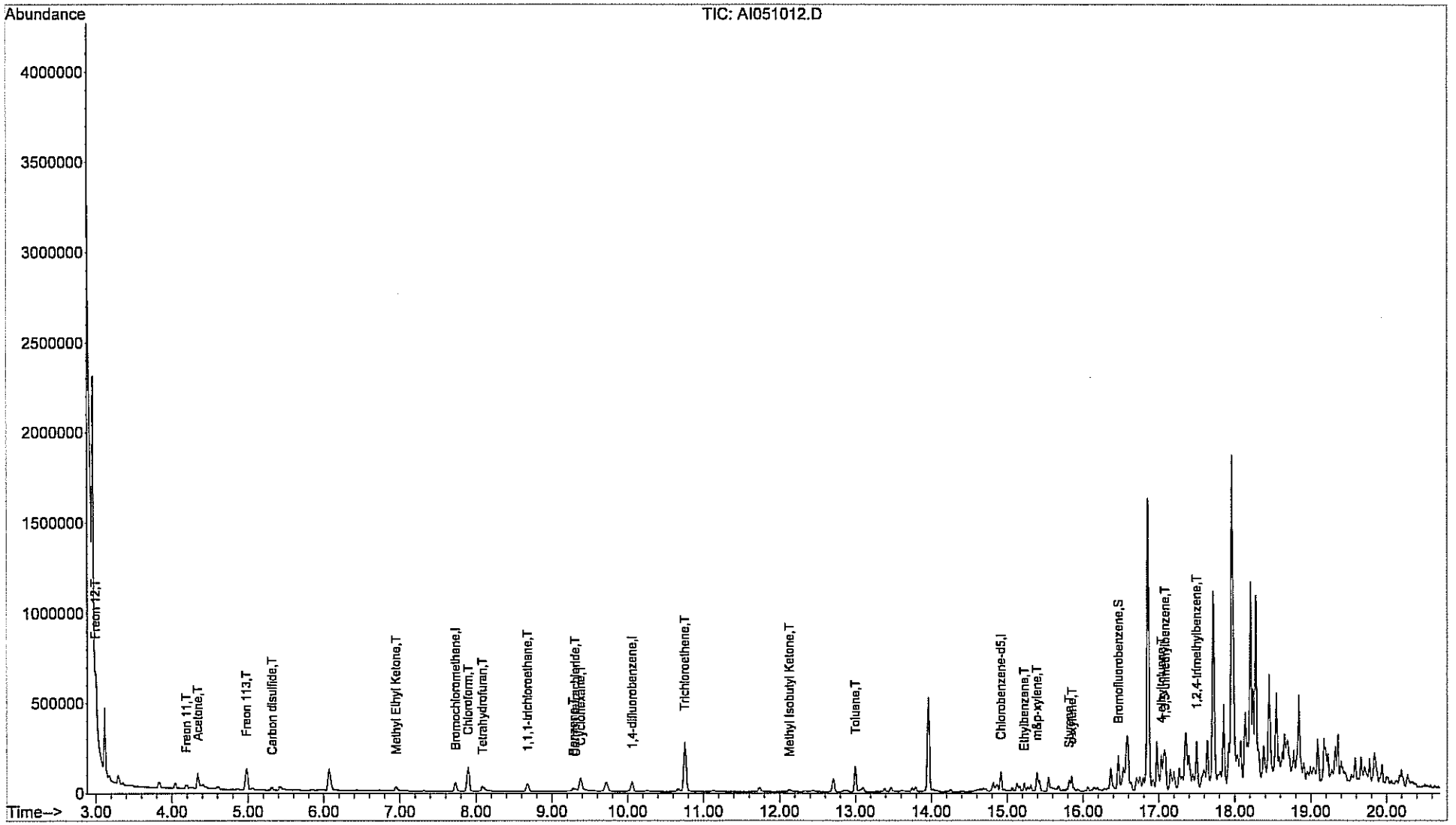
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	17537	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.06	114	54043	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	58747	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	32082m	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	94807	1.32	ppb		99
13) Freon 11	4.19	101	14946	0.29	ppb		99
14) Acetone	4.34	58	32517	5.74	ppb		97
17) Freon 113	4.98	101	55786	1.10	ppb		98
20) Carbon disulfide	5.31	76	25543	0.38	ppb		97
25) Methyl Ethyl Ketone	6.94	72	6155	0.96	ppb	#	100
29) Chloroform	7.89	83	117343	2.18	ppb		100
30) Tetrahydrofuran	8.09	42	19755	1.59	ppb		94
33) 1,1,1-trichloroethane	8.67	97	32432	0.82	ppb		96
34) Cyclohexane	9.38	56	39493	1.95	ppb	#	58
35) Carbon tetrachloride	9.32	117	7385	0.12	ppb		98
36) Benzene	9.28	78	16921	0.32	ppb		95
41) Trichloroethene	10.76	130	115147	3.14	ppb		98
48) Toluene	13.00	92	59048	1.45	ppb		99
49) Methyl Isobutyl Ketone	12.13	43	10054	0.53	ppb		97
55) Ethylbenzene	15.22	91	29404	0.37	ppb		99
56) m&p-xylene	15.39	91	82872	1.22	ppb		100
57) Styrene	15.82	104	9282	0.25	ppb		78
59) o-xylene	15.85	91	43734	0.57	ppb		97
63) 4-ethyltoluene	17.03	105	92007m	1.45	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	50314	0.77	ppb		99
65) 1,2,4-trimethylbenzene	17.50	105	121223	2.79	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

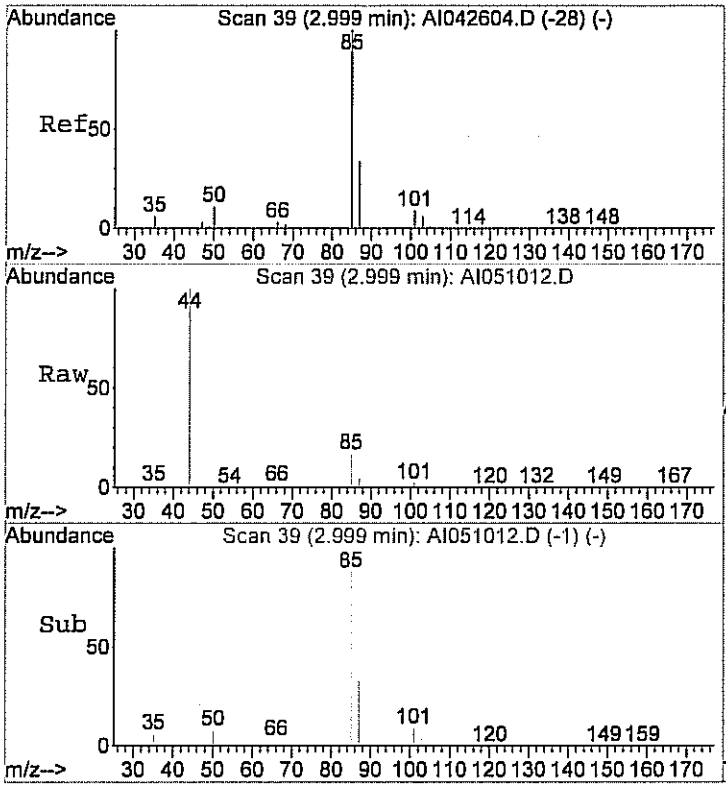
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051012.D Vial: 25
Acq On : 10 May 2011 8:23 pm Operator: RJP
Sample : C1105011-005A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 10:54 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



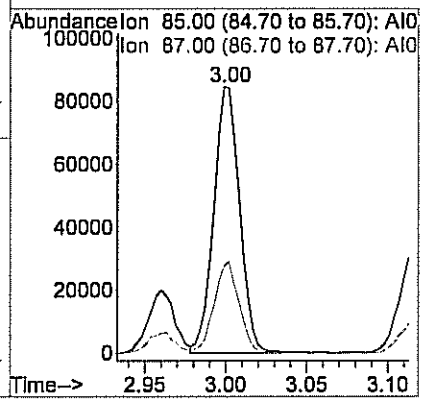
Centek laboratories, LLC

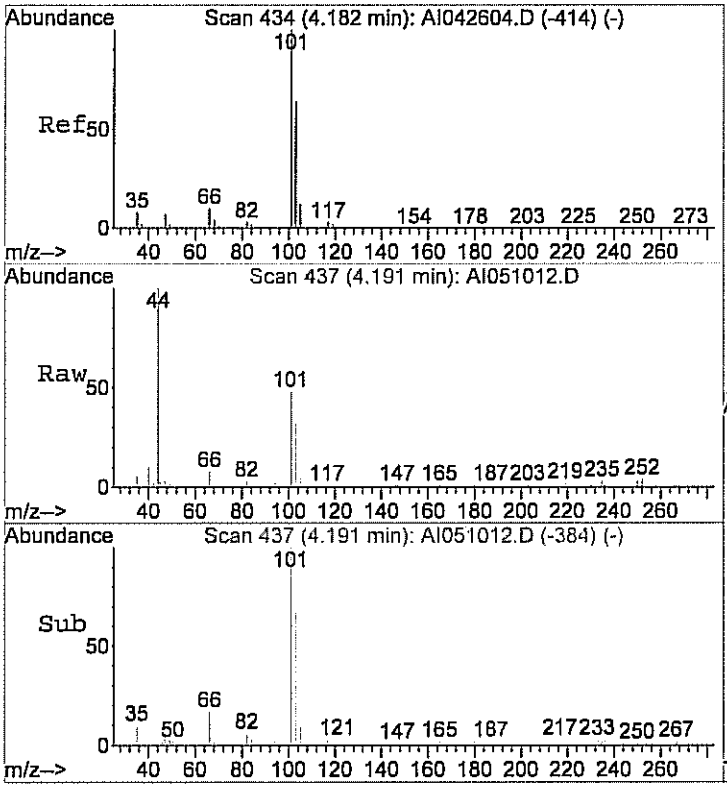


#3
Freon 12
Concen: 1.32 ppb
RT: 3.00 min Scan# 39
Delta R.T. -0.00 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 85 Resp: 94807

Ion	Ratio	Lower	Upper
85	100		
87	32.8	13.2	53.2

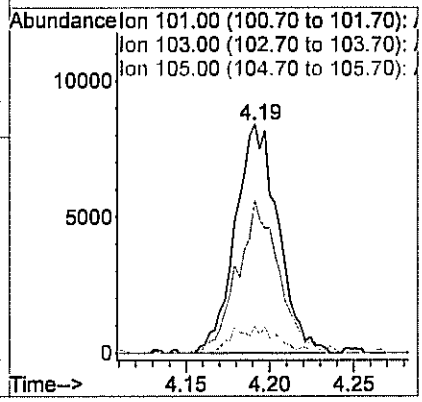


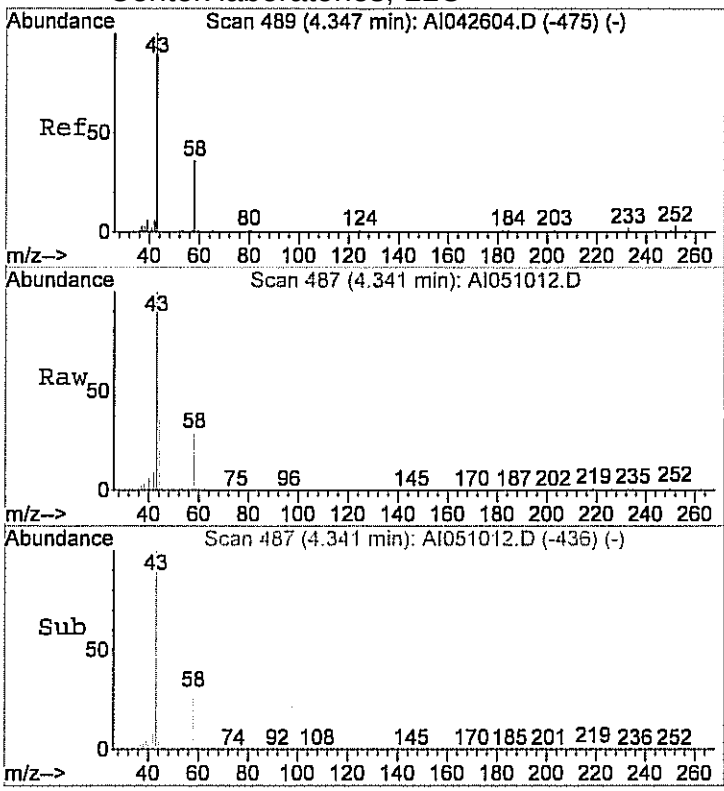


#13
Freon 11
Concen: 0.29 ppb
RT: 4.19 min Scan# 437
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:101 Resp: 14946

Ion	Ratio	Lower	Upper
101	100		
103	63.9	45.1	85.1
105	12.0	0.0	31.5

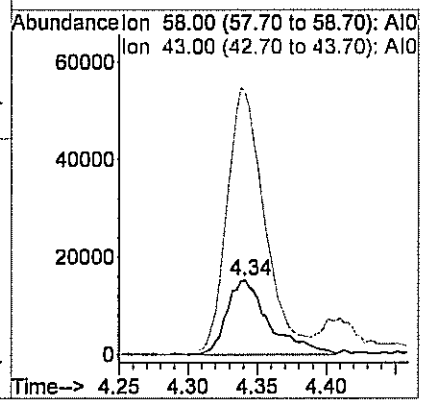


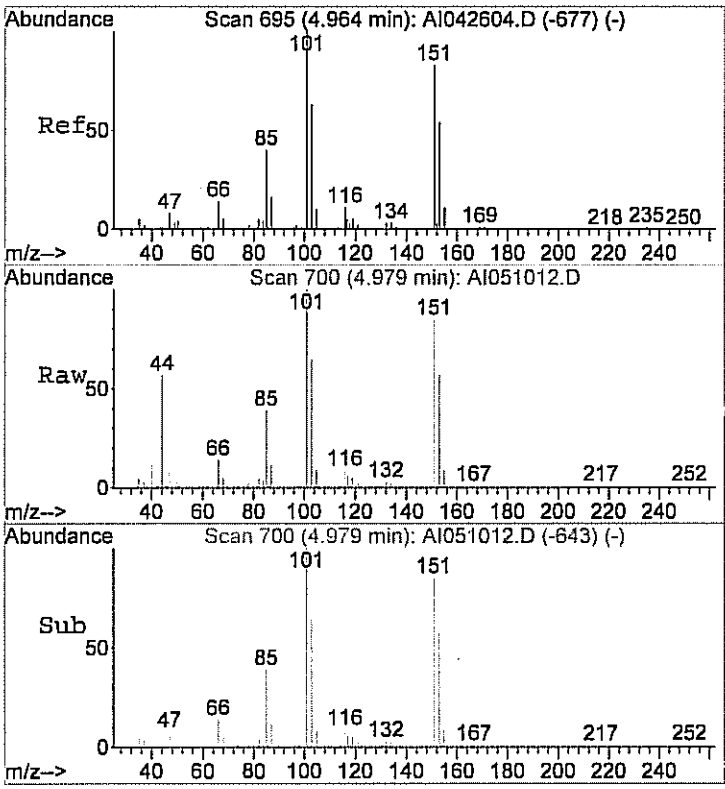


#14
Acetone
Concen: 5.74 ppb
RT: 4.34 min Scan# 487
Delta R.T. 0.00 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 58 Resp: 32517

Ion	Ratio	Lower	Upper
58	100		
43	371.3	333.6	393.6

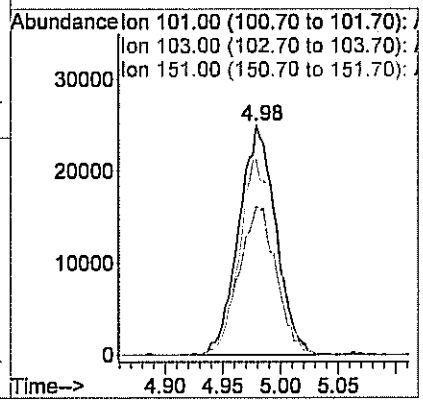


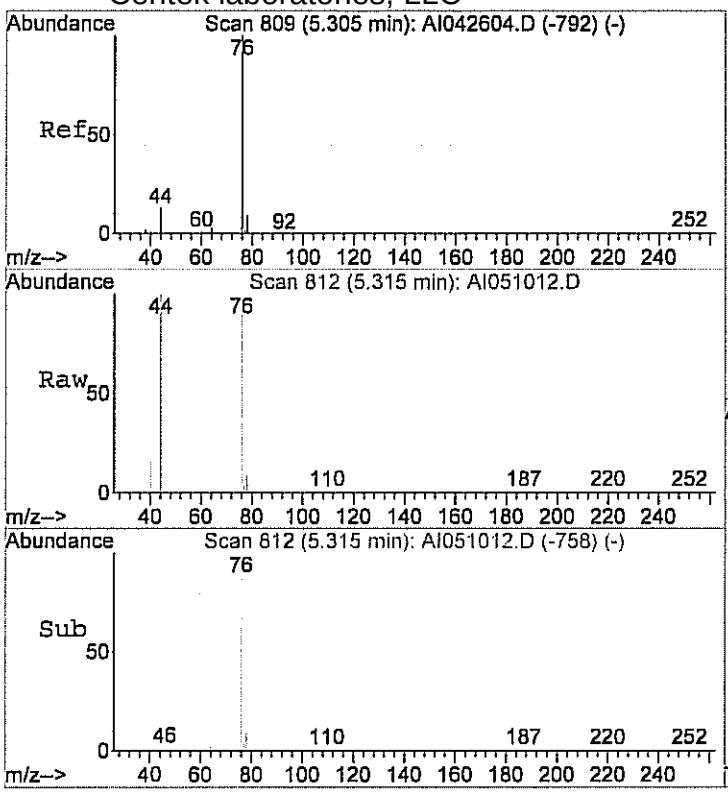


#17
Freon 113
Concen: 1.10 ppb
RT: 4.98 min Scan# 700
Delta R.T. 0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:101 Resp: 55786

Ion	Ratio	Lower	Upper
101	100		
103	65.8	43.9	83.9
151	88.0	66.7	106.7

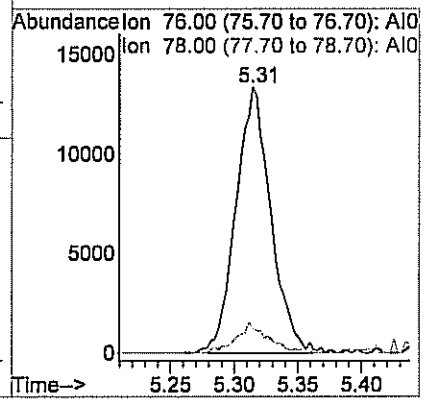


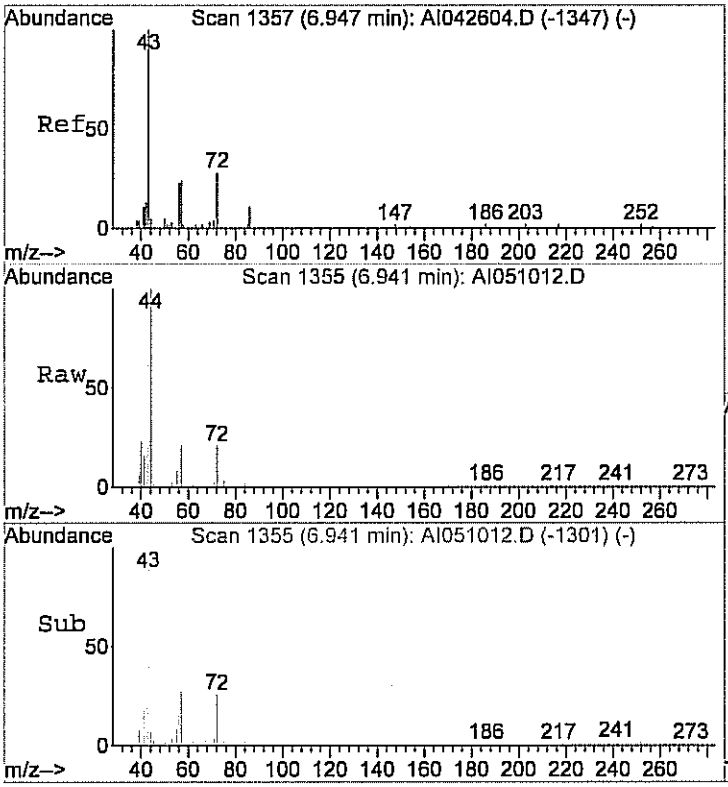


#20
Carbon disulfide
Concen: 0.38 ppb
RT: 5.31 min Scan# 812
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 76 Resp: 25543

Ion	Ratio	Lower	Upper
76	100		
78	10.4	0.0	29.3

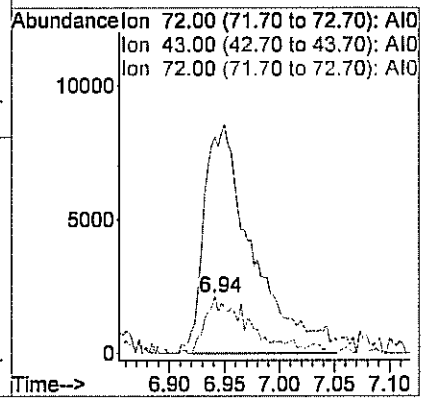


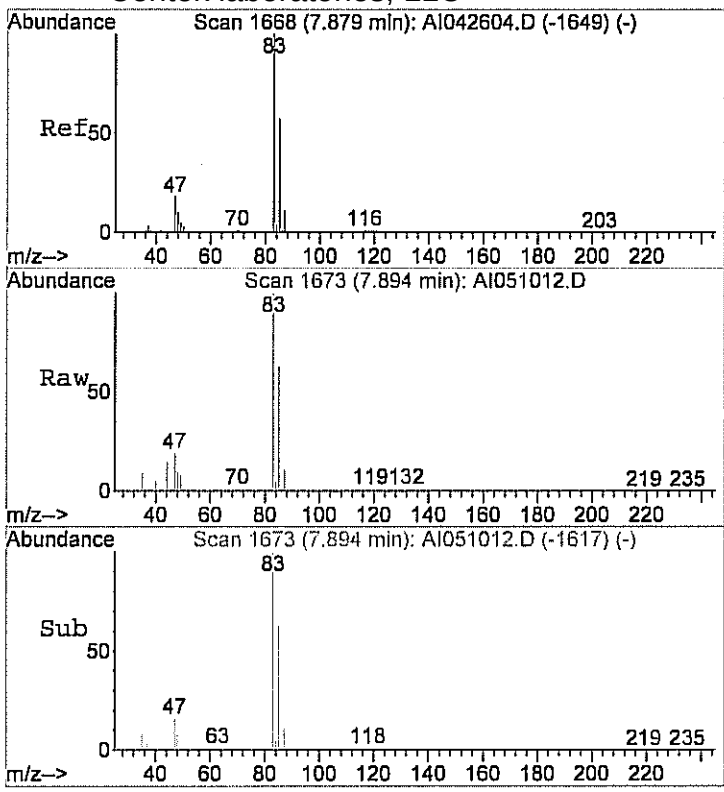


#25
Methyl Ethyl Ketone
Concen: 0.96 ppb
RT: 6.94 min Scan# 1355
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 72 Resp: 6155

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

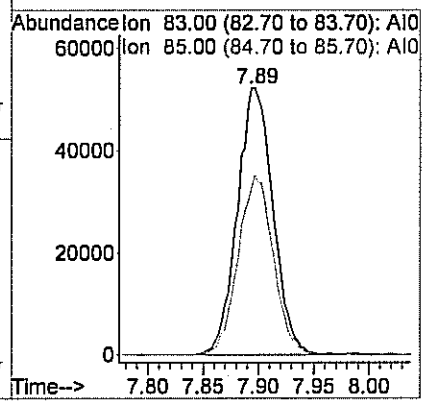


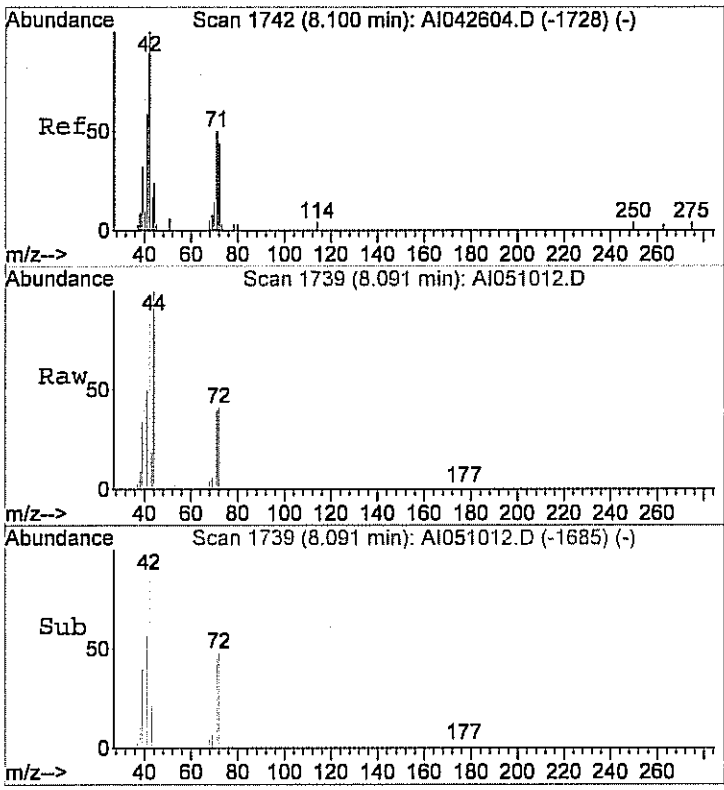


#29
Chloroform
Concen: 2.18 ppb
RT: 7.89 min Scan# 1673
Delta R.T. 0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 83 Resp: 117343

Ion	Ratio	Lower	Upper
83	100		
85	66.1	45.9	85.9

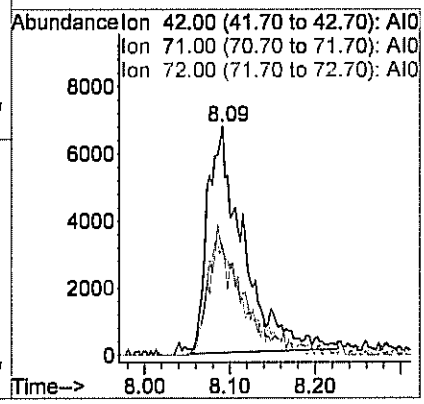


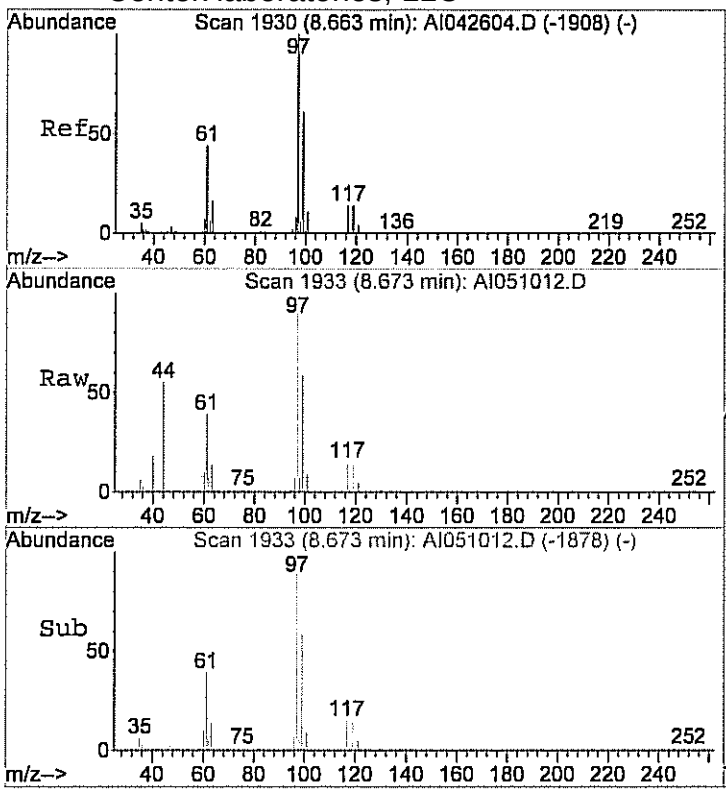


#30
Tetrahydrofuran
Concen: 1.59 ppb
RT: 8.09 min Scan# 1739
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 42 Resp: 19755

Ion	Ratio	Lower	Upper
42	100		
71	55.2	28.4	68.4
72	50.4	29.0	69.0

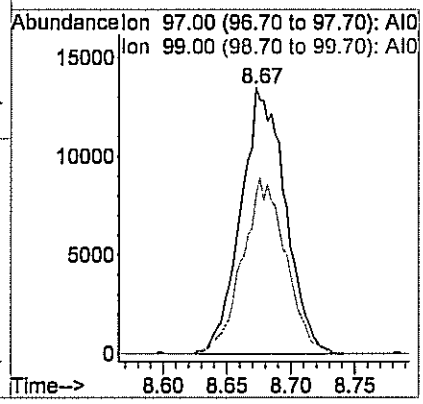


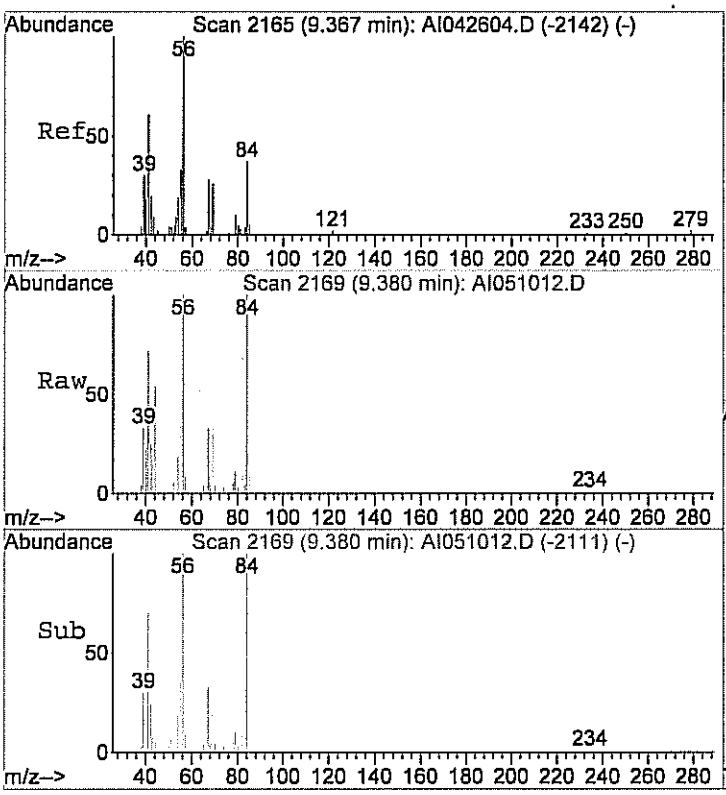


#33
1,1,1-trichloroethane
Concen: 0.82 ppb
RT: 8.67 min Scan# 1933
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 97 Resp: 32432

Ion	Ratio	Lower	Upper
97	100		
99	64.3	47.3	87.3

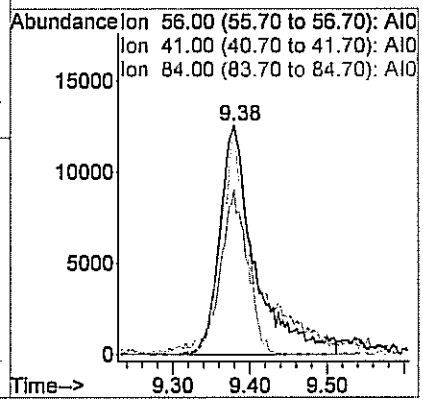


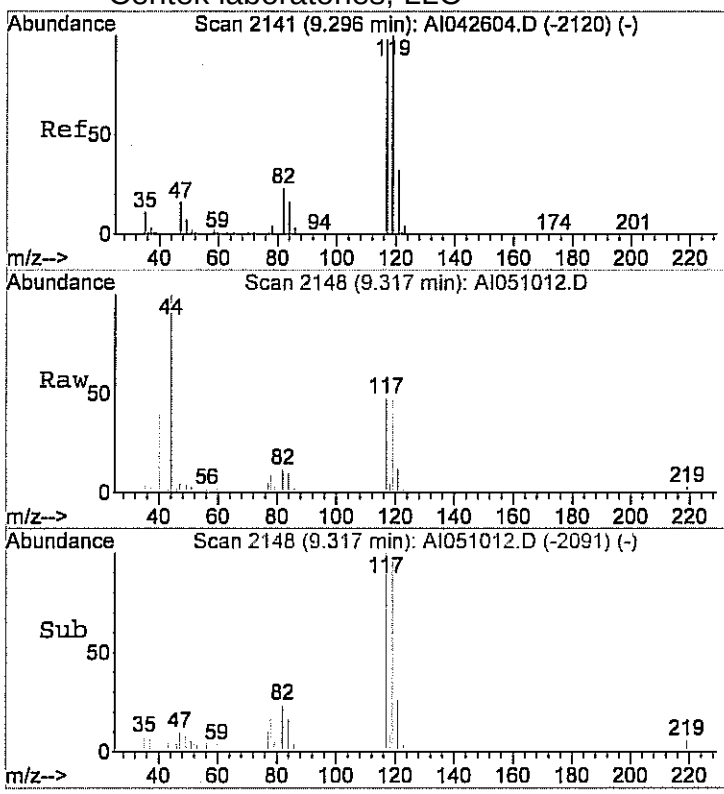


#34
Cyclohexane
Concen: 1.95 ppb
RT: 9.38 min Scan# 2169
Delta R.T. 0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 56 Resp: 39493

Ion	Ratio	Lower	Upper
56	100		
41	83.5	46.1	86.1
84	69.2	110.9	150.9#

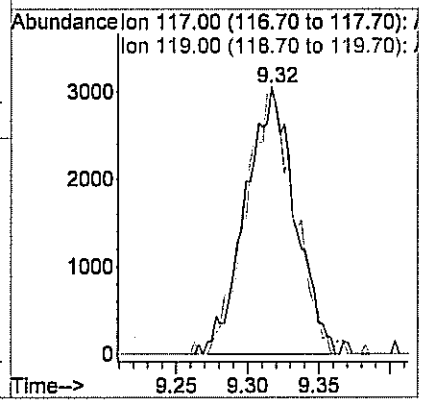


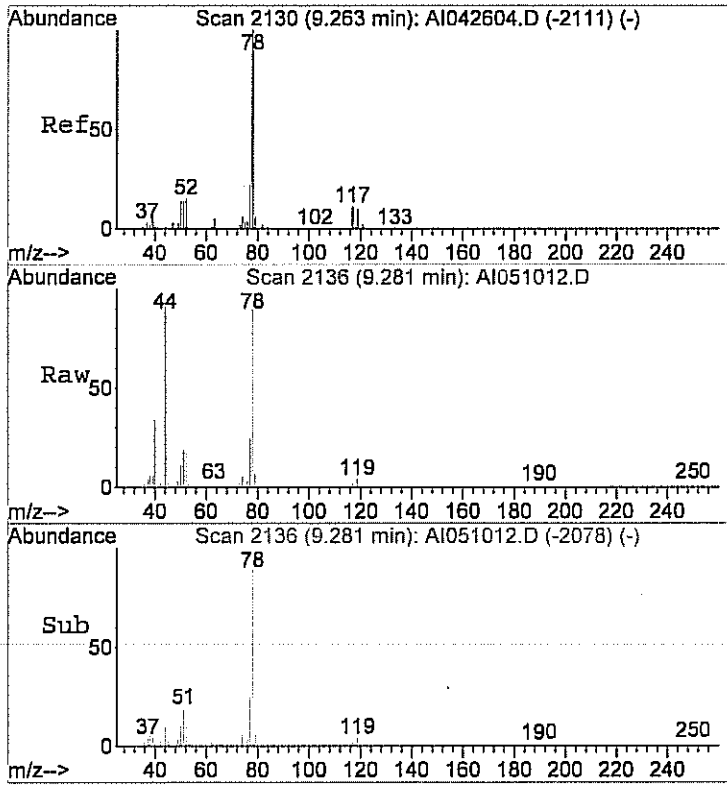


#35
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.32 min Scan# 2148
Delta R.T. 0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:117 Resp: 7385

Ion	Ratio	Lower	Upper
117	100		
119	97.4	75.8	115.8

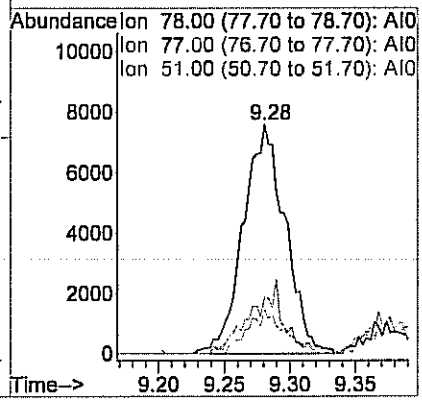


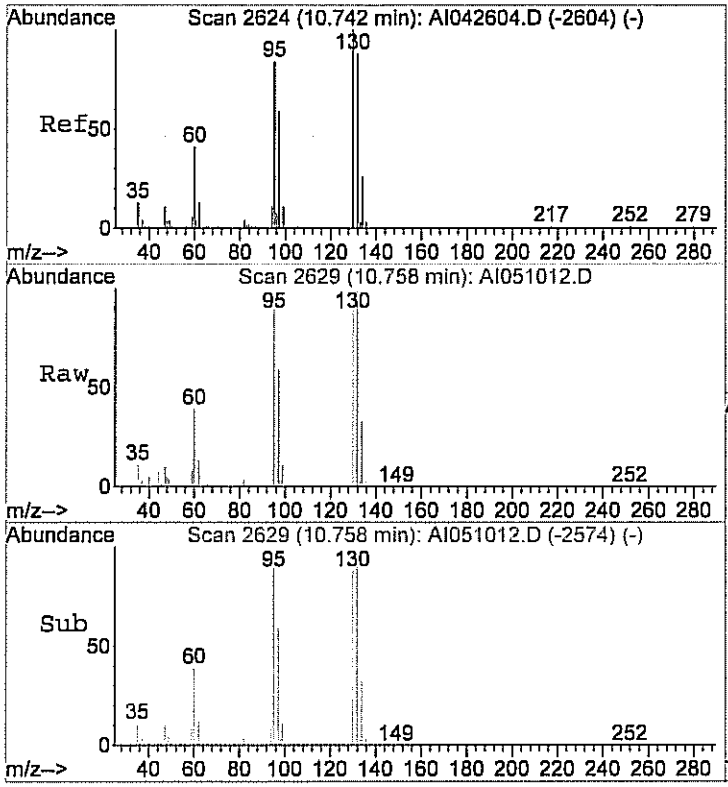


#36
Benzene
Concen: 0.32 ppb
RT: 9.28 min Scan# 2136
Delta R.T. 0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 78 Resp: 16921

Ion	Ratio	Lower	Upper
78	100		
77	25.8	3.4	43.4
51	16.8	0.0	35.0

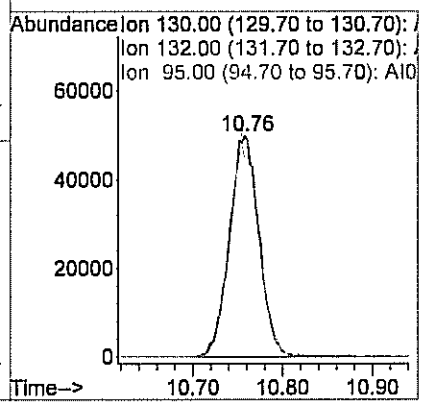


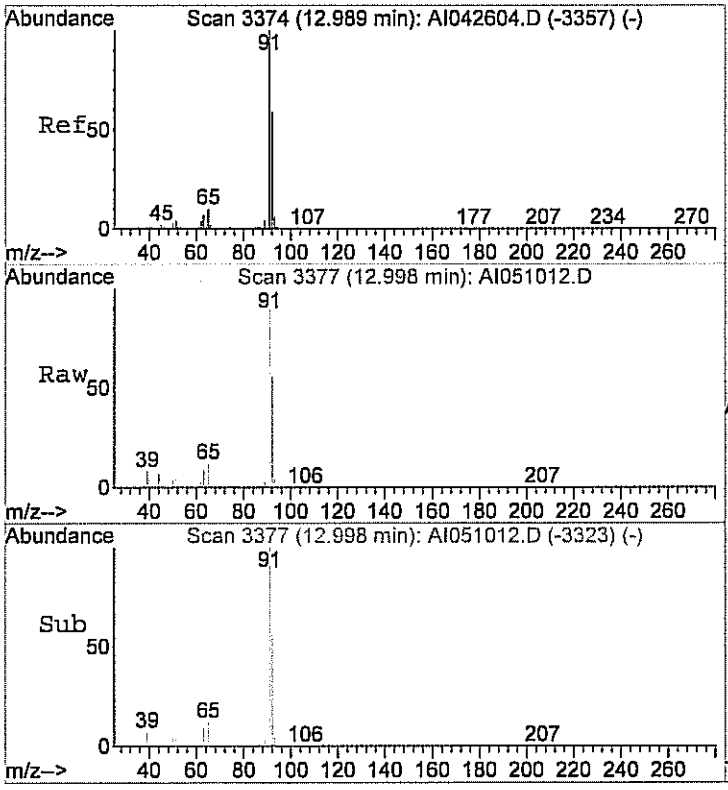


#41
Trichloroethene
Concen: 3.14 ppb
RT: 10.76 min Scan# 2629
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:130 Resp: 115147

Ion	Ratio	Lower	Upper
130	100		
132	99.1	75.8	115.8
95	96.3	76.8	116.8

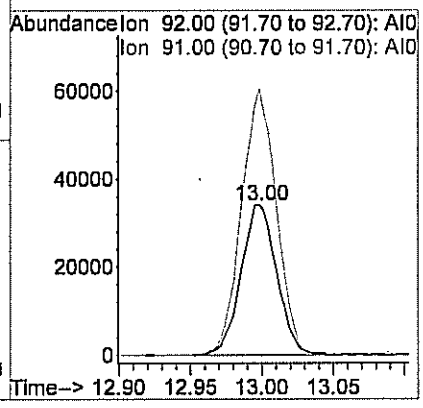


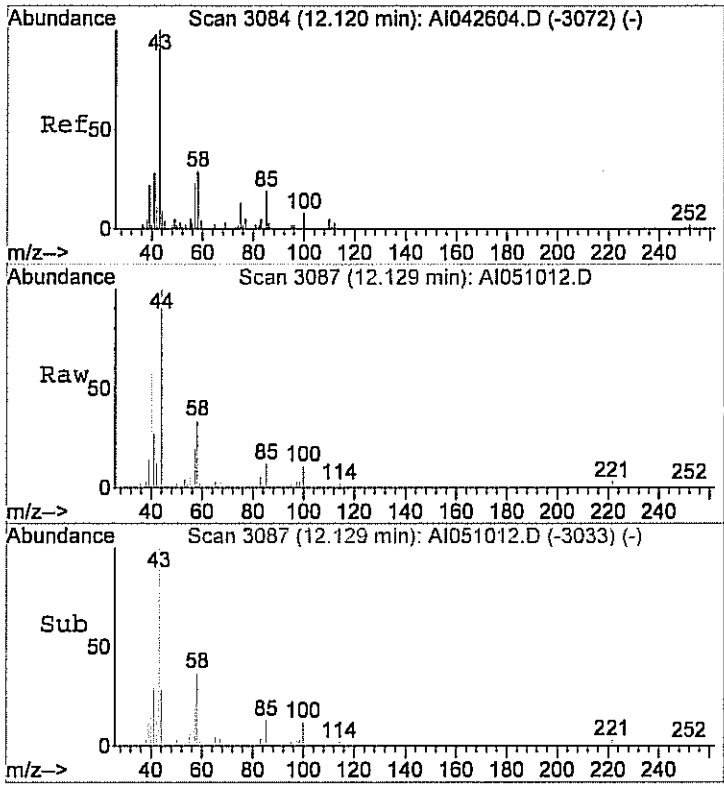


#48
Toluene
Concen: 1.45 ppb
RT: 13.00 min Scan# 3377
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 92 Resp: 59048

Ion	Ratio	Lower	Upper
92	100		
91	174.1	152.8	192.8

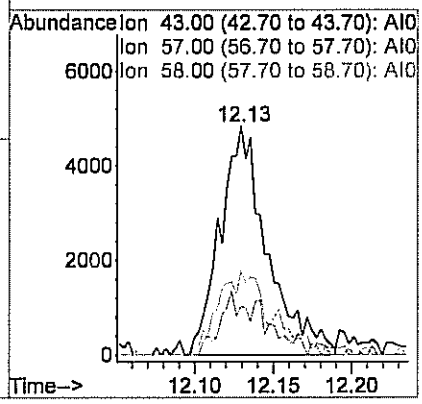


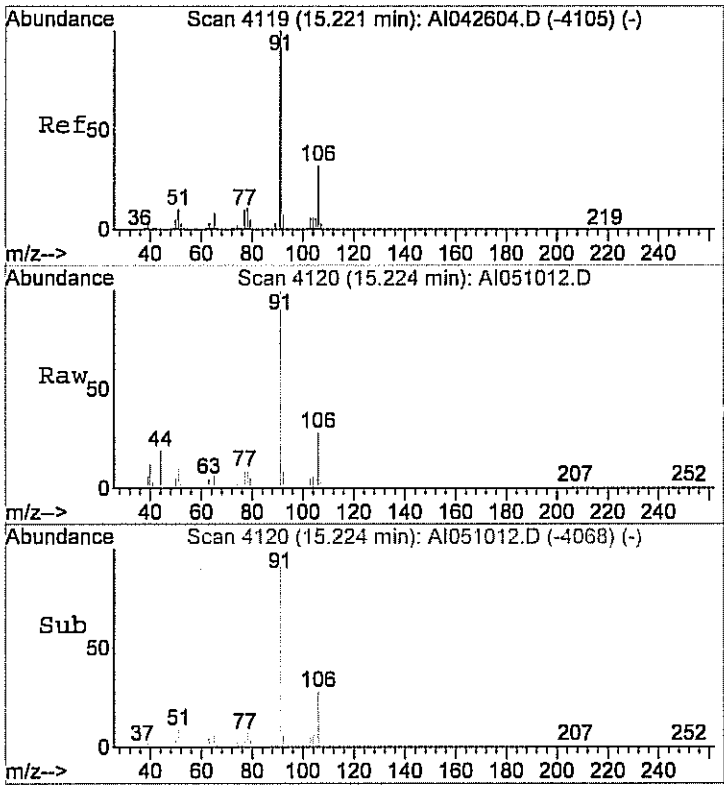


#49
Methyl Isobutyl Ketone
Concen: 0.53 ppb
RT: 12.13 min Scan# 3087
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 43 Resp: 10054

Ion	Ratio	Lower	Upper
43	100		
57	25.4	3.7	43.7
58	41.4	19.8	59.8

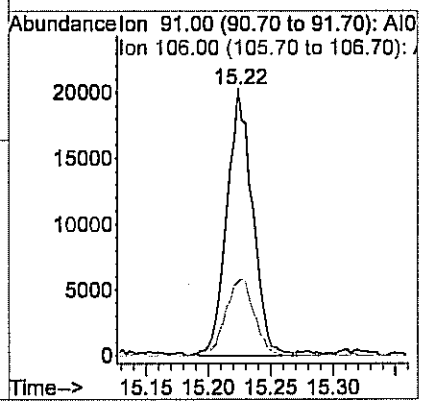


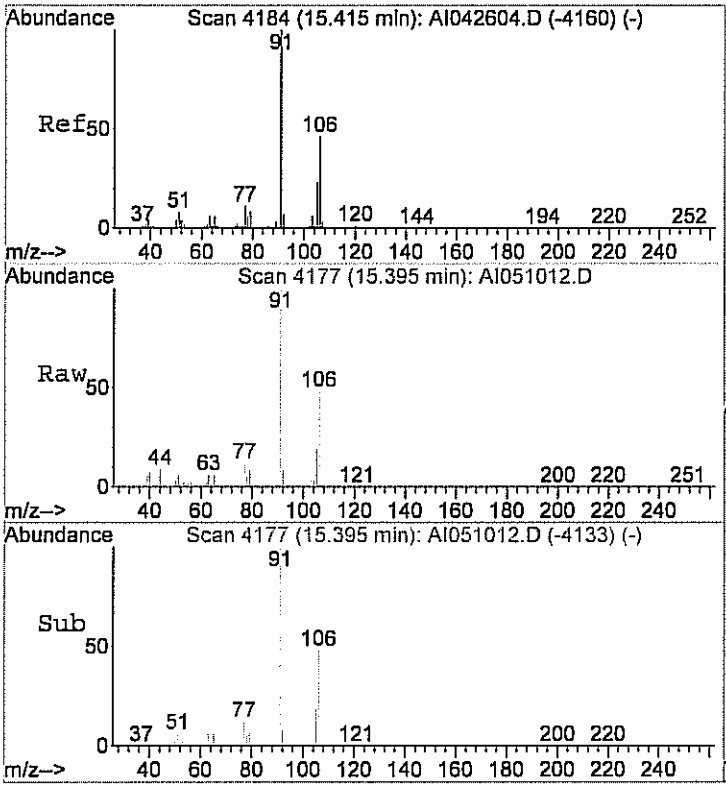


#55
Ethylbenzene
Concen: 0.37 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 91 Resp: 29404

Ion	Ratio	Lower	Upper
91	100		
106	31.2	11.8	51.8

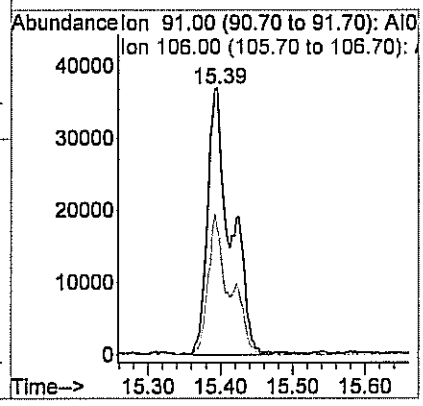


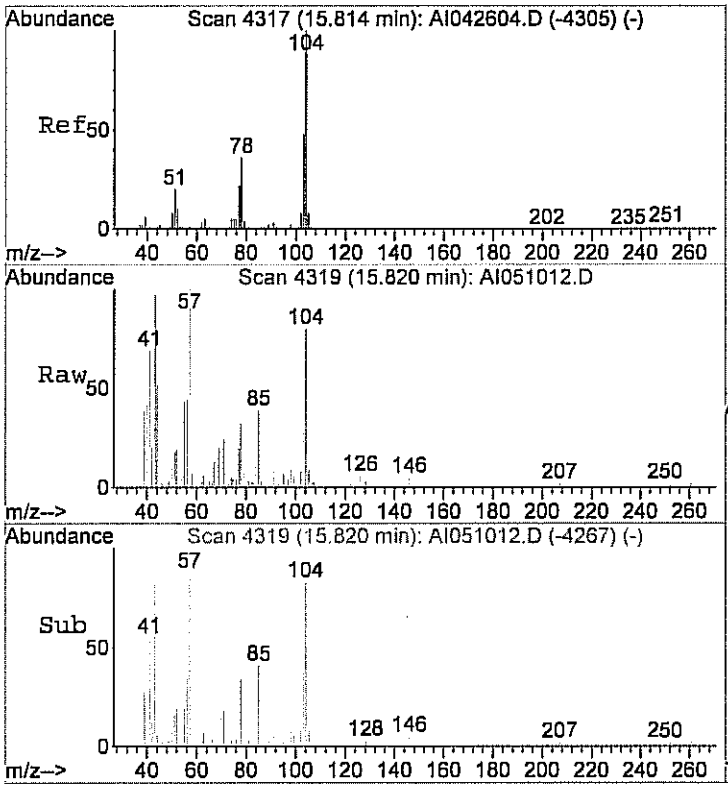


#56
m&p-xylene
Concen: 1.22 ppb
RT: 15.39 min Scan# 4177
Delta R.T. -0.02 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 91 Resp: 82872

Ion	Ratio	Lower	Upper
91	100		
106	48.4	28.7	68.7

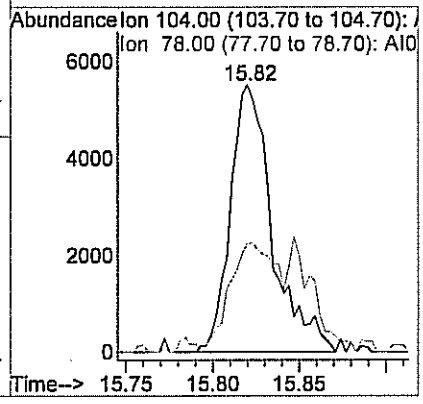


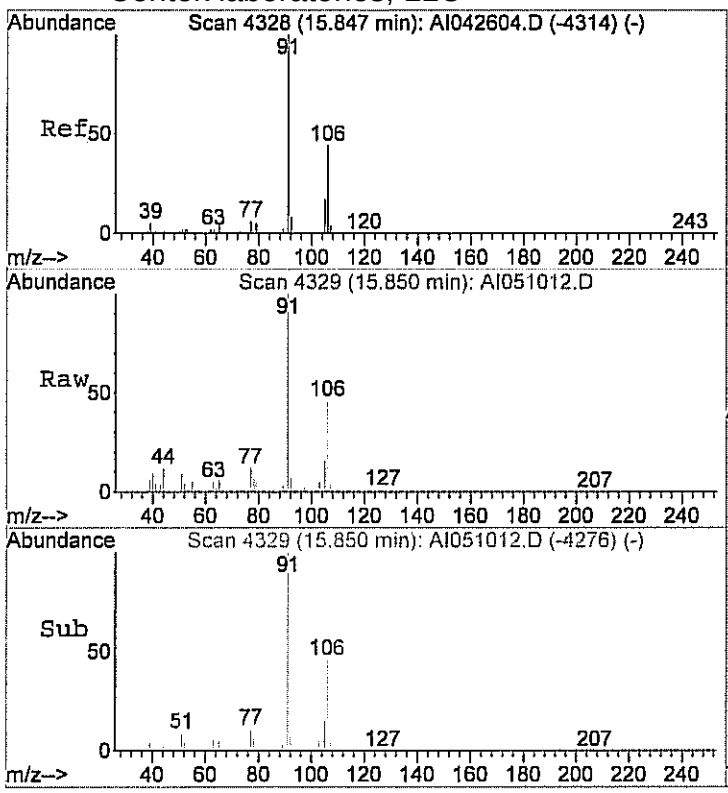


#57
Styrene
Concen: 0.25 ppb
RT: 15.82 min Scan# 4319
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:104 Resp: 9282

Ion	Ratio	Lower	Upper
104	100		
78	71.3	35.0	75.0

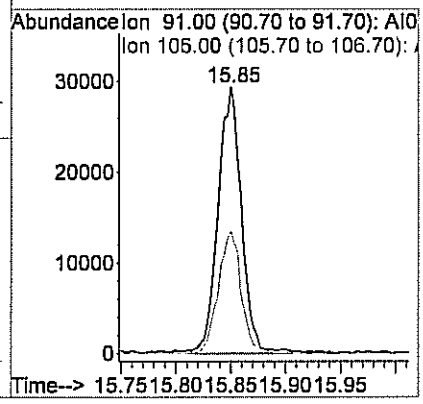


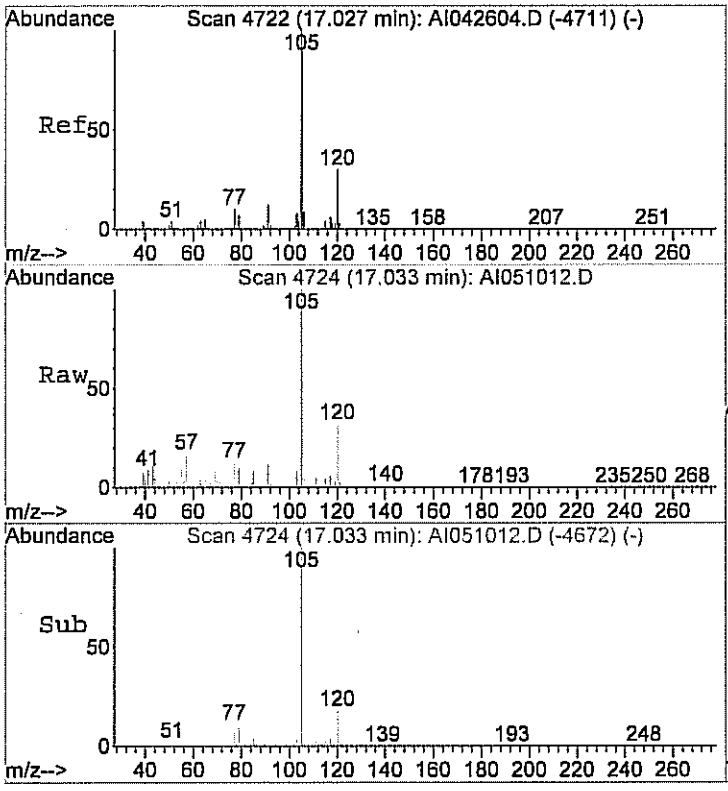


#59
o-xylene
Concen: 0.57 ppb
RT: 15.85 min Scan# 4329
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion: 91 Resp: 43734

Ion	Ratio	Lower	Upper
91	100		
106	43.9	25.6	65.6

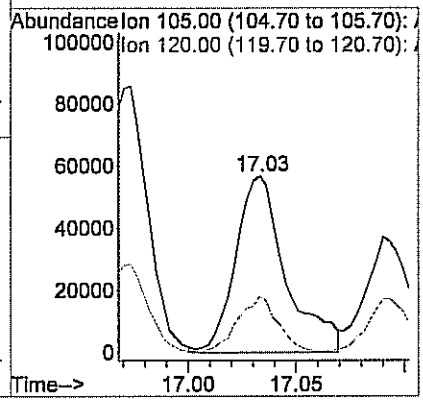


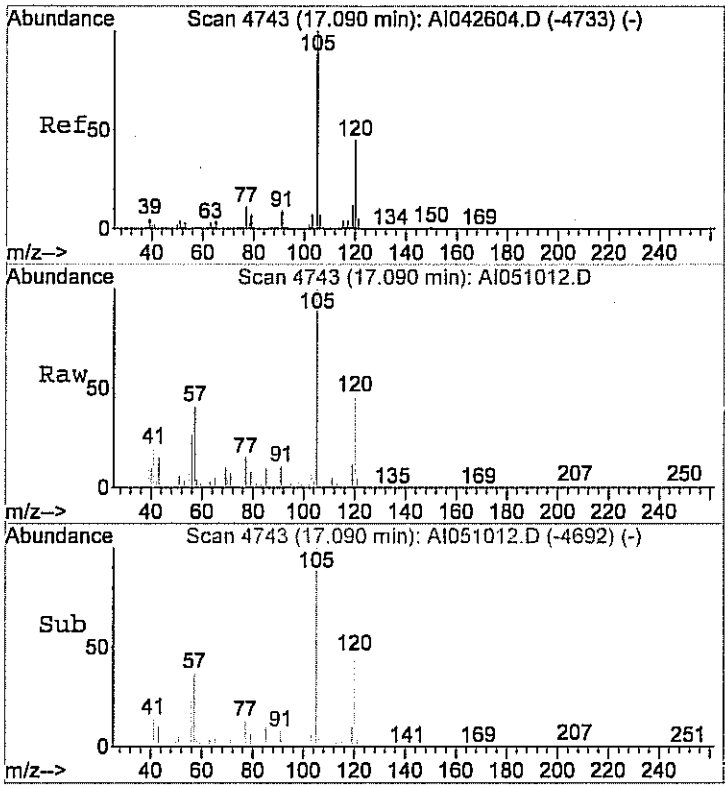


#63
4-ethyltoluene
Concen: 1.45 ppb m
RT: 17.03 min Scan# 4724
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:105 Resp: 92007

Ion	Ratio	Lower	Upper
105	100		
120	25.7	26.5	66.5#

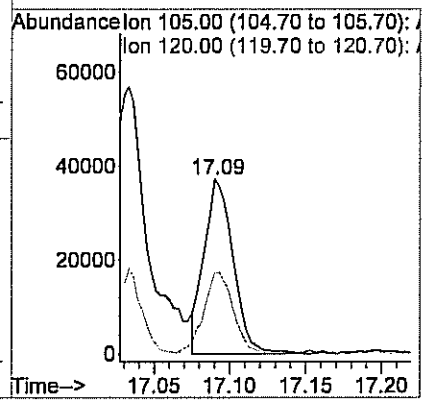


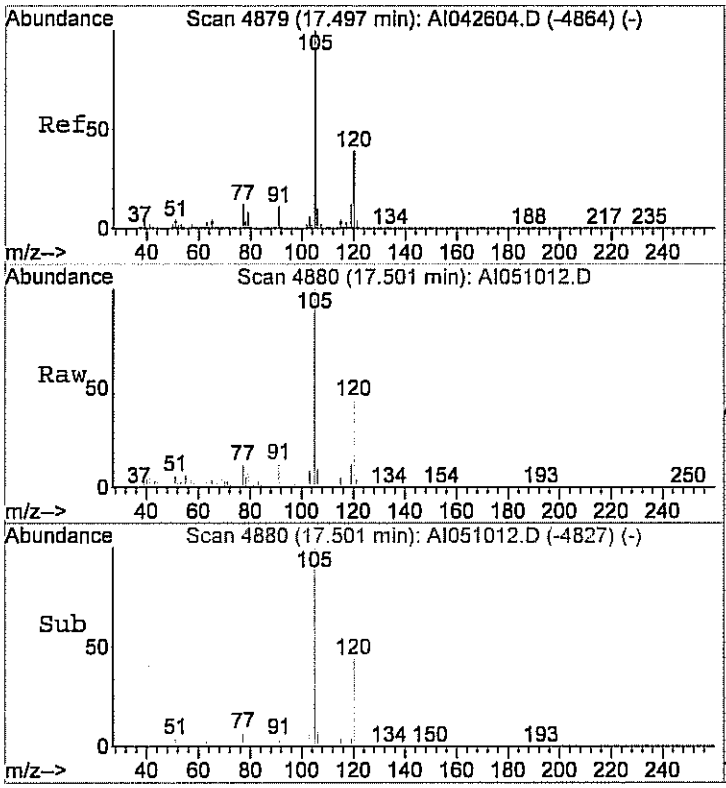


#64
1,3,5-trimethylbenzene
Concen: 0.77 ppb
RT: 17.09 min Scan# 4743
Delta R.T. 0.00 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:105 Resp: 50314

Ion	Ratio	Lower	Upper
105	100		
120	47.0	27.4	67.4

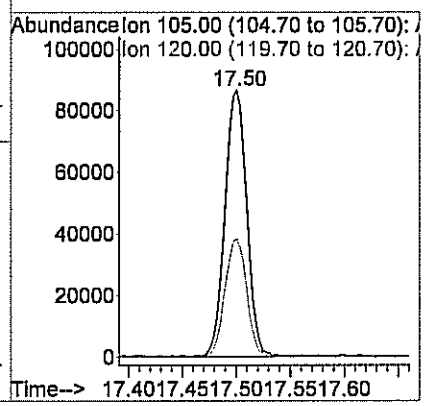




#65
1,2,4-trimethylbenzene
Concen: 2.79 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051012.D
Acq: 10 May 2011 8:23 pm

Tgt Ion:105 Resp: 121223

Ion	Ratio	Lower	Upper
105	100		
120	44.5	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051021.D Vial: 25
Acq On : 11 May 2011 1:50 am Operator: RJP
Sample : C1105011-005A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 02:11:04 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

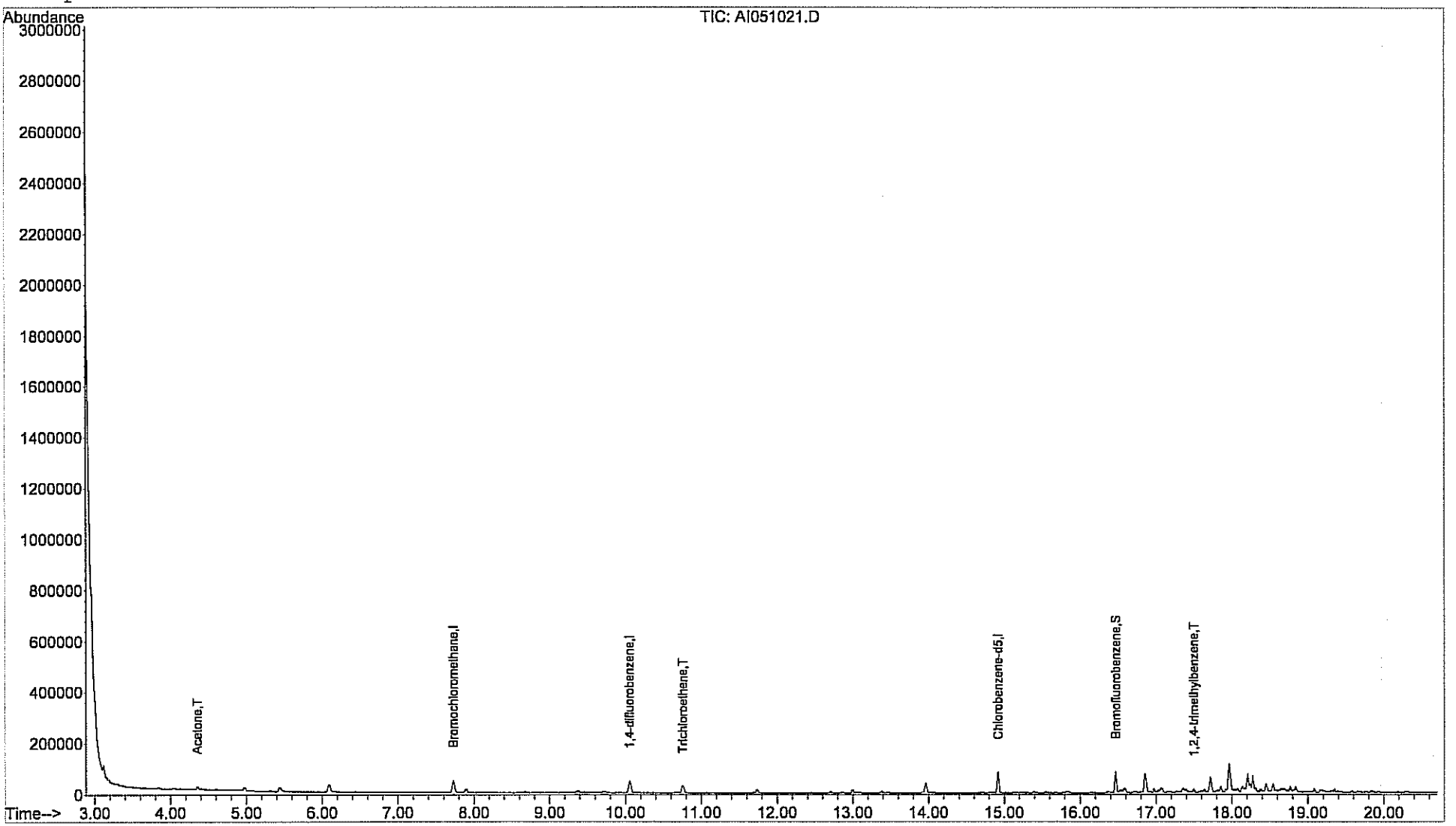
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	16300	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.05	114	47196	1.00	ppb	0.01
47) Chlorobenzene-d5	14.92	117	44901	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	22592	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	5369	1.02	ppb	# 76
41) Trichloroethene	10.75	130	12406	0.39	ppb	98
65) 1,2,4-trimethylbenzene	17.50	105	5881	0.18	ppb	99

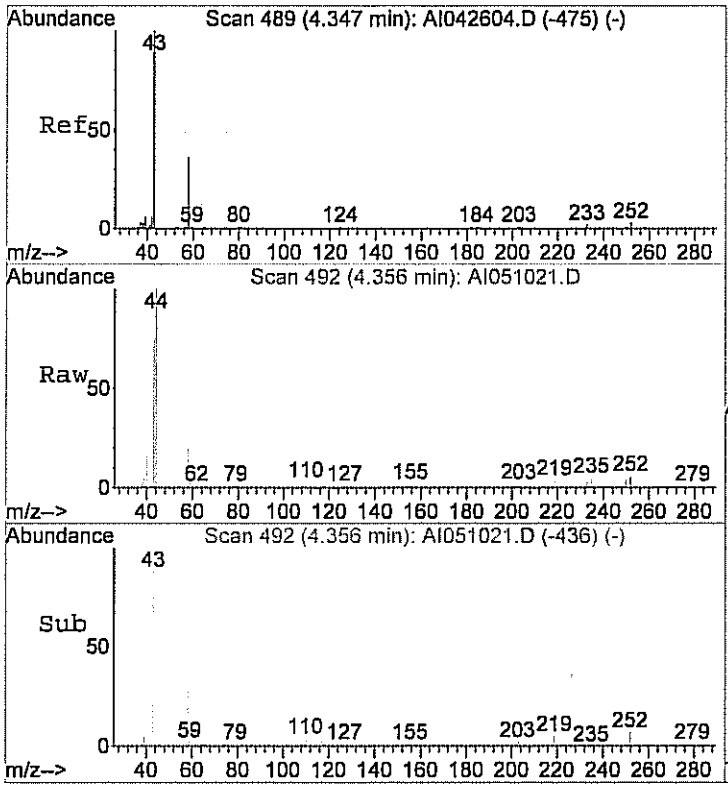
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051021.D A325_1UG.M Sat Jun 04 14:14:42 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051021.D Vial: 25
Acq On : 11 May 2011 1:50 am Operator: RJP
Sample : C1105011-005A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:03 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration

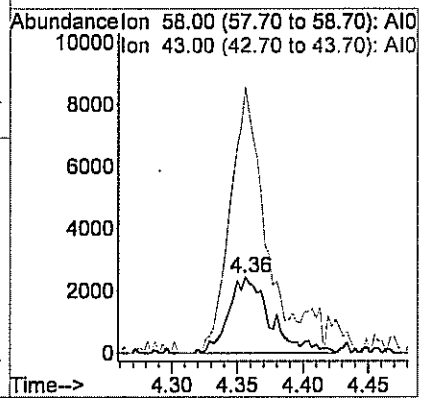


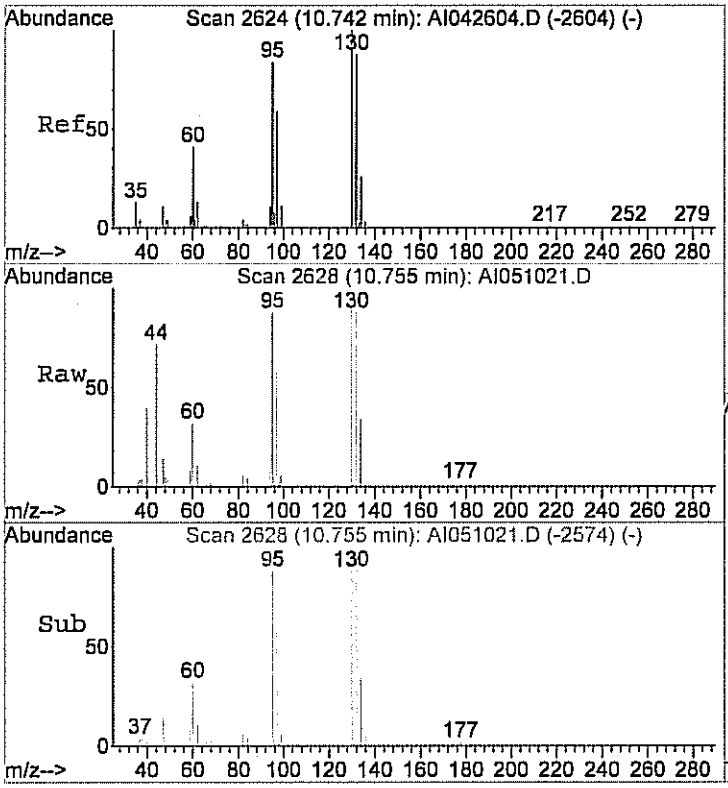


#14
Acetone
Concen: 1.02 ppb
RT: 4.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: AI051021.D
Acq: 11 May 2011 1:50 am

Tgt Ion: 58 Resp: 5369

Ion	Ratio	Lower	Upper
58	100		
43	310.2	333.6	393.6#

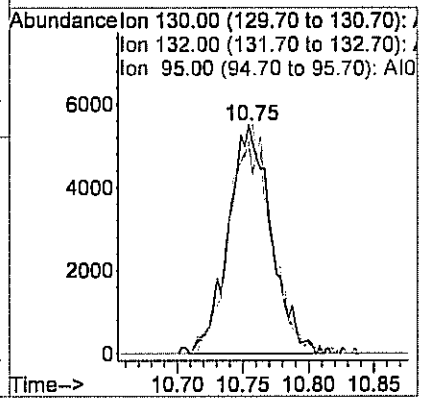


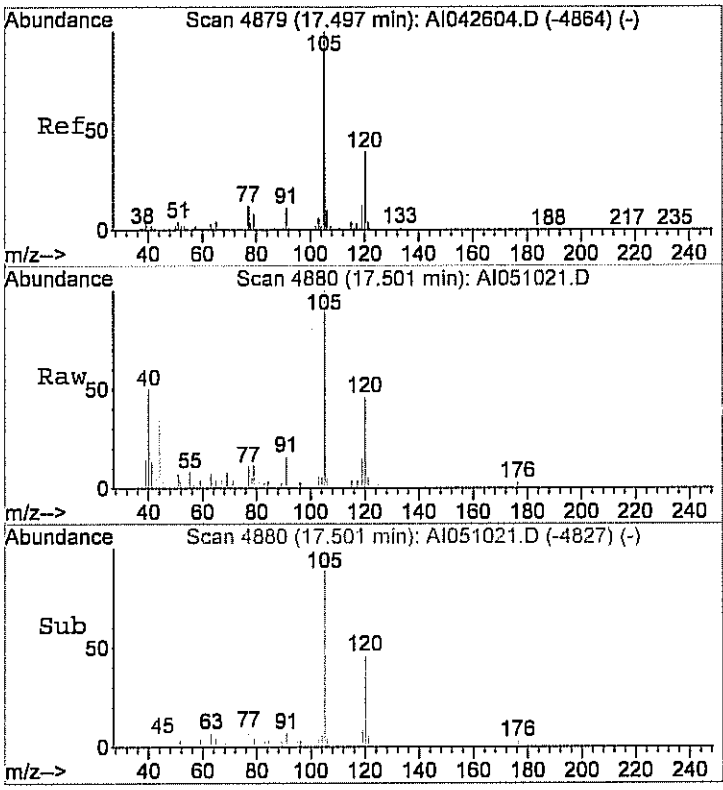


#41
Trichloroethene
Concen: 0.39 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051021.D
Acq: 11 May 2011 1:50 am

Tgt Ion:130 Resp: 12406

Ion	Ratio	Lower	Upper
130	100		
132	98.7	75.8	115.8
95	98.0	76.8	116.8

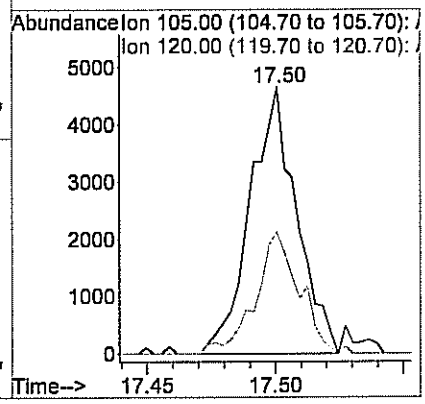




#65
1,2,4-trimethylbenzene
Concen: 0.18 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051021.D
Acq: 11 May 2011 1:50 am

Tgt Ion:105 Resp: 5881

Ion	Ratio	Lower	Upper
105	100		
120	43.3	24.0	64.0



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	1.8	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	0.57	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:00:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzene	0.33	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.31	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroform	1.7	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Cyclohexane	1.3	0.15		ppbV	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 11	0.44	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 113	0.87	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 12	2.2	0.15		ppbV	1	5/10/2011 9:00:00 PM
Heptane	0.16	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
o-Xylene	0.26	0.15		ppbV	1	5/10/2011 9:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	0.20	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	0.55	0.15		ppbV	1	5/10/2011 9:00:00 PM
Toluene	0.84	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Trichloroethene	66	3.6		ppbV	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:00:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	8.7	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	9.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	2.8	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:00:00 PM
4-ethyltoluene	5.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:00:00 PM
Benzene	1.1	0.49		ug/m3	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.98	0.47		ug/m3	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:00:00 PM
Chloroform	8.3	0.74		ug/m3	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Cyclohexane	4.5	0.52		ug/m3	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Freon 11	2.5	0.86		ug/m3	1	5/10/2011 9:00:00 PM
Freon 113	6.8	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	11	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Heptane	0.67	0.62		ug/m3	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:00:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:00:00 PM
o-Xylene	1.1	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	1.4	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	1.6	0.45		ug/m3	1	5/10/2011 9:00:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Trichloroethene	360	20		ug/m3	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051013.D Vial: 26
Acq On : 10 May 2011 9:00 pm Operator: RJP
Sample : C1105011-006A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 21:21:00 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

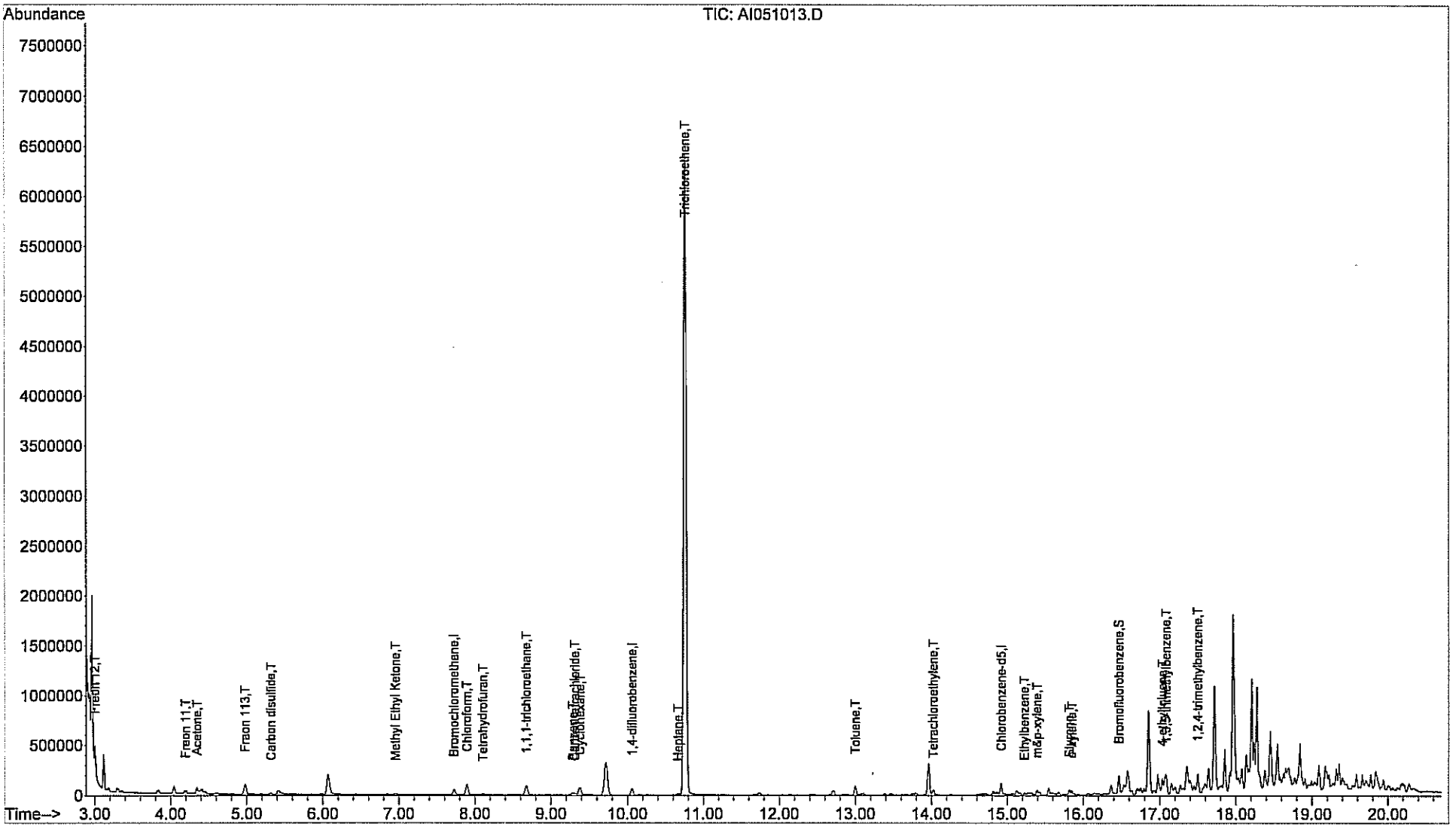
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	17635	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.06	114	60079	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	61522	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	41574	1.23	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	162032	2.25	ppb		100
13) Freon 11	4.19	101	22729	0.44	ppb		97
14) Acetone	4.35	58	23376	4.10	ppb	#	73
17) Freon 113	4.98	101	44143	0.87	ppb		96
20) Carbon disulfide	5.32	76	20457	0.31	ppb		99
25) Methyl Ethyl Ketone	6.96	72	3730	0.58	ppb	#	100
29) Chloroform	7.89	83	90799	1.68	ppb		99
30) Tetrahydrofuran	8.10	42	6915	0.55	ppb		99
33) 1,1,1-trichloroethane	8.68	97	68806	1.56	ppb		96
34) Cyclohexane	9.37	56	28891	1.29	ppb	#	75
35) Carbon tetrachloride	9.32	117	8724	0.12	ppb		100
36) Benzene	9.28	78	19135	0.33	ppb		98
40) Heptane	10.66	43	3395	0.16	ppb	#	23
41) Trichloroethene	10.75	130	2806306	68.83	ppb		99
48) Toluene	13.00	92	35790	0.84	ppb		98
53) Tetrachloroethylene	14.02	164	10923	0.20	ppb		100
55) Ethylbenzene	15.23	91	12594	0.15	ppb		98
56) m&p-xylene	15.39	91	34321	0.48	ppb		98
57) Styrene	15.82	104	7091	0.18	ppb		87
59) o-xylene	15.85	91	20879	0.26	ppb		99
63) 4-ethyltoluene	17.03	105	68369m	1.03	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	38998	0.57	ppb		99
65) 1,2,4-trimethylbenzene	17.50	105	83196	1.83	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

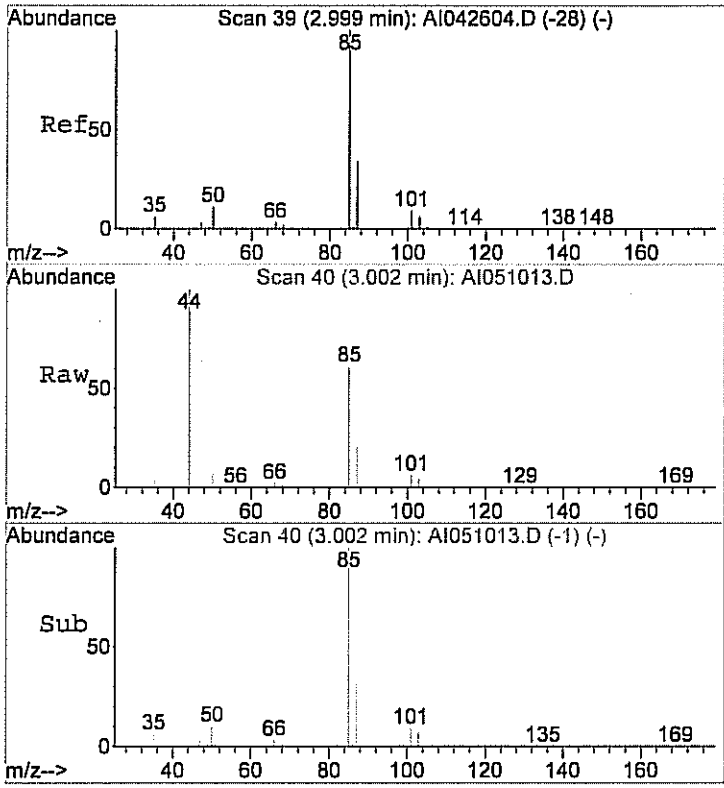
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051013.D Vial: 26
Acq On : 10 May 2011 9:00 pm Operator: RJP
Sample : C1105011-006A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:35 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



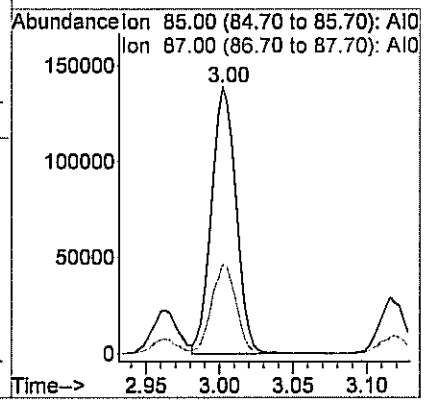
Centek laboratories, LLC

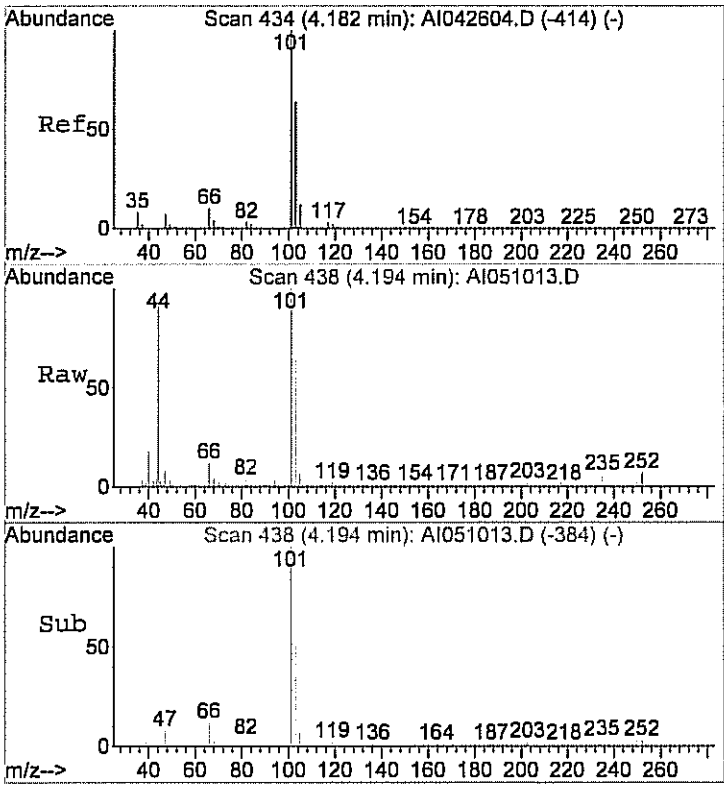


#3
Freon 12
Concen: 2.25 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 85 Resp: 162032

Ion	Ratio	Lower	Upper
85	100		
87	33.4	13.2	53.2

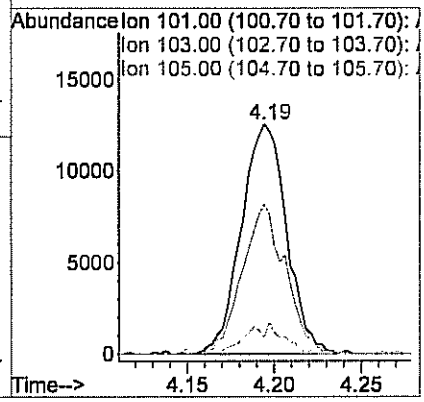


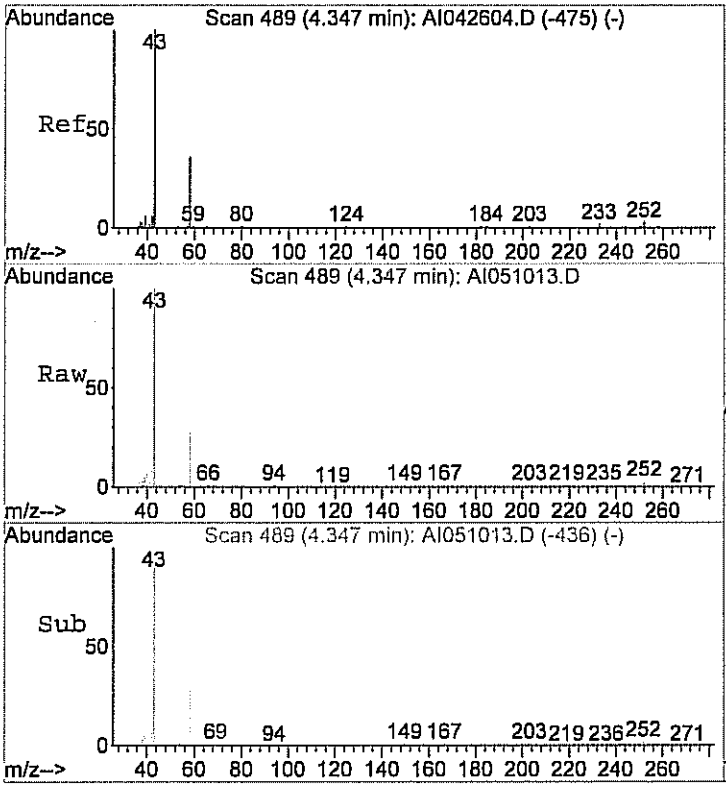


#13
Freon 11
Concen: 0.44 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:101 Resp: 22729

Ion	Ratio	Lower	Upper
101	100		
103	62.5	45.1	85.1
105	11.2	0.0	31.5

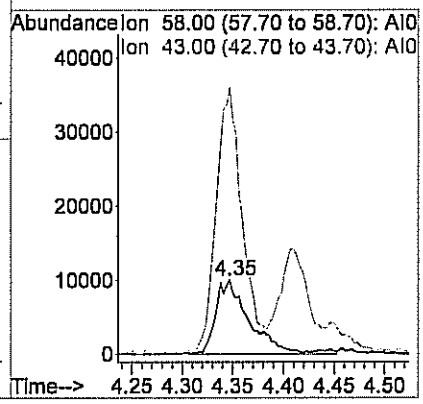


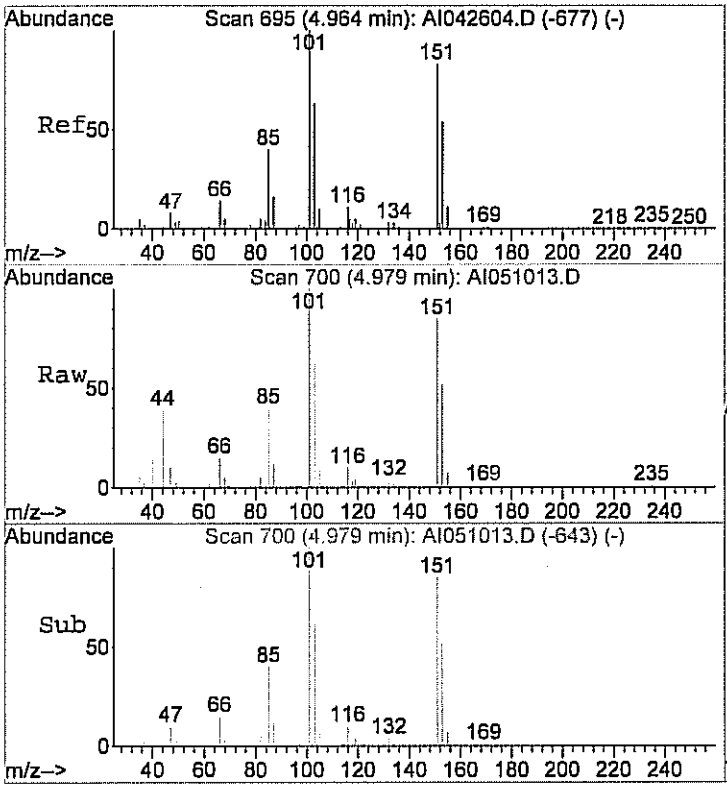


#14
Acetone
Concen: 4.10 ppb
RT: 4.35 min Scan# 489
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 58 Resp: 23376

Ion	Ratio	Lower	Upper
58	100		
43	424.2	333.6	393.6#

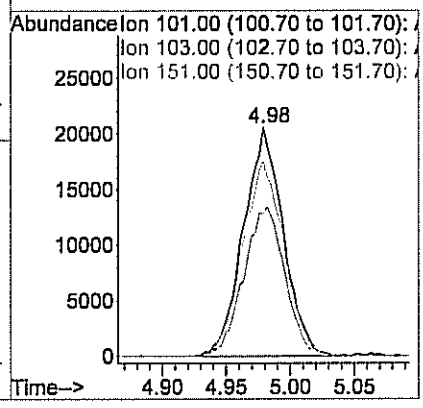


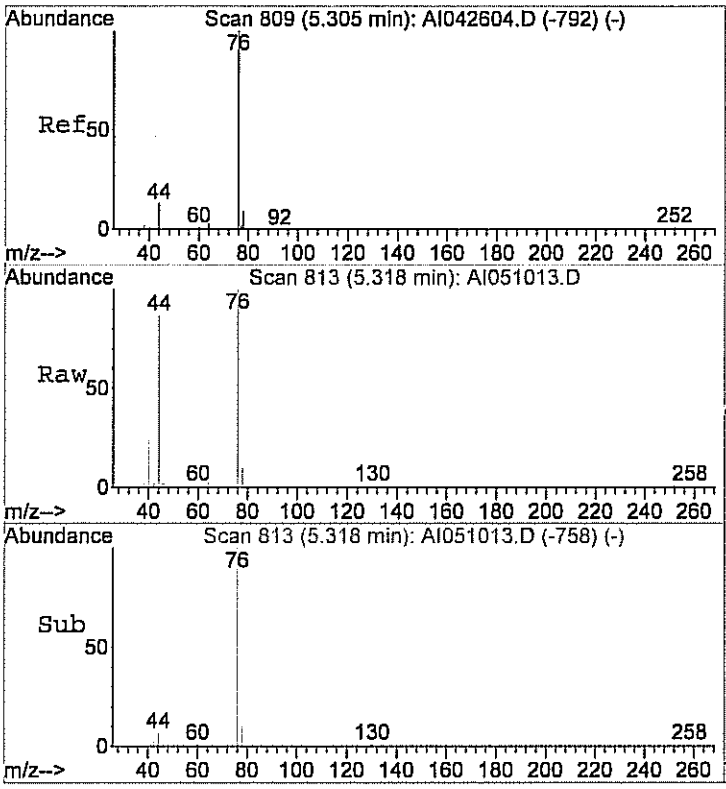


#17
Freon 113
Concen: 0.87 ppb
RT: 4.98 min Scan# 700
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:101 Resp: 44143

Ion	Ratio	Lower	Upper
101	100		
103	67.7	43.9	83.9
151	90.0	66.7	106.7

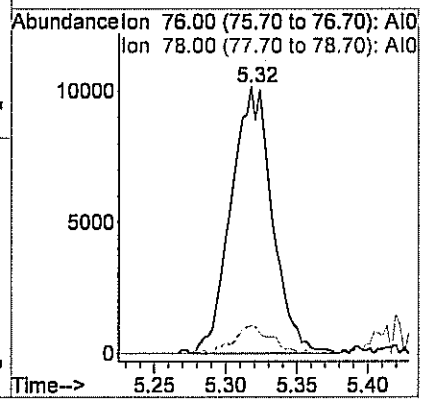


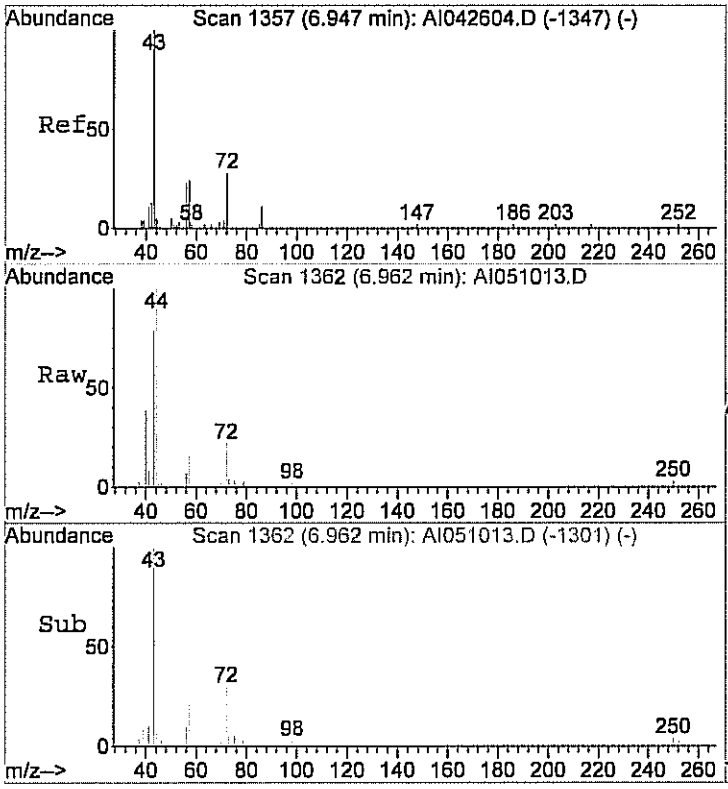


#20
Carbon disulfide
Concen: 0.31 ppb
RT: 5.32 min Scan# 813
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 76 Resp: 20457

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	29.3

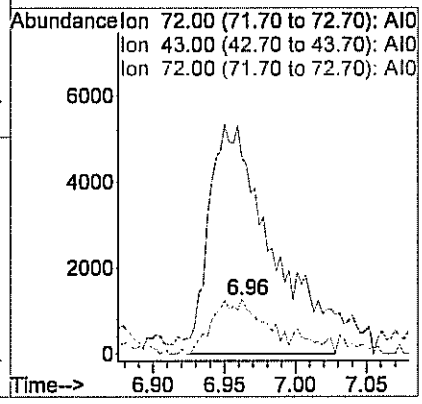


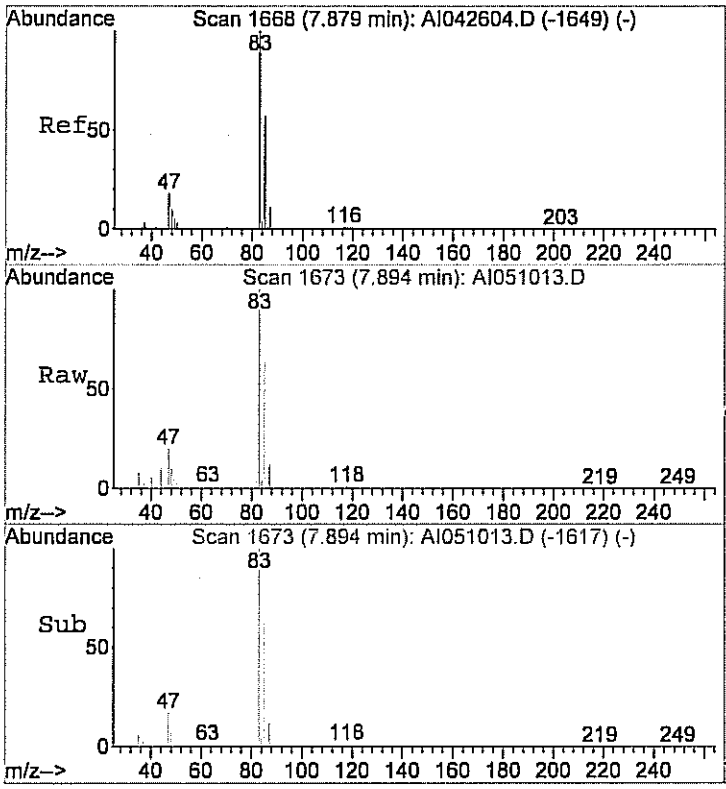


#25
Methyl Ethyl Ketone
Concen: 0.58 ppb
RT: 6.96 min Scan# 1362
Delta R.T. 0.03 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 72 Resp: 3730

Ion	Ratio	Lower	Upper
72	100		
43	463.0	0.0	20.0#
72	100.0	80.0	120.0

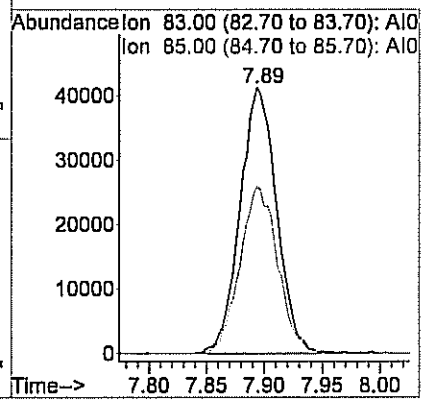


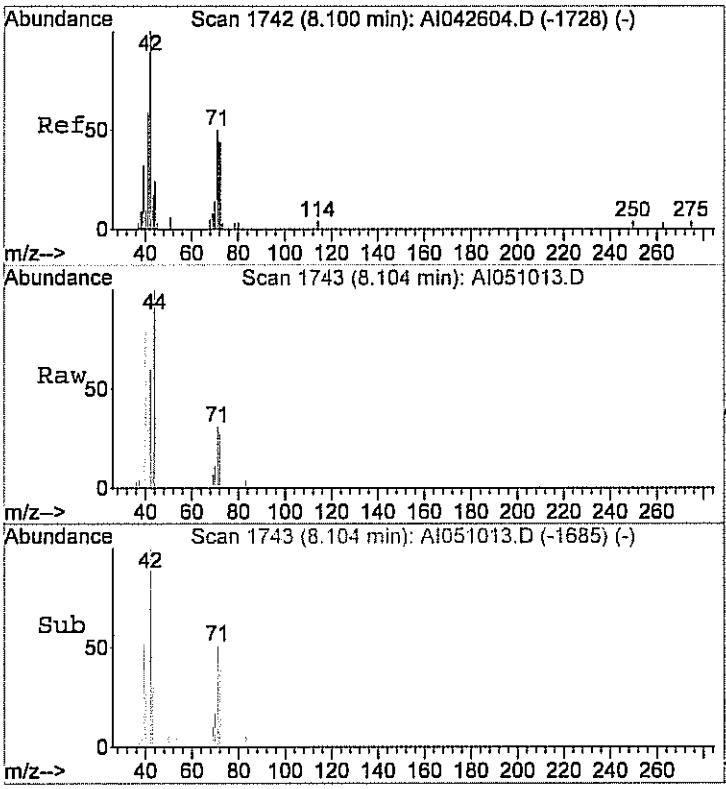


#29
Chloroform
Concen: 1.68 ppb
RT: 7.89 min Scan# 1673
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 83 Resp: 90799

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.9	85.9

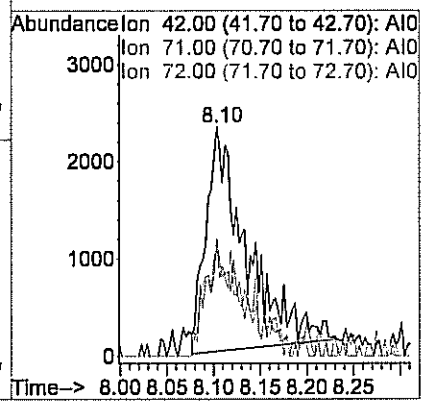


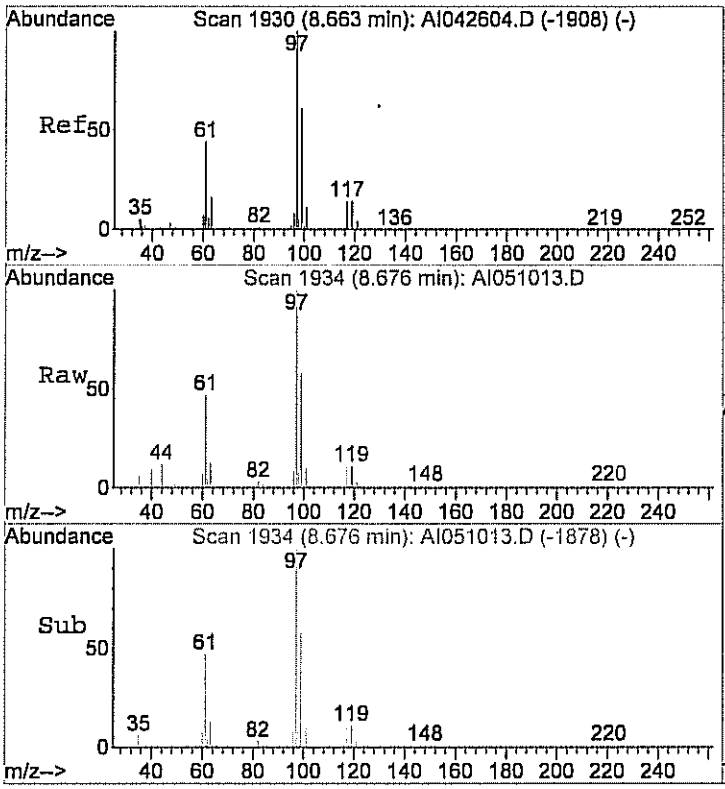


#30
Tetrahydrofuran
Concen: 0.55 ppb
RT: 8.10 min Scan# 1743
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 42 Resp: 6915

Ion	Ratio	Lower	Upper
42	100		
71	48.6	28.4	68.4
72	48.0	29.0	69.0

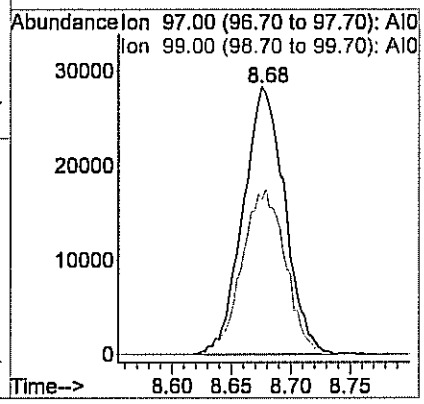


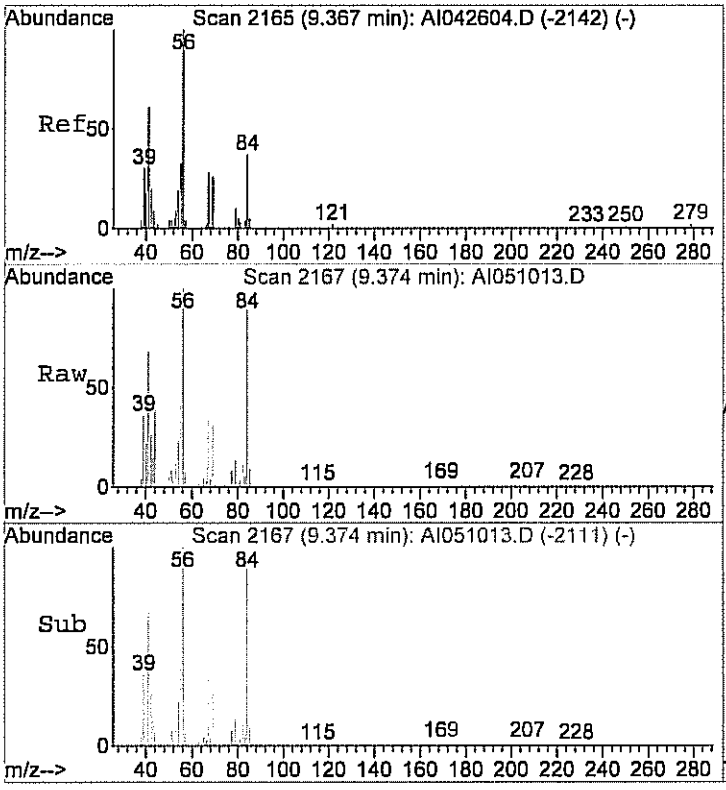


#33
1,1,1-trichloroethane
Concen: 1.56 ppb
RT: 8.68 min Scan# 1934
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 97 Resp: 68806

Ion	Ratio	Lower	Upper
97	100		
99	64.3	47.3	87.3

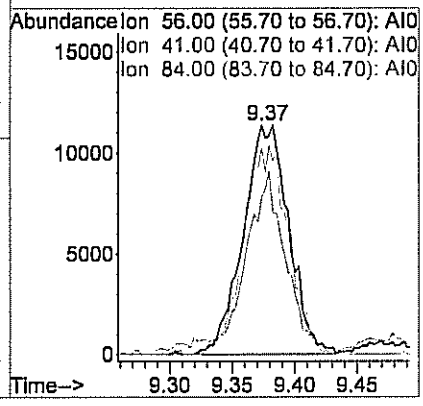


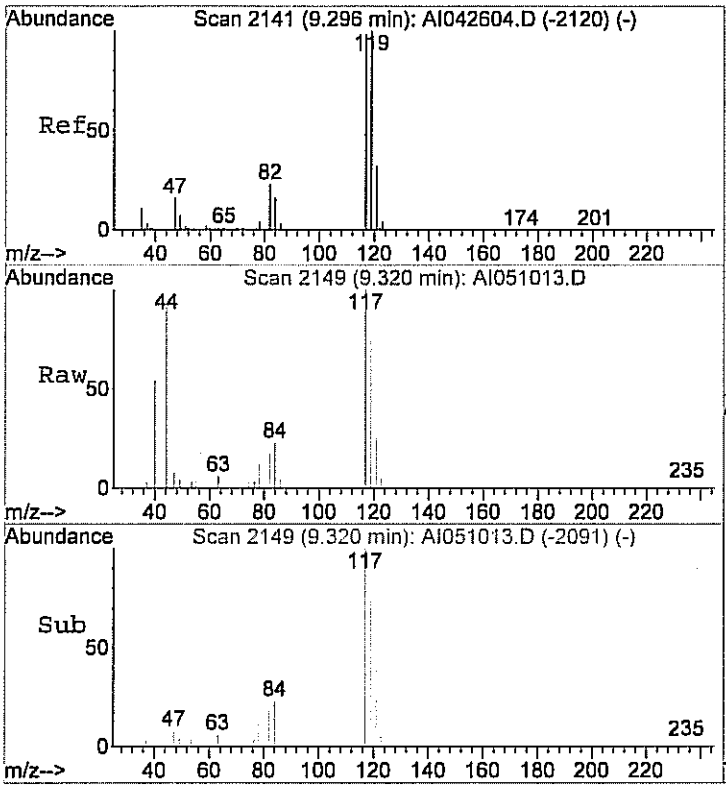


#34
Cyclohexane
Concen: 1.29 ppb
RT: 9.37 min Scan# 2167
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 56 Resp: 28891

Ion	Ratio	Lower	Upper
56	100		
41	68.5	46.1	86.1
84	88.6	110.9	150.9#

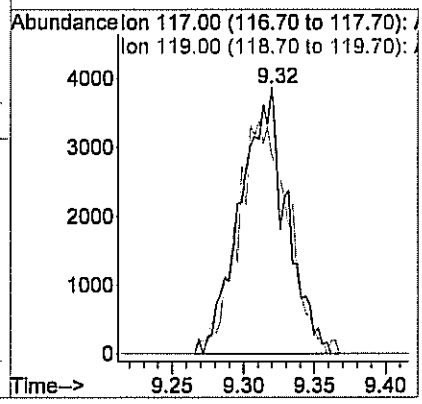


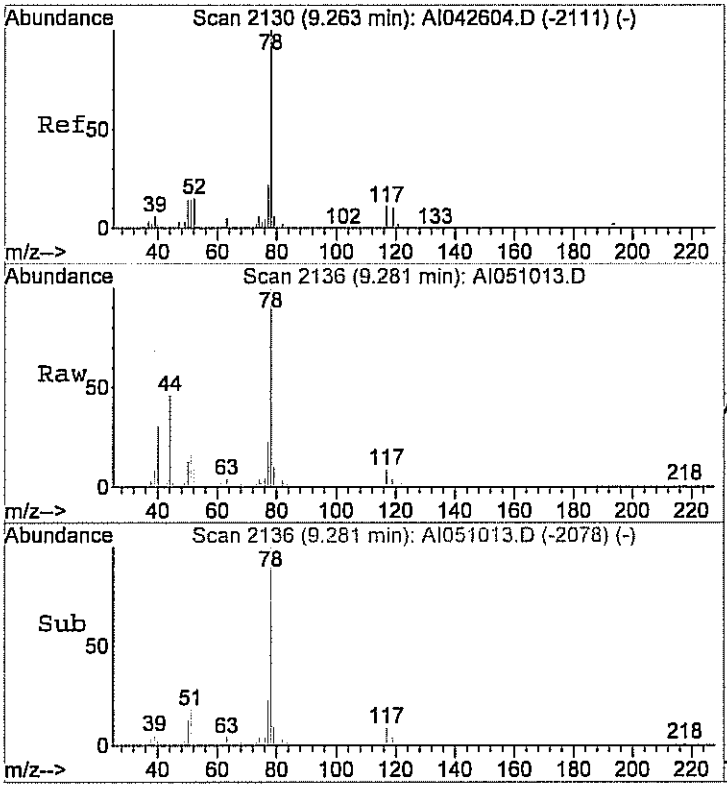


#35
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.32 min Scan# 2149
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:117 Resp: 8724

Ion	Ratio	Lower	Upper
117	100		
119	96.2	75.8	115.8

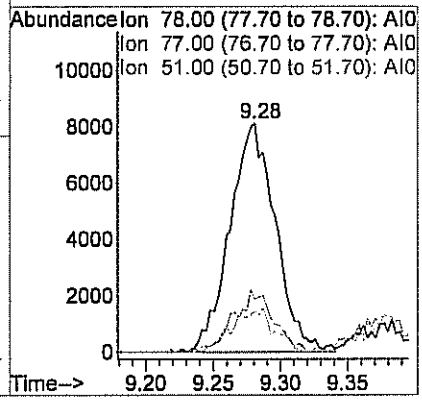


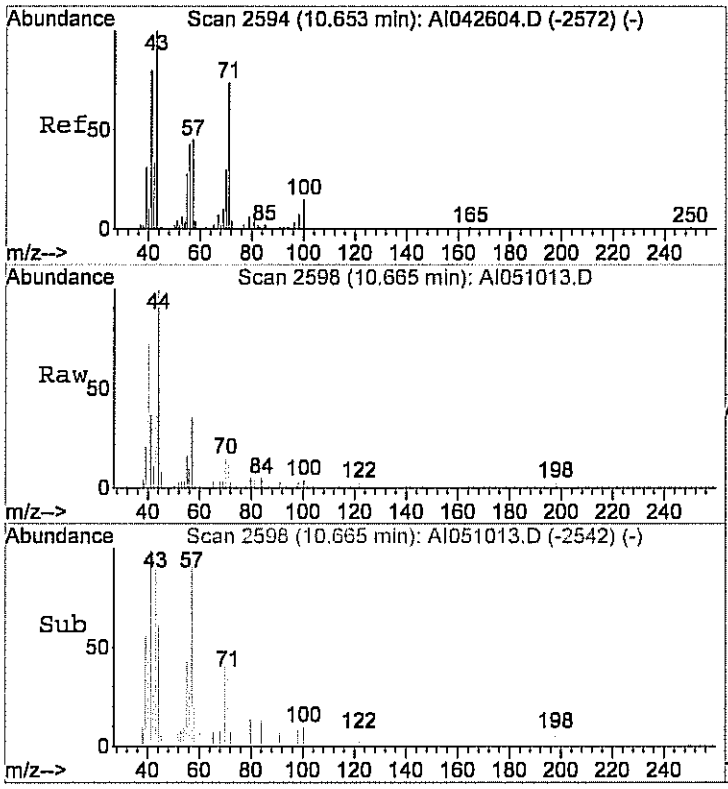


#36
Benzene
Concen: 0.33 ppb
RT: 9.28 min Scan# 2136
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 78 Resp: 19135

Ion	Ratio	Lower	Upper
78	100		
77	23.6	3.4	43.4
51	17.3	0.0	35.0

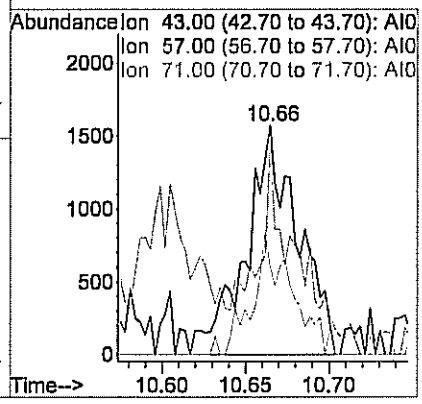


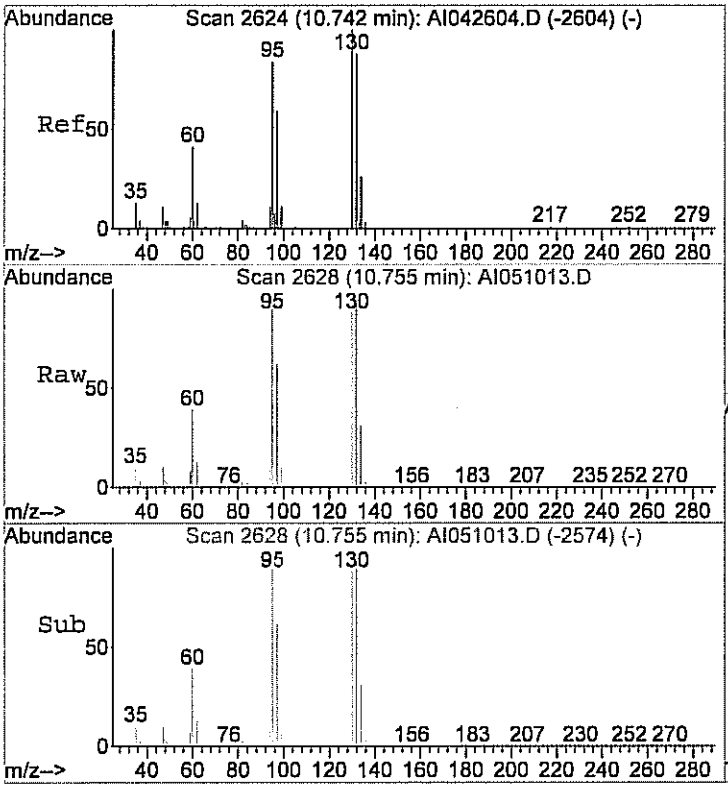


#40
Heptane
Concen: 0.16 ppb
RT: 10.66 min Scan# 2598
Delta R.T. 0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 43 Resp: 3395

Ion	Ratio	Lower	Upper
43	100		
57	150.6	35.0	75.0#
71	39.7	37.8	77.8

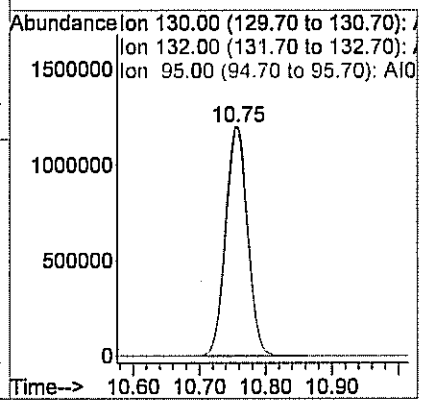


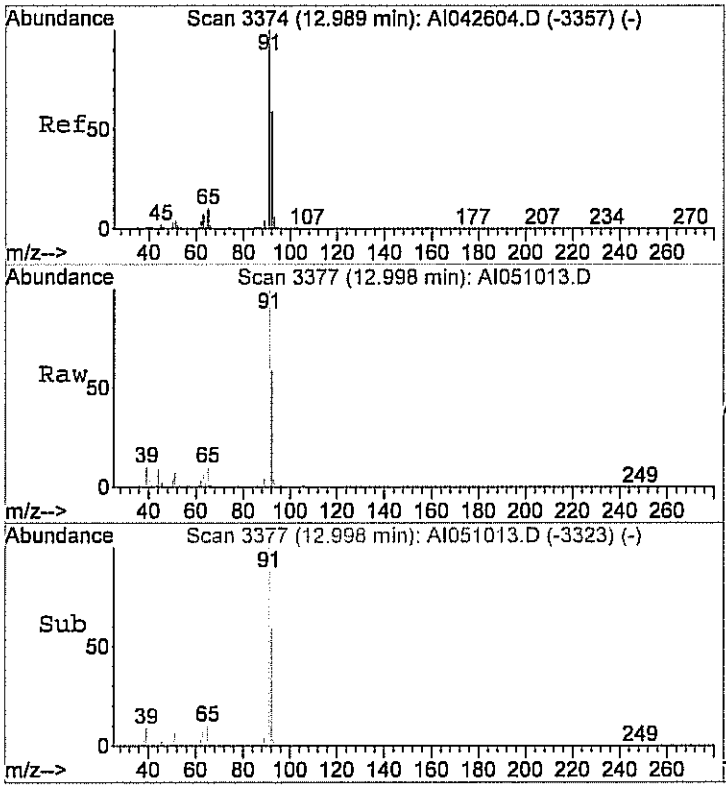


#41
Trichloroethene
Concen: 68.83 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:130 Resp: 2806306

Ion	Ratio	Lower	Upper
130	100		
132	97.3	75.8	115.8
95	96.3	76.8	116.8

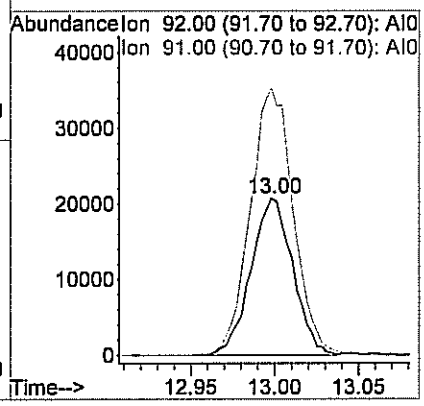


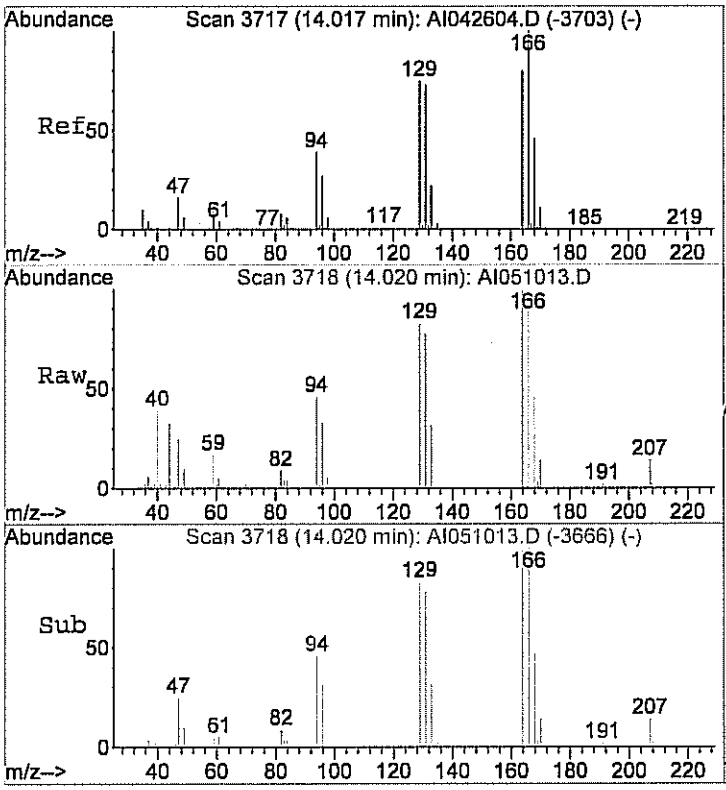


#48
Toluene
Concen: 0.84 ppb
RT: 13.00 min Scan# 3377
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 92 Resp: 35790

Ion	Ratio	Lower	Upper
92	100		
91	175.6	152.8	192.8

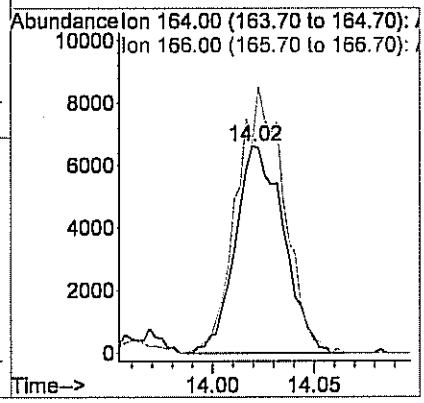


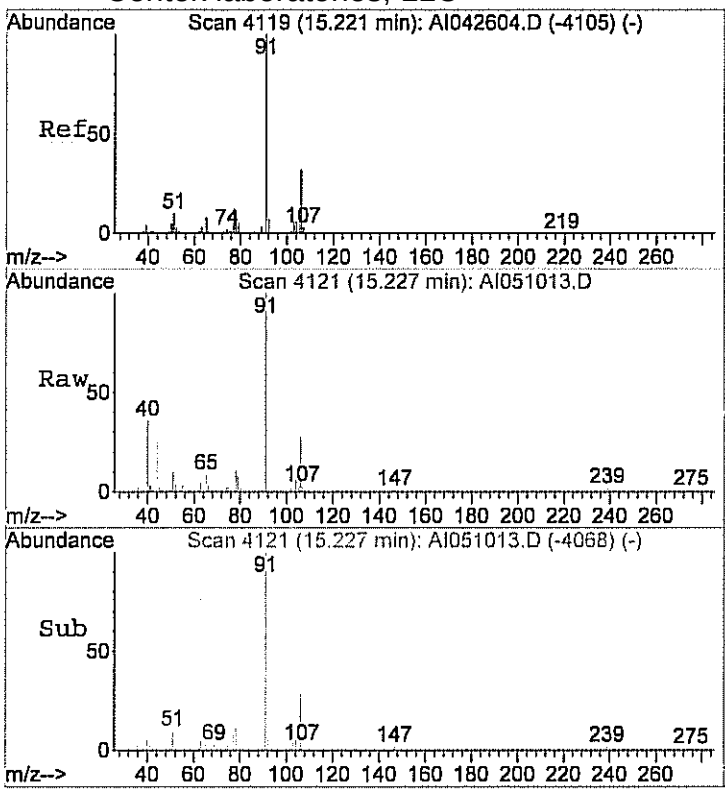


#53
Tetrachloroethylene
Concen: 0.20 ppb
RT: 14.02 min Scan# 3718
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:164 Resp: 10923

Ion	Ratio	Lower	Upper
164	100		
166	125.5	105.5	145.5

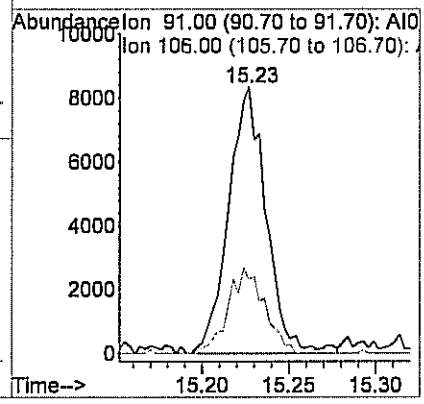


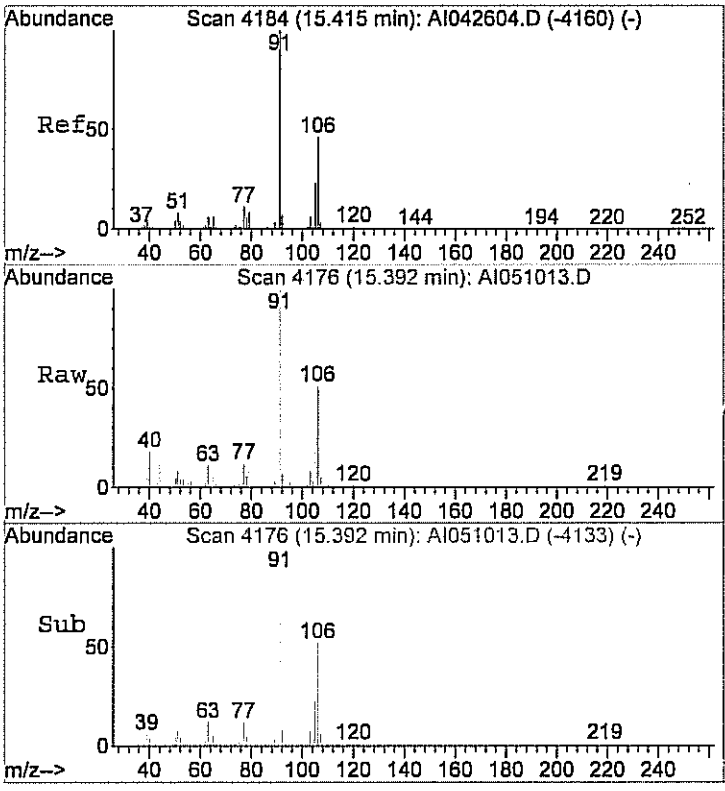


#55
Ethylbenzene
Concen: 0.15 ppb
RT: 15.23 min Scan# 4121
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 91 Resp: 12594

Ion	Ratio	Lower	Upper
91	100		
106	30.8	11.8	51.8

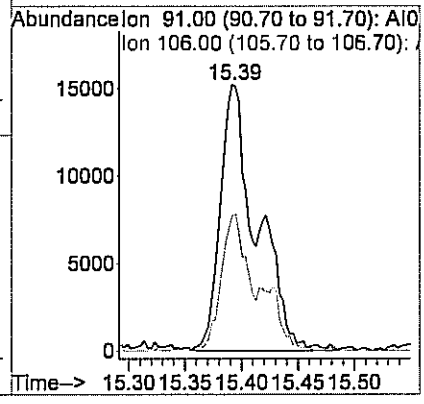


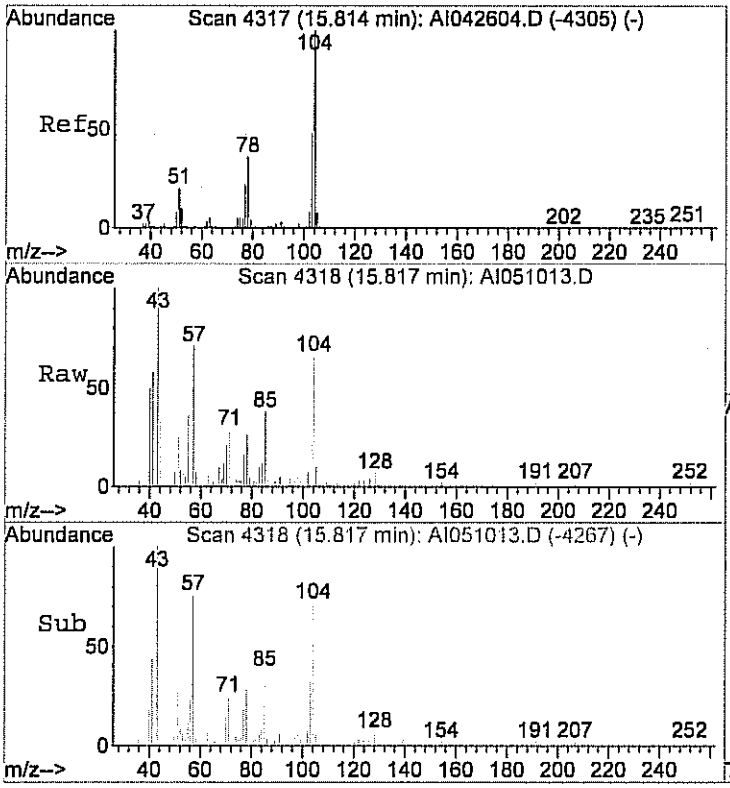


#56
m&p-xylene
Concen: 0.48 ppb
RT: 15.39 min Scan# 4176
Delta R.T. -0.02 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 91 Resp: 34321

Ion	Ratio	Lower	Upper
91	100		
106	50.4	28.7	68.7

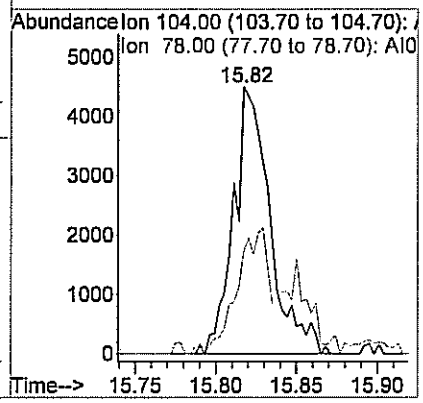


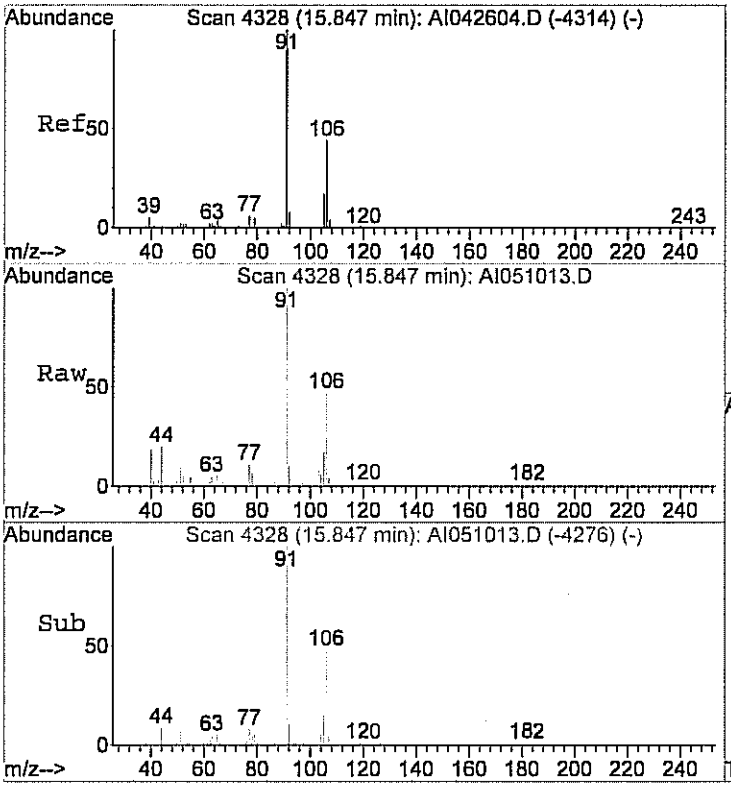


#57
Styrene
Concen: 0.18 ppb
RT: 15.82 min Scan# 4318
Delta R.T. 0.00 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:104 Resp: 7091

Ion	Ratio	Lower	Upper
104	100		
78	64.4	35.0	75.0

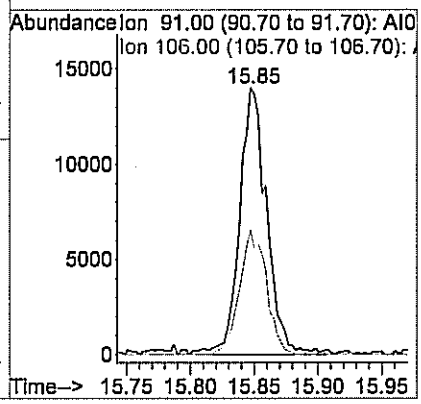


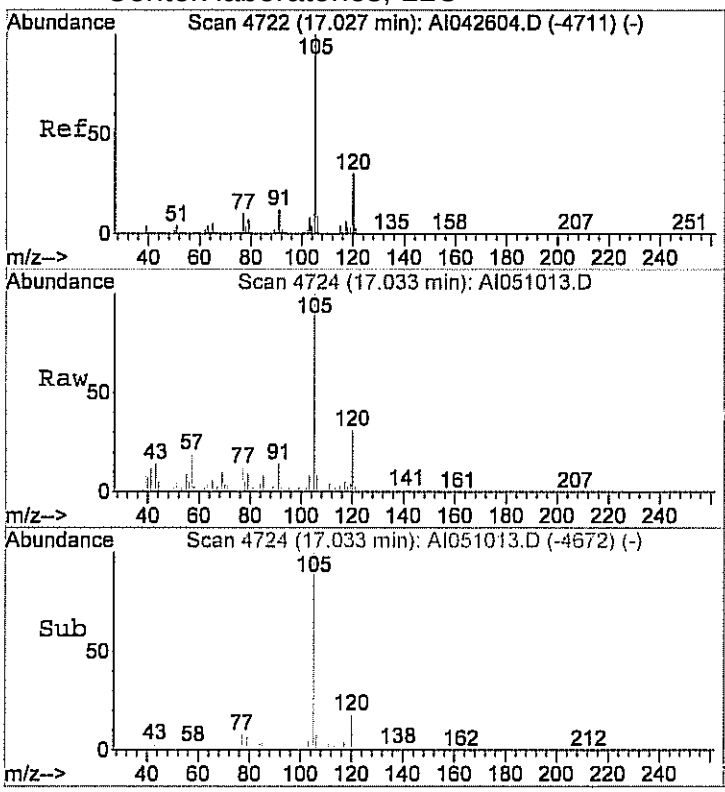


#59
o-xylene
Concen: 0.26 ppb
RT: 15.85 min Scan# 4328
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion: 91 Resp: 20879

Ion	Ratio	Lower	Upper
91	100		
106	45.9	25.6	65.6

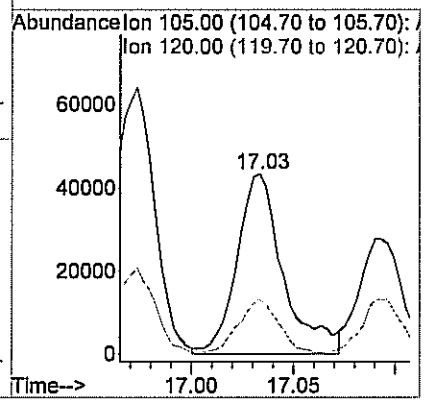


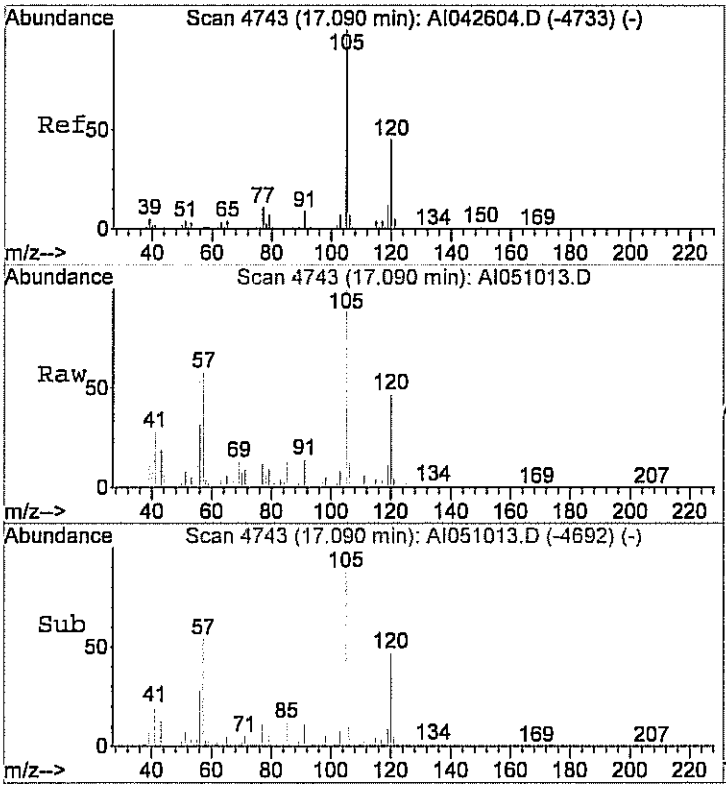


#63
4-ethyltoluene
Concen: 1.03 ppb m
RT: 17.03 min Scan# 4724
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:105 Resp: 68369

Ion	Ratio	Lower	Upper
105	100		
120	26.6	26.5	66.5

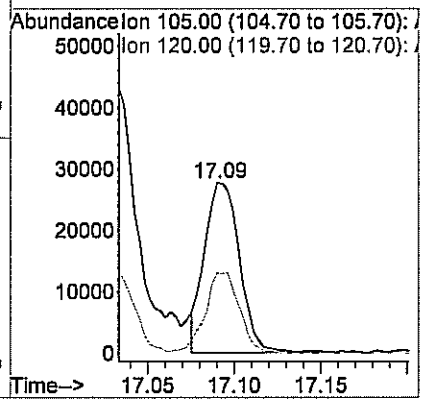


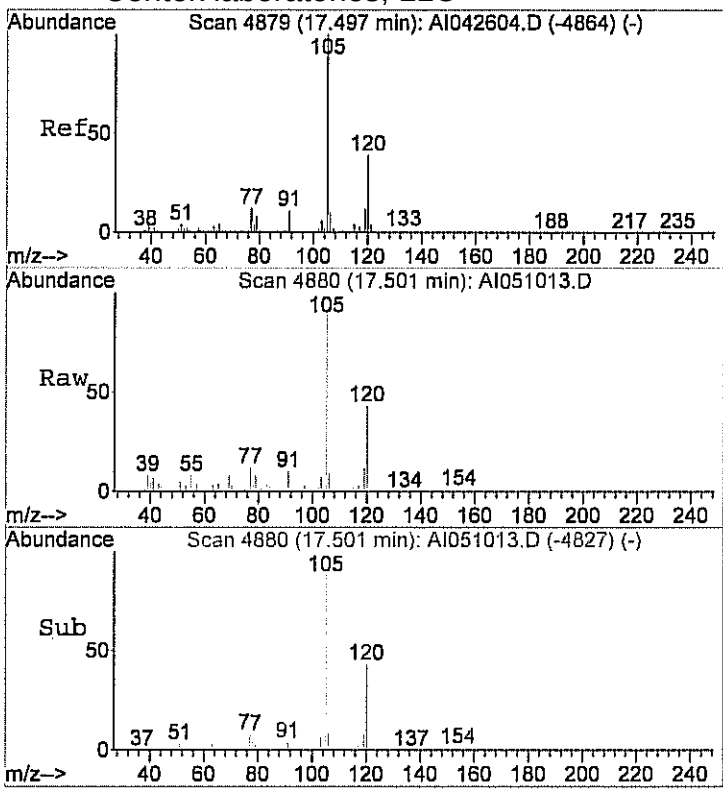


#64
1,3,5-trimethylbenzene
Concen: 0.57 ppb
RT: 17.09 min Scan# 4743
Delta R.T. 0.00 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:105 Resp: 38998

Ion	Ratio	Lower	Upper
105	100		
120	46.6	27.4	67.4

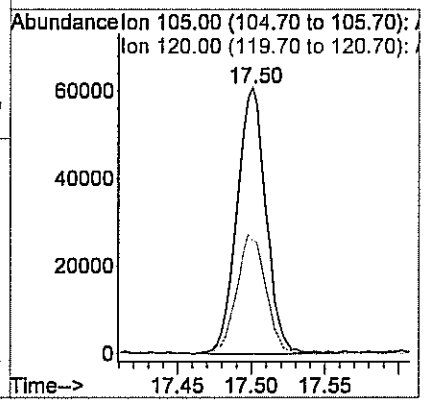




#65
1,2,4-trimethylbenzene
Concen: 1.83 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051013.D
Acq: 10 May 2011 9:00 pm

Tgt Ion:105 Resp: 83196

Ion	Ratio	Lower	Upper
105	100		
120	44.7	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051022.D Vial: 26
Acq On : 11 May 2011 2:25 am Operator: RJP
Sample : C1105011-006A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 02:46:21 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

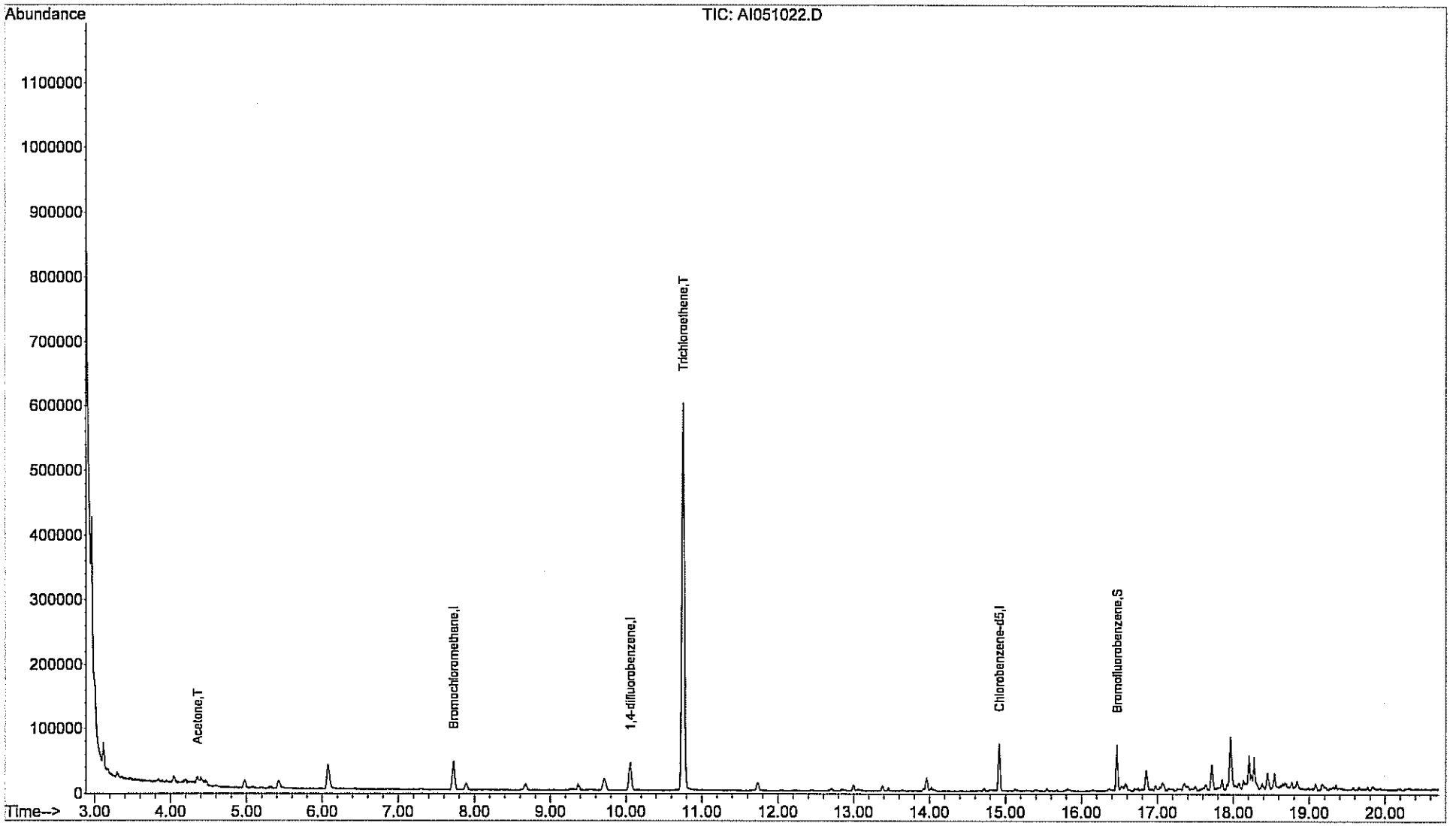
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	15458	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.06	114	43619	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	40856	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	19040	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	3608	0.72	ppb	# 66
41) Trichloroethene	10.75	130	257436	8.70	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051022.D A325_1UG.M Sat Jun 04 14:14:46 2011 MSD1 Page 1

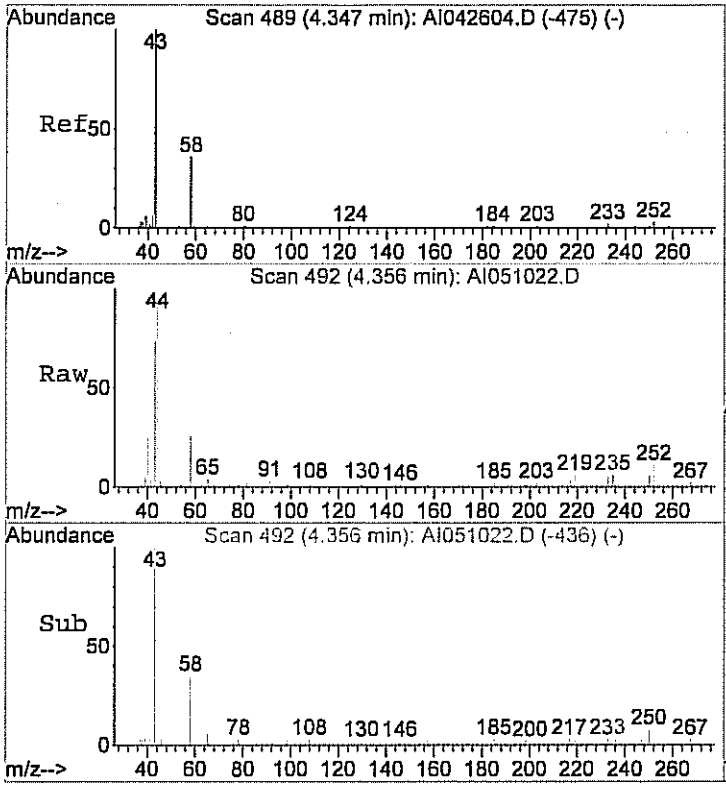
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051022.D Vial: 26
Acq On : 11 May 2011 2:25 am Operator: RJP
Sample : C1105011-006A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:04 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



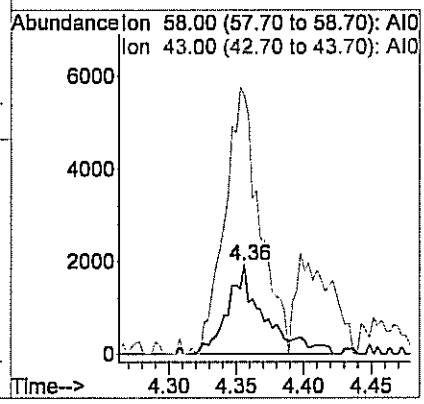
Centek laboratories, LLC

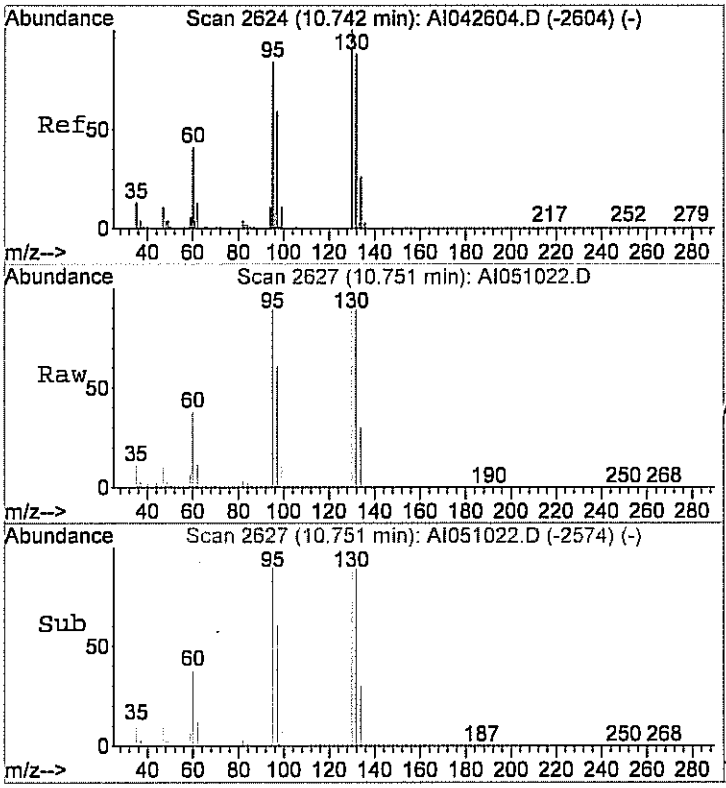


#14
Acetone
Concen: 0.72 ppb
RT: 4.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: AI051022.D
Acq: 11 May 2011 2:25 am

Tgt Ion: 58 Resp: 3608

Ion	Ratio	Lower	Upper
58	100		
43	288.2	333.6	393.6#

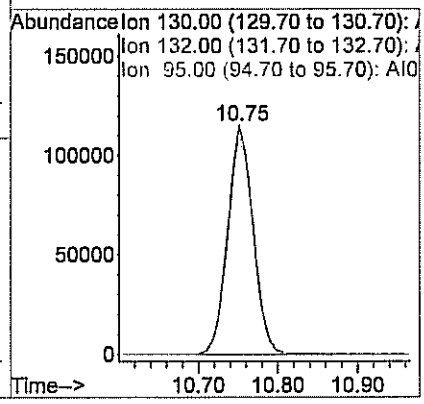




#41
Trichloroethene
Concen: 8.70 ppb
RT: 10.75 min Scan# 2627
Delta R.T. 0.01 min
Lab File: AI051022.D
Acq: 11 May 2011 2:25 am

Tgt Ion:130 Resp: 257436

Ion	Ratio	Lower	Upper
130	100		
132	96.5	75.8	115.8
95	96.0	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051229.D Vial: 26
Acq On : 13 May 2011 6:51 am Operator: RJP
Sample : C1105011-006A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 07:12:19 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	13842	1.00	ppb	-0.05
32) 1,4-difluorobenzene	10.00	114	31898	1.00	ppb	-0.04
47) Chlorobenzene-d5	14.91	117	27154	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	12577	0.84	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.70	130	15842	0.73	ppb	96

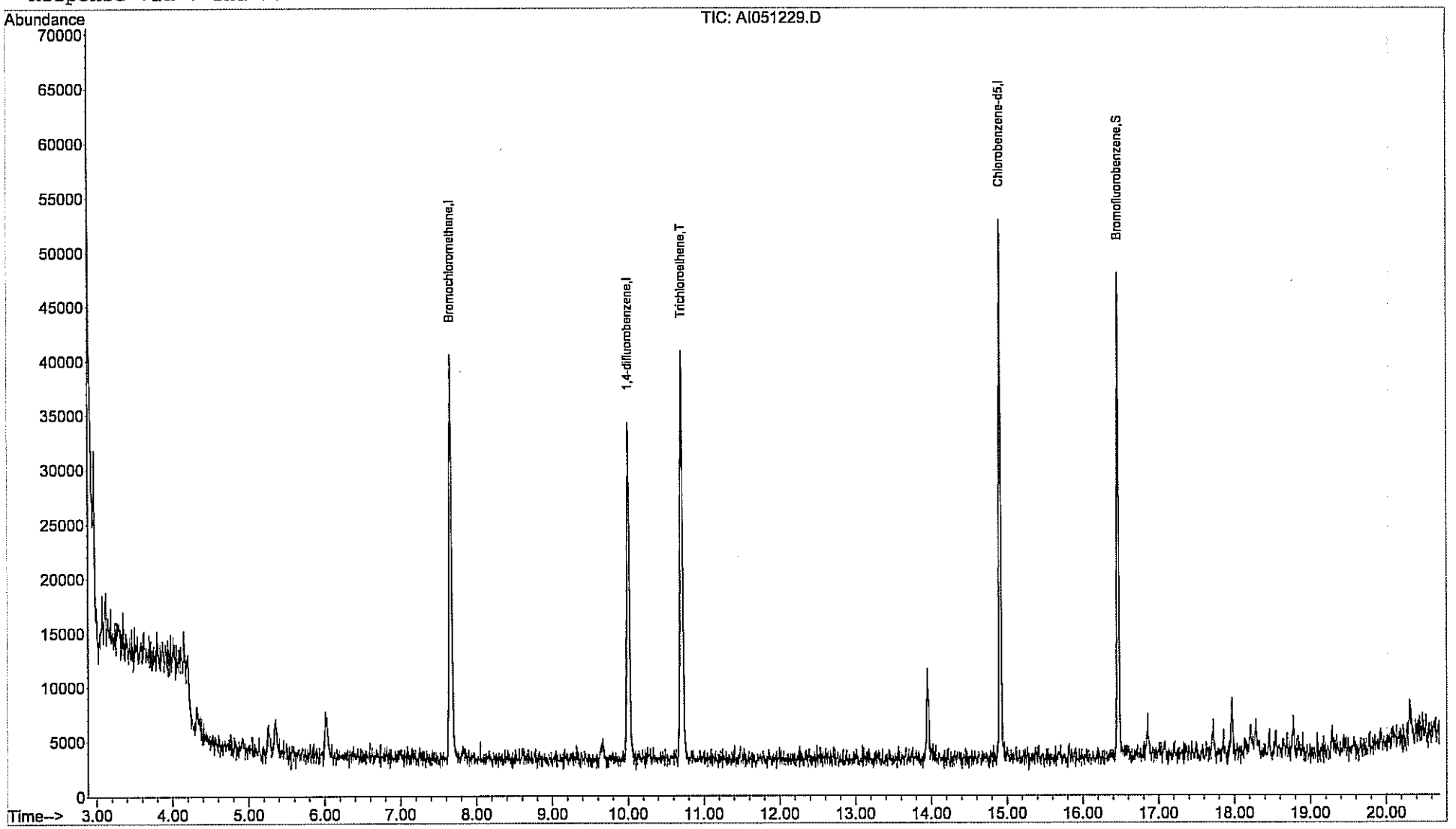
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

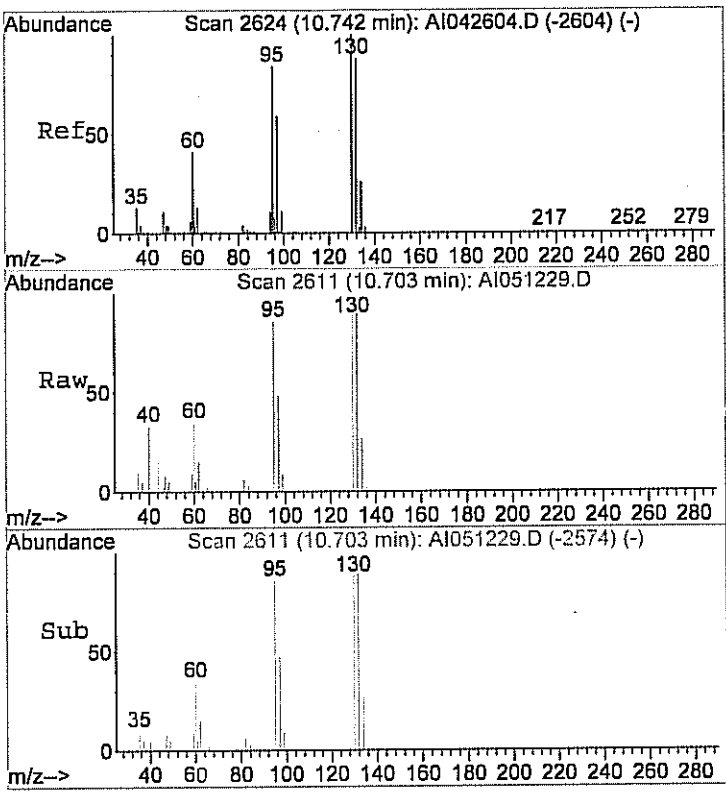
Data File : C:\HPCHEM\1\DATA\AI051229.D
Acq On : 13 May 2011 6:51 am
Sample : C1105011-006A 90X
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 17 14:04 2011

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



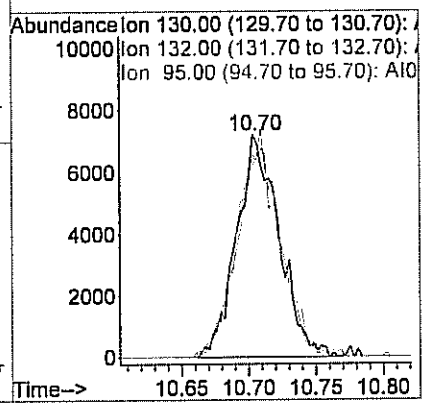
Centek laboratories, LLC



#41
Trichloroethene
Concen: 0.73 ppb
RT: 10.70 min Scan# 2611
Delta R.T. -0.04 min
Lab File: AI051229.D
Acq: 13 May 2011 6:51 am

Tgt Ion:130 Resp: 15842

Ion	Ratio	Lower	Upper
130	100		
132	100.6	75.8	115.8
95	99.7	76.8	116.8



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	2.1	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	0.55	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:37:00 PM
Acetone	8.3	3.0		ppbV	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzene	0.63	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.060	0.040		ppbV	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroform	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Cyclohexane	1.5	0.15		ppbV	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.25	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 11	0.81	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 113	0.21	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 12	4.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
m&p-Xylene	0.86	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	0.93	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
o-Xylene	0.37	0.15		ppbV	1	5/10/2011 9:37:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	5/11/2011 3:00:00 AM
Toluene	1.2	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Trichloroethene	150	11		ppbV	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:37:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	18	8.3		ug/m3	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	11	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:37:00 PM
4-ethyltoluene	5.2	0.75		ug/m3	1	5/10/2011 9:37:00 PM
Acetone	20	7.2		ug/m3	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:37:00 PM
Benzene	2.0	0.49		ug/m3	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.38	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:37:00 PM
Chloroform	16	7.4		ug/m3	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Cyclohexane	5.4	0.52		ug/m3	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Freon 11	4.6	0.86		ug/m3	1	5/10/2011 9:37:00 PM
Freon 113	1.6	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	21	7.5		ug/m3	10	5/11/2011 3:00:00 AM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:37:00 PM
m&p-Xylene	3.8	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:37:00 PM
o-Xylene	1.6	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	5/11/2011 3:00:00 AM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Trichloroethene	830	60		ug/m3	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051014.D Vial: 27
Acq On : 10 May 2011 9:37 pm Operator: RJP
Sample : C1105011-007A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 21:58:04 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

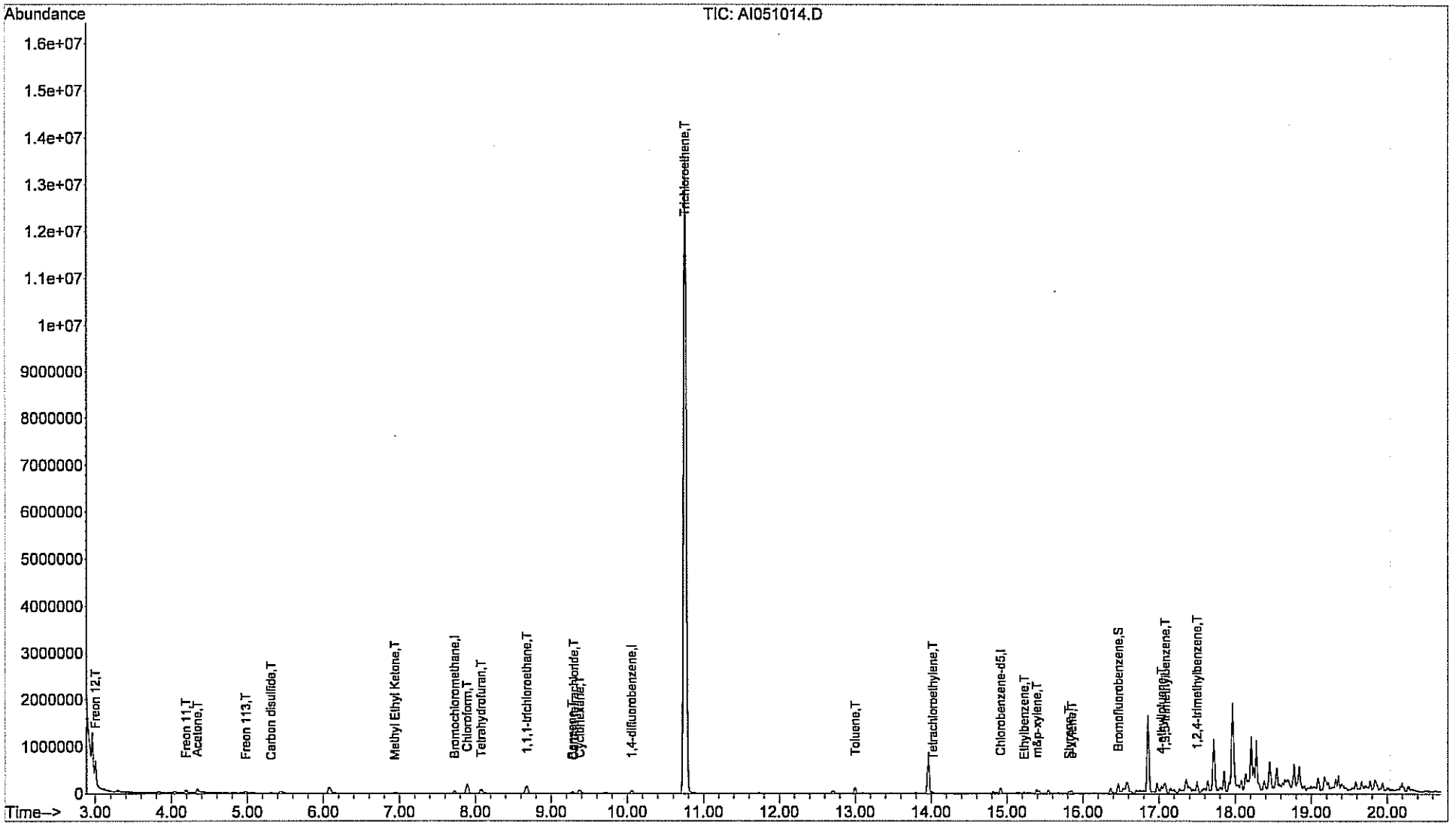
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	18757	1.00	ppb		0.02
32) 1,4-difluorobenzene	10.06	114	62698	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	64320	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	38663	1.09	ppb		0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	258853	3.38	ppb		99
13) Freon 11	4.19	101	43996	0.81	ppb		98
14) Acetone	4.34	58	32307	5.33	ppb		92
17) Freon 113	4.98	101	11289	0.21	ppb		99
20) Carbon disulfide	5.32	76	21676	0.30	ppb		97
25) Methyl Ethyl Ketone	6.94	72	6371	0.93	ppb	#	100
29) Chloroform	7.89	83	169846	2.95	ppb		98
30) Tetrahydrofuran	8.08	42	56496	4.26	ppb		97
33) 1,1,1-trichloroethane	8.68	97	117702	2.55	ppb		97
34) Cyclohexane	9.38	56	36106	1.54	ppb	#	62
35) Carbon tetrachloride	9.31	117	4484	0.06	ppb		97
36) Benzene	9.28	78	38556	0.63	ppb		98
41) Trichloroethene	10.76	130	6134212	144.16	ppb		99
48) Toluene	13.00	92	51275	1.15	ppb		100
53) Tetrachloroethylene	14.03	164	7048	0.12	ppb		91
55) Ethylbenzene	15.23	91	21269	0.25	ppb		97
56) m&p-xylene	15.39	91	63958	0.86	ppb		99
57) Styrene	15.82	104	7374	0.18	ppb		77
59) o-xylene	15.85	91	31086	0.37	ppb		99
63) 4-ethyltoluene	17.03	105	72113m	1.04	ppb		
64) 1,3,5-trimethylbenzene	17.09	105	39523	0.55	ppb		96
65) 1,2,4-trimethylbenzene	17.50	105	101251	2.13	ppb		94

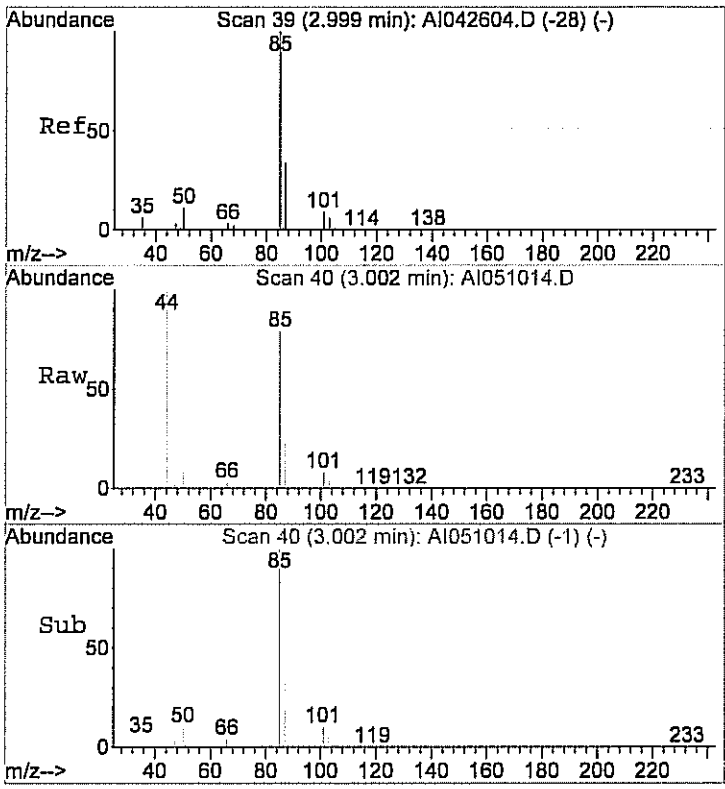
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051014.D Vial: 27
Acq On : 10 May 2011 9:37 pm Operator: RJP
Sample : C1105011-007A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:36 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration

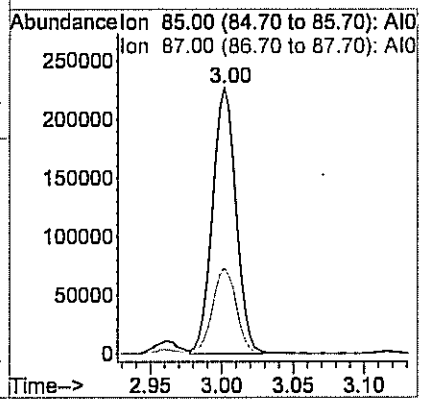


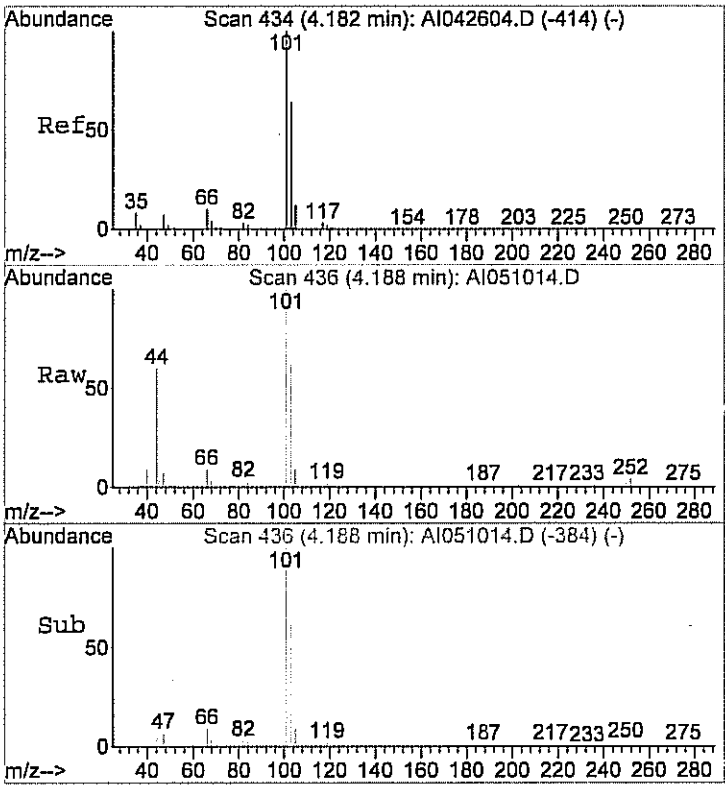


#3
Freon 12
Concen: 3.38 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 85 Resp: 258853

Ion	Ratio	Lower	Upper
85	100		
87	32.5	13.2	53.2

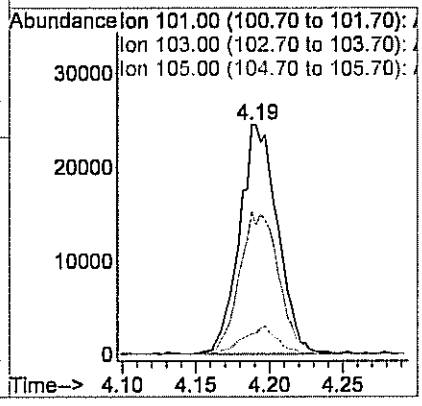


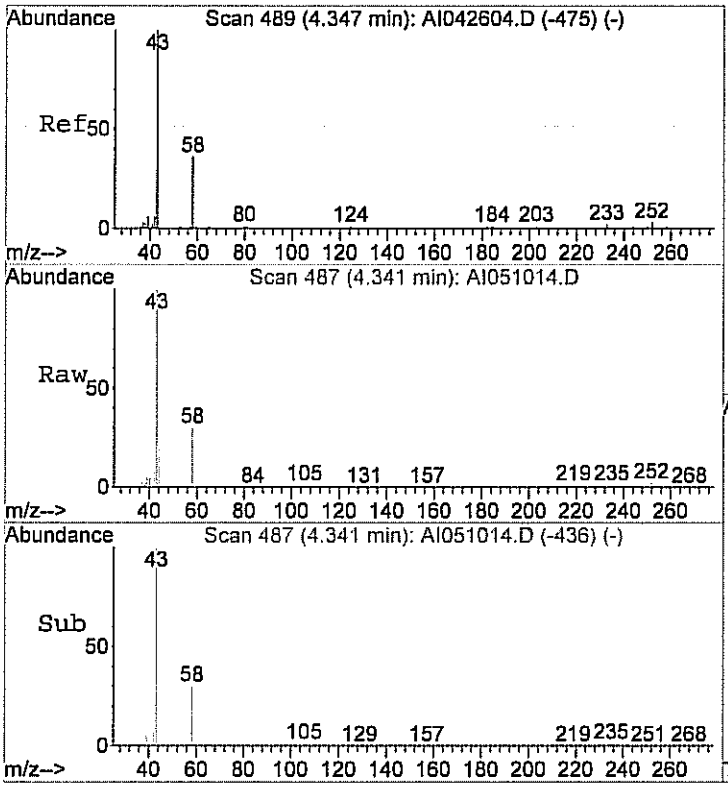


#13
Freon 11
Concen: 0.81 ppb
RT: 4.19 min Scan# 436
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:101 Resp: 43996

Ion	Ratio	Lower	Upper
101	100		
103	63.7	45.1	85.1
105	11.1	0.0	31.5

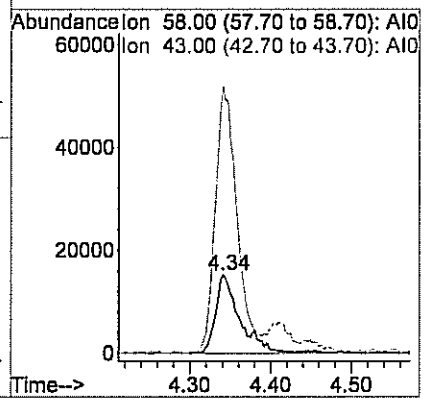


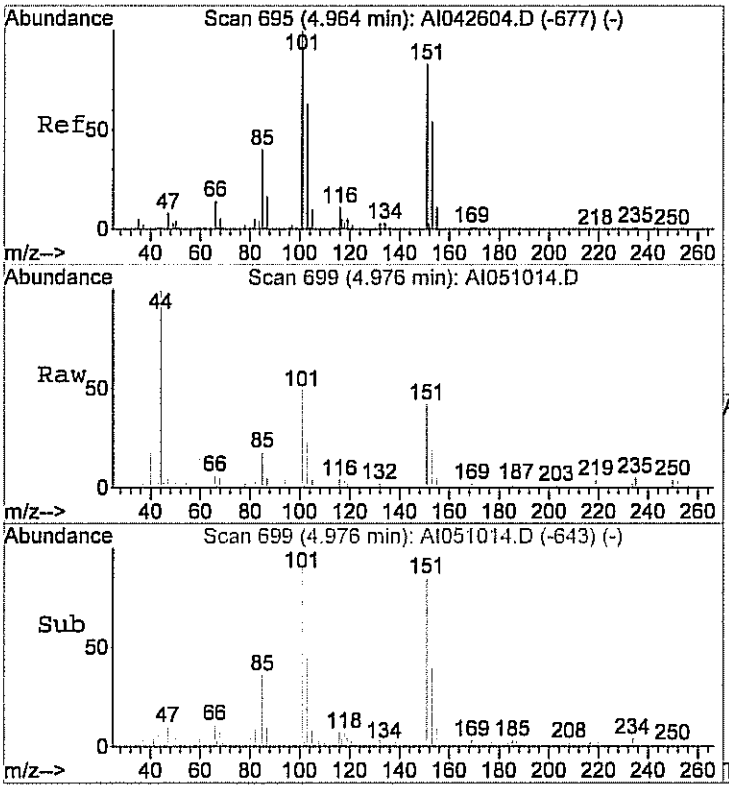


#14
Acetone
Concen: 5.33 ppb
RT: 4.34 min Scan# 487
Delta R.T. 0.00 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 58 Resp: 32307

Ion	Ratio	Lower	Upper
58	100		
43	346.4	333.6	393.6

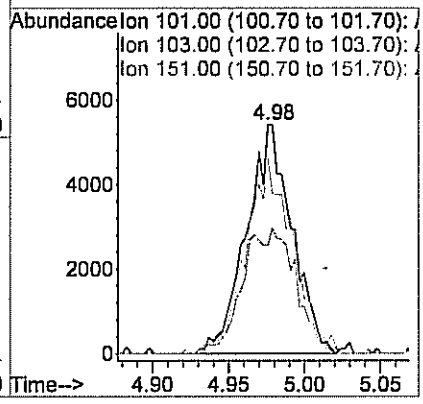


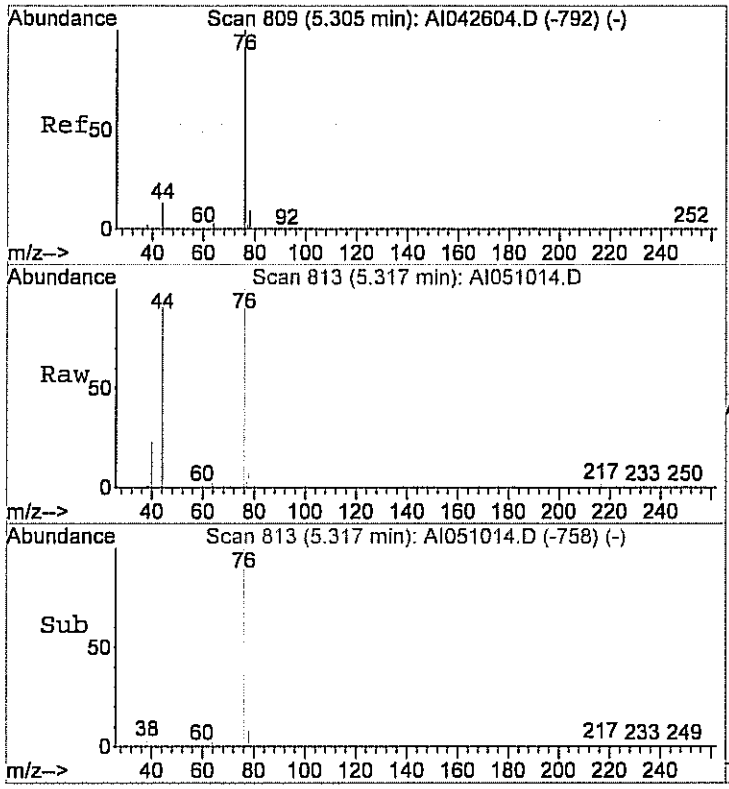


#17
Freon 113
Concen: 0.21 ppb
RT: 4.98 min Scan# 699
Delta R.T. 0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:101 Resp: 11289

Ion	Ratio	Lower	Upper
101	100		
103	64.2	43.9	83.9
151	88.2	66.7	106.7

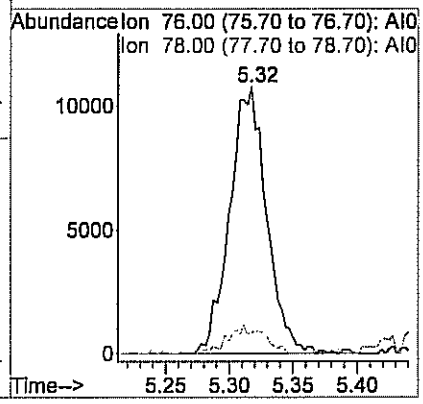


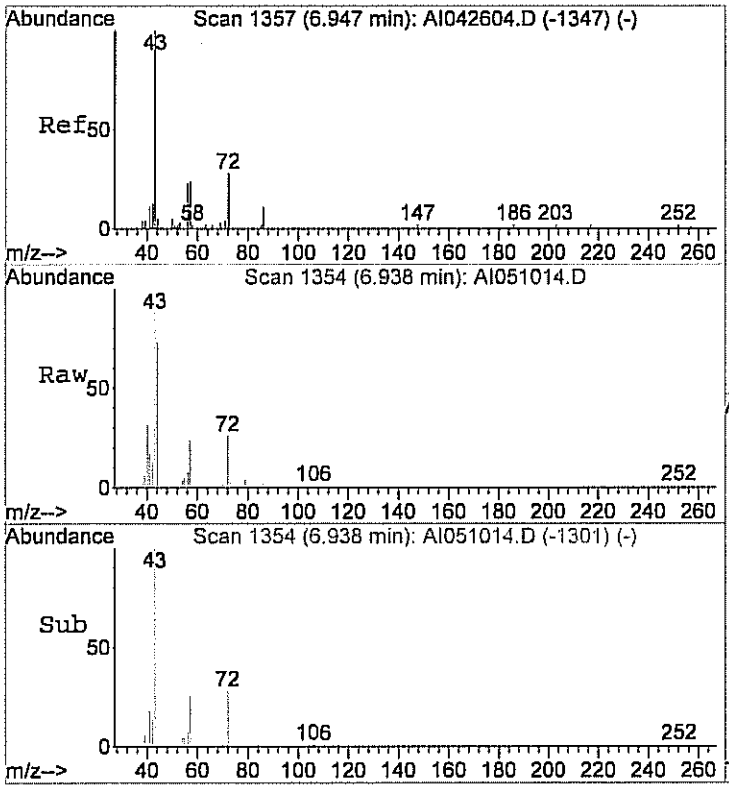


#20
Carbon disulfide
Concen: 0.30 ppb
RT: 5.32 min Scan# 813
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 76 Resp: 21676

Ion	Ratio	Lower	Upper
76	100		
78	10.2	0.0	29.3

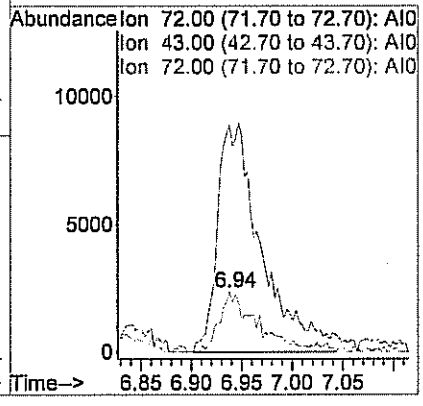


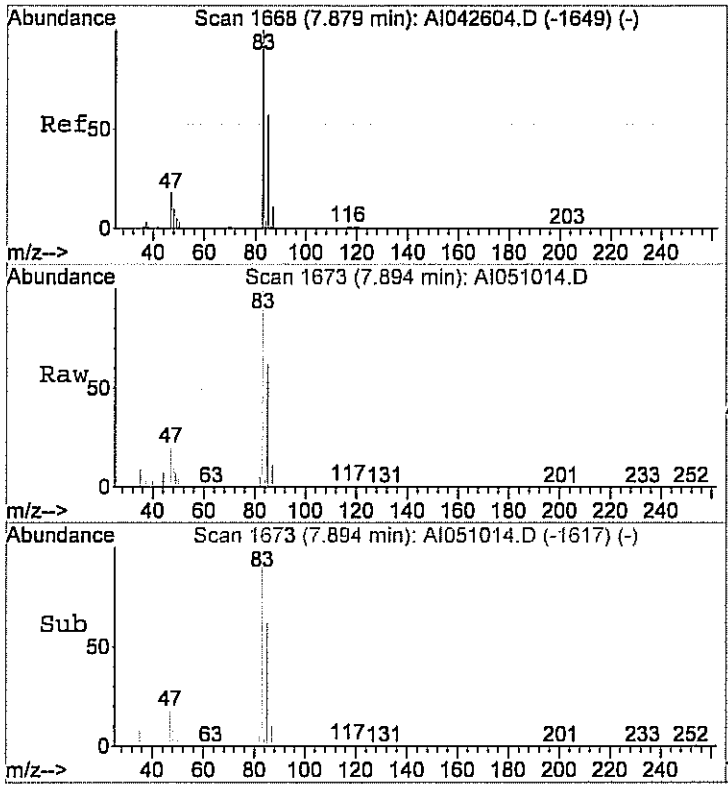


#25
Methyl Ethyl Ketone
Concen: 0.93 ppb
RT: 6.94 min Scan# 1354
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 72 Resp: 6371

Ion	Ratio	Lower	Upper
72	100		
43	432.3	0.0	20.0#
72	100.0	80.0	120.0

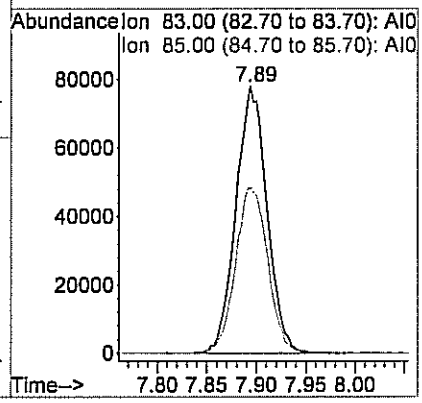


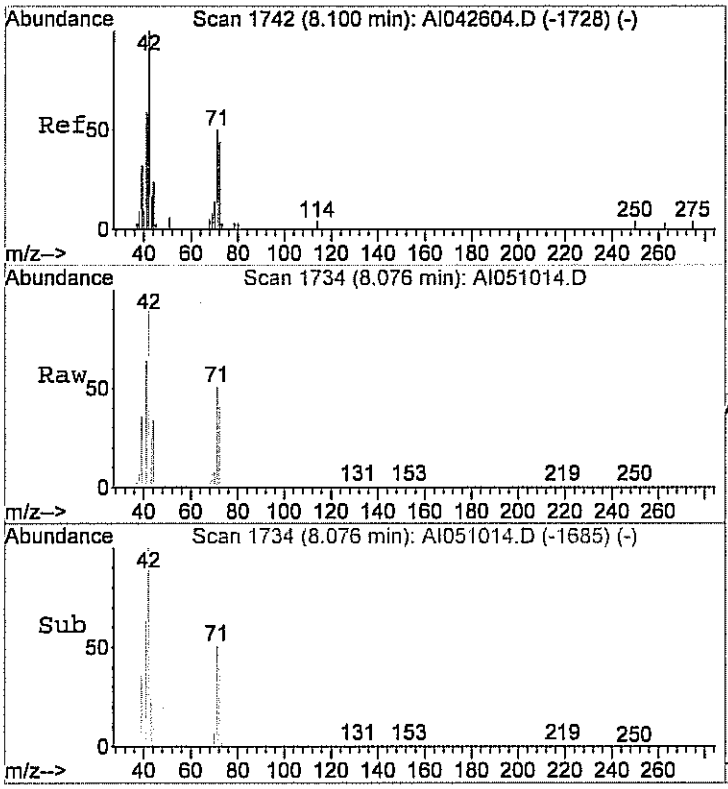


#29
Chloroform
Concen: 2.95 ppb
RT: 7.89 min Scan# 1673
Delta R.T. 0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 83 Resp: 169846

Ion	Ratio	Lower	Upper
83	100		
85	64.7	45.9	85.9

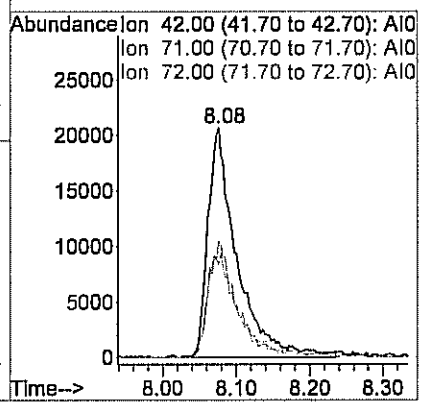


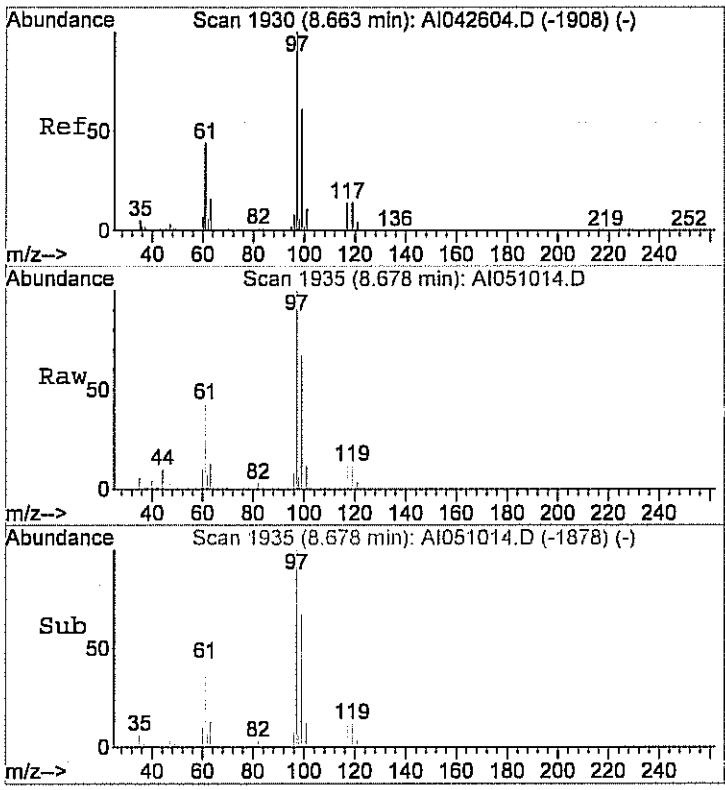


#30
Tetrahydrofuran
Concen: 4.26 ppb
RT: 8.08 min Scan# 1734
Delta R.T. -0.00 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 42 Resp: 56496

Ion	Ratio	Lower	Upper
42	100		
71	51.4	28.4	68.4
72	48.0	29.0	69.0

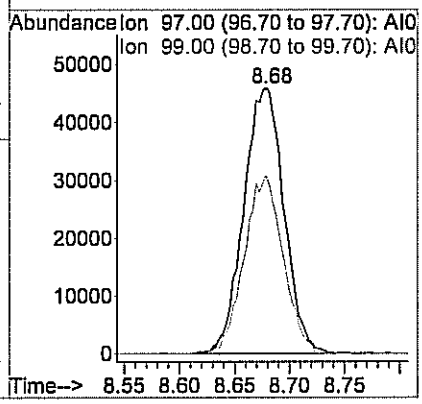


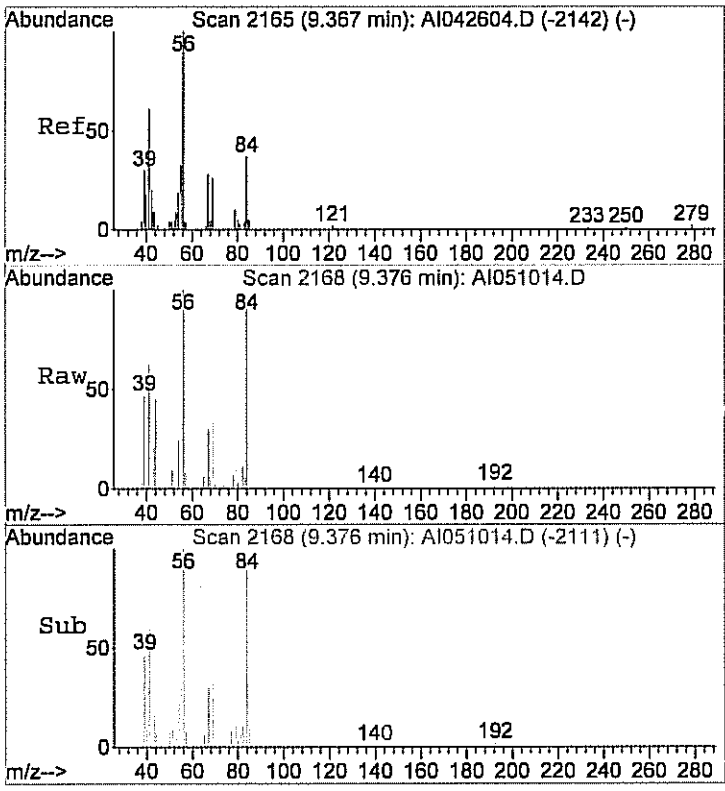


#33
1,1,1-trichloroethane
Concen: 2.55 ppb
RT: 8.68 min Scan# 1935
Delta R.T. 0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 97 Resp: 117702

Ion	Ratio	Lower	Upper
97	100		
99	64.8	47.3	87.3

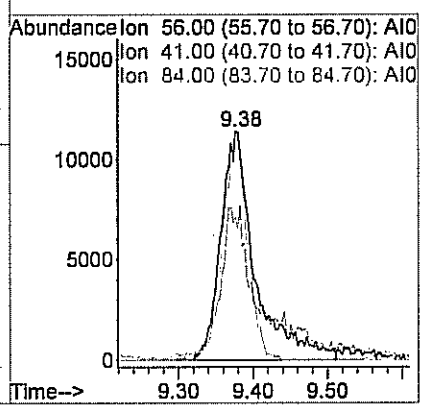


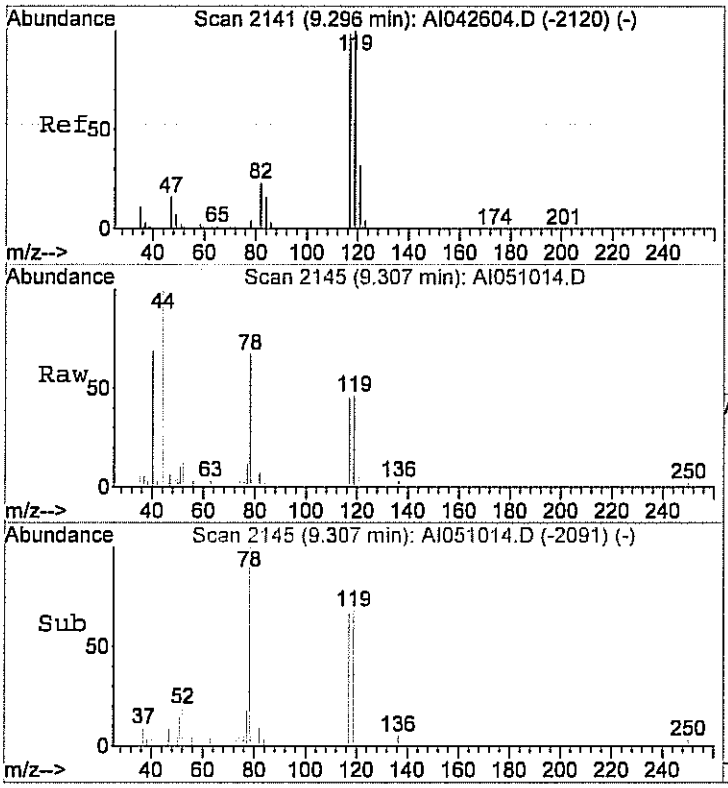


#34
Cyclohexane
Concen: 1.54 ppb
RT: 9.38 min Scan# 2168
Delta R.T. 0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 56 Resp: 36106

Ion	Ratio	Lower	Upper
56	100		
41	76.8	46.1	86.1
84	72.5	110.9	150.9#

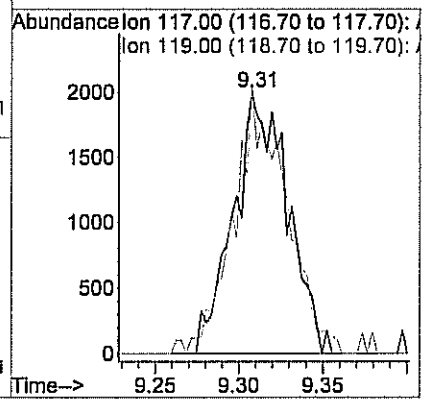


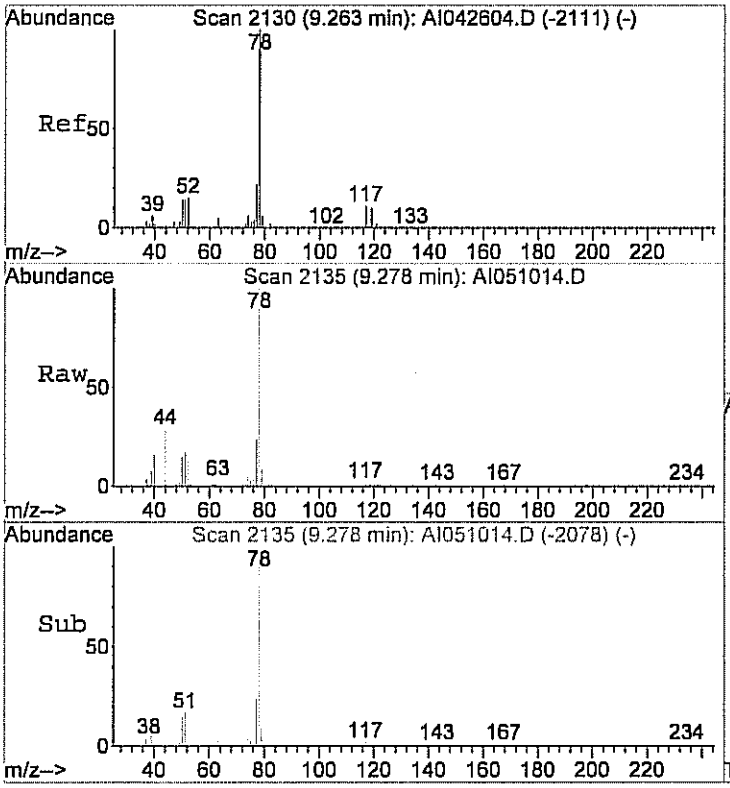


#35
Carbon tetrachloride
Concen: 0.06 ppb
RT: 9.31 min Scan# 2145
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:117 Resp: 4484

Ion	Ratio	Lower	Upper
117	100		
119	98.6	75.8	115.8

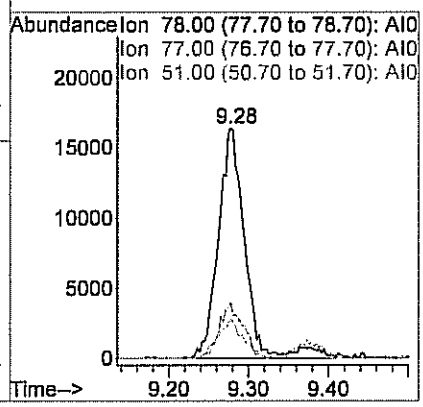


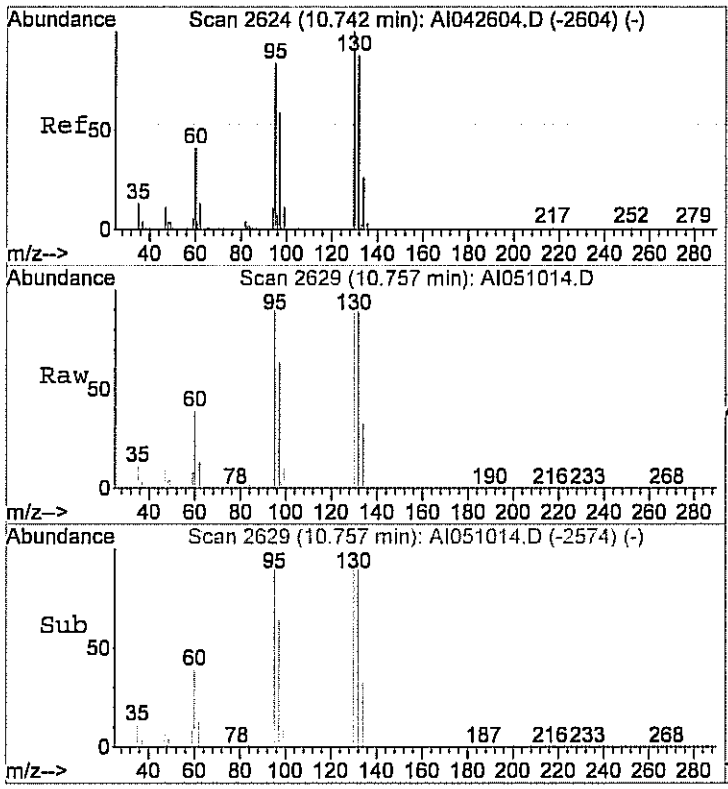


#36
Benzene
Concen: 0.63 ppb
RT: 9.28 min Scan# 2135
Delta R.T. 0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 78 Resp: 38556

Ion	Ratio	Lower	Upper
78	100		
77	21.9	3.4	43.4
51	15.3	0.0	35.0

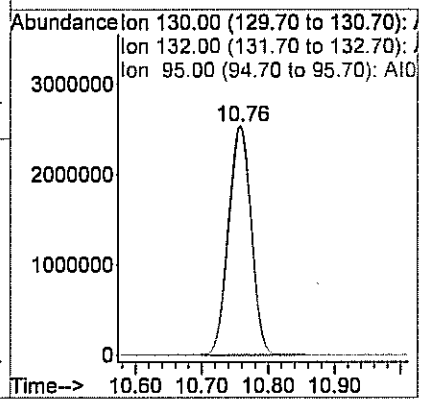


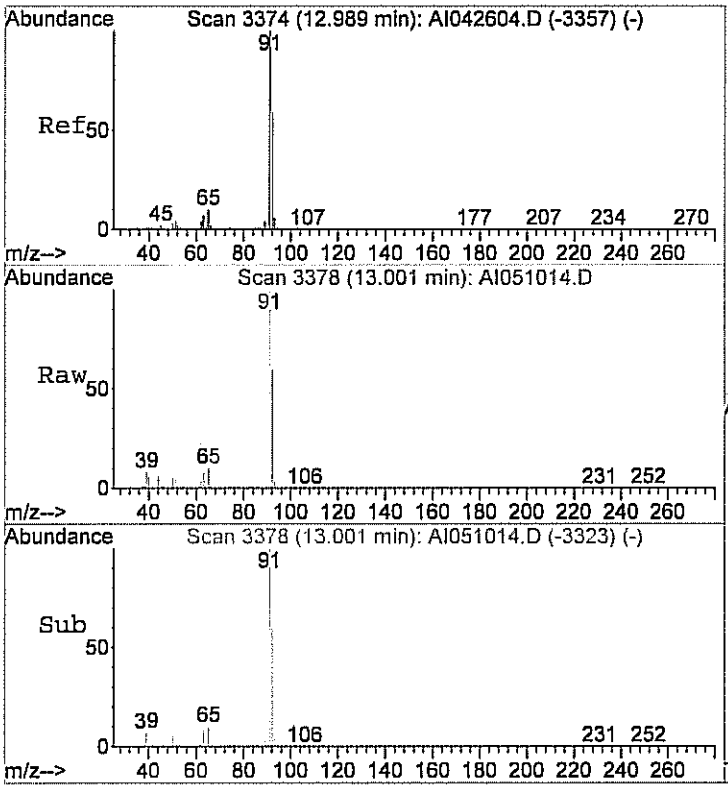


#41
Trichloroethene
Concen: 144.16 ppb
RT: 10.76 min Scan# 2629
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:130 Resp: 6134212

Ion	Ratio	Lower	Upper
130	100		
132	97.1	75.8	115.8
95	96.1	76.8	116.8

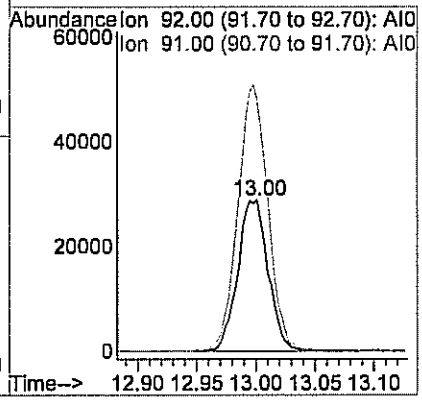


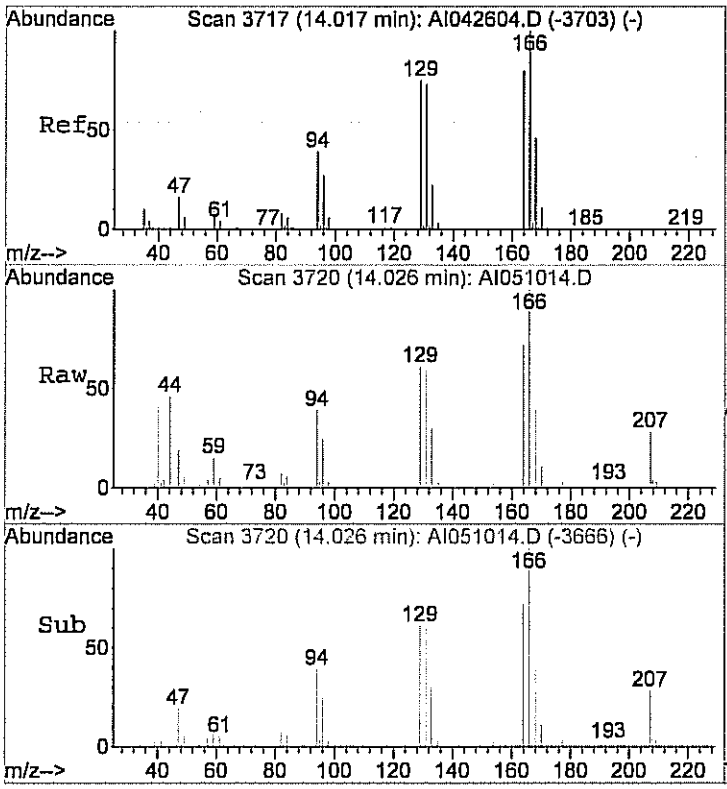


#48
Toluene
Concen: 1.15 ppb
RT: 13.00 min Scan# 3378
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 92 Resp: 51275

Ion	Ratio	Lower	Upper
92	100		
91	173.3	152.8	192.8

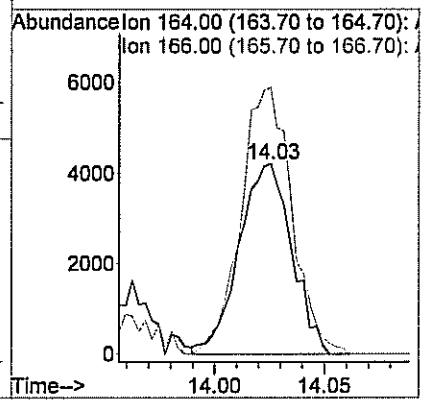


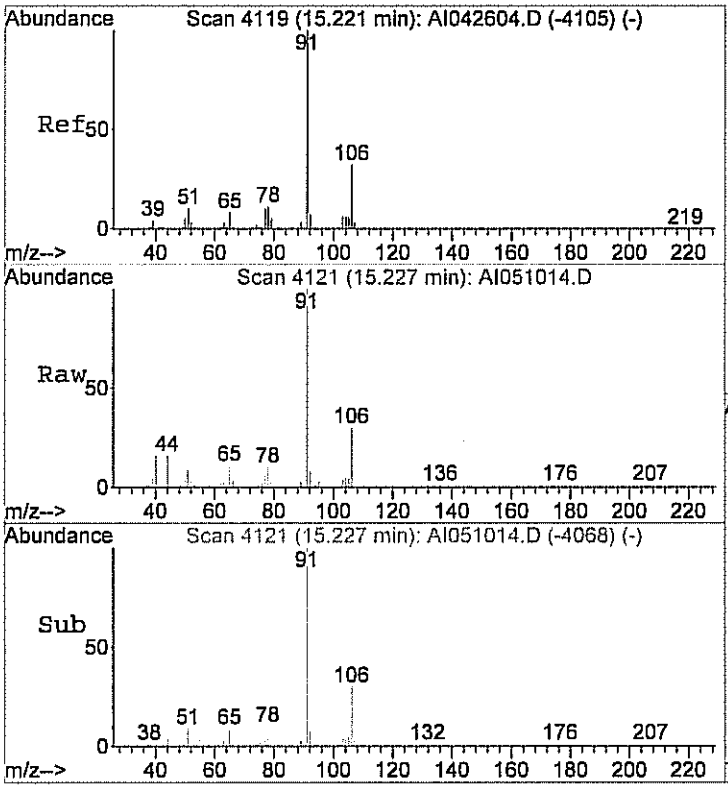


#53
Tetrachloroethylene
Concen: 0.12 ppb
RT: 14.03 min Scan# 3720
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:164 Resp: 7048

Ion	Ratio	Lower	Upper
164	100		
166	135.8	105.5	145.5

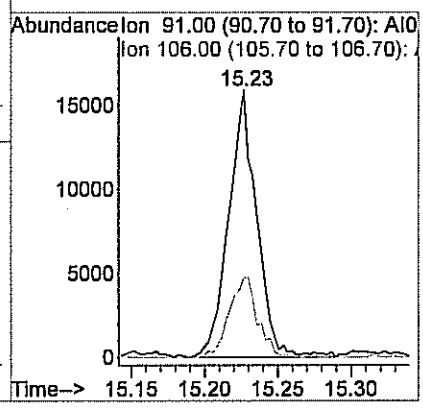


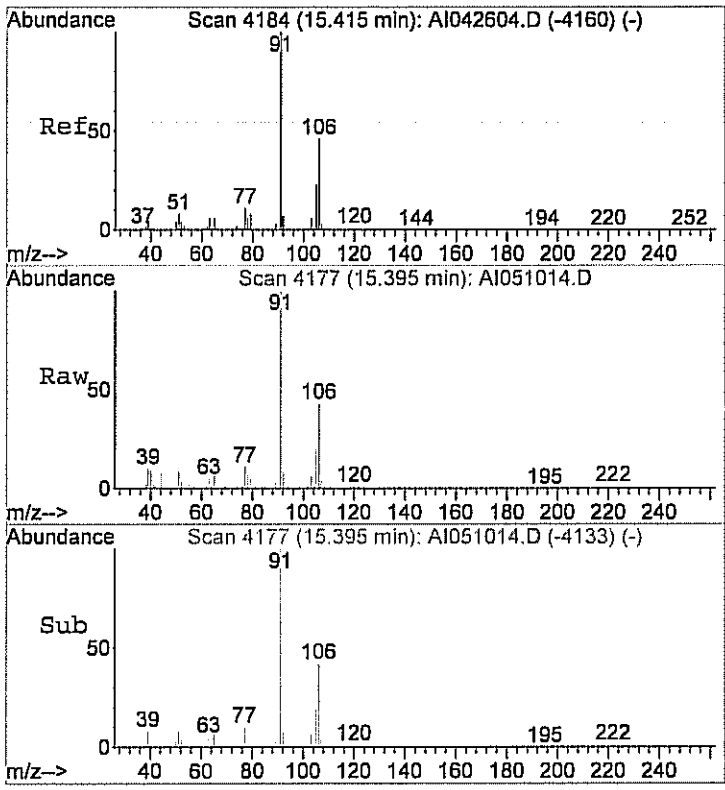


#55
Ethylbenzene
Concen: 0.25 ppb
RT: 15.23 min Scan# 4121
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 91 Resp: 21269

Ion	Ratio	Lower	Upper
91	100		
106	30.3	11.8	51.8

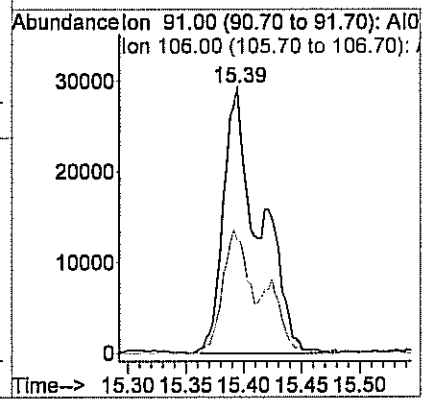


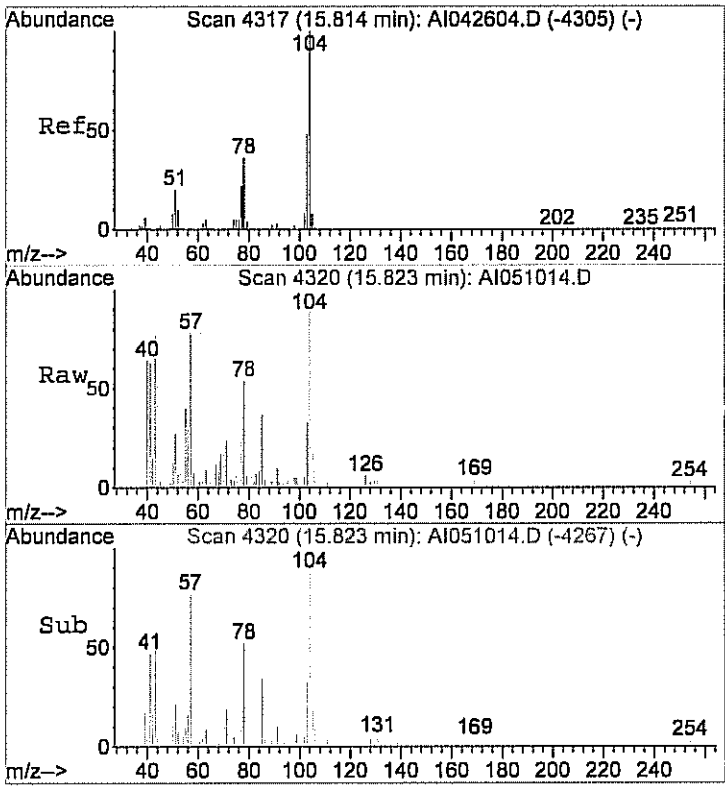


#56
m&p-xylene
Concen: 0.86 ppb
RT: 15.39 min Scan# 4177
Delta R.T. -0.02 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 91 Resp: 63958

Ion	Ratio	Lower	Upper
91	100		
106	47.8	28.7	68.7

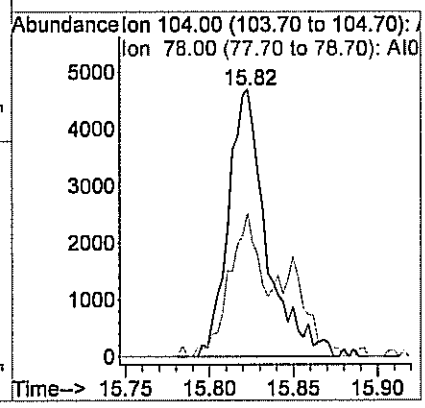


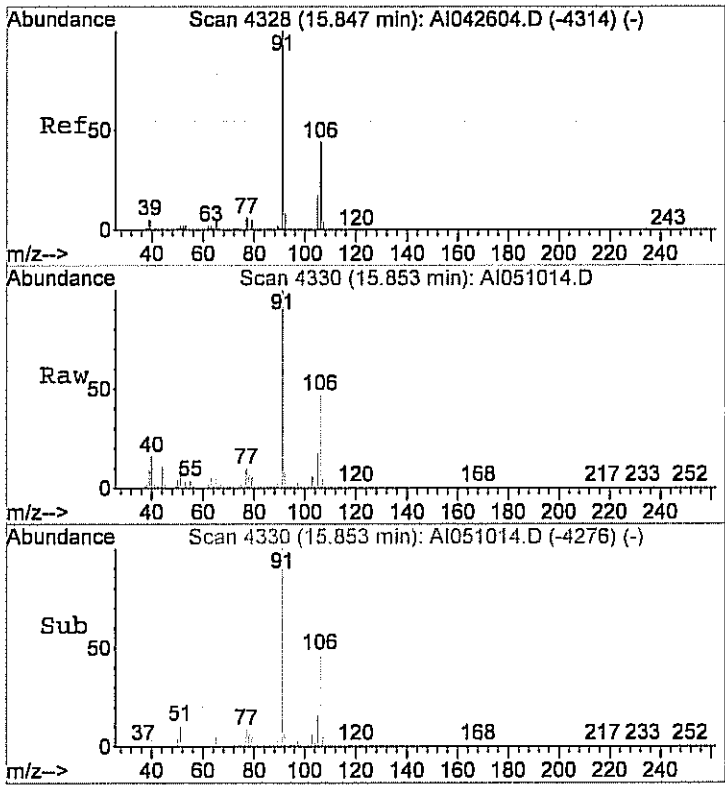


#57
Styrene
Concen: 0.18 ppb
RT: 15.82 min Scan# 4320
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:104 Resp: 7374

Ion	Ratio	Lower	Upper
104	100		
78	71.3	35.0	75.0

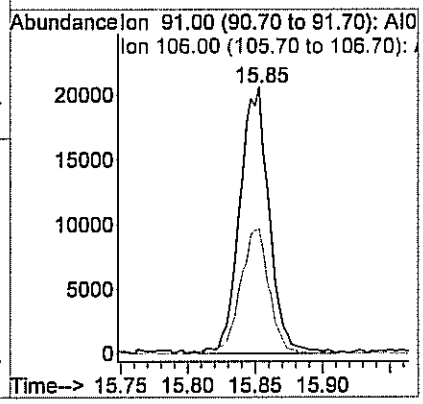


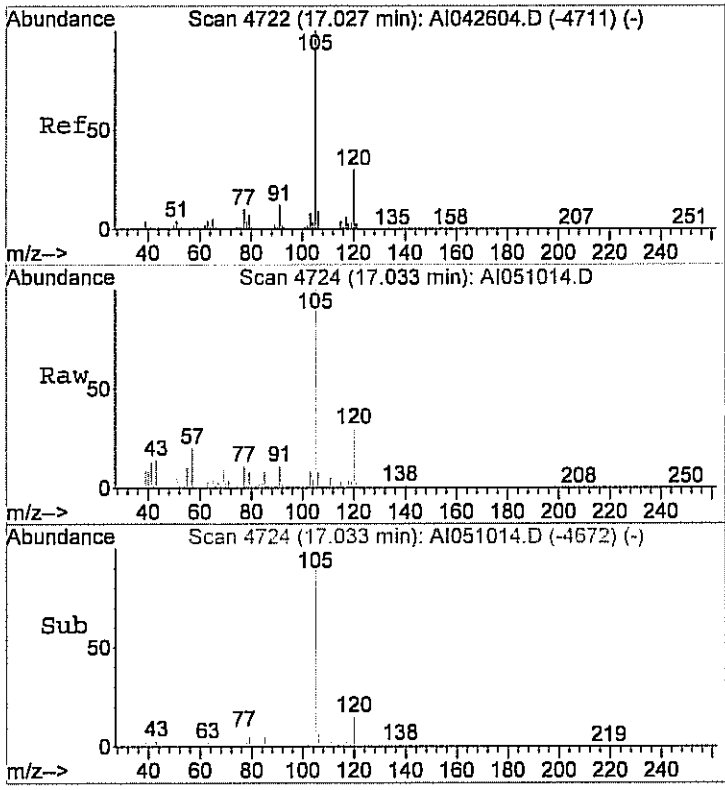


#59
o-xylene
Concen: 0.37 ppb
RT: 15.85 min Scan# 4330
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion: 91 Resp: 31086

Ion	Ratio	Lower	Upper
91	100		
106	45.1	25.6	65.6

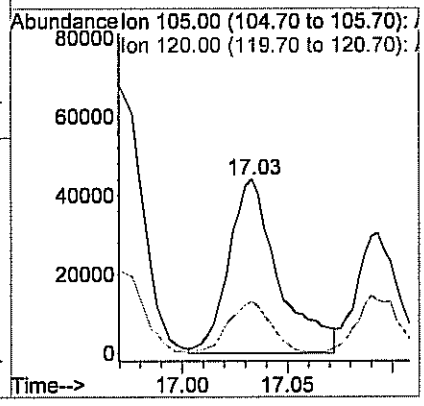


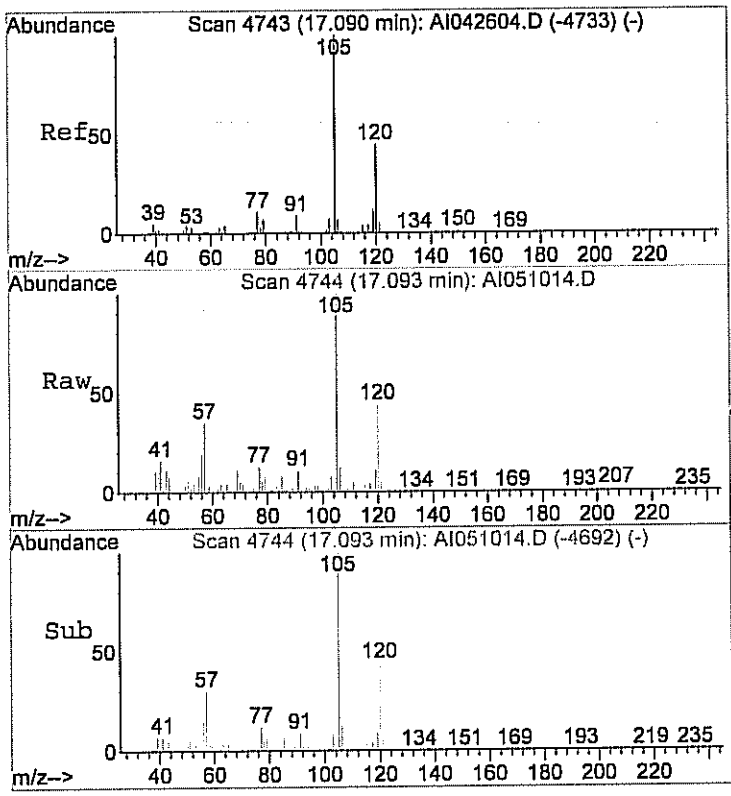


#63
4-ethyltoluene
Concen: 1.04 ppb m
RT: 17.03 min Scan# 4724
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:105 Resp: 72113

Ion	Ratio	Lower	Upper
105	100		
120	27.6	26.5	66.5

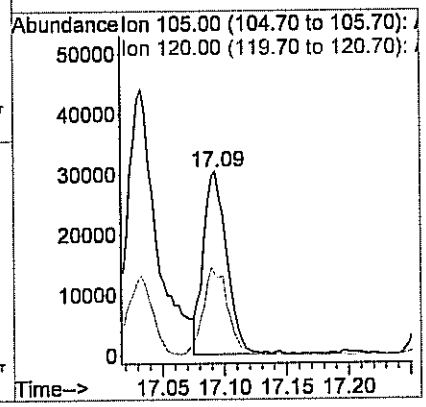


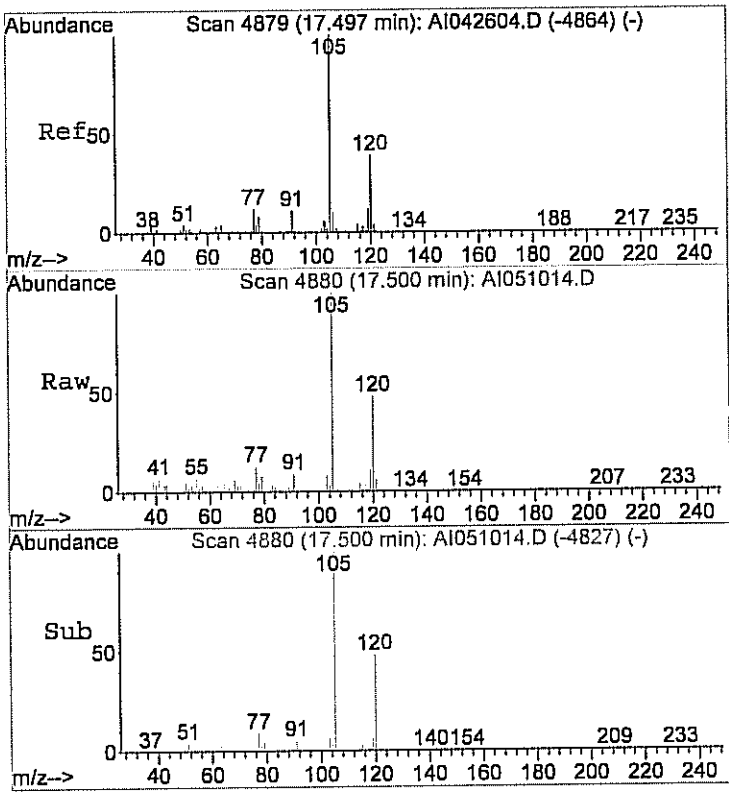


#64
1,3,5-trimethylbenzene
Concen: 0.55 ppb
RT: 17.09 min Scan# 4744
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:105 Resp: 39523

Ion	Ratio	Lower	Upper
105	100		
120	50.4	27.4	67.4

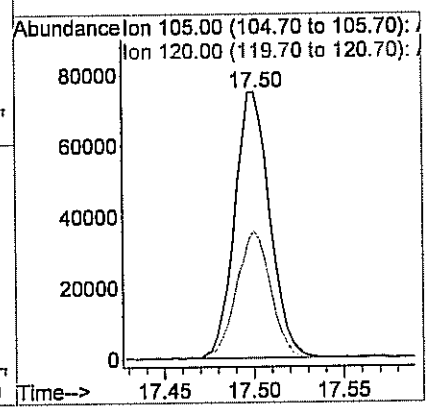




#65
1,2,4-trimethylbenzene
Concen: 2.13 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051014.D
Acq: 10 May 2011 9:37 pm

Tgt Ion:105 Resp: 101251

Ion	Ratio	Lower	Upper
105	100		
120	47.8	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051023.D Vial: 27
Acq On : 11 May 2011 3:00 am Operator: RJP
Sample : C1105011-007A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 03:21:16 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

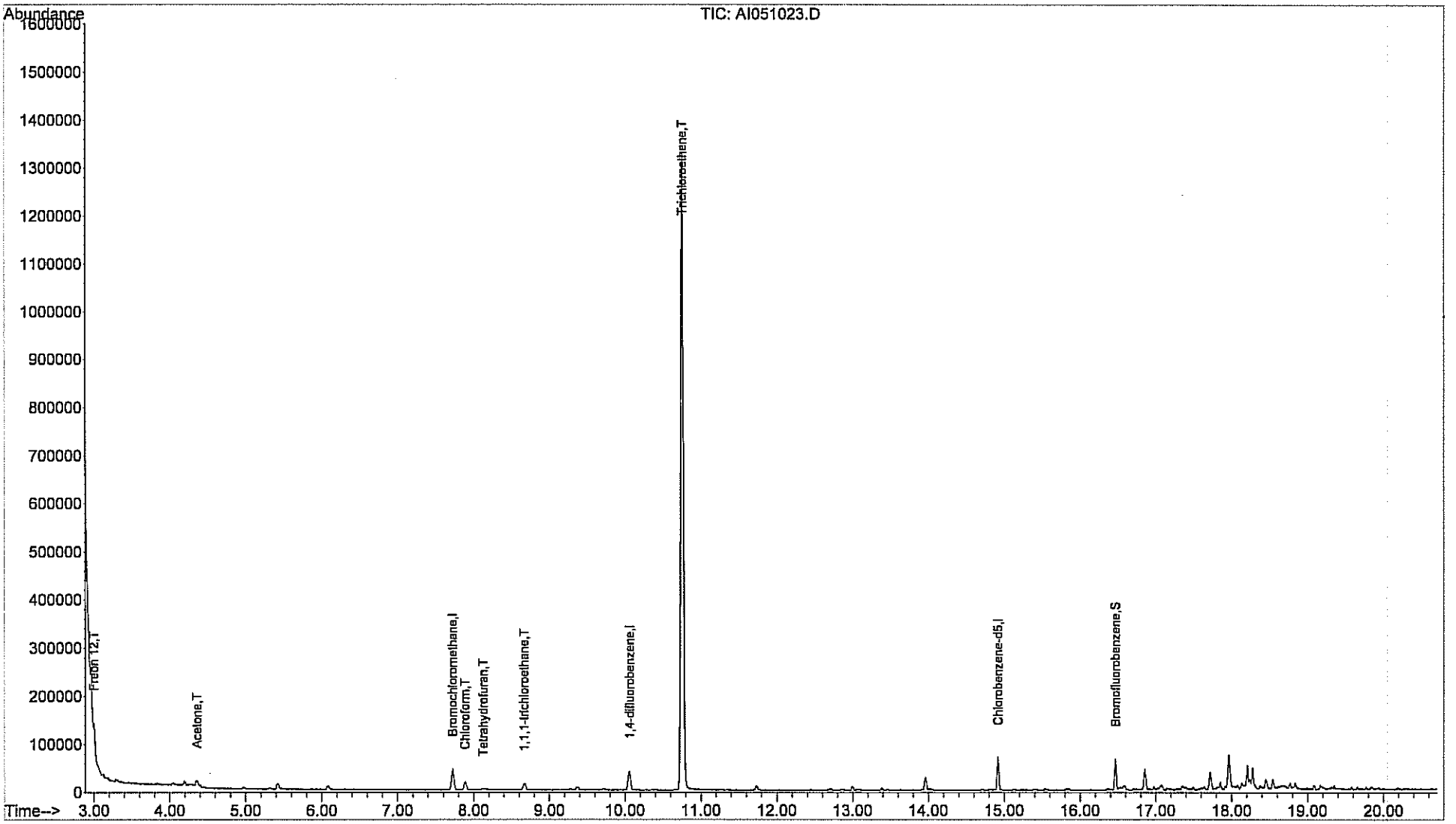
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	15263	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.06	114	41451	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	38104	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	17773	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
3) Freon 12	3.00	85	26162	0.42	ppb	99
14) Acetone	4.36	58	4079	0.83	ppb	98
29) Chloroform	7.89	83	15144	0.32	ppb	98
30) Tetrahydrofuran	8.12	42	3859m	0.36	ppb	
33) 1,1,1-trichloroethane	8.67	97	9763	0.32	ppb	99
41) Trichloroethene	10.75	130	560561	19.93	ppb	99

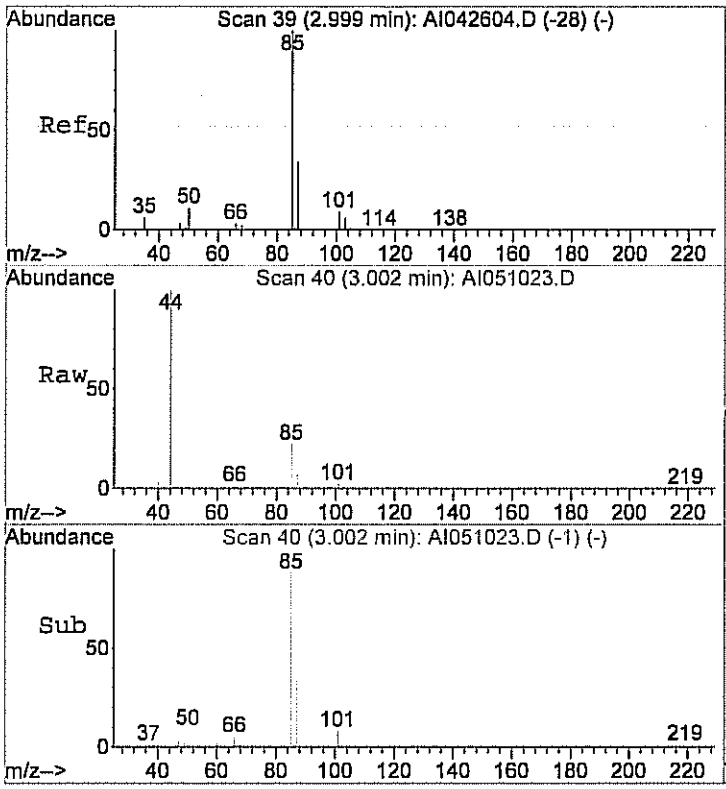
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051023.D A325_1UG.M Sat Jun 04 14:14:49 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051023.D Vial: 27
Acq On : 11 May 2011 3:00 am Operator: RJP
Sample : C1105011-007A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:06 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration

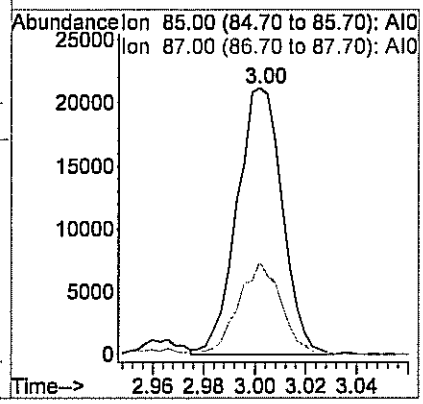


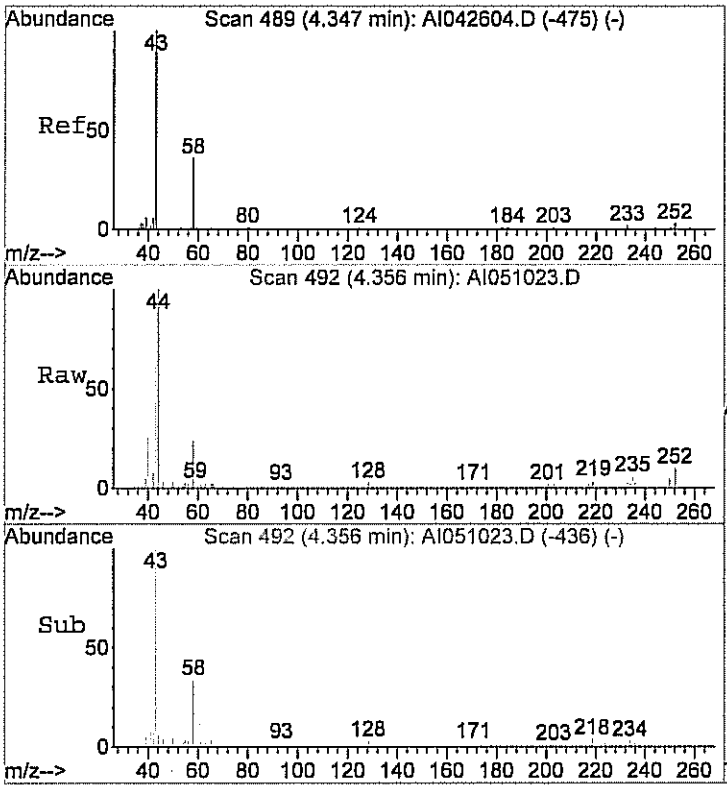


#3
Freon 12
Concen: 0.42 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion: 85 Resp: 26162

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.2	53.2

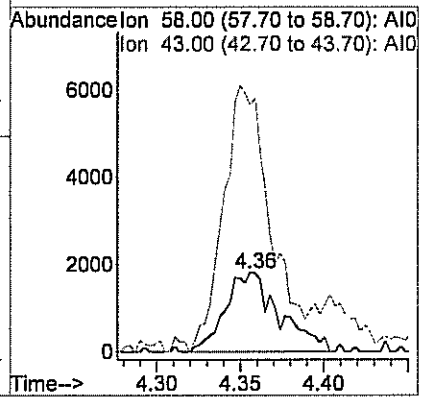


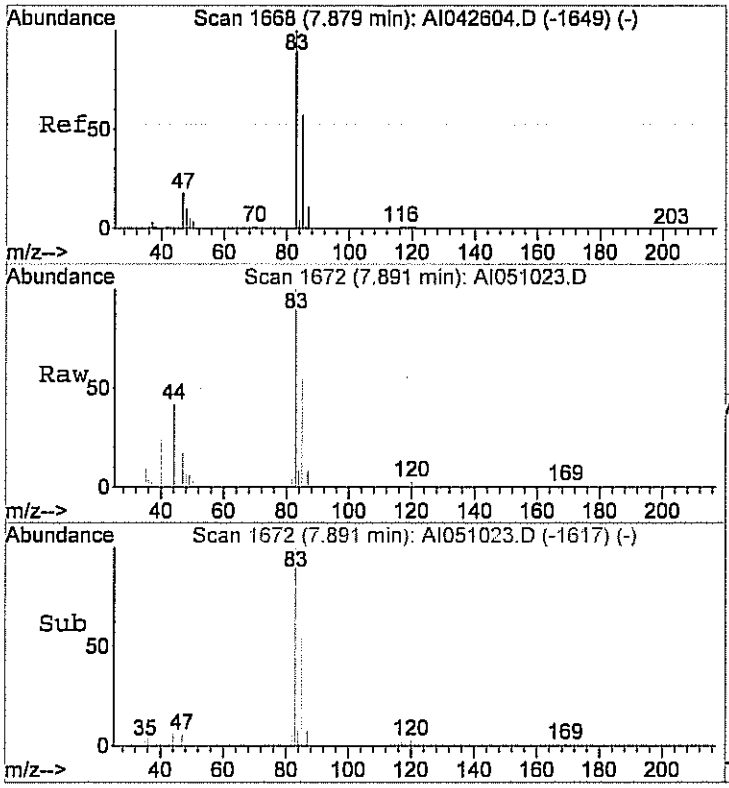


#14
Acetone
Concen: 0.83 ppb
RT: 4.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion: 58 Resp: 4079

Ion	Ratio	Lower	Upper
58	100		
43	360.2	333.6	393.6

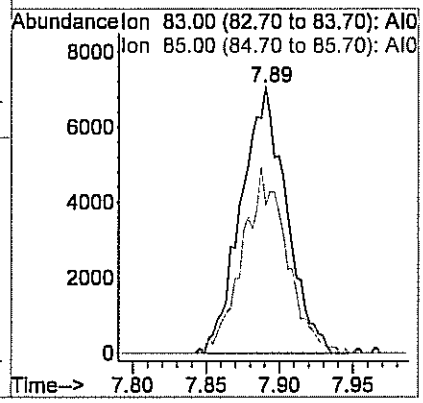


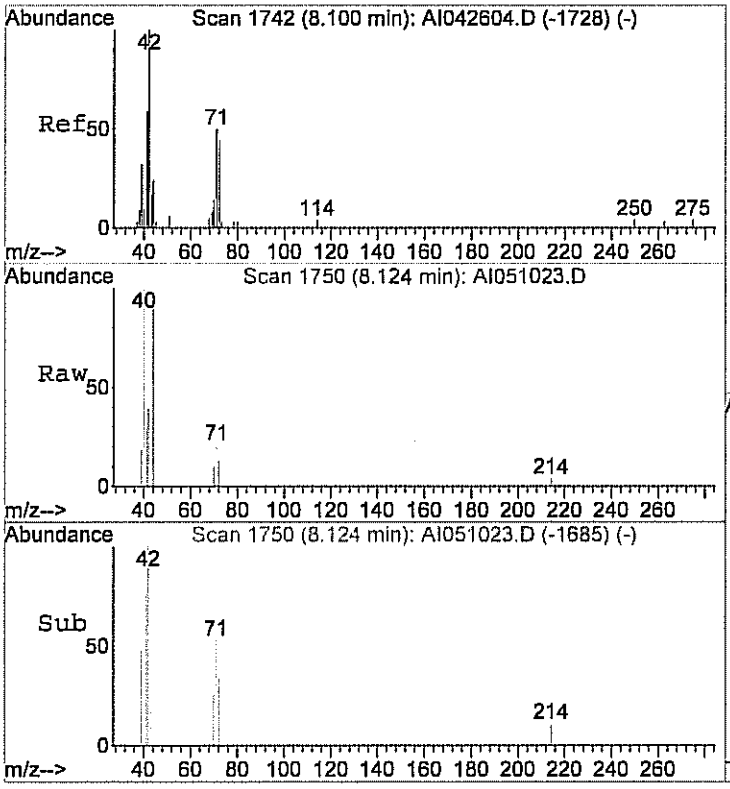


#29
Chloroform
Concen: 0.32 ppb
RT: 7.89 min Scan# 1672
Delta R.T. 0.01 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion: 83 Resp: 15144

Ion	Ratio	Lower	Upper
83	100		
85	67.6	45.9	85.9

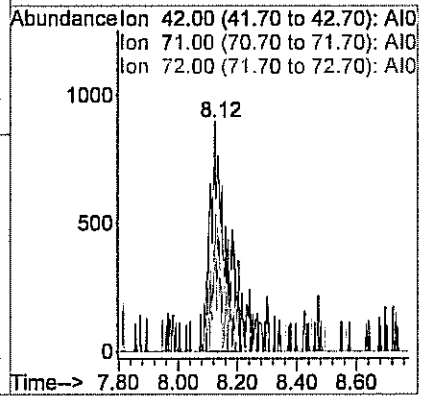


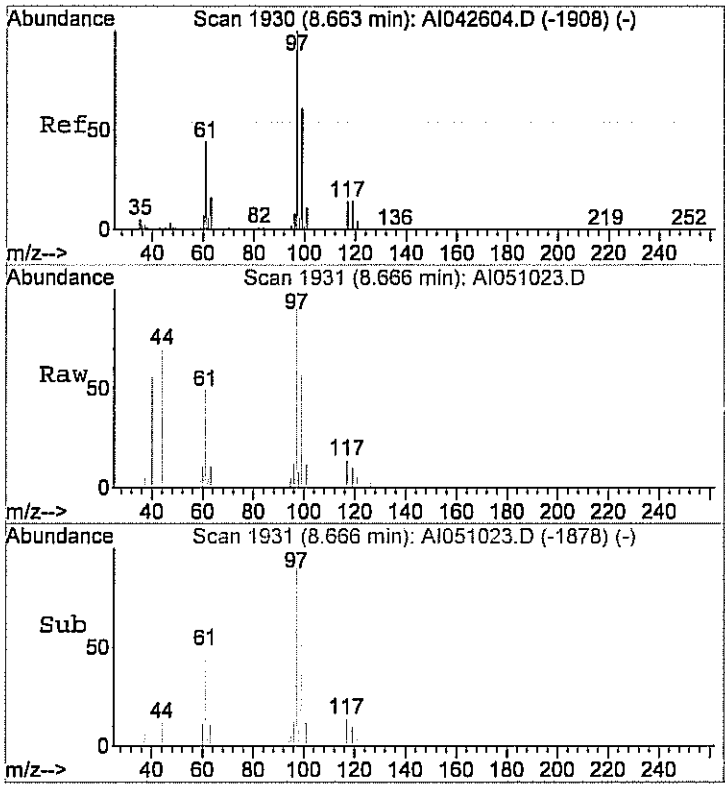


#30
Tetrahydrofuran
Concen: 0.36 ppb m
RT: 8.12 min Scan# 1750
Delta R.T. 0.04 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion: 42 Resp: 3859

Ion	Ratio	Lower	Upper
42	100		
71	2.9	28.4	68.4#
72	15.6	29.0	69.0#

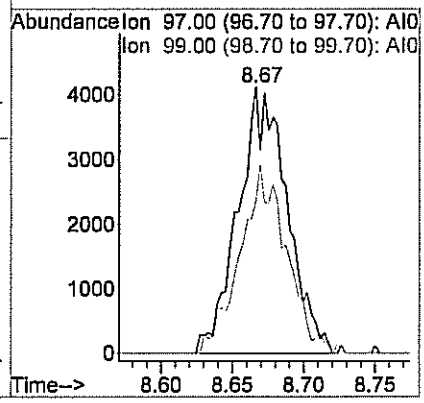


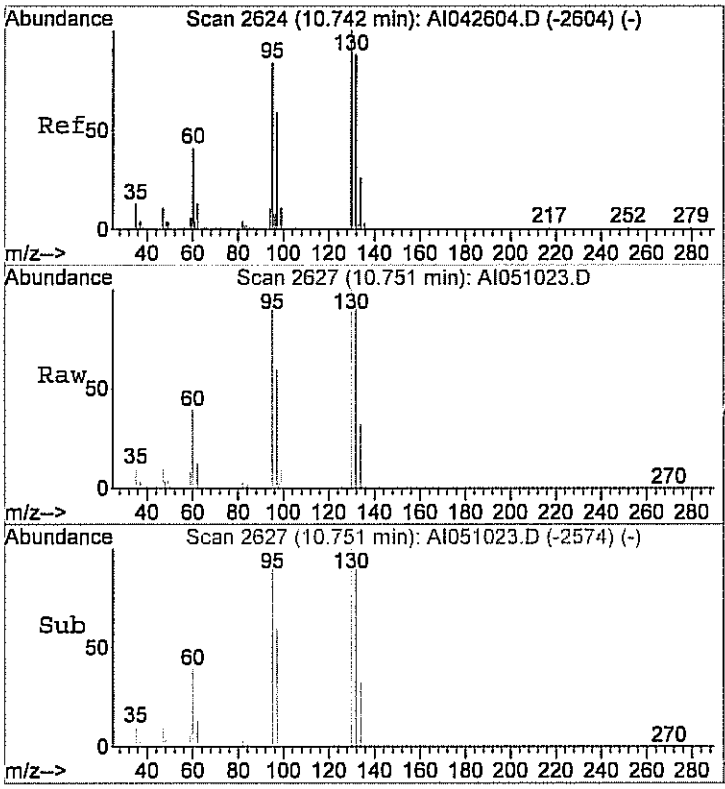


#33
1,1,1-trichloroethane
Concen: 0.32 ppb
RT: 8.67 min Scan# 1931
Delta R.T. 0.01 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion: 97 Resp: 9763

Ion	Ratio	Lower	Upper
97	100		
99	66.8	47.3	87.3

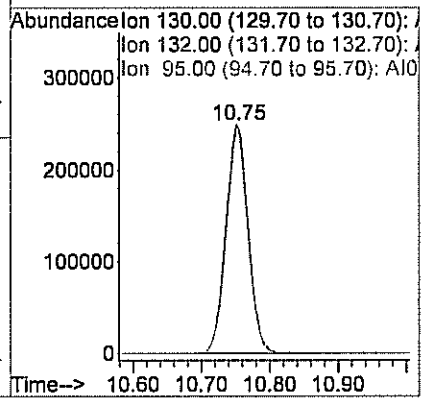




#41
Trichloroethene
Concen: 19.93 ppb
RT: 10.75 min Scan# 2627
Delta R.T. 0.01 min
Lab File: AI051023.D
Acq: 11 May 2011 3:00 am

Tgt Ion:130 Resp: 560561

Ion	Ratio	Lower	Upper
130	100		
132	97.1	75.8	115.8
95	96.0	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051230.D Vial: 27
Acq On : 13 May 2011 7:34 am Operator: RJP
Sample : C1105011-007A 270X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 13 07:55:50 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	13034	1.00	ppb	-0.02
32) 1,4-difluorobenzene	10.03	114	33354	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	28211	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	13435	0.87	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.73	130	12738	0.56	ppb	99

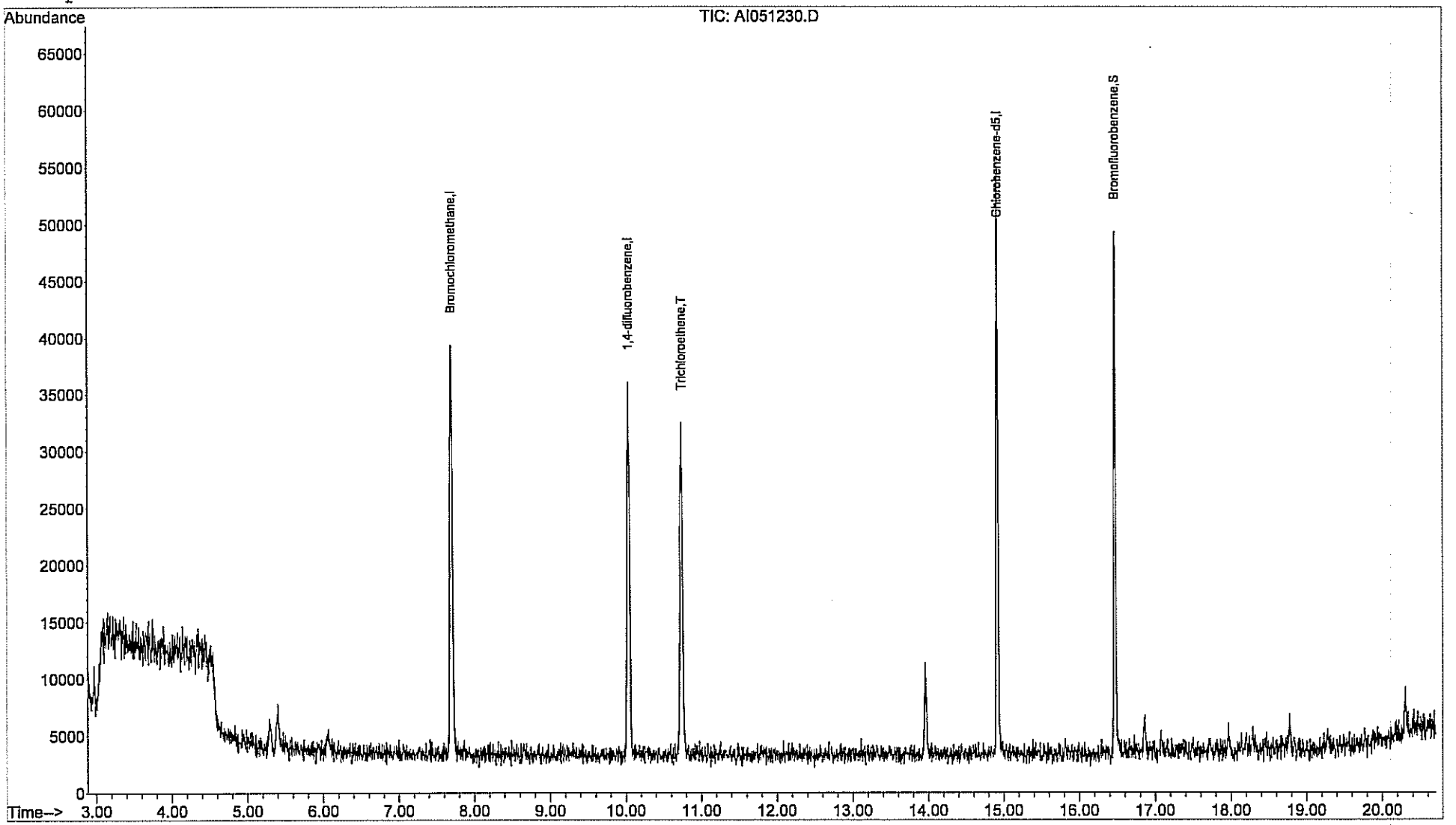
(#) = qualifier out of range (m) = manual integration (+) = signals summed

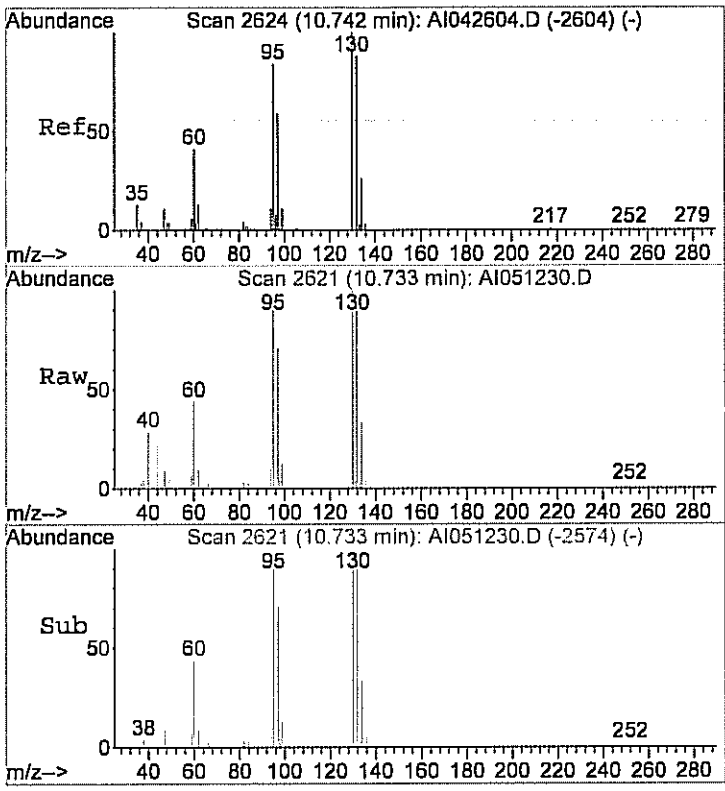
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051230.D
Acq On : 13 May 2011 7:34 am
Sample : C1105011-007A 270X
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 17 14:06 2011

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration

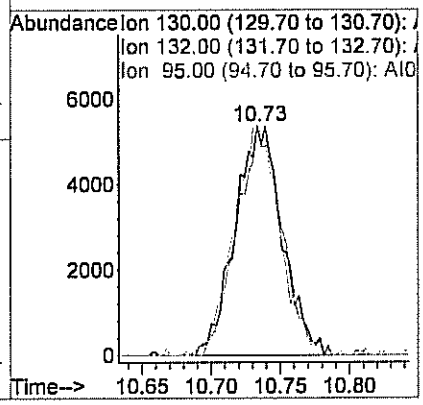




#41
Trichloroethene
Concen: 0.56 ppb
RT: 10.73 min Scan# 2621
Delta R.T. -0.01 min
Lab File: AI051230.D
Acq: 13 May 2011 7:34 am

Tgt Ion:130 Resp: 12738

Ion	Ratio	Lower	Upper
130	100		
132	94.4	75.8	115.8
95	97.8	76.8	116.8



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzene	0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.13	0.15	J	ppbV	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloromethane	0.85	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Ethyl acetate	1.6	0.25		ppbV	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	7761A1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.16	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 11	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 12	0.71	0.15		ppbV	1	5/10/2011 10:14:00 PM
Heptane	0.77	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexane	0.65	0.15		ppbV	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	5/11/2011 3:34:00 AM
m&p-Xylene	0.27	0.30	J	ppbV	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	5/10/2011 10:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Toluene	1.2	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Trichloroethene	0.66	0.040		ppbV	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:14:00 PM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Acetone	54	7.2		ug/m3	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:14:00 PM
Benzene	0.49	0.49		ug/m3	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.41	0.47	J	ug/m3	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:14:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:14:00 PM
Chloromethane	1.8	0.31		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:14:00 PM
Ethyl acetate	5.8	0.92		ug/m3	1	5/10/2011 10:14:00 PM
Ethylbenzene	0.71	0.66		ug/m3	1	5/10/2011 10:14:00 PM
Freon 11	1.4	0.86		ug/m3	1	5/10/2011 10:14:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	3.6	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Heptane	3.2	0.62		ug/m3	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Hexane	2.3	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	5/11/2011 3:34:00 AM
m&p-Xylene	1.2	1.3	J	ug/m3	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	3.3	0.90		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:14:00 PM
o-Xylene	0.44	0.66	J	ug/m3	1	5/10/2011 10:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:14:00 PM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Trichloroethene	3.6	0.22		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:14:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051015.D Vial: 28
Acq On : 10 May 2011 10:14 pm Operator: RJP
Sample : C1105011-008A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 22:34:50 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

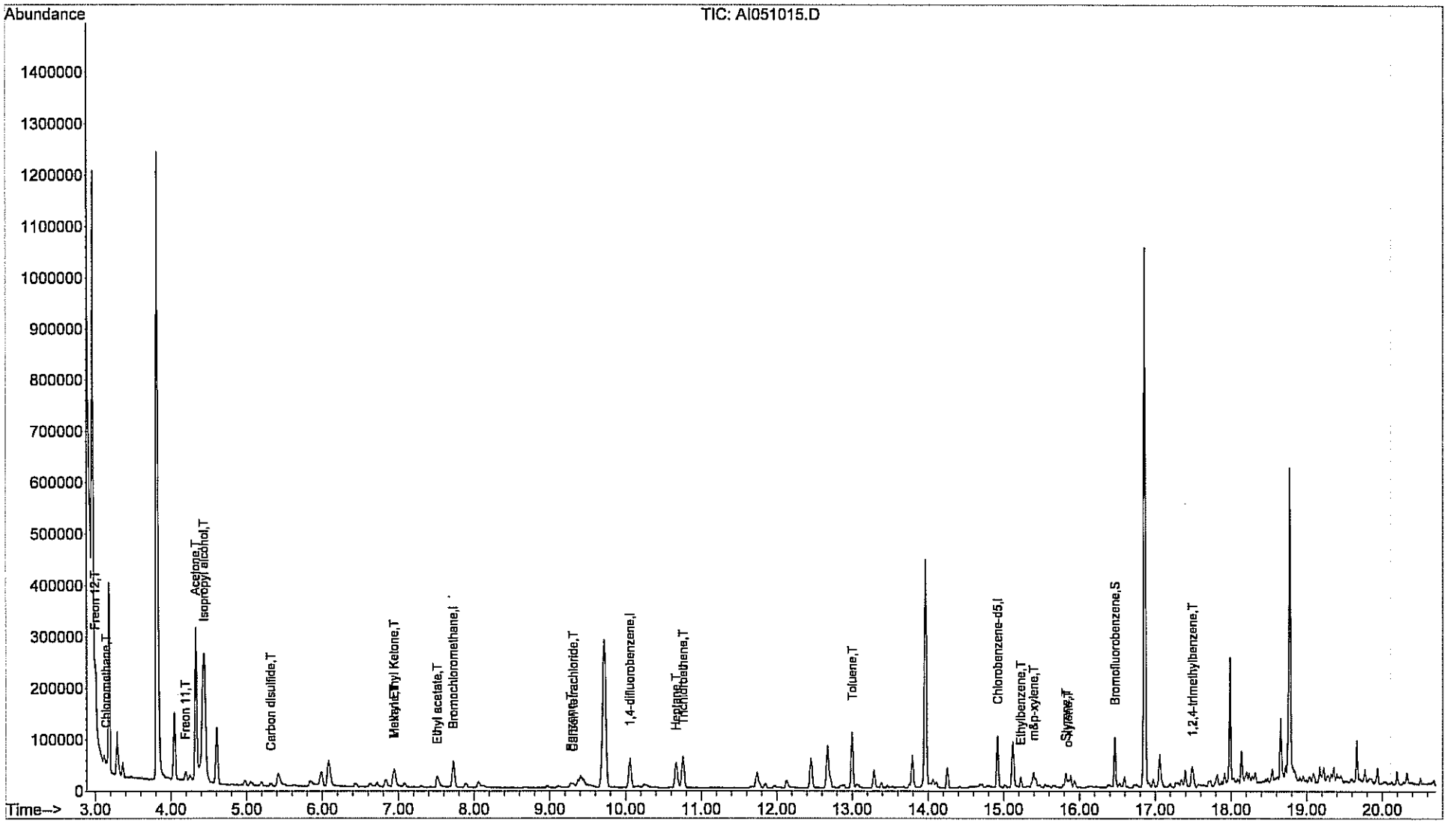
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	18206	1.00	ppb		0.02
32) 1,4-difluorobenzene	10.06	114	57726	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	55579	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	27912	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	52962	0.71	ppb		99
4) Chloromethane	3.15	50	13551	0.85	ppb		94
13) Freon 11	4.19	101	12539	0.24	ppb		99
14) Acetone	4.33	58	117415	19.96	ppb	#	78
15) Isopropyl alcohol	4.44	45	304057	22.74	ppb	#	36
20) Carbon disulfide	5.32	76	9186	0.13	ppb		96
25) Methyl Ethyl Ketone	6.93	72	7409	1.11	ppb	#	100
27) Hexane	6.95	57	13553	0.65	ppb		96
28) Ethyl acetate	7.51	43	39229	1.57	ppb		96
35) Carbon tetrachloride	9.32	117	5316	0.08	ppb		93
36) Benzene	9.27	78	8455	0.15	ppb		77
40) Heptane	10.66	43	15998	0.77	ppb		86
41) Trichloroethene	10.75	130	25687	0.66	ppb		100
48) Toluene	13.00	92	44354	1.15	ppb		98
55) Ethylbenzene	15.22	91	11846	0.16	ppb		94
56) m&p-xylene	15.39	91	17369	0.27	ppb		99
57) Styrene	15.82	104	8819	0.25	ppb		94
59) o-xylene	15.85	91	7453	0.10	ppb		93
65) 1,2,4-trimethylbenzene	17.50	105	10052	0.24	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

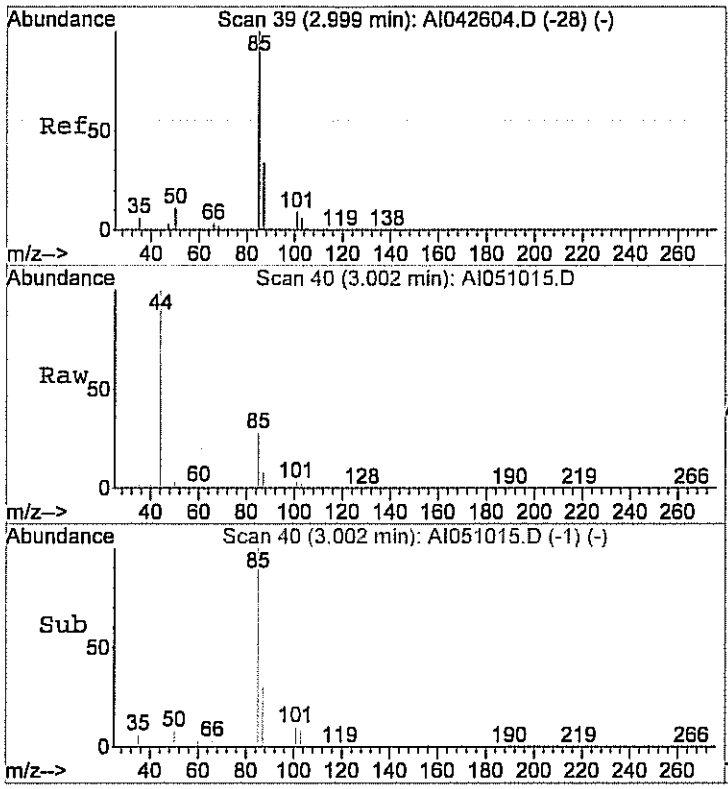
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051015.D Vial: 28
Acq On : 10 May 2011 10:14 pm Operator: RJP
Sample : C1105011-008A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 11:38 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



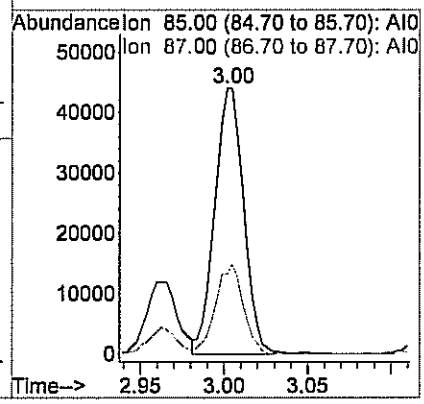
Centek laboratories, LLC

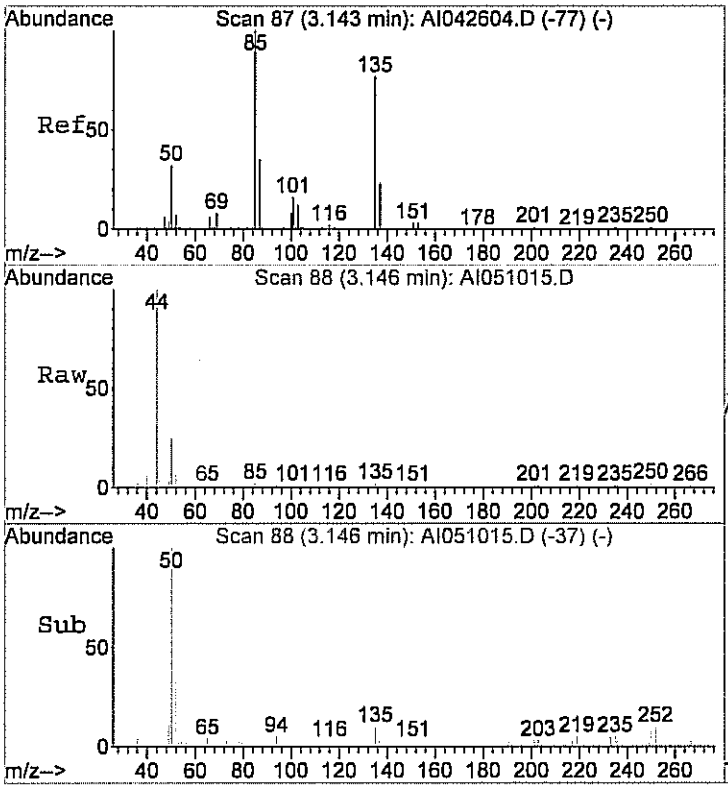


#3
Freon 12
Concen: 0.71 ppb
RT: 3.00 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 85 Resp: 52962

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.2	53.2

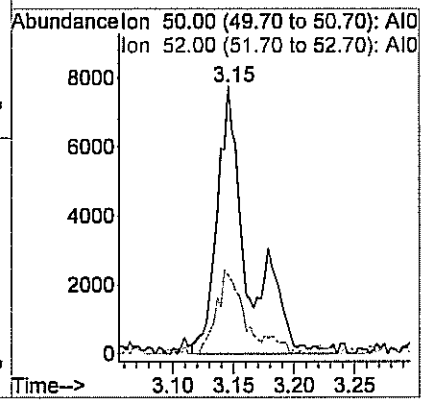


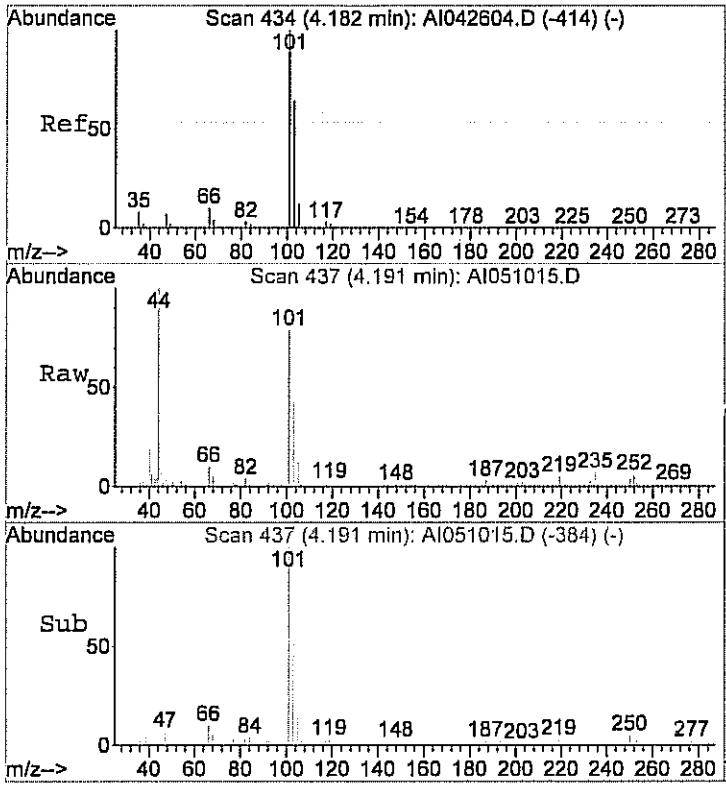


#4
Chloromethane
Concen: 0.85 ppb
RT: 3.15 min Scan# 88
Delta R.T. 0.00 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 50 Resp: 13551

Ion	Ratio	Lower	Upper
50	100		
52	30.1	7.1	47.1

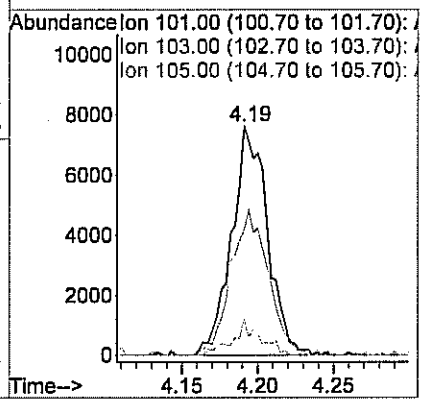


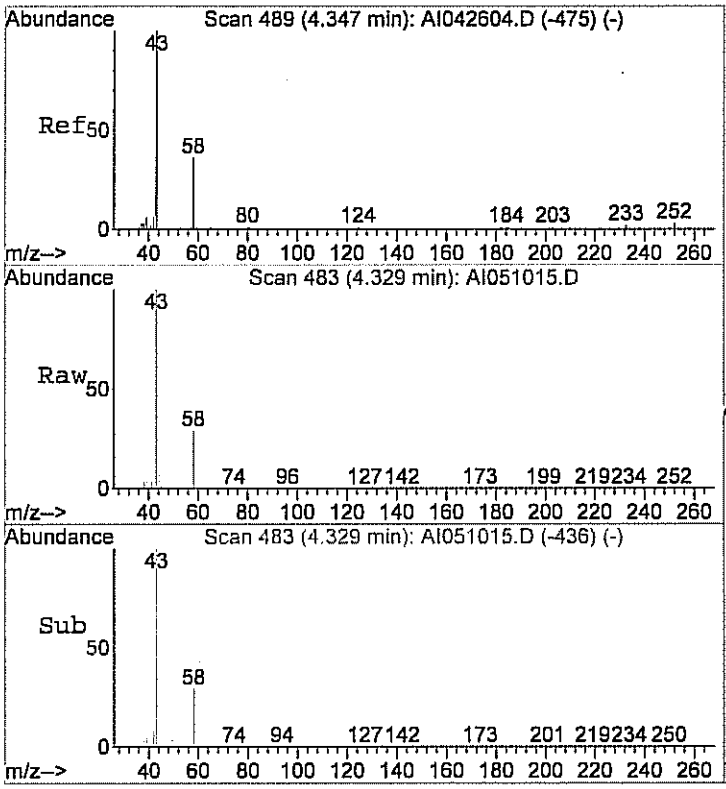


#13
Freon 11
Concen: 0.24 ppb
RT: 4.19 min Scan# 437
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion:101 Resp: 12539

Ion	Ratio	Lower	Upper
101	100		
103	66.4	45.1	85.1
105	11.6	0.0	31.5

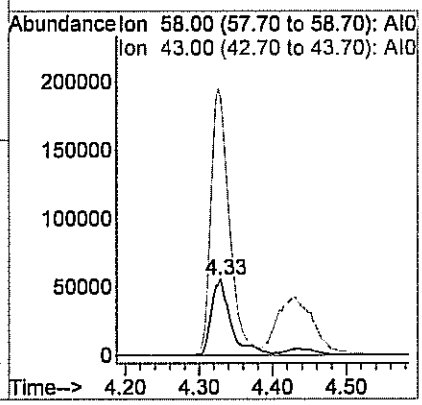


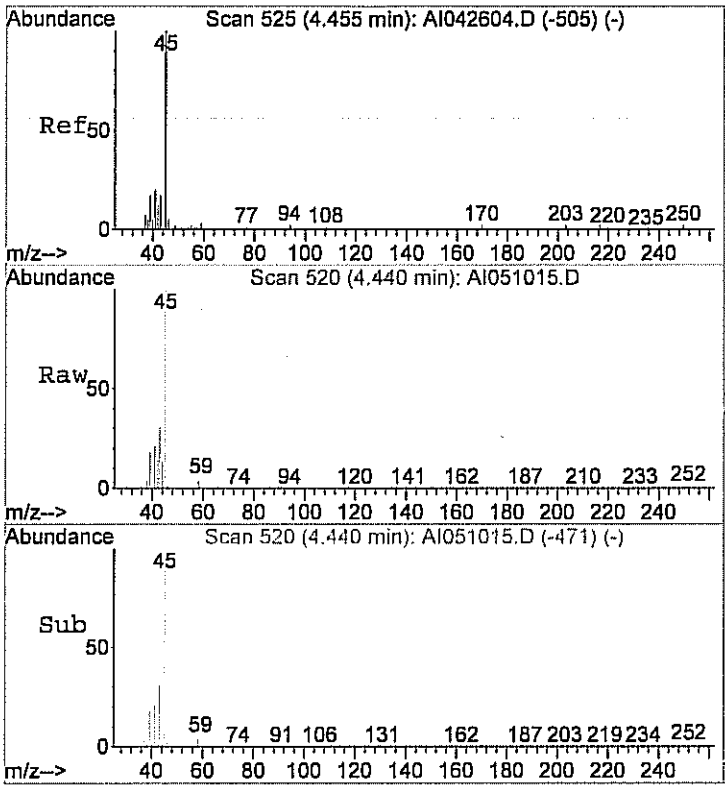


#14
Acetone
Concen: 19.96 ppb
RT: 4.33 min Scan# 483
Delta R.T. -0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 58 Resp: 117415

Ion	Ratio	Lower	Upper
58	100		
43	413.6	333.6	393.6#

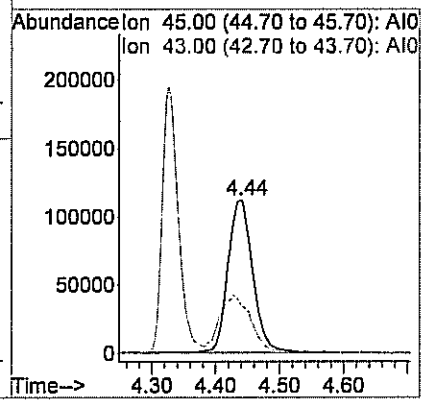


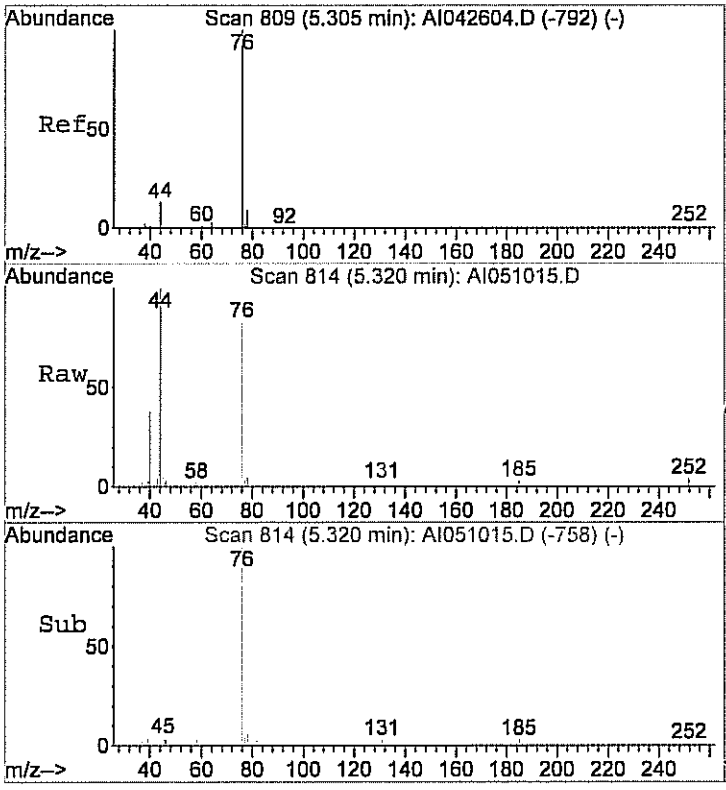


#15
Isopropyl alcohol
Concen: 22.74 ppb
RT: 4.44 min Scan# 520
Delta R.T. -0.00 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 45 Resp: 304057

Ion	Ratio	Lower	Upper
45	100		
43	0.0	19.2	59.2#

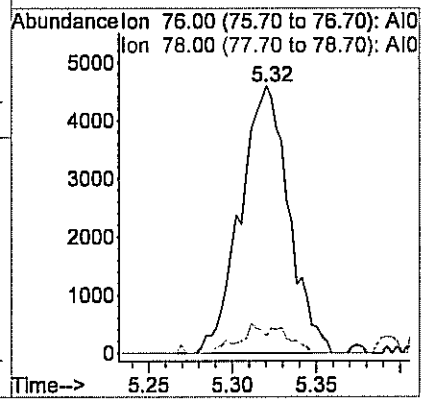


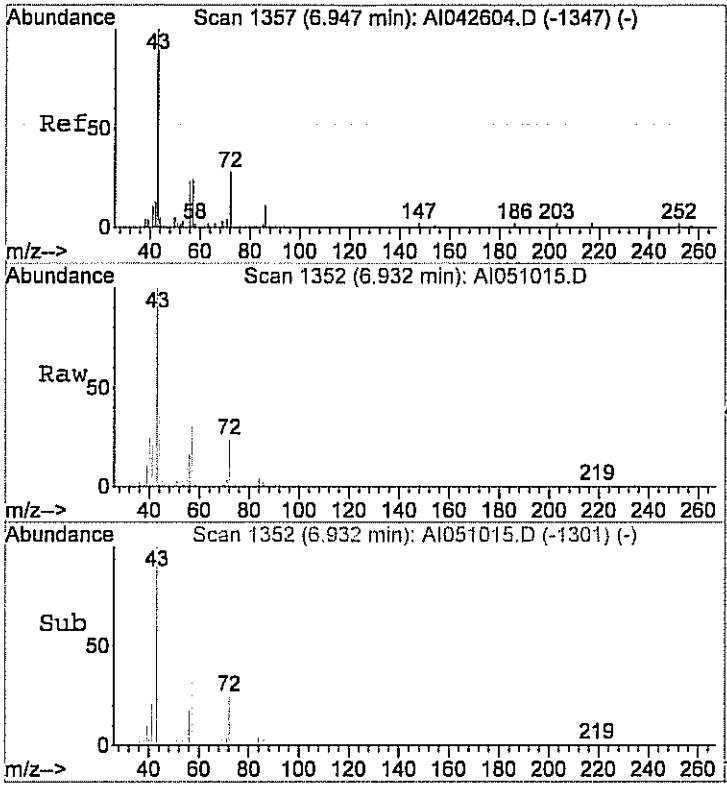


#20
Carbon disulfide
Concen: 0.13 ppb
RT: 5.32 min Scan# 814
Delta R.T. 0.02 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 76 Resp: 9186

Ion	Ratio	Lower	Upper
76	100		
78	7.9	0.0	29.3

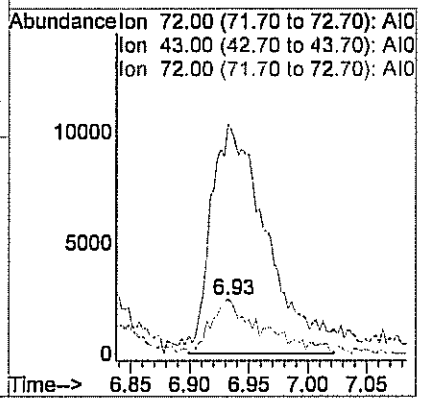


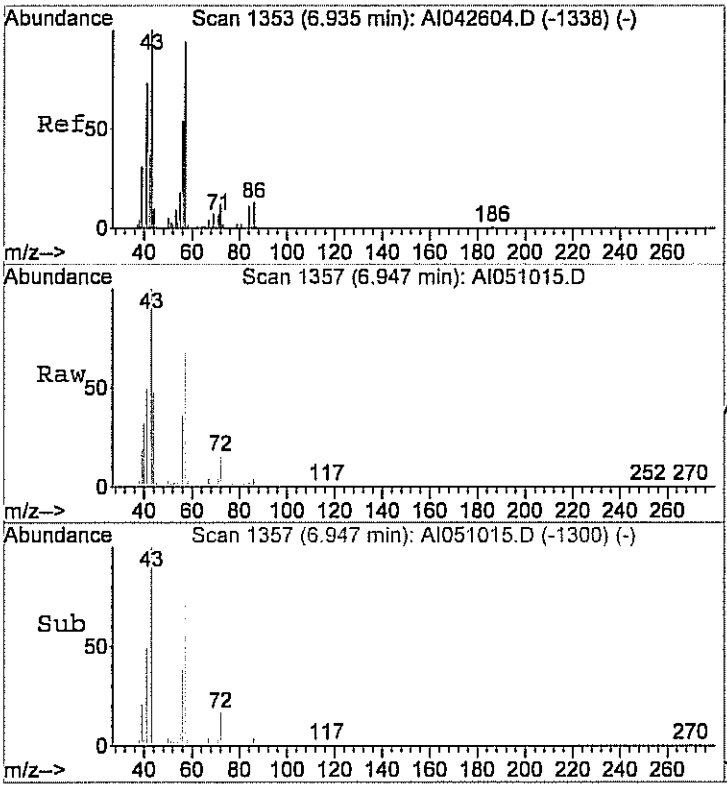


#25
Methyl Ethyl Ketone
Concen: 1.11 ppb
RT: 6.93 min Scan# 1352
Delta R.T. 0.00 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 72 Resp: 7409

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

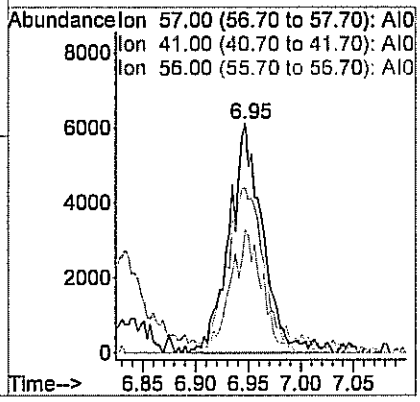


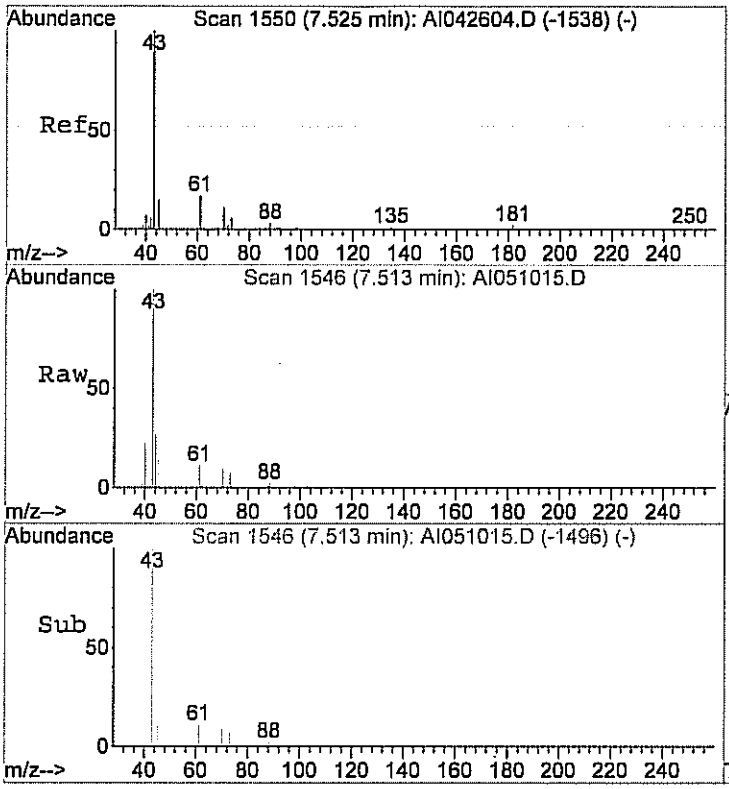


#27
Hexane
Concen: 0.65 ppb
RT: 6.95 min Scan# 1357
Delta R.T. 0.02 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 57 Resp: 13553

Ion	Ratio	Lower	Upper
57	100		
41	80.9	64.2	104.2
56	49.8	33.5	73.5

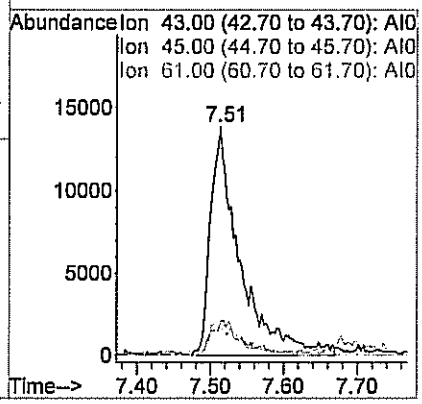


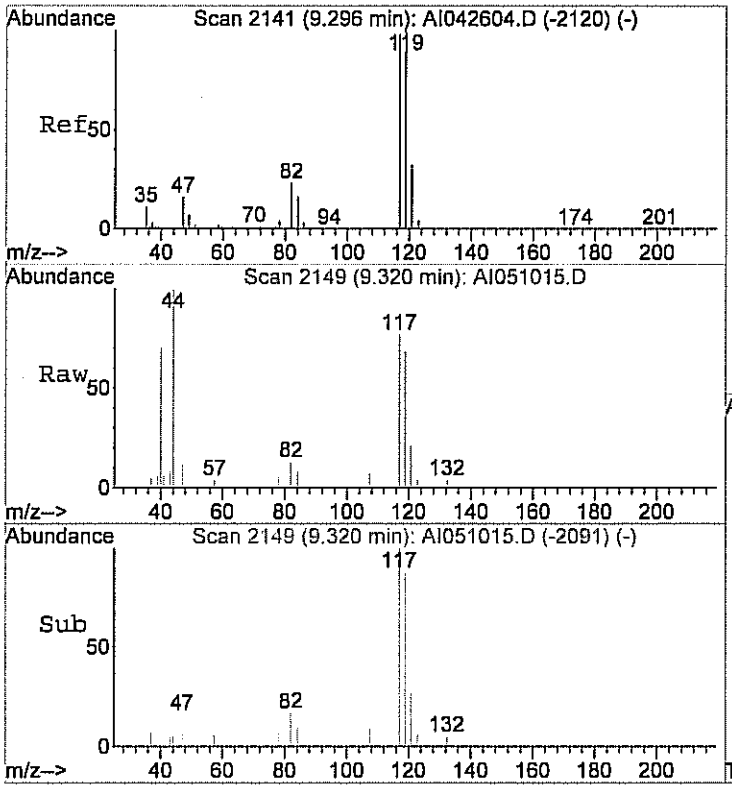


#28
Ethyl acetate
Concen: 1.57 ppb
RT: 7.51 min Scan# 1546
Delta R.T. -0.00 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 43 Resp: 39229

Ion	Ratio	Lower	Upper
43	100		
45	16.9	0.0	34.4
61	15.2	0.0	35.9

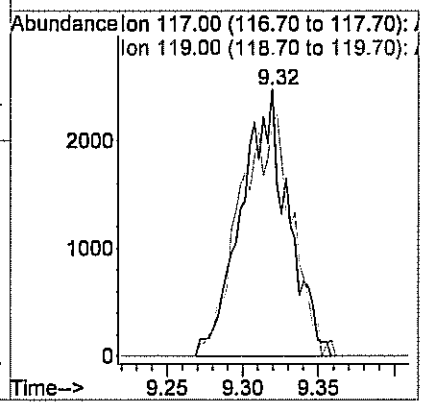


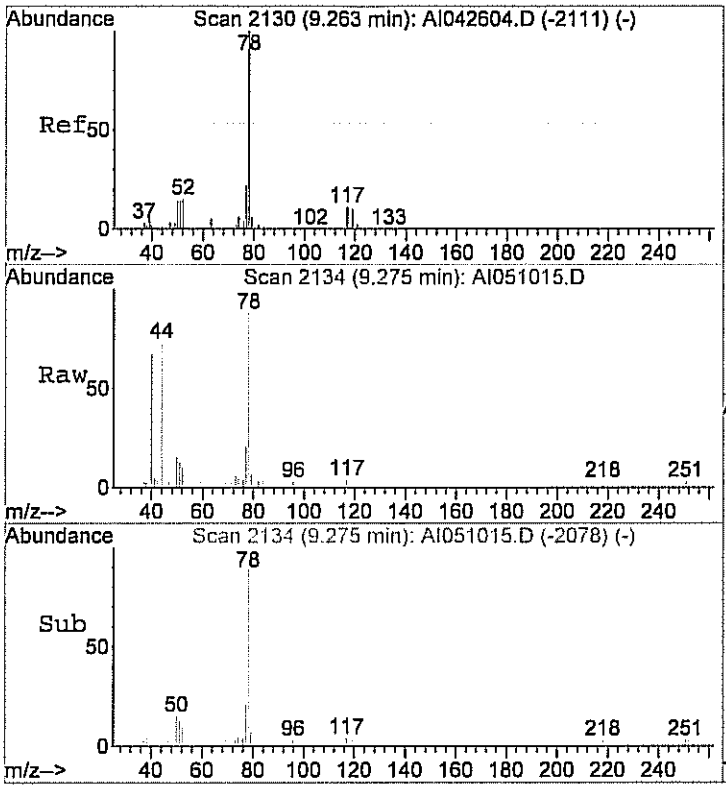


#35
Carbon tetrachloride
Concen: 0.08 ppb
RT: 9.32 min Scan# 2149
Delta R.T. 0.02 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion:117 Resp: 5316

Ion	Ratio	Lower	Upper
117	100		
119	102.1	75.8	115.8

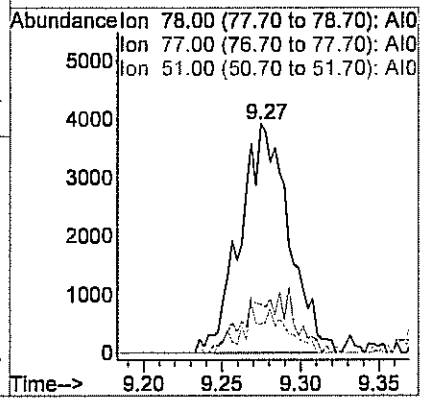


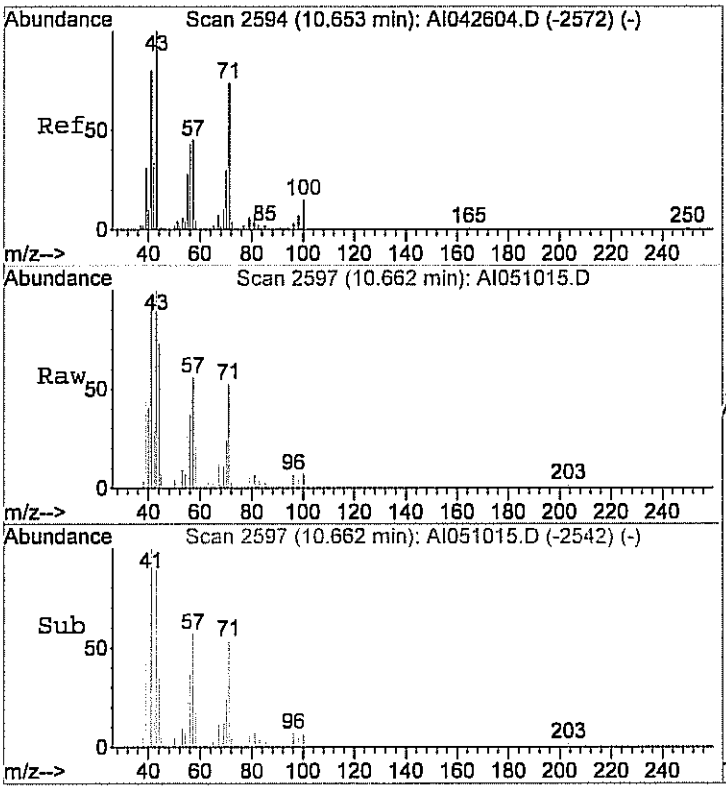


#36
Benzene
Concen: 0.15 ppb
RT: 9.27 min Scan# 2134
Delta R.T. 0.02 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 78 Resp: 8455

Ion	Ratio	Lower	Upper
78	100		
77	5.6	3.4	43.4
51	14.4	0.0	35.0

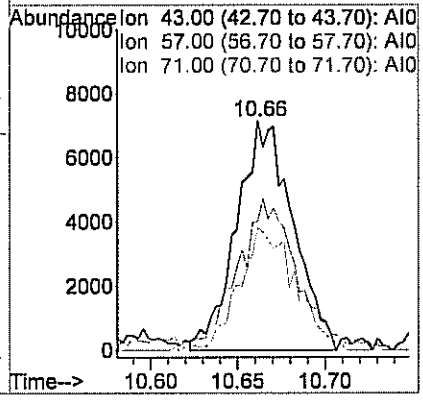


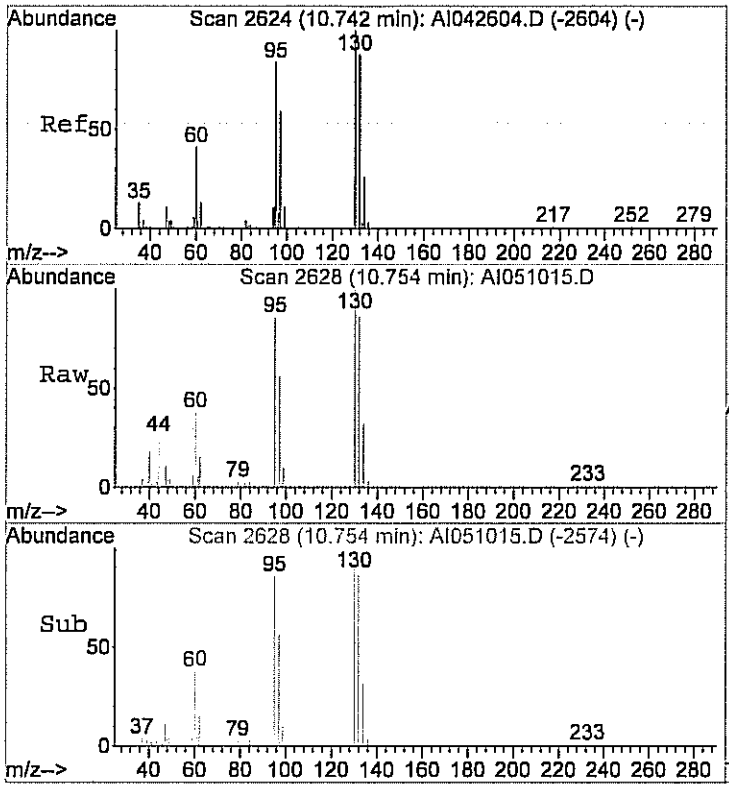


#40
Heptane
Concen: 0.77 ppb
RT: 10.66 min Scan# 2597
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 43 Resp: 15998

Ion	Ratio	Lower	Upper
43	100		
57	69.7	35.0	75.0
71	52.4	37.8	77.8

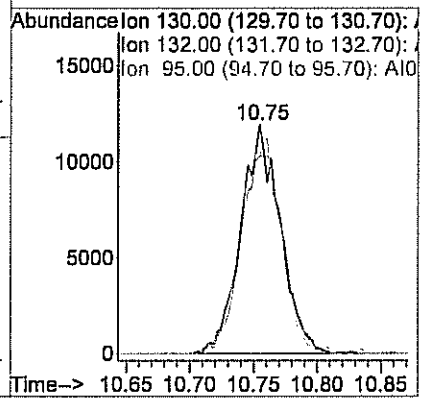


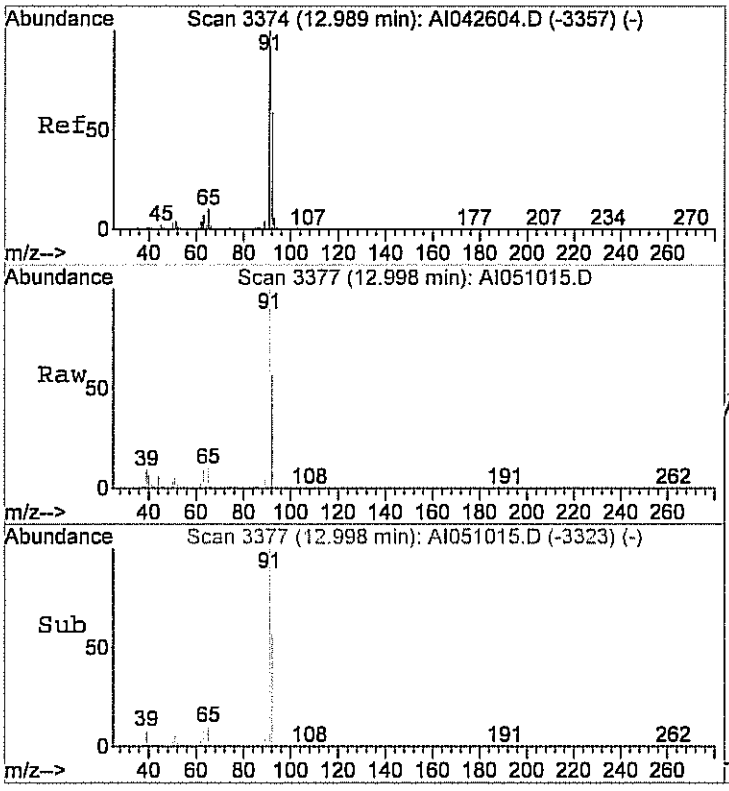


#41
Trichloroethene
Concen: 0.66 ppb
RT: 10.75 min Scan# 2628
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion:130 Resp: 25687

Ion	Ratio	Lower	Upper
130	100		
132	96.0	75.8	115.8
95	97.5	76.8	116.8

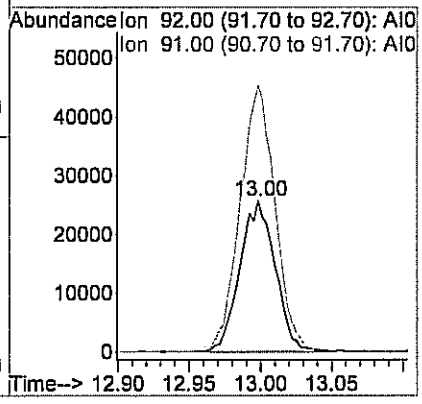


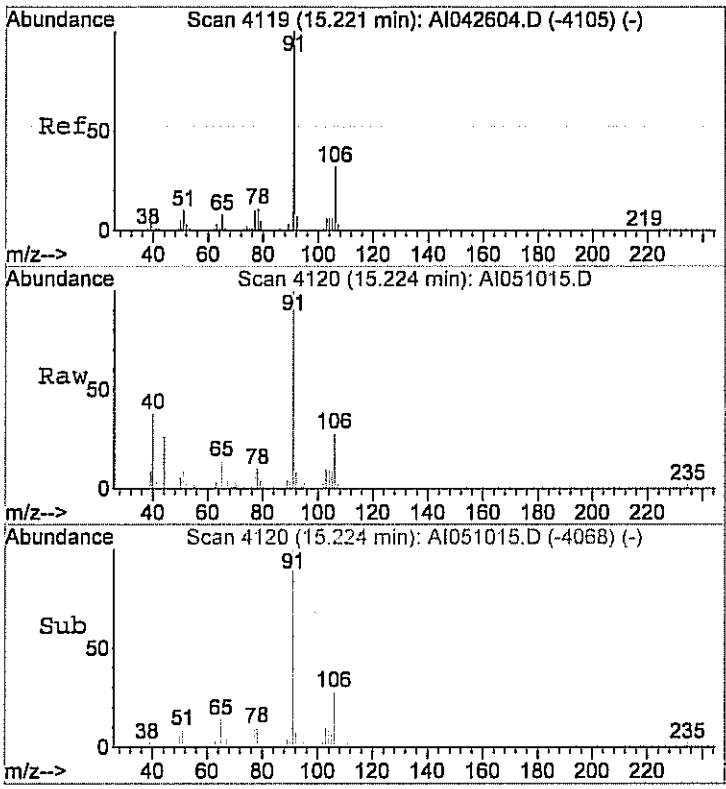


#48
Toluene
Concen: 1.15 ppb
RT: 13.00 min Scan# 3377
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 92 Resp: 44354

Ion	Ratio	Lower	Upper
92	100		
91	175.9	152.8	192.8

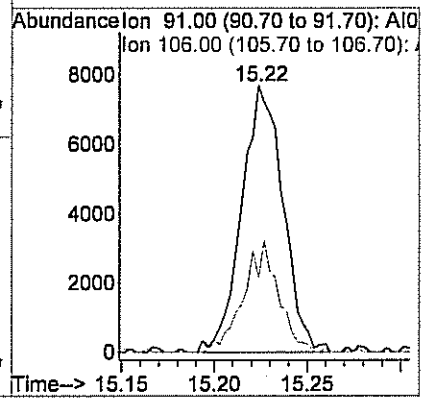


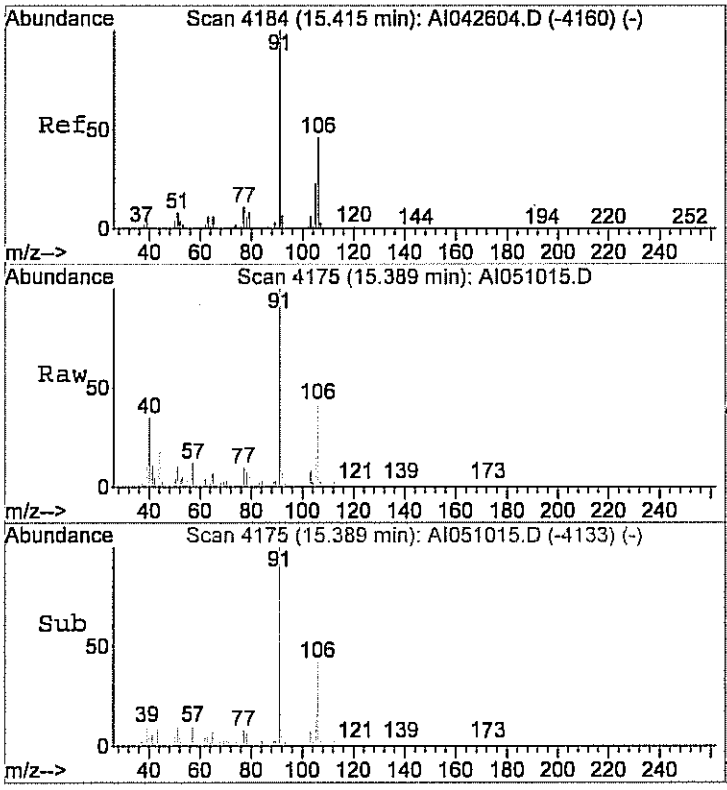


#55
Ethylbenzene
Concen: 0.16 ppb
RT: 15.22 min Scan# 4120
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 91 Resp: 11846

Ion	Ratio	Lower	Upper
91	100		
106	34.9	11.8	51.8

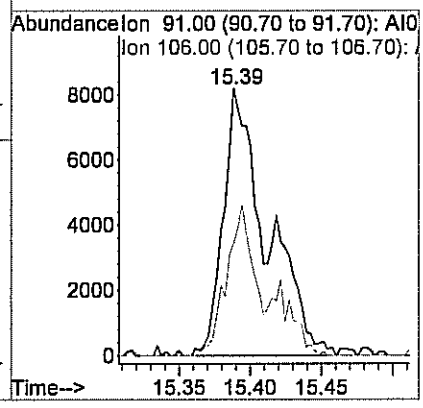


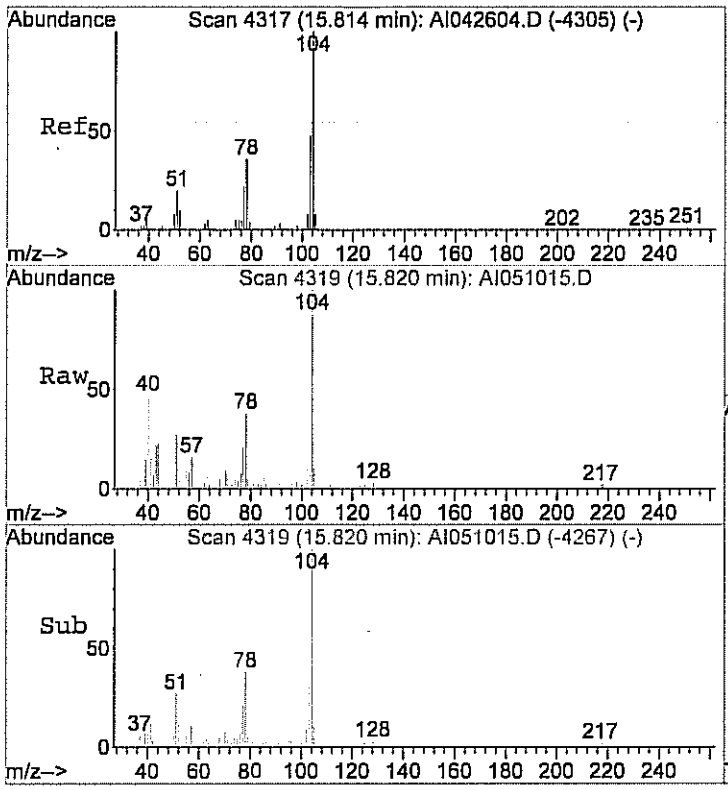


#56
m&p-xylene
Concen: 0.27 ppb
RT: 15.39 min Scan# 4175
Delta R.T. -0.02 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 91 Resp: 17369

Ion	Ratio	Lower	Upper
91	100		
106	49.1	28.7	68.7

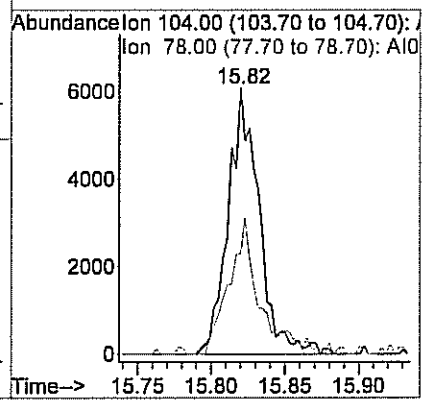


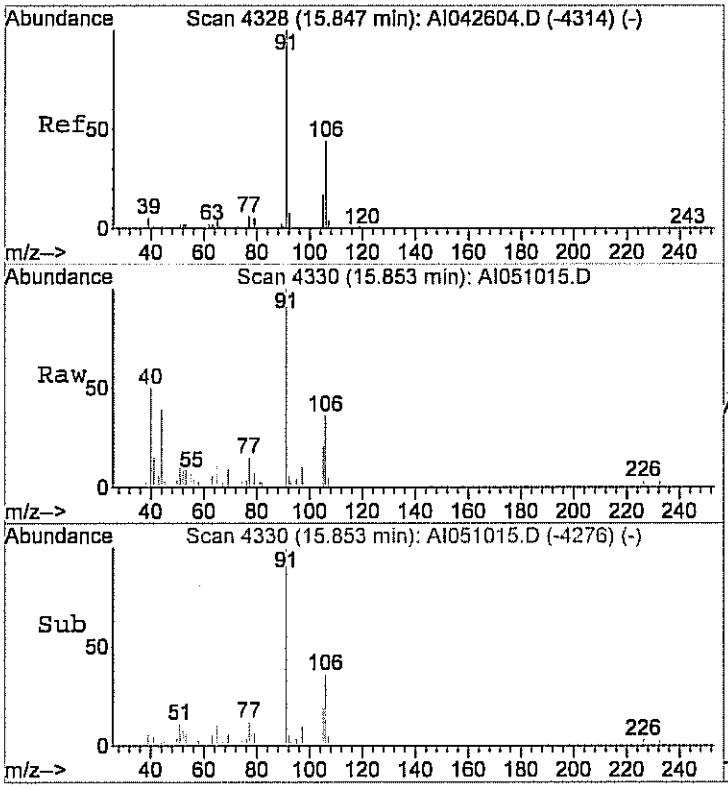


#57
Styrene
Concen: 0.25 ppb
RT: 15.82 min Scan# 4319
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion:104 Resp: 8819

Ion	Ratio	Lower	Upper
104	100		
78	50.9	35.0	75.0

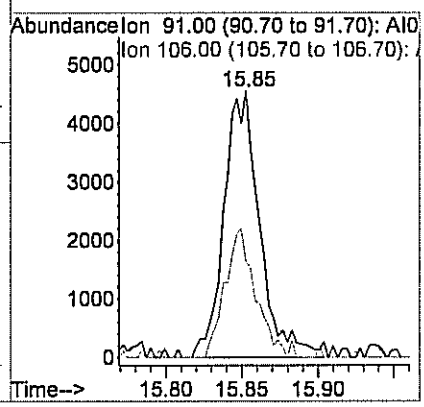


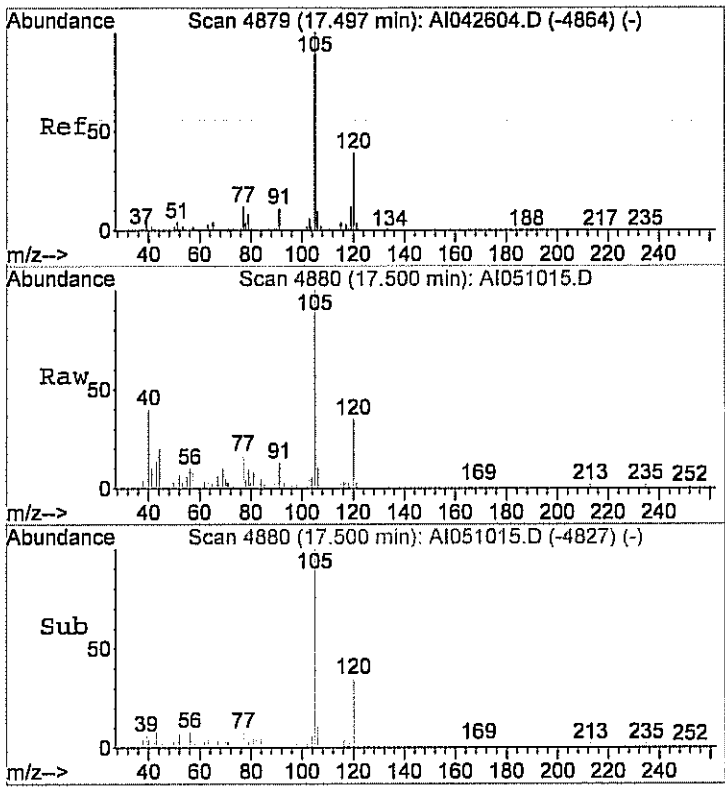


#59
o-xylene
Concen: 0.10 ppb
RT: 15.85 min Scan# 4330
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion: 91 Resp: 7453

Ion	Ratio	Lower	Upper
91	100		
106	41.0	25.6	65.6

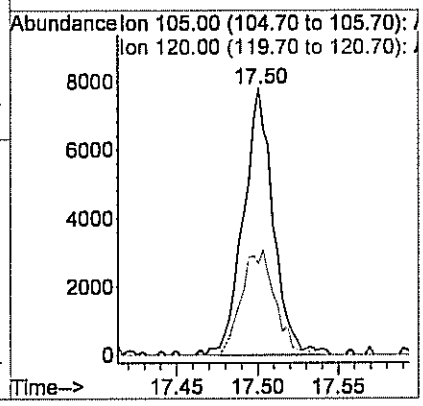




#65
1,2,4-trimethylbenzene
Concen: 0.24 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI051015.D
Acq: 10 May 2011 10:14 pm

Tgt Ion:105 Resp: 10052

Ion	Ratio	Lower	Upper
105	100		
120	44.2	24.0	64.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051024.D Vial: 28
Acq On : 11 May 2011 3:34 am Operator: RJP
Sample : C1105011-008A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 03:55:47 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

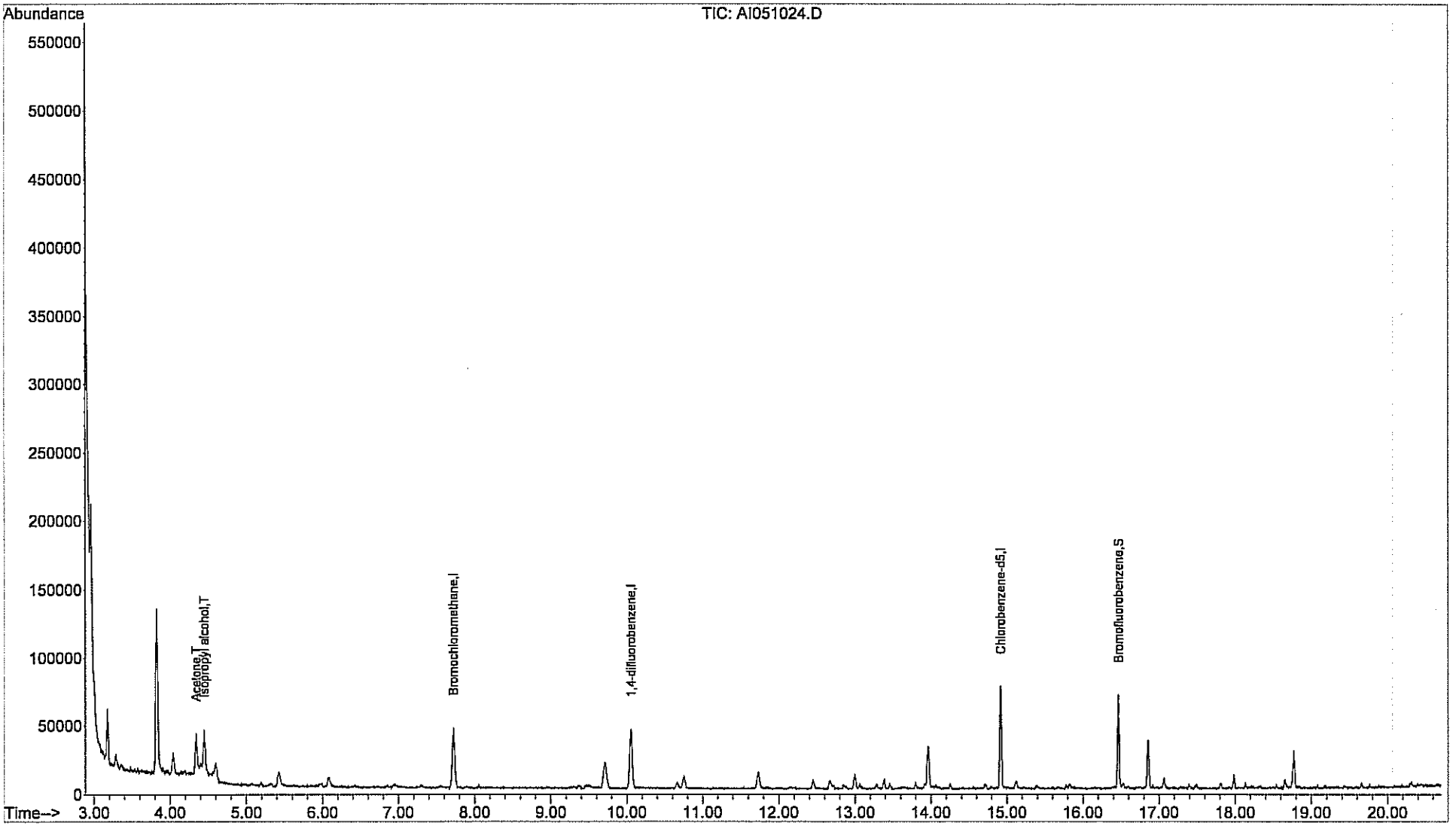
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	15841	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.05	114	44140	1.00	ppb	0.01
47) Chlorobenzene-d5	14.92	117	40631	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	18220	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue
14) Acetone	4.34	58	11435	2.23	ppb	# 65
15) Isopropyl alcohol	4.45	45	23524	2.02	ppb	# 36

(#) = qualifier out of range (m) = manual integration (+) = signals summed

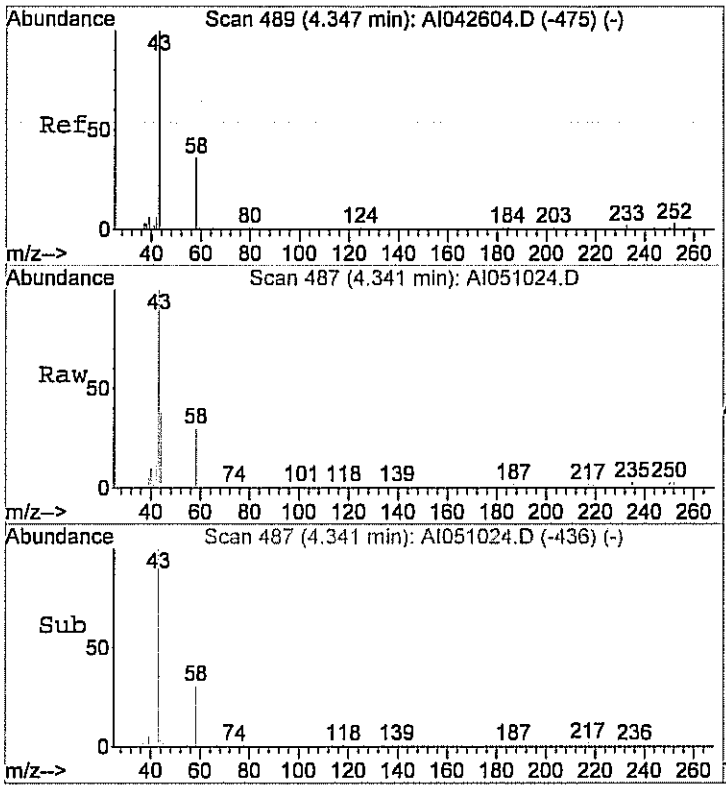
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051024.D Vial: 28
Acq On : 11 May 2011 3:34 am Operator: RJP
Sample : C1105011-008A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:07 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



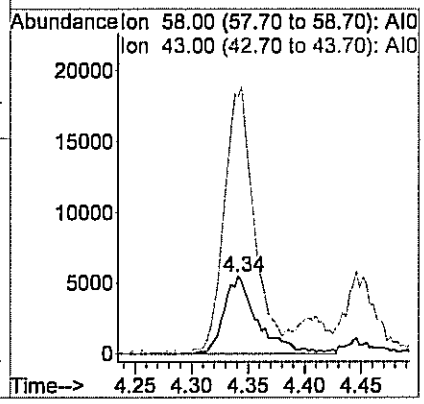
Centek laboratories, LLC

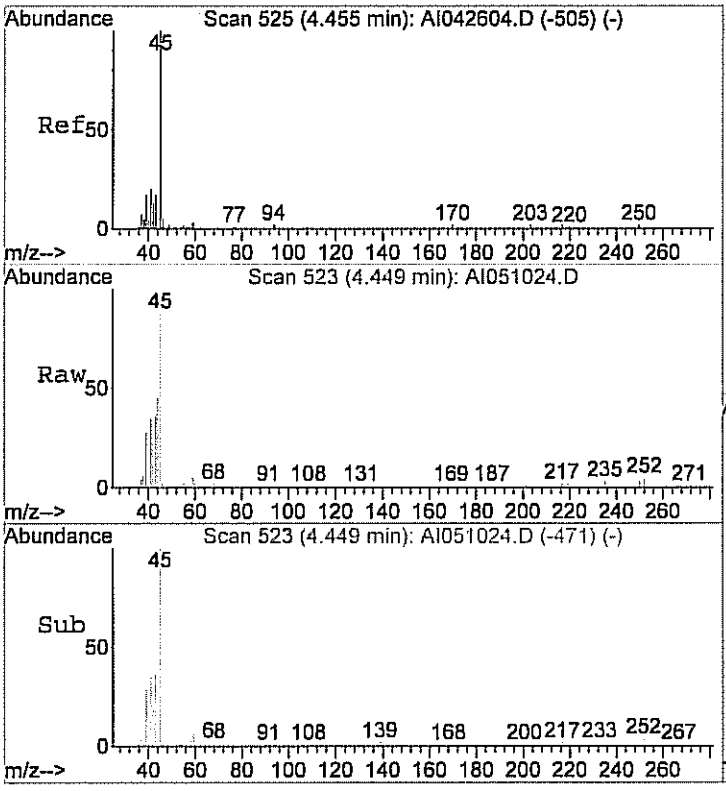


#14
Acetone
Concen: 2.23 ppb
RT: 4.34 min Scan# 487
Delta R.T. 0.00 min
Lab File: AI051024.D
Acq: 11 May 2011 3:34 am

Tgt Ion: 58 Resp: 11435

Ion	Ratio	Lower	Upper
58	100		
43	440.7	333.6	393.6#

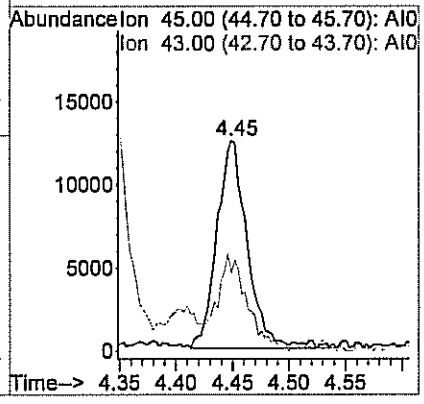




#15
Isopropyl alcohol
Concen: 2.02 ppb
RT: 4.45 min Scan# 523
Delta R.T. 0.01 min
Lab File: AI051024.D
Acq: 11 May 2011 3:34 am

Tgt Ion: 45 Resp: 23524

Ion	Ratio	Lower	Upper
45	100		
43	0.0	19.2	59.2#



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Acetone	7.6	3.0		ppbV	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collectiou Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 11	0.23	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Heptane	0.29	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexane	0.25	0.15		ppbV	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Toluene	0.26	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Trichloroethene	0.18	0.040		ppbV	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:50:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Acetone	18	7.2		ug/m3	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:50:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:50:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Freon 11	1.3	0.86		ug/m3	1	5/10/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Heptane	1.2	0.62		ug/m3	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Hexane	0.90	0.54		ug/m3	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:50:00 PM
Toluene	1.0	0.57		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Trichloroethene	0.98	0.22		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051016.D Vial: 29
Acq On : 10 May 2011 10:50 pm Operator: RJP
Sample : C1105011-009A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 23:11:20 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	16469	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.06	114	51156	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	48247	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	23106	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
13) Freon 11	4.19	101	11142	0.23	ppb	97
14) Acetone	4.35	58	41789	7.85	ppb	91
20) Carbon disulfide	5.32	76	11570	0.19	ppb	99
27) Hexane	6.95	57	4721	0.25	ppb	87
35) Carbon tetrachloride	9.31	117	4990	0.08	ppb	99
40) Heptane	10.67	43	5280	0.29	ppb	81
41) Trichloroethene	10.76	130	6336	0.18	ppb	98
48) Toluene	13.00	92	8850	0.26	ppb	90

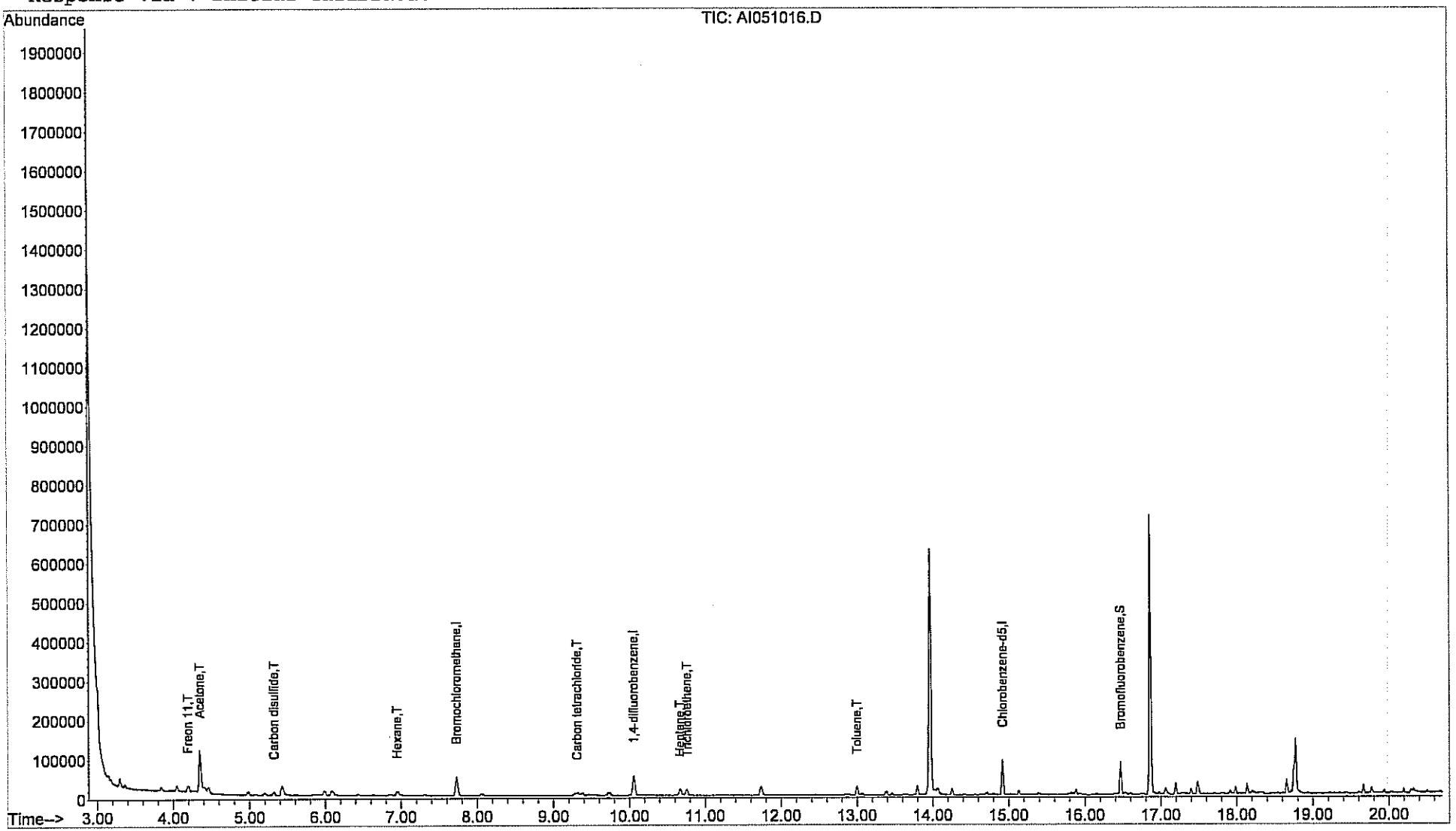
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

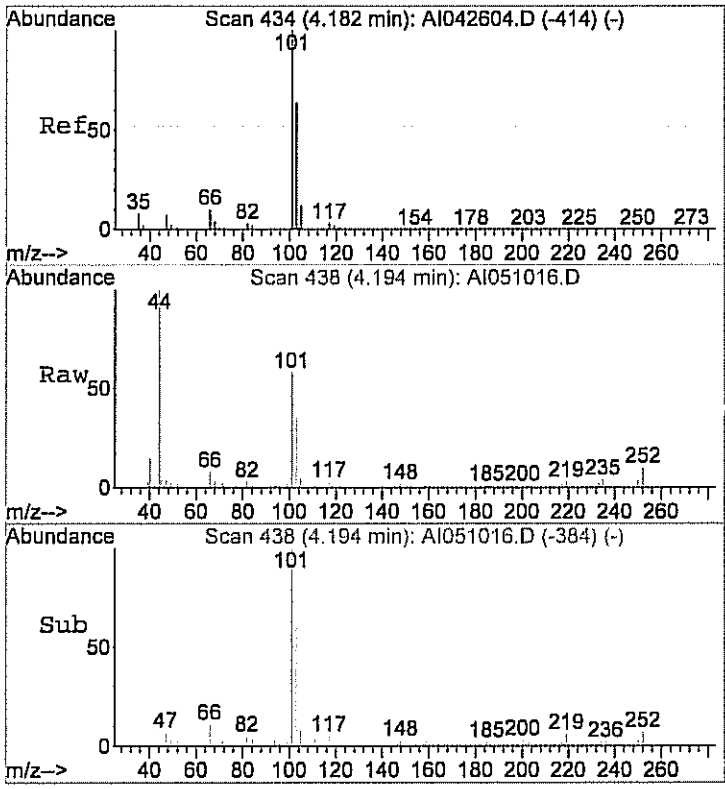
Data File : C:\HPCHEM\1\DATA\AI051016.D
Acq On : 10 May 2011 10:50 pm
Sample : C1105011-009A
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 17 11:39 2011

Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



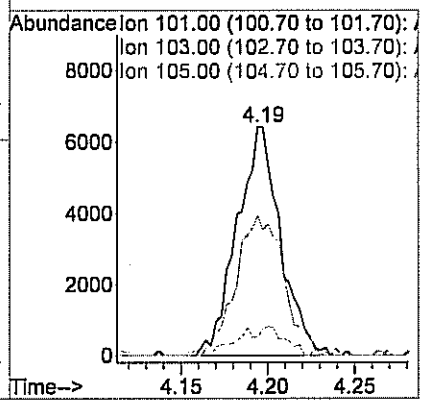
Centek laboratories, LLC

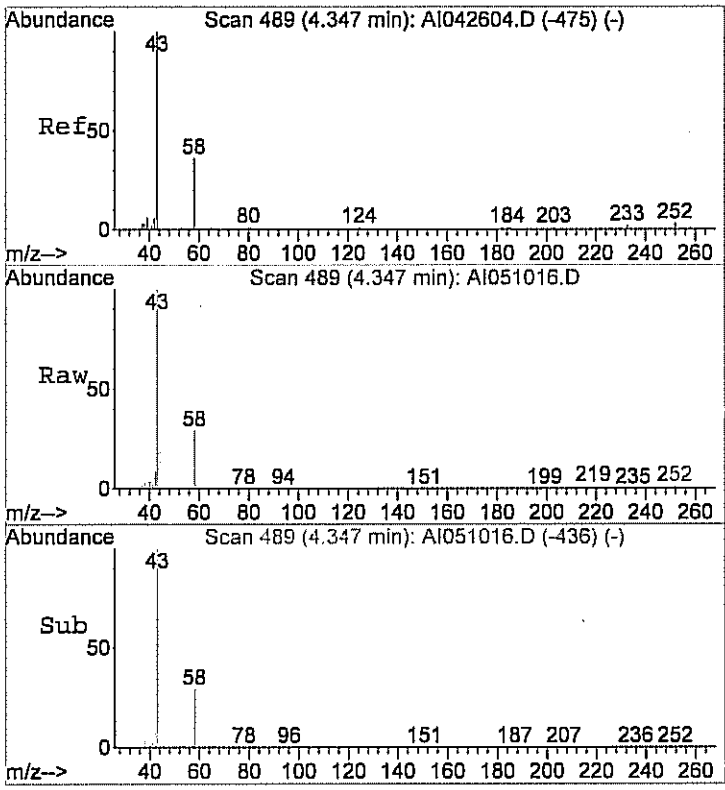


#13
Freon 11
Concen: 0.23 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.01 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion:101 Resp: 11142

Ion	Ratio	Lower	Upper
101	100		
103	67.3	45.1	85.1
105	13.4	0.0	31.5

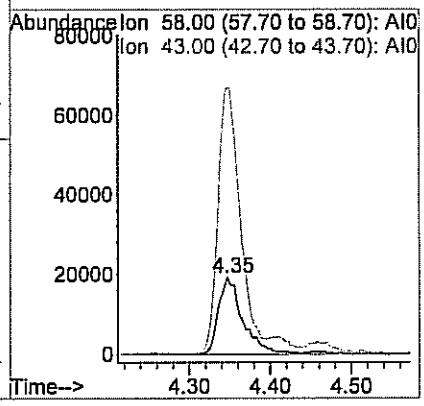


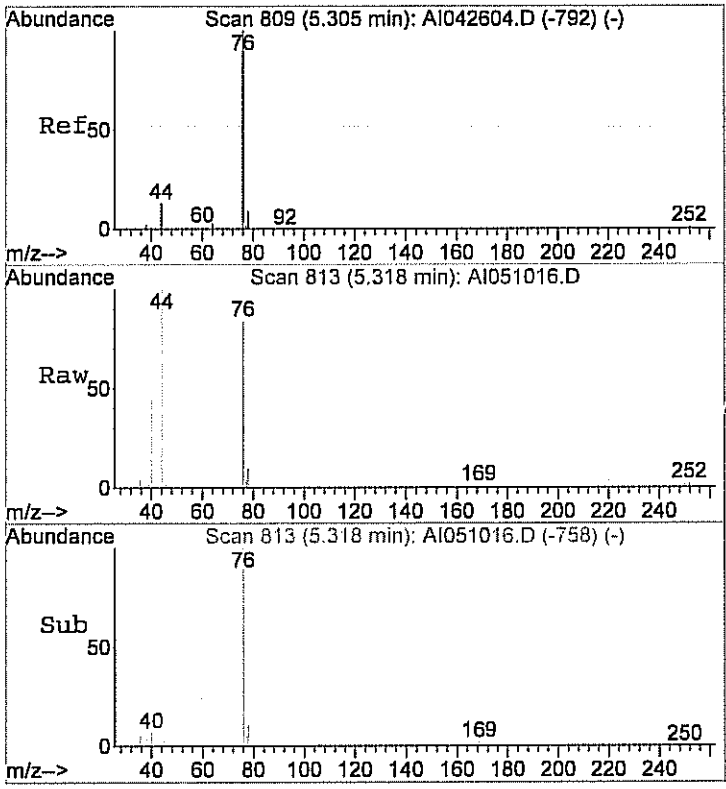


#14
Acetone
Concen: 7.85 ppb
RT: 4.35 min Scan# 489
Delta R.T. 0.01 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion: 58 Resp: 41789

Ion	Ratio	Lower	Upper
58	100		
43	343.5	333.6	393.6

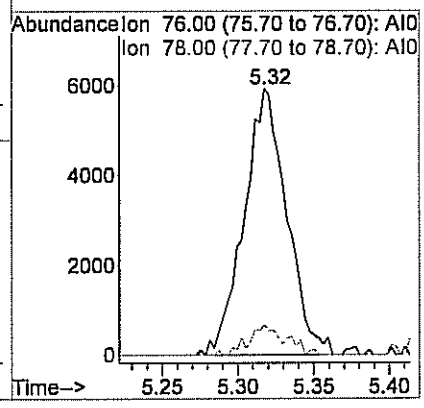


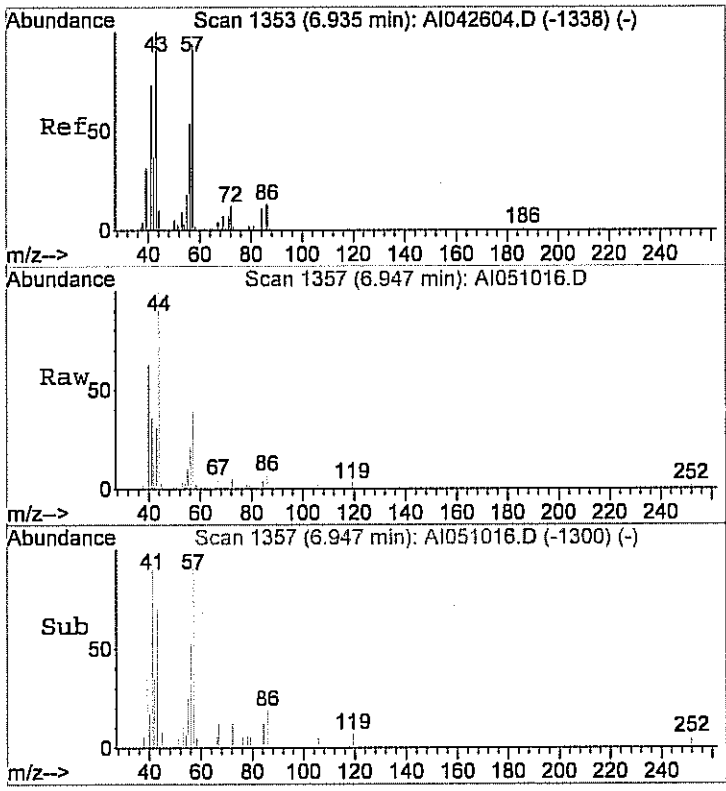


#20
Carbon disulfide
Concen: 0.19 ppb
RT: 5.32 min Scan# 813
Delta R.T. 0.01 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion: 76 Resp: 11570

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.3

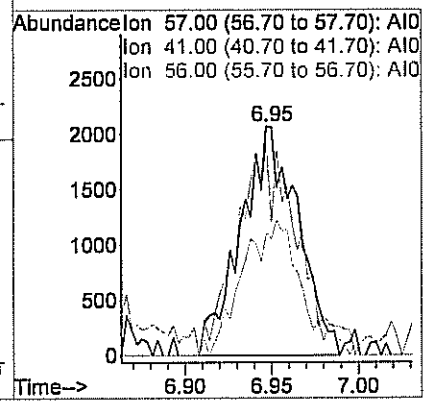


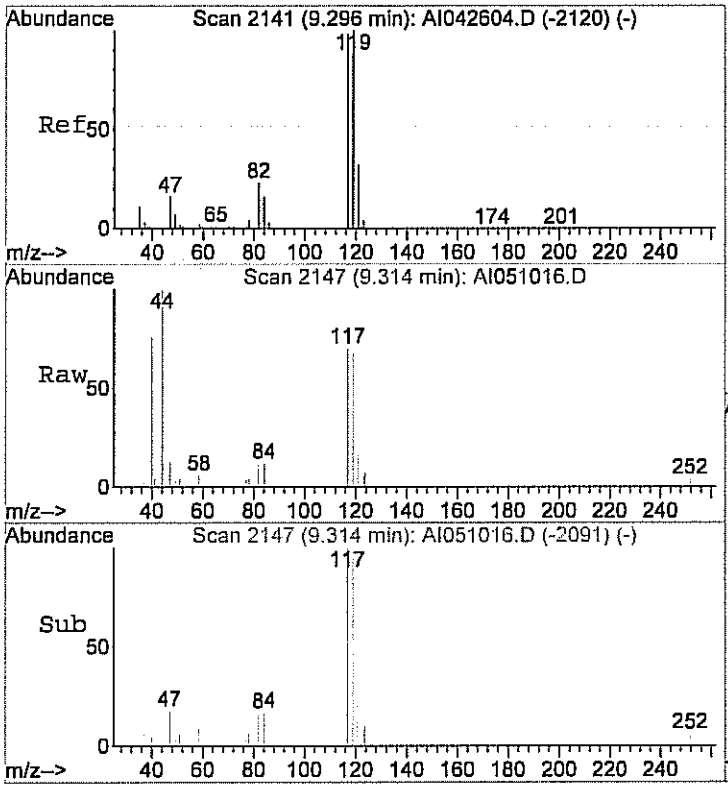


#27
Hexane
Concen: 0.25 ppb
RT: 6.95 min Scan# 1357
Delta R.T. 0.02 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion: 57 Resp: 4721

Ion	Ratio	Lower	Upper
57	100		
41	97.4	64.2	104.2
56	60.9	33.5	73.5

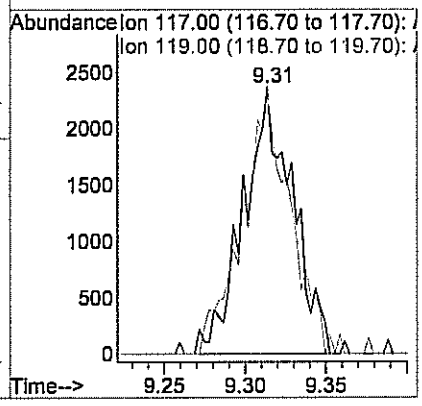


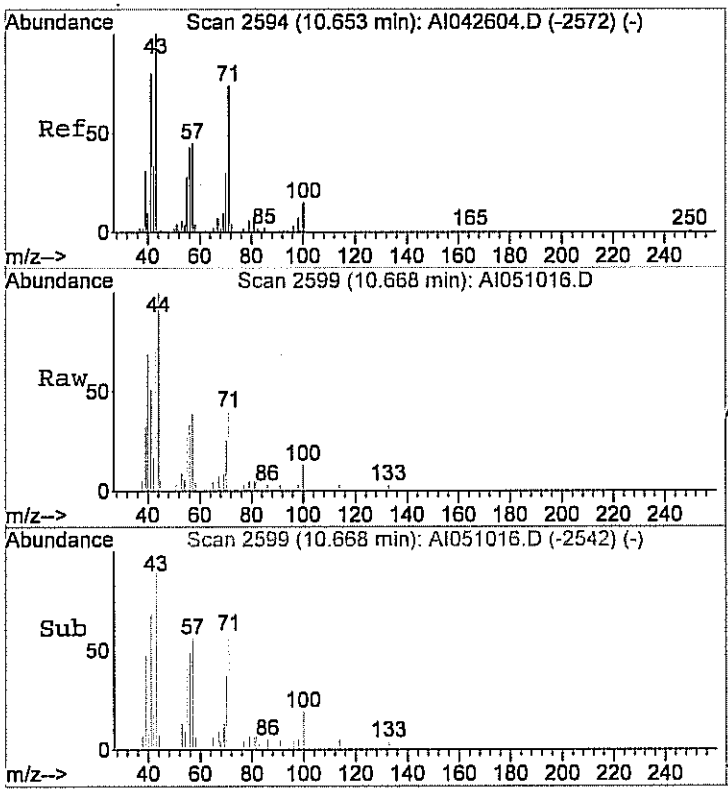


#35
Carbon tetrachloride
Concen: 0.08 ppb
RT: 9.31 min Scan# 2147
Delta R.T. 0.02 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion:117 Resp: 4990

Ion	Ratio	Lower	Upper
117	100		
119	97.2	75.8	115.8

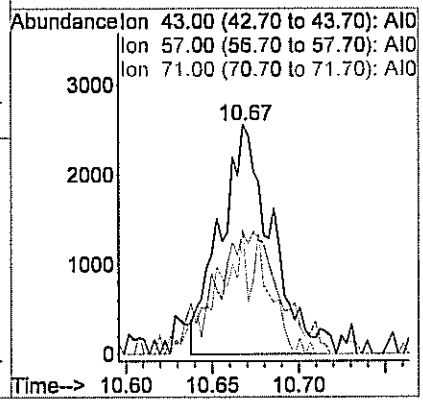


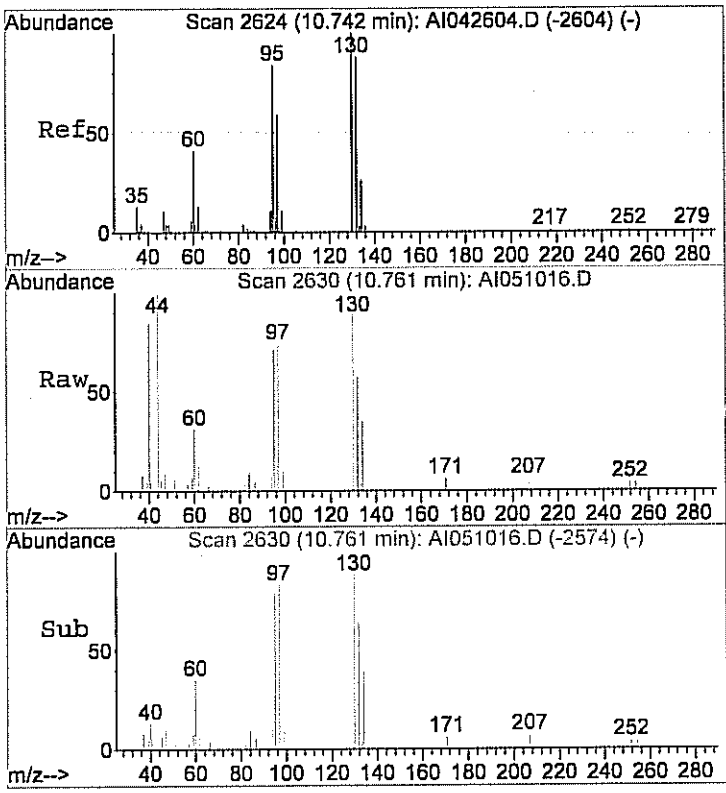


#40
Heptane
Concen: 0.29 ppb
RT: 10.67 min Scan# 2599
Delta R.T. 0.02 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion: 43 Resp: 5280

Ion	Ratio	Lower	Upper
43	100		
57	67.5	35.0	75.0
71	43.0	37.8	77.8

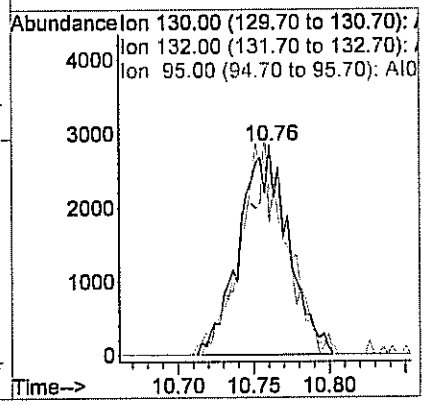


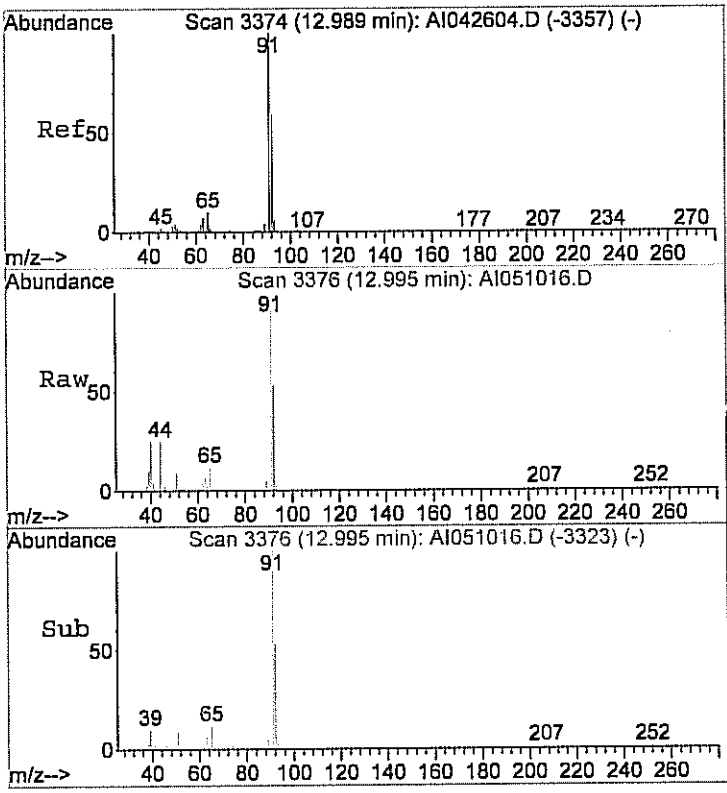


#41
Trichloroethene
Concen: 0.18 ppb
RT: 10.76 min Scan# 2630
Delta R.T. 0.02 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion:130 Resp: 6336

Ion	Ratio	Lower	Upper
130	100		
132	92.6	75.8	115.8
95	95.4	76.8	116.8

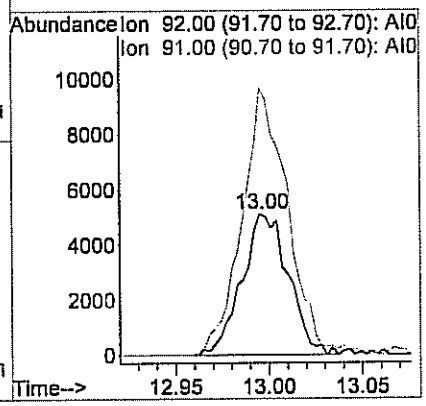




#48
Toluene
Concen: 0.26 ppb
RT: 13.00 min Scan# 3376
Delta R.T. 0.01 min
Lab File: AI051016.D
Acq: 10 May 2011 10:50 pm

Tgt Ion: 92 Resp: 8850

Ion	Ratio	Lower	Upper
92	100		
91	186.2	152.8	192.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051025.D Vial: 29
Acq On : 11 May 2011 4:09 am Operator: RJP
Sample : C1105011-009A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 04:29:53 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

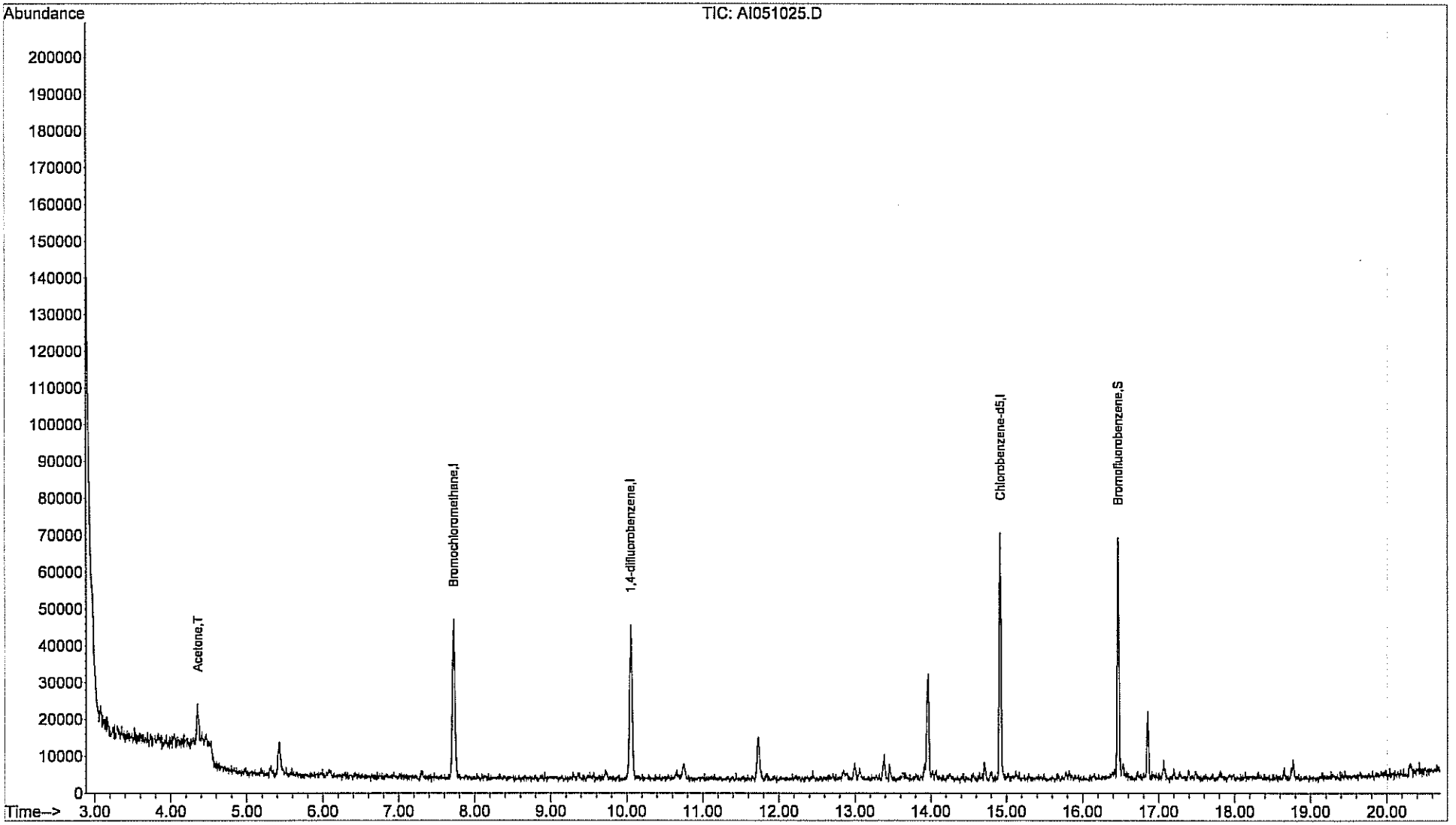
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	15692	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.05	114	42814	1.00	ppb	0.01
47) Chlorobenzene-d5	14.92	117	39086	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	18450	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	3839	0.76	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI051025.D A325_1UG.M Sat Jun 04 14:14:58 2011 MSD1 Page 1

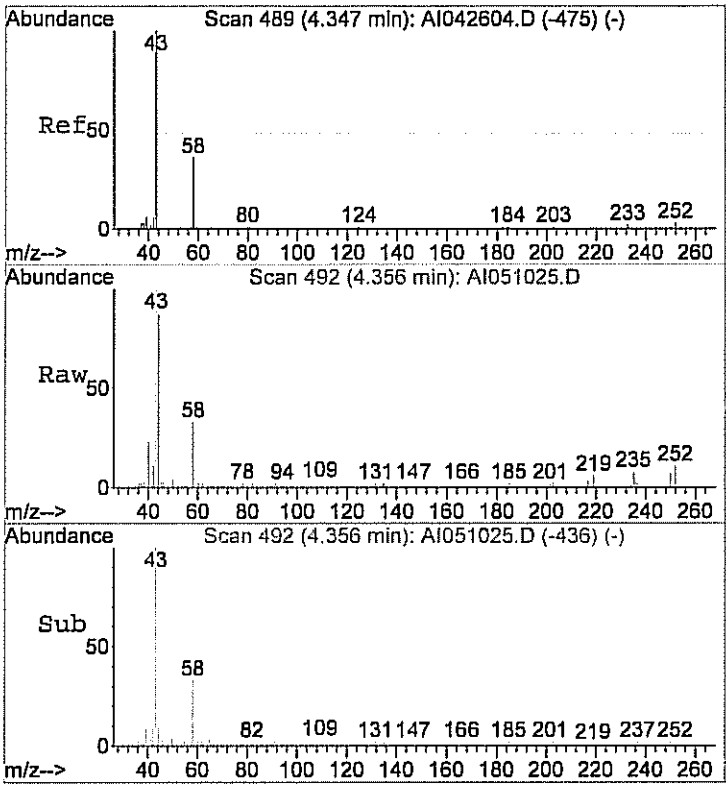
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051025.D Vial: 29
Acq On : 11 May 2011 4:09 am Operator: RJP
Sample : C1105011-009A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:07 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



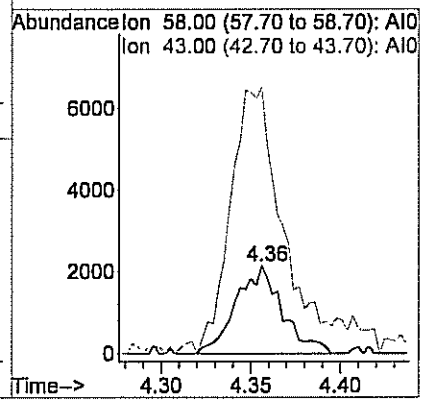
Centek laboratories, LLC



#14
Acetone
Concen: 0.76 ppb
RT: 4.36 min Scan# 492
Delta R.T. 0.02 min
Lab File: AI051025.D
Acq: 11 May 2011 4:09 am

Tgt Ion: 58 Resp: 3839

Ion	Ratio	Lower	Upper
58	100		
43	365.1	333.6	393.6



Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Acetone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 11	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Toluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 4:52:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Acetone	< 0.72	0.72		ug/m3	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 4:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 4:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	5/10/2011 4:52:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 4:52:00 PM
Toluene	< 0.57	0.57		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.22	0.22		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 4:52:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051007.D Vial: 8
Acq On : 10 May 2011 4:52 pm Operator: RJP
Sample : C1105011-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 17:13:29 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

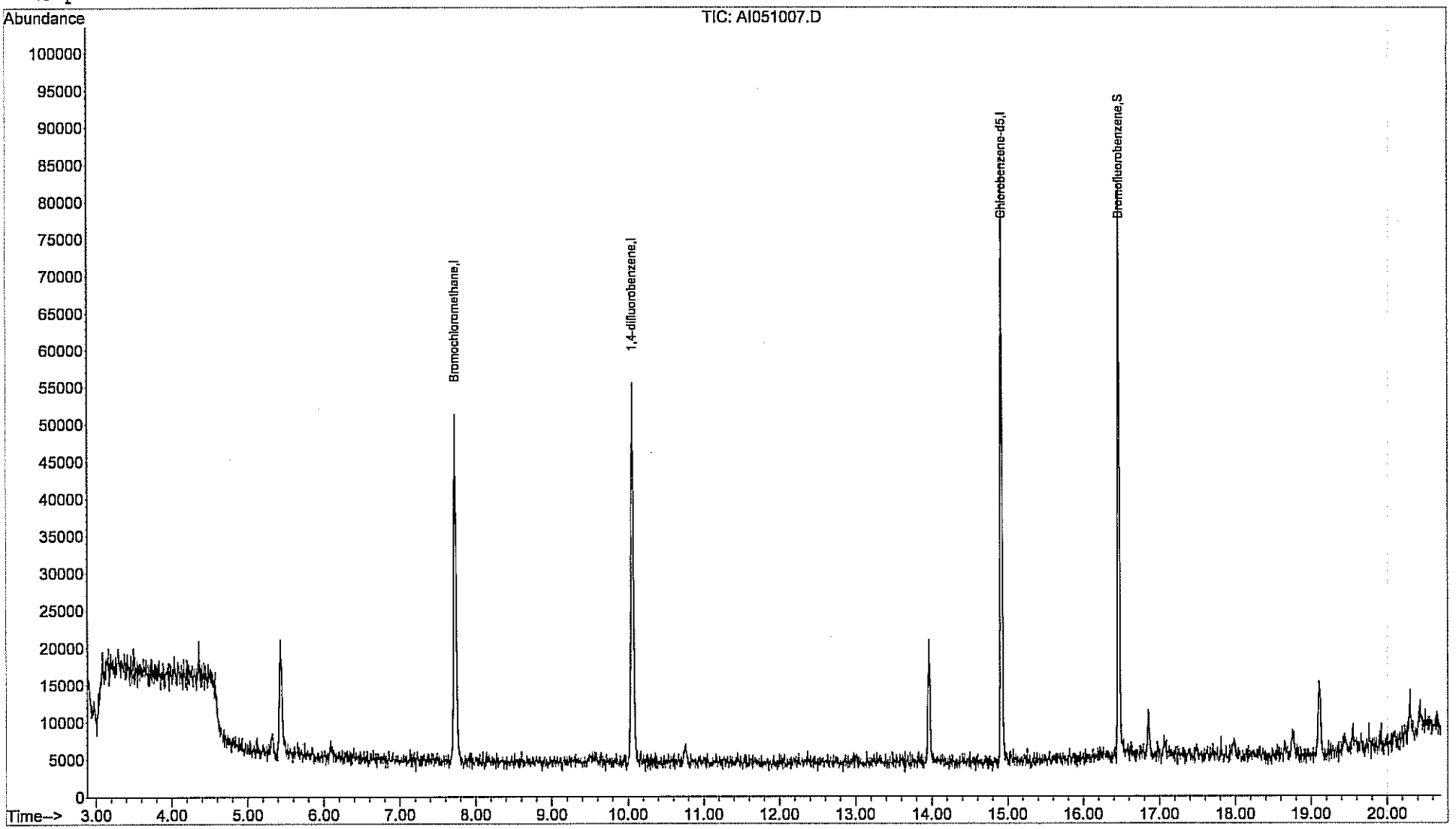
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	16965	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.06	114	51765	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	45521	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	21895	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051007.D Vial: 8
Acq On : 10 May 2011 4:52 pm Operator: RJP
Sample : C1105011-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 9:52 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI032511.D 0.10 =AI032509.D 0.15 =AI032504.D
0.30 =AI032510.D 0.50 =AI032508.D 1.0 =AI032502.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.836	0.756	0.674	0.641	0.688	11.50
3)	T	Freon 12			4.268	4.274	4.266	3.860	4.089	4.44
4)	T	Chloromethane			0.963	0.858	0.967	0.806	0.876	7.27
5)	T	Freon 114			2.984	2.776	2.896	2.463	2.700	7.06
6)	T	Vinyl Chloride		0.968	0.874	0.832	0.884	0.750	0.839	8.20
7)	T	1,3-butadiene			0.676	0.544	0.585	0.507	0.554	11.06
8)	T	Bromomethane			1.236	1.085	1.173	0.989	1.079	8.66
9)	T	Ethanol				0.332	0.270	0.205	0.250	19.64
10)	T	Acrolein				0.281	0.253	0.255	0.255	5.38
11)	T	Chloroethane			0.388	0.353	0.324	0.325	0.336	7.78
12)	T	Vinyl Bromide			0.966	1.073	1.051	0.930	0.994	5.11
13)	T	Freon 11			3.114	2.917	3.019	2.758	2.906	4.25
14)	T	Acetone			0.406	0.313	0.384	0.286	0.323	15.59
15)	T	Isopropyl alcoh			1.024	0.704	0.860	0.535	0.734	23.24
16)	T	1,1-dichloroeth			1.255	1.359	1.345	0.885	1.232	13.06
17)	T	Freon 113			3.150	2.992	3.218	1.986	2.887	14.31
18)	T	Methylene chlor			1.299	1.159	1.270	1.112	1.186	6.36
19)	T	Allyl chloride			0.875	0.871	0.887	0.824	0.872	2.79
20)	T	Carbon disulfid			4.091	3.865	4.069	3.578	3.796	5.72
21)	T	trans-1,2-dichl			1.632	1.750	1.693	1.583	1.662	3.26
22)	T	methyl tert-but			0.970	0.876	0.898	0.896	0.939	5.00
23)	T	1,1-dichloroeth			1.842	1.925	1.945	1.829	1.912	3.07
24)	T	Vinyl acetate			1.358	1.430	1.423	1.496	1.506	8.25
25)	T	Methyl Ethyl Ke				0.389	0.320	0.368	0.366	6.92
26)	T	cis-1,2-dichlor			1.430	1.554	1.535	1.479	1.500	2.86
27)	T	Hexane			1.076	1.092	1.196	1.105	1.152	5.75
28)	T	Ethyl acetate			1.209	1.232	1.208	1.421	1.375	11.41
29)	T	Chloroform			3.056	3.027	3.131	2.963	3.072	2.01
30)	T	Tetrahydrofuran				0.854	0.553	0.746	0.708	14.64
31)	T	1,2-dichloroeth			1.759	1.794	1.819	1.695	1.798	3.07
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			0.812	0.685	0.751	0.697	0.736	5.75
34)	T	Cyclohexane			0.371	0.317	0.373	0.364	0.374	7.90
35)	T	Carbon tetrachl	1.066	1.543	1.226	1.088	1.220	1.080	1.178	12.61
36)	T	Benzene			0.927	0.880	0.962	0.979	0.979	6.59
37)	T	Methyl methacry				0.243	0.229	0.259	0.270	12.75
38)	T	1,4-dioxane				0.129	0.153	0.131	0.146	10.07
39)	T	2,2,4-trimethyl			1.112	0.837	1.039	0.956	0.981	8.65
40)	T	Heptane			0.344	0.318	0.368	0.351	0.360	6.91
41)	T	Trichloroethene	0.560	0.826	0.738	0.644	0.688	0.636	0.679	10.80
42)	T	1,2-dichloropro			0.354	0.315	0.353	0.324	0.345	5.21
43)	T	Bromodichlorome			1.065	1.007	1.067	0.980	1.036	3.63
44)	T	cis-1,3-dichlor			0.375	0.340	0.399	0.395	0.408	11.02
45)	T	trans-1,3-dichl			0.276	0.268	0.270	0.275	0.291	8.42
46)	T	1,1,2-trichloro			0.523	0.523	0.556	0.532	0.545	3.88
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.584	0.542	0.665	0.701	0.695	15.81
49)	T	Methyl Isobutyl				0.256	0.277	0.268	0.321	22.82
50)	T	Dibromochlorome			1.301	1.283	1.421	1.264	1.331	4.07
51)	T	Methyl Butyl Ke				0.192	0.274	0.148	0.202	21.30

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI032511.D 0.10 =AI032509.D 0.15 =AI032504.D
0.30 =AI032510.D 0.50 =AI032508.D 1.0 =AI032502.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
52)	T	1,2-dibromoetha			0.868	0.826	0.976	0.941	0.942	7.51
53)	T	Tetrachloroethy		1.285	0.857	0.768	0.933	0.840	0.898	18.14
54)	T	Chlorobenzene			1.022	0.983	1.184	1.171	1.156	9.70
55)	T	Ethylbenzene			1.044	0.995	1.196	1.412	1.340	20.12
56)	T	m&p-xylene			0.807	0.795	1.013	1.241	1.152	24.48
57)	T	Styrene			0.538	0.393	0.557	0.682	0.644	24.81
58)	T	Bromoform			1.028	0.964	1.143	1.120	1.111	7.55
59)	T	o-xylene			1.068	0.813	1.070	1.365	1.303	25.34
60)	S	Bromofluorobenz	0.478	0.504	0.507	0.568	0.583	0.562	0.550	7.82
61)	T	1,1,2,2-tetrach			0.830	0.783	0.900	0.893	0.890	7.07
62)	T	2-Chlorotoluene			0.885	0.813	1.050	1.175	1.139	21.30
63)	T	4-ethyltoluene			0.747	0.668	0.896	1.168	1.080	29.23
64)	T	1,3,5-trimethyl			0.780	0.695	0.962	1.218	1.116	27.53
65)	T	1,2,4-trimethyl			0.662	0.432	0.622	0.804	0.739	25.29
66)	T	1,3-dichloroben			0.650	0.531	0.752	0.845	0.770	17.88
67)	T	benzyl chloride			0.291	0.199	0.269	0.281	0.262	12.99
68)	T	1,4-dichloroben			0.690	0.555	0.753	0.806	0.764	14.87
69)	T	1,2-dichloroben			0.616	0.491	0.697	0.685	0.669	14.01
70)	T	1,2,4-trichloro			0.191	0.160	0.234	0.179	0.190	14.75
71)	T	Naphthalene			0.254	0.159	0.229	0.163	0.195	20.08
72)	T	Hexachloro-1,3-			0.534	0.396	0.604	0.442	0.475	15.54

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032502.D Vial: 2
Acq On : 25 Mar 2011 12:08 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:26:05 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A324_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	32248	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.87	114	101624	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	87479	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.34	95	49176	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	20661	1.00	ppb		97
3) Freon 12	2.91	85	124465	1.00	ppb		98
4) Chloromethane	3.05	50	25994	1.00	ppb		93
5) Freon 114	3.05	85	79435	1.00	ppb		99
6) Vinyl Chloride	3.18	62	24199	1.00	ppb		98
7) 1,3-butadiene	3.25	39	16353	1.00	ppb		94
8) Bromomethane	3.50	94	31905	1.00	ppb		99
9) Ethanol	3.71	45	6604	0.91	ppb		97
10) Acrolein	4.12	56	8222	1.00	ppb		99
11) Chloroethane	3.62	64	10494	1.00	ppb		95
12) Vinyl Bromide	3.86	106	30000	1.00	ppb		96
13) Freon 11	4.05	101	88952	1.00	ppb		99
14) Acetone	4.22	58	9208	1.01	ppb		94
15) Isopropyl alcohol	4.31	45	17240	1.00	ppb		99
16) 1,1-dichloroethene	4.65	96	28552	1.00	ppb		98
17) Freon 113	4.81	101	64043	1.00	ppb		98
18) Methylene chloride	5.03	84	35857	1.00	ppb		97
19) Allyl chloride	5.02	41	26561	1.00	ppb		99
20) Carbon disulfide	5.15	76	115388	1.00	ppb		100
21) trans-1,2-dichloroethene	5.86	61	51039	1.00	ppb		97
22) methyl tert-butyl ether	5.93	73	28882	1.00	ppb		98
23) 1,1-dichloroethane	6.25	63	58989	1.00	ppb		99
24) Vinyl acetate	6.27	43	48235	1.00	ppb		99
25) Methyl Ethyl Ketone	6.76	72	11876	1.00	ppb	#	100
26) cis-1,2-dichloroethene	7.12	61	47686	1.00	ppb		99
27) Hexane	6.76	57	35624	1.00	ppb		95
28) Ethyl acetate	7.34	43	45821	0.99	ppb		97
29) Chloroform	7.70	83	95551	1.00	ppb		96
30) Tetrahydrofuran	7.91	42	24041m	1.03	ppb		
31) 1,2-dichloroethane	8.78	62	54656	1.00	ppb		99
33) 1,1,1-trichloroethane	8.49	97	70796	1.00	ppb		99
34) Cyclohexane	9.18	56	36970	1.00	ppb		96
35) Carbon tetrachloride	9.11	117	109744	1.00	ppb		99
36) Benzene	9.08	78	99455	1.00	ppb		99
37) Methyl methacrylate	10.93	41	26321	1.00	ppb		96
38) 1,4-dioxane	10.94	88	13277m	1.02	ppb		
39) 2,2,4-trimethylpentane	10.05	57	97106	1.00	ppb		97
40) Heptane	10.48	43	35696	1.00	ppb		97
41) Trichloroethene	10.57	130	64683	1.00	ppb		99
42) 1,2-dichloropropane	10.68	63	32950	1.00	ppb		99
43) Bromodichloromethane	11.08	83	99606	1.00	ppb		96
44) cis-1,3-dichloropropene	12.00	75	40152	1.00	ppb		99
45) trans-1,3-dichloropropene	12.81	75	27992	1.00	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032502.D Vial: 2
Acq On : 25 Mar 2011 12:08 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:26:05 2011 Quant Results File: A325_1UG.RES

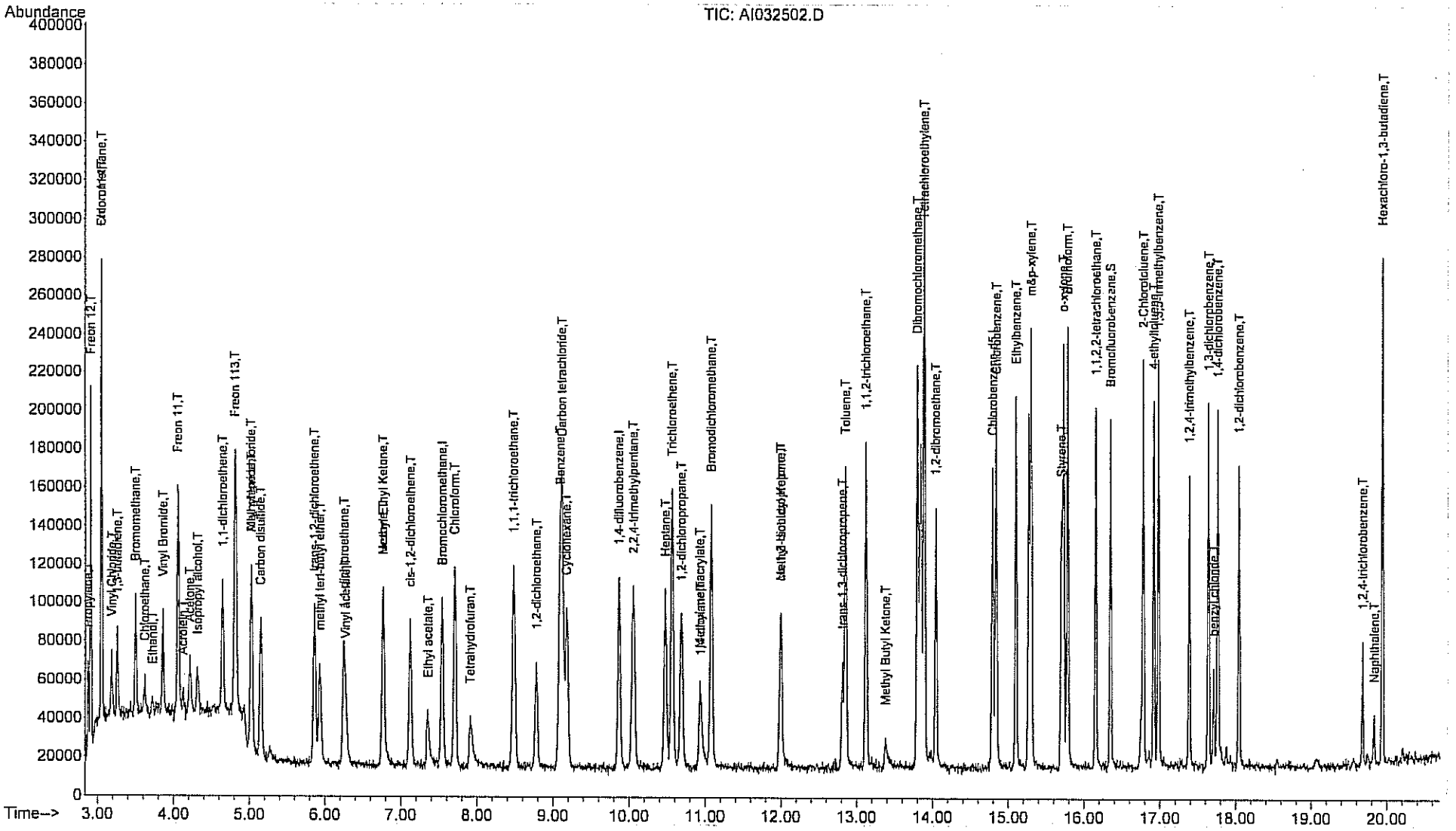
Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A324_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	54106	1.00	ppb	98
48)	Toluene	12.85	92	61350	1.00	ppb	93
49)	Methyl Isobutyl Ketone	11.99	43	23460	1.00	ppb	97
50)	Dibromochloromethane	13.80	129	110533	1.00	ppb	99
51)	Methyl Butyl Ketone	13.37	43	12979	1.00	ppb	94
52)	1,2-dibromoethane	14.04	107	82302	1.00	ppb	98
53)	Tetrachloroethylene	13.88	164	73458	1.00	ppb	98
54)	Chlorobenzene	14.84	112	102416	1.00	ppb	98
55)	Ethylbenzene	15.10	91	123483	1.00	ppb	98
56)	m&p-xylene	15.30	91	217054	2.00	ppb	100
57)	Styrene	15.70	104	59648	1.00	ppb	93
58)	Bromoform	15.78	173	97955	1.00	ppb	99
59)	o-xylene	15.72	91	119376	1.00	ppb	96
61)	1,1,2,2-tetrachloroethane	16.16	83	78081	1.00	ppb	98
62)	2-Chlorotoluene	16.77	91	102803	1.00	ppb	97
63)	4-ethyltoluene	16.92	105	102171	1.00	ppb	99
64)	1,3,5-trimethylbenzene	16.97	105	106571	1.00	ppb	100
65)	1,2,4-trimethylbenzene	17.38	105	70323	1.00	ppb	94
66)	1,3-dichlorobenzene	17.63	146	73911	1.00	ppb	97
67)	benzyl chloride	17.71	91	24620	1.00	ppb	99
68)	1,4-dichlorobenzene	17.76	146	70479	1.00	ppb	97
69)	1,2-dichlorobenzene	18.04	146	59960	1.00	ppb	100
70)	1,2,4-trichlorobenzene	19.68	180	15675	1.00	ppb	97
71)	Naphthalene	19.83	128	14230	1.00	ppb	85
72)	Hexachloro-1,3-butadiene	19.94	225	38670	1.00	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI032502.D Vial: 2
Acq On : 25 Mar 2011 12:08 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:26 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032502.D A325_1UG.M Sat Apr 16 09:52:02 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032503.D Vial: 3
Acq On : 25 Mar 2011 12:42 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:26:23 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	31743	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.86	114	99164	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	86376	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.35	95	52398	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	39968	1.97	ppb		89
3) Freon 12	2.91	85	247638	2.02	ppb		100
4) Chloromethane	3.05	50	52506	2.05	ppb		100
5) Freon 114	3.05	85	162139	2.07	ppb		99
6) Vinyl Chloride	3.18	62	51779	2.17	ppb		100
7) 1,3-butadiene	3.25	39	32822	2.04	ppb		94
8) Bromomethane	3.49	94	62982	2.01	ppb		98
9) Ethanol	3.71	45	14708	2.05	ppb		94
10) Acrolein	4.12	56	15296	1.89	ppb		99
11) Chloroethane	3.61	64	19969	1.93	ppb		94
12) Vinyl Bromide	3.85	106	62781	2.13	ppb		93
13) Freon 11	4.06	101	178342	2.04	ppb		99
14) Acetone	4.21	58	18523	2.07	ppb	#	82
15) Isopropyl alcohol	4.31	45	37370	2.20	ppb		100
16) 1,1-dichloroethene	4.65	96	77939	2.77	ppb		99
17) Freon 113	4.81	101	183050	2.90	ppb		99
18) Methylene chloride	5.03	84	73014	2.07	ppb		97
19) Allyl chloride	5.02	41	56872	2.18	ppb		98
20) Carbon disulfide	5.15	76	227058	2.00	ppb		100
21) trans-1,2-dichloroethene	5.86	61	106968	2.13	ppb		96
22) methyl tert-butyl ether	5.92	73	62815	2.21	ppb		100
23) 1,1-dichloroethane	6.24	63	123499	2.13	ppb		98
24) Vinyl acetate	6.27	43	109586	2.31	ppb		100
25) Methyl Ethyl Ketone	6.76	72	24658	2.11	ppb	#	100
26) cis-1,2-dichloroethene	7.12	61	97312	2.07	ppb		98
27) Hexane	6.76	57	78956	2.25	ppb		97
28) Ethyl acetate	7.34	43	100832	2.22	ppb		97
29) Chloroform	7.70	83	198760	2.11	ppb		100
30) Tetrahydrofuran	7.89	42	46715	2.04	ppb		96
31) 1,2-dichloroethane	8.78	62	116242	2.16	ppb		100
33) 1,1,1-trichloroethane	8.48	97	142375	2.06	ppb		99
34) Cyclohexane	9.18	56	79551	2.21	ppb		97
35) Carbon tetrachloride	9.12	117	224768	2.10	ppb		99
36) Benzene	9.08	78	207645	2.14	ppb		95
37) Methyl methacrylate	10.92	41	64590	2.52	ppb		96
38) 1,4-dioxane	10.92	88	29879m	2.34	ppb		
39) 2,2,4-trimethylpentane	10.05	57	194946	2.06	ppb		100
40) Heptane	10.47	43	77001	2.21	ppb		99
41) Trichloroethene	10.56	130	132919	2.11	ppb		99
42) 1,2-dichloropropane	10.68	63	69794	2.17	ppb		98
43) Bromodichloromethane	11.07	83	202509	2.08	ppb		97
44) cis-1,3-dichloropropene	12.00	75	94412	2.41	ppb		98
45) trans-1,3-dichloropropene	12.81	75	65483	2.40	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032503.D Vial: 3
Acq On : 25 Mar 2011 12:42 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:26:23 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	112385	2.13	ppb	96
48)	Toluene	12.85	92	149320	2.46	ppb	98
49)	Methyl Isobutyl Ketone	11.96	43	63576m	2.74	ppb	
50)	Dibromochloromethane	13.79	129	236980	2.17	ppb	99
51)	Methyl Butyl Ketone	13.37	43	37008m	2.89	ppb	
52)	1,2-dibromoethane	14.04	107	177203	2.18	ppb	99
53)	Tetrachloroethylene	13.88	164	145154	2.00	ppb	98
54)	Chlorobenzene	14.83	112	222954	2.20	ppb	99
55)	Ethylbenzene	15.10	91	298034	2.44	ppb	99
56)	m&p-xylene	15.29	91	519189	4.85	ppb	99
57)	Styrene	15.70	104	151982	2.58	ppb	98
58)	Bromoform	15.78	173	206665	2.14	ppb	99
59)	o-xylene	15.73	91	279978	2.38	ppb	98
61)	1,1,2,2-tetrachloroethane	16.15	83	165781	2.15	ppb	98
62)	2-Chlorotoluene	16.77	91	261366	2.57	ppb	98
63)	4-ethyltoluene	16.92	105	262434	2.60	ppb	100
64)	1,3,5-trimethylbenzene	16.97	105	261449	2.48	ppb	99
65)	1,2,4-trimethylbenzene	17.38	105	176433	2.54	ppb	98
66)	1,3-dichlorobenzene	17.63	146	160913	2.20	ppb	99
67)	benzyl chloride	17.70	91	51465	2.12	ppb	96
68)	1,4-dichlorobenzene	17.76	146	156751	2.25	ppb	100
69)	1,2-dichlorobenzene	18.04	146	137117	2.32	ppb	97
70)	1,2,4-trichlorobenzene	19.68	180	38142	2.46	ppb	99
71)	Naphthalene	19.83	128	38313m	2.73	ppb	
72)	Hexachloro-1,3-butadiene	19.94	225	85267	2.23	ppb	98

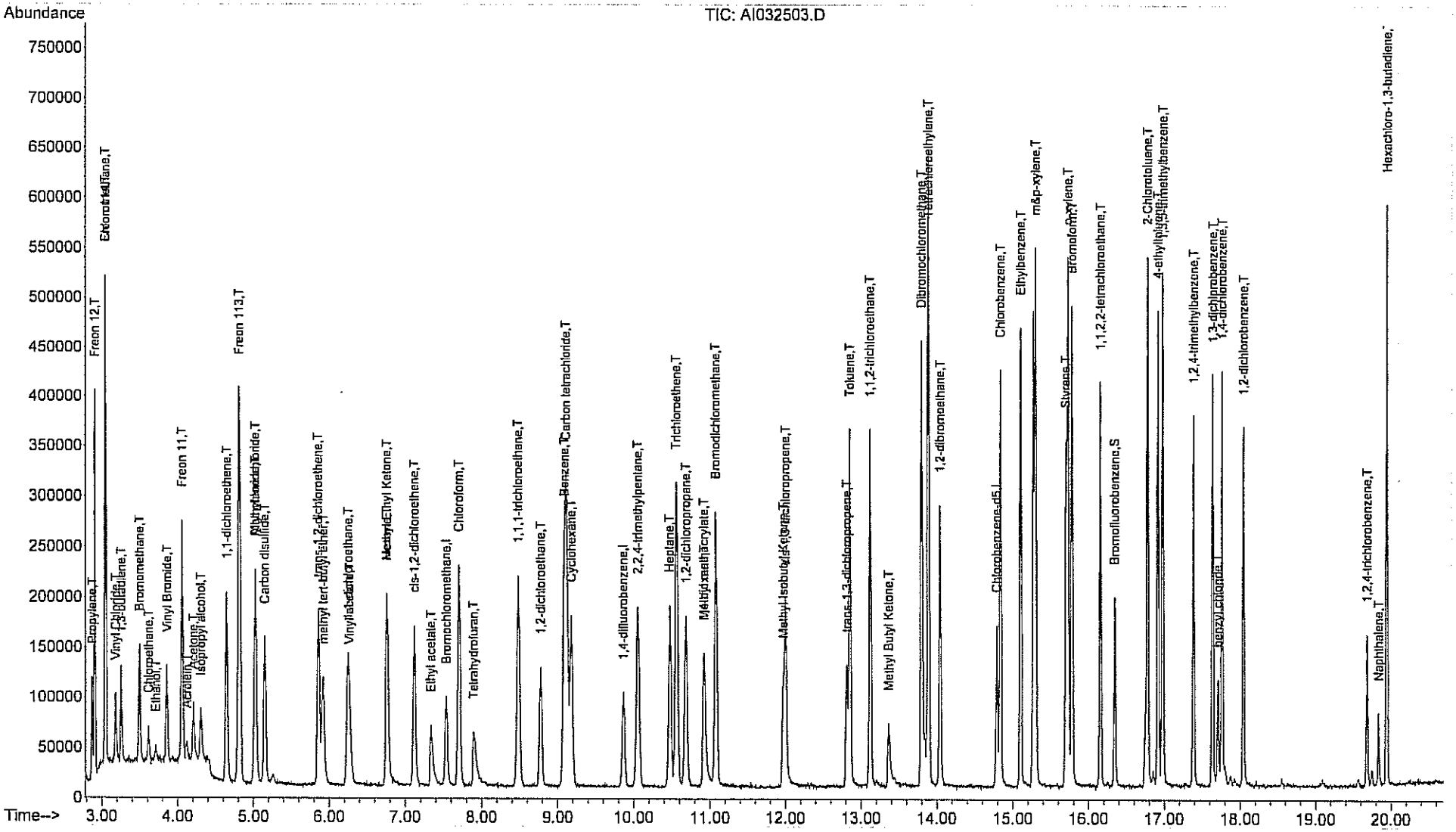
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI032503.D
Acq On : 25 Mar 2011 12:42 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:27 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032503.D A325_1UG.M Sat Apr 16 09:52:05 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032504.D Vial: 4
Acq On : 25 Mar 2011 1:14 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:35:12 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	32467	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.87	114	93072	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	78113	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.34	95	39623	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	4069	0.20	ppb		88
3) Freon 12	2.91	85	20786	0.17	ppb		97
4) Chloromethane	3.05	50	4690	0.18	ppb		83
5) Freon 114	3.05	85	14530	0.18	ppb		98
6) Vinyl Chloride	3.19	62	4255	0.17	ppb		88
7) 1,3-butadiene	3.26	39	3294	0.20	ppb		95
8) Bromomethane	3.50	94	6018	0.19	ppb		89
11) Chloroethane	3.61	64	1888	0.18	ppb		89
12) Vinyl Bromide	3.86	106	4704	0.16	ppb		90
13) Freon 11	4.06	101	15166	0.17	ppb		98
14) Acetone	4.23	58	1977m	0.22	ppb		
15) Isopropyl alcohol	4.31	45	4985	0.29	ppb		91
16) 1,1-dichloroethene	4.64	96	6112	0.21	ppb		98
17) Freon 113	4.82	101	15341	0.24	ppb		98
18) Methylene chloride	5.03	84	6326	0.18	ppb		94
19) Allyl chloride	5.02	41	4259	0.16	ppb		98
20) Carbon disulfide	5.15	76	19924	0.17	ppb		94
21) trans-1,2-dichloroethene	5.86	61	7947	0.15	ppb		97
22) methyl tert-butyl ether	5.93	73	4724	0.16	ppb	#	76
23) 1,1-dichloroethane	6.26	63	8970	0.15	ppb		98
24) Vinyl acetate	6.30	43	6612m	0.14	ppb		
26) cis-1,2-dichloroethene	7.12	61	6963	0.15	ppb		97
27) Hexane	6.77	57	5240	0.15	ppb		88
28) Ethyl acetate	7.40	43	5886m	0.13	ppb		
29) Chloroform	7.70	83	14882	0.15	ppb		99
31) 1,2-dichloroethane	8.77	62	8567	0.16	ppb		99
33) 1,1,1-trichloroethane	8.49	97	11342	0.17	ppb		98
34) Cyclohexane	9.19	56	5176	0.15	ppb	#	74
35) Carbon tetrachloride	9.11	117	17119	0.17	ppb		95
36) Benzene	9.08	78	12938	0.14	ppb		99
39) 2,2,4-trimethylpentane	10.06	57	15519	0.17	ppb		97
40) Heptane	10.47	43	4808	0.15	ppb		96
41) Trichloroethene	10.57	130	10305	0.17	ppb		92
42) 1,2-dichloropropane	10.68	63	4946	0.16	ppb		89
43) Bromodichloromethane	11.08	83	14874	0.16	ppb		94
44) cis-1,3-dichloropropene	12.00	75	5238	0.14	ppb		91
45) trans-1,3-dichloropropene	12.81	75	3854	0.15	ppb		87
46) 1,1,2-trichloroethane	13.12	97	7303	0.15	ppb		92
48) Toluene	12.85	92	6846	0.12	ppb		98
50) Dibromochloromethane	13.80	129	15249	0.15	ppb		97
52) 1,2-dibromoethane	14.04	107	10173	0.14	ppb		100
53) Tetrachloroethylene	13.89	164	10041	0.15	ppb		96
54) Chlorobenzene	14.83	112	11979	0.13	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032504.D Vial: 4
Acq On : 25 Mar 2011 1:14 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 13:35:12 2011 Quant Results File: A325_1UG.RES

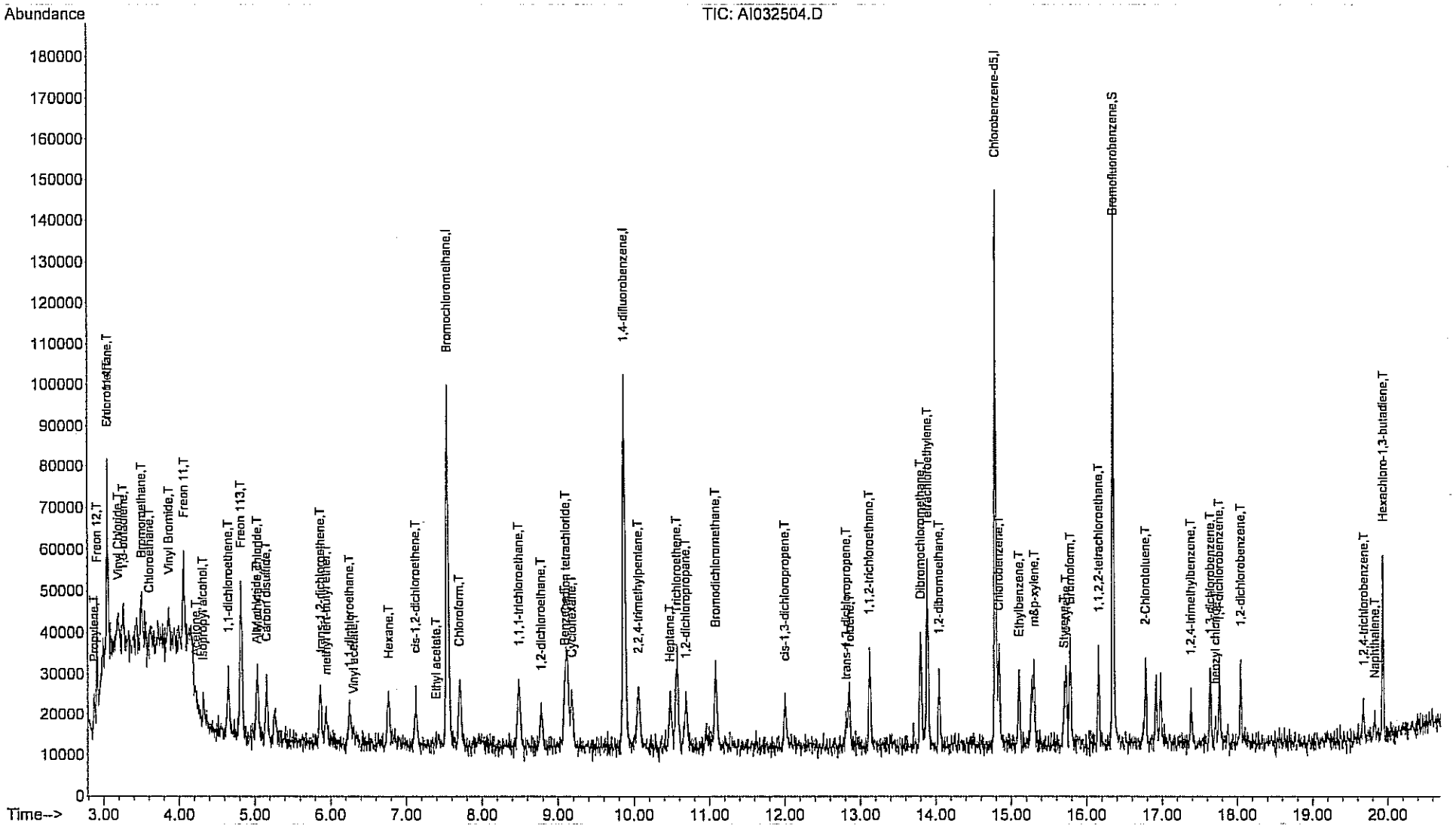
Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
55)	Ethylbenzene	15.10	91	12227	0.11	ppb	100
56)	m&p-xylene	15.30	91	18907	0.20	ppb	95
57)	Styrene	15.70	104	6307m	0.12	ppb	
58)	Bromoform	15.78	173	12043	0.14	ppb	96
59)	o-xylene	15.72	91	12519m	0.12	ppb	
61)	1,1,2,2-tetrachloroethane	16.15	83	9723	0.14	ppb	99
62)	2-Chlorotoluene	16.78	91	10375	0.11	ppb	93
65)	1,2,4-trimethylbenzene	17.38	105	7755m	0.12	ppb	
66)	1,3-dichlorobenzene	17.63	146	7611	0.12	ppb	94
67)	benzyl chloride	17.71	91	3405	0.15	ppb	95
68)	1,4-dichlorobenzene	17.75	146	8087	0.13	ppb	95
69)	1,2-dichlorobenzene	18.04	146	7221	0.13	ppb	94
70)	1,2,4-trichlorobenzene	19.67	180	2235	0.16	ppb	81
71)	Naphthalene	19.82	128	2979m	0.23	ppb	
72)	Hexachloro-1,3-butadiene	19.93	225	6261	0.18	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI032504.D Vial: 4
Acq On : 25 Mar 2011 1:14 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:29 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032504.D A325_1UG.M Sat Apr 16 09:52:08 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032505.D Vial: 1
Acq On : 25 Mar 2011 1:48 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 14:09:10 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.54	128	31755	1.00	ppb	0.00
32) 1,4-difluorobenzene	9.86	114	95013	1.00	ppb	0.00
47) Chlorobenzene-d5	14.79	117	86422	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.34	95	50081	1.03	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	29693	1.46	ppb	89
3) Freon 12	2.91	85	189497	1.55	ppb	97
4) Chloromethane	3.05	50	40626	1.59	ppb	99
5) Freon 114	3.05	85	123148	1.57	ppb	98
6) Vinyl Chloride	3.18	62	36936	1.55	ppb	97
7) 1,3-butadiene	3.25	39	23815	1.48	ppb	98
8) Bromomethane	3.50	94	48855	1.56	ppb	98
9) Ethanol	3.71	45	9587m	1.34	ppb	
10) Acrolein	4.12	56	11748	1.45	ppb	95
11) Chloroethane	3.61	64	15243	1.48	ppb	98
12) Vinyl Bromide	3.85	106	45816	1.55	ppb	98
13) Freon 11	4.06	101	135927	1.55	ppb	97
14) Acetone	4.21	58	13976	1.56	ppb	87
15) Isopropyl alcohol	4.31	45	30299m	1.78	ppb	
16) 1,1-dichloroethene	4.64	96	59217	2.11	ppb	99
17) Freon 113	4.81	101	141049	2.24	ppb	99
18) Methylene chloride	5.03	84	52647	1.49	ppb	96
19) Allyl chloride	5.02	41	42418	1.62	ppb	95
20) Carbon disulfide	5.15	76	174884	1.54	ppb	100
21) trans-1,2-dichloroethene	5.86	61	77510	1.54	ppb	99
22) methyl tert-butyl ether	5.93	73	46690	1.64	ppb	97
23) 1,1-dichloroethane	6.24	63	90755	1.56	ppb	100
24) Vinyl acetate	6.28	43	76351	1.61	ppb	100
25) Methyl Ethyl Ketone	6.76	72	17063m	1.46	ppb	
26) cis-1,2-dichloroethene	7.12	61	70767	1.51	ppb	98
27) Hexane	6.77	57	54100	1.54	ppb	94
28) Ethyl acetate	7.35	43	69462	1.53	ppb	99
29) Chloroform	7.70	83	148355	1.58	ppb	100
30) Tetrahydrofuran	7.90	42	34626m	1.51	ppb	
31) 1,2-dichloroethane	8.78	62	86910	1.61	ppb	98
33) 1,1,1-trichloroethane	8.48	97	106425	1.61	ppb	99
34) Cyclohexane	9.18	56	57525	1.66	ppb	99
35) Carbon tetrachloride	9.12	117	163229	1.59	ppb	98
36) Benzene	9.08	78	151793	1.63	ppb	96
37) Methyl methacrylate	10.92	41	40826	1.66	ppb	94
38) 1,4-dioxane	10.94	88	21018m	1.72	ppb	
39) 2,2,4-trimethylpentane	10.06	57	142031	1.56	ppb	99
40) Heptane	10.48	43	55148	1.65	ppb	96
41) Trichloroethene	10.56	130	97970	1.62	ppb	99
42) 1,2-dichloropropane	10.68	63	52098	1.69	ppb	95
43) Bromodichloromethane	11.08	83	154642	1.66	ppb	100
44) cis-1,3-dichloropropene	12.00	75	63037	1.68	ppb	98
45) trans-1,3-dichloropropene	12.81	75	44681	1.71	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032505.D Vial: 1
Acq On : 25 Mar 2011 1:48 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 14:09:10 2011 Quant Results File: A325_1UG.RES

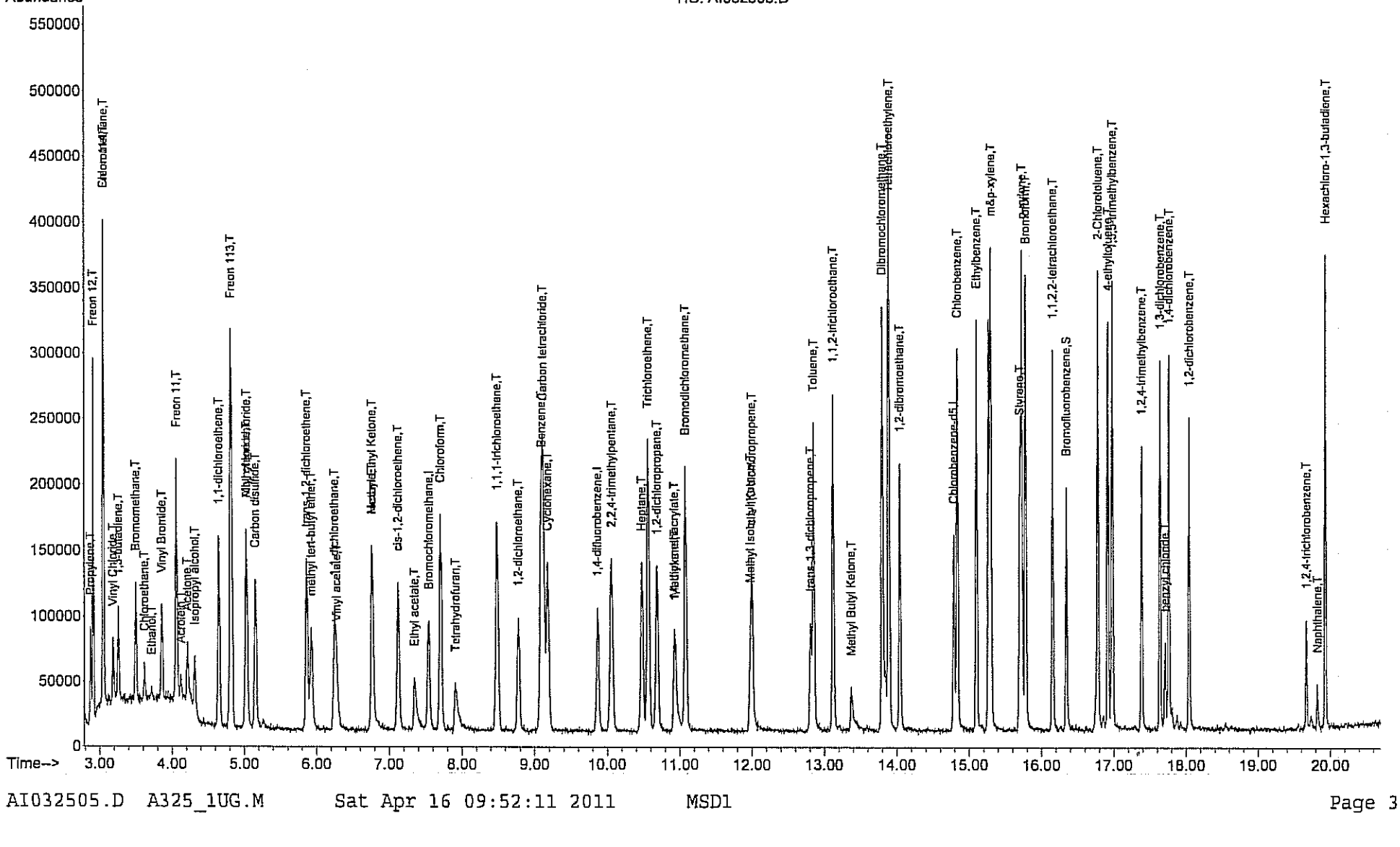
Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	82097	1.62	ppb	96
48)	Toluene	12.85	92	97780	1.61	ppb	96
49)	Methyl Isobutyl Ketone	11.97	43	40298m	1.74	ppb	
50)	Dibromochloromethane	13.79	129	173377	1.59	ppb	99
51)	Methyl Butyl Ketone	13.37	43	22390m	1.75	ppb	
52)	1,2-dibromoethane	14.04	107	128351	1.58	ppb	98
53)	Tetrachloroethylene	13.89	164	105701	1.46	ppb	100
54)	Chlorobenzene	14.84	112	158337	1.56	ppb	98
55)	Ethylbenzene	15.10	91	197057	1.62	ppb	100
56)	m&p-xylene	15.29	91	355390	3.31	ppb	98
57)	Styrene	15.70	104	94575	1.60	ppb	96
58)	Bromoform	15.78	173	150045	1.55	ppb	100
59)	o-xylene	15.73	91	223095	1.89	ppb	89
61)	1,1,2,2-tetrachloroethane	16.15	83	121889	1.58	ppb	96
62)	2-Chlorotoluene	16.78	91	166002	1.63	ppb	99
63)	4-ethyltoluene	16.91	105	169847	1.68	ppb	100
64)	1,3,5-trimethylbenzene	16.98	105	172275	1.64	ppb	98
65)	1,2,4-trimethylbenzene	17.38	105	106723	1.54	ppb	97
66)	1,3-dichlorobenzene	17.63	146	108795	1.49	ppb	98
67)	benzyl chloride	17.71	91	31635	1.30	ppb	96
68)	1,4-dichlorobenzene	17.76	146	105034	1.51	ppb	97
69)	1,2-dichlorobenzene	18.04	146	90696	1.53	ppb	99
70)	1,2,4-trichlorobenzene	19.67	180	21242	1.37	ppb	98
71)	Naphthalene	19.82	128	21170	1.51	ppb	75
72)	Hexachloro-1,3-butadiene	19.93	225	54062	1.42	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI032505.D Vial: 1
Acq On : 25 Mar 2011 1:48 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:48 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032505.D A325_1UG.M Sat Apr 16 09:52:11 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032506.D Vial: 2
Acq On : 25 Mar 2011 2:21 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 14:42:42 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	31982	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.87	114	101538	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	87884	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.34	95	49131	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	26166	1.28	ppb		97
3) Freon 12	2.91	85	162892	1.32	ppb		98
4) Chloromethane	3.05	50	34301	1.33	ppb		95
5) Freon 114	3.05	85	105719	1.34	ppb		99
6) Vinyl Chloride	3.18	62	32428	1.35	ppb		100
7) 1,3-butadiene	3.26	39	21998	1.36	ppb		94
8) Bromomethane	3.49	94	42181	1.33	ppb		97
9) Ethanol	3.71	45	10412	1.44	ppb		97
10) Acrolein	4.12	56	10066	1.23	ppb		96
11) Chloroethane	3.61	64	12919	1.24	ppb		97
12) Vinyl Bromide	3.86	106	39371	1.32	ppb		98
13) Freon 11	4.05	101	114773	1.30	ppb		98
14) Acetone	4.21	58	11499	1.27	ppb	#	81
15) Isopropyl alcohol	4.31	45	31724	1.86	ppb		99
16) 1,1-dichloroethene	4.65	96	52260	1.85	ppb		97
17) Freon 113	4.81	101	120649	1.90	ppb		99
18) Methylene chloride	5.03	84	48138	1.35	ppb		97
19) Allyl chloride	5.02	41	34524	1.31	ppb		99
20) Carbon disulfide	5.15	76	148753	1.30	ppb		99
21) trans-1,2-dichloroethene	5.86	61	66620	1.32	ppb		98
22) methyl tert-butyl ether	5.92	73	38400	1.34	ppb		98
23) 1,1-dichloroethane	6.25	63	79643	1.36	ppb		99
24) Vinyl acetate	6.28	43	60296	1.26	ppb		99
25) Methyl Ethyl Ketone	6.77	72	14939	1.27	ppb	#	100
26) cis-1,2-dichloroethene	7.12	61	59366	1.26	ppb		100
27) Hexane	6.76	57	48634	1.38	ppb		99
28) Ethyl acetate	7.34	43	60205	1.31	ppb		97
29) Chloroform	7.71	83	123174	1.30	ppb		99
30) Tetrahydrofuran	7.91	42	25225	1.09	ppb		91
31) 1,2-dichloroethane	8.77	62	74380	1.37	ppb		98
33) 1,1,1-trichloroethane	8.48	97	94018	1.33	ppb		99
34) Cyclohexane	9.17	56	49526	1.34	ppb	#	75
35) Carbon tetrachloride	9.12	117	140015	1.28	ppb		99
36) Benzene	9.09	78	126188	1.27	ppb		99
37) Methyl methacrylate	10.93	41	35309	1.35	ppb		99
38) 1,4-dioxane	10.94	88	21343m	1.64	ppb		
39) 2,2,4-trimethylpentane	10.06	57	120240	1.24	ppb		99
40) Heptane	10.48	43	45720	1.28	ppb		96
41) Trichloroethene	10.56	130	83568	1.29	ppb		99
42) 1,2-dichloropropane	10.68	63	44006	1.34	ppb		96
43) Bromodichloromethane	11.07	83	130411	1.31	ppb		99
44) cis-1,3-dichloropropene	12.00	75	54261	1.35	ppb		98
45) trans-1,3-dichloropropene	12.81	75	38260	1.37	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032506.D Vial: 2
Acq On : 25 Mar 2011 2:21 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 14:42:42 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

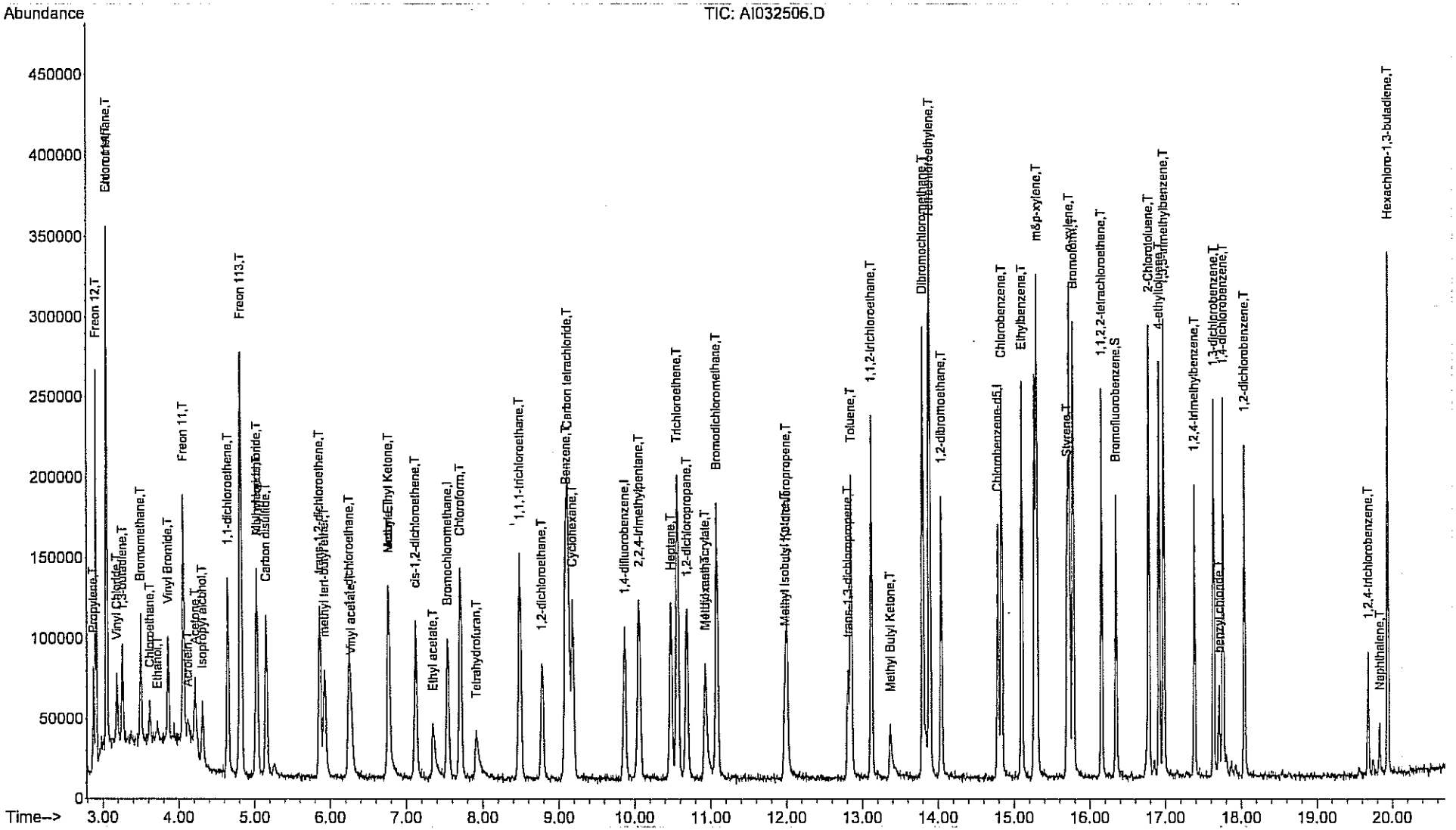
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	68579	1.27	ppb	95
48)	Toluene	12.85	92	83122	1.35	ppb	98
49)	Methyl Isobutyl Ketone	11.97	43	48998	2.08	ppb	97
50)	Dibromochloromethane	13.79	129	147060	1.32	ppb	100
51)	Methyl Butyl Ketone	13.37	43	22995m	1.76	ppb	
52)	1,2-dibromoethane	14.04	107	106367	1.29	ppb	99
53)	Tetrachloroethylene	13.88	164	92740	1.26	ppb	96
54)	Chlorobenzene	14.83	112	134096	1.30	ppb	99
55)	Ethylbenzene	15.10	91	163575	1.32	ppb	97
56)	m&p-xylene	15.30	91	292762	2.69	ppb	98
57)	Styrene	15.70	104	80283	1.34	ppb	96
58)	Bromoform	15.78	173	128169	1.30	ppb	98
59)	o-xylene	15.72	91	160448	1.34	ppb	99
61)	1,1,2,2-tetrachloroethane	16.15	83	101554	1.29	ppb	98
62)	2-Chlorotoluene	16.78	91	137923	1.34	ppb	100
63)	4-ethyltoluene	16.91	105	137309	1.34	ppb	99
64)	1,3,5-trimethylbenzene	16.98	105	144321	1.35	ppb	100
65)	1,2,4-trimethylbenzene	17.38	105	88719	1.26	ppb	100
66)	1,3-dichlorobenzene	17.63	146	92479	1.25	ppb	98
67)	benzyl chloride	17.71	91	27727	1.12	ppb	99
68)	1,4-dichlorobenzene	17.76	146	90662	1.28	ppb	96
69)	1,2-dichlorobenzene	18.04	146	76805	1.28	ppb	99
70)	1,2,4-trichlorobenzene	19.67	180	19627	1.25	ppb	95
71)	Naphthalene	19.83	128	19148	1.34	ppb	78
72)	Hexachloro-1,3-butadiene	19.93	225	47969	1.23	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032506.D Vial: 2
Acq On : 25 Mar 2011 2:21 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:49 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032506.D A325_1UG.M Sat Apr 16 09:52:14 2011 MSD1 Page 3

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032508.D Vial: 4
Acq On : 25 Mar 2011 3:27 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:48:31 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	32765	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.87	114	98329	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	83236	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.34	95	48522	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	11042	0.53	ppb		80
3) Freon 12	2.91	85	69882	0.55	ppb		98
4) Chloromethane	3.05	50	15846	0.60	ppb		92
5) Freon 114	3.05	85	47438	0.59	ppb		97
6) Vinyl Chloride	3.18	62	14484	0.59	ppb		100
7) 1,3-butadiene	3.26	39	9576	0.58	ppb		99
8) Bromomethane	3.50	94	19216	0.59	ppb		98
9) Ethanol	3.72	45	4424m p	0.60	ppb		
10) Acrolein	4.13	56	4140	0.50	ppb		98
11) Chloroethane	3.62	64	5316	0.50	ppb		98
12) Vinyl Bromide	3.86	106	17218	0.56	ppb		100
13) Freon 11	4.06	101	49463	0.55	ppb		95
14) Acetone	4.22	58	6294	0.68	ppb		85
15) Isopropyl alcohol	4.32	45	14096	0.80	ppb		90
16) 1,1-dichloroethene	4.65	96	22027	0.76	ppb		99
17) Freon 113	4.81	101	52722	0.81	ppb		97
18) Methylene chloride	5.03	84	20804	0.57	ppb		96
19) Allyl chloride	5.02	41	14538	0.54	ppb		97
20) Carbon disulfide	5.16	76	66657	0.57	ppb		98
21) trans-1,2-dichloroethene	5.86	61	27743	0.53	ppb		98
22) methyl tert-butyl ether	5.93	73	14714	0.50	ppb		94
23) 1,1-dichloroethane	6.25	63	31866	0.53	ppb		100
24) Vinyl acetate	6.29	43	23307m o	0.48	ppb		
25) Methyl Ethyl Ketone	6.80	72	5249	0.44	ppb	#	100
26) cis-1,2-dichloroethene	7.13	61	25153	0.52	ppb		99
27) Hexane	6.77	57	19590	0.54	ppb		91
28) Ethyl acetate	7.37	43	19785	0.42	ppb		95
29) Chloroform	7.71	83	51292	0.53	ppb		97
30) Tetrahydrofuran	7.93	42	9066	0.38	ppb		89
31) 1,2-dichloroethane	8.78	62	29804	0.54	ppb		99
33) 1,1,1-trichloroethane	8.49	97	36933	0.54	ppb		99
34) Cyclohexane	9.18	56	18344	0.51	ppb	#	76
35) Carbon tetrachloride	9.12	117	59966	0.56	ppb		99
36) Benzene	9.09	78	47276	0.49	ppb		94
37) Methyl methacrylate	10.94	41	11270	0.44	ppb	#	87
38) 1,4-dioxane	10.98	88	7513m h	0.59	ppb		
39) 2,2,4-trimethylpentane	10.05	57	51059	0.54	ppb		97
40) Heptane	10.48	43	18093	0.52	ppb		95
41) Trichloroethene	10.56	130	33821	0.54	ppb		98
42) 1,2-dichloropropane	10.69	63	17377	0.55	ppb		99
43) Bromodichloromethane	11.08	83	52455	0.54	ppb		98
44) cis-1,3-dichloropropene	12.00	75	19627	0.51	ppb		94
45) trans-1,3-dichloropropene	12.81	75	13284	0.49	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032508.D Vial: 4
Acq On : 25 Mar 2011 3:27 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:48:31 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

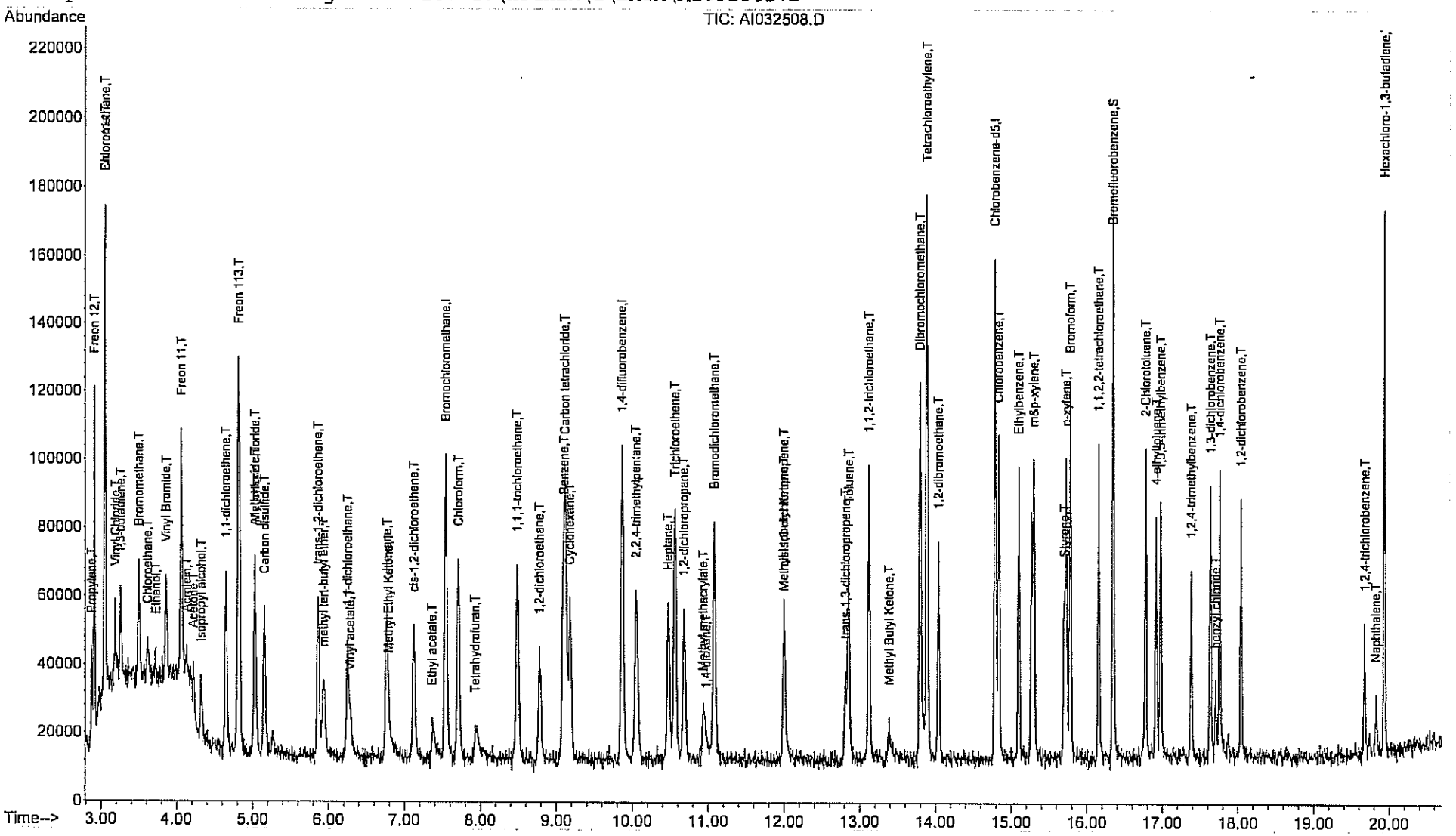
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	27350	0.52	ppb	93
48)	Toluene	12.85	92	27672	0.47	ppb	99
49)	Methyl Isobutyl Ketone	11.98	43	11535	0.52	ppb	85
50)	Dibromochloromethane	13.80	129	59137	0.56	ppb	98
51)	Methyl Butyl Ketone	13.38	43	11410m	0.92	ppb	
52)	1,2-dibromoethane	14.04	107	40626	0.52	ppb	98
53)	Tetrachloroethylene	13.89	164	38812	0.56	ppb	95
54)	Chlorobenzene	14.83	112	49257	0.51	ppb	97
55)	Ethylbenzene	15.10	91	49757	0.42	ppb	98
56)	m&p-xylene	15.29	91	84340	0.82	ppb	97
57)	Styrene	15.70	104	23190	0.41	ppb	93
58)	Bromoform	15.78	173	47557	0.51	ppb	100
59)	o-xylene	15.72	91	44513	0.39	ppb	99
61)	1,1,2,2-tetrachloroethane	16.15	83	37449	0.50	ppb	98
62)	2-Chlorotoluene	16.77	91	43705	0.45	ppb	98
63)	4-ethyltoluene	16.92	105	37288	0.38	ppb	99
64)	1,3,5-trimethylbenzene	16.97	105	40041	0.39	ppb	93
65)	1,2,4-trimethylbenzene	17.38	105	25871	0.39	ppb	96
66)	1,3-dichlorobenzene	17.63	146	31294	0.44	ppb	97
67)	benzyl chloride	17.71	91	11181	0.48	ppb	97
68)	1,4-dichlorobenzene	17.76	146	31337	0.47	ppb	100
69)	1,2-dichlorobenzene	18.04	146	28999	0.51	ppb	96
70)	1,2,4-trichlorobenzene	19.67	180	9730	0.65	ppb	98
71)	Naphthalene	19.83	128	9523	0.70	ppb	88
72)	Hexachloro-1,3-butadiene	19.93	225	25137	0.68	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI032508.D
Acq On : 25 Mar 2011 3:27 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Mar 25 15:50 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



AI032508.D A325_1UG.M Sat Apr 16 09:52:17 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032509.D Vial: 5
Acq On : 25 Mar 2011 4:00 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 16:21:08 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

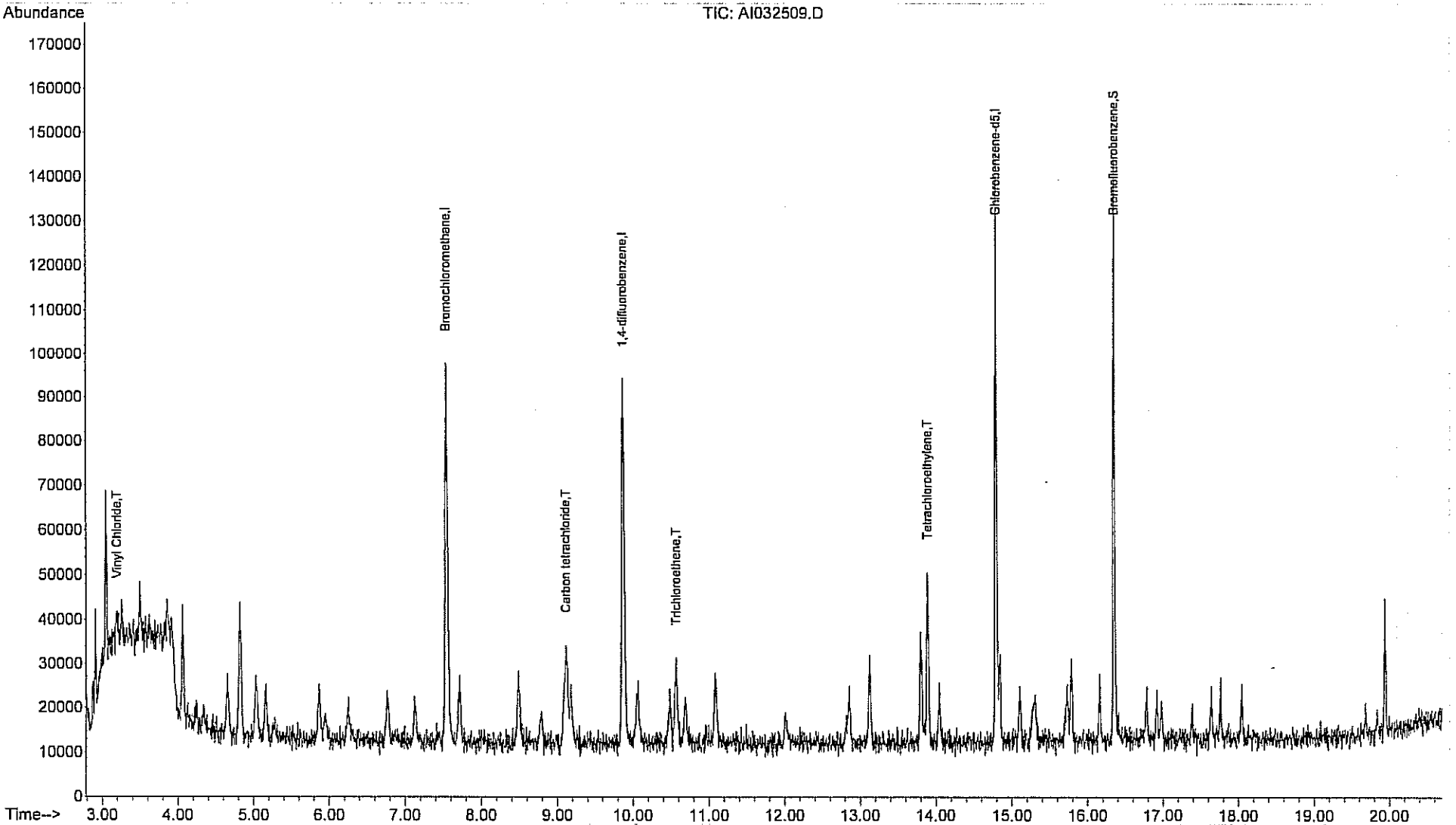
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.54	128	31534	1.00	ppb	0.00
32) 1,4-difluorobenzene	9.87	114	92326	1.00	ppb	0.00
47) Chlorobenzene-d5	14.79	117	72212	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.35	95	36423	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.18	62	3052m	0.13	ppb	
35) Carbon tetrachloride	9.12	117	14248	0.14	ppb	99
41) Trichloroethene	10.57	130	7626	0.13	ppb	99
53) Tetrachloroethylene	13.89	164	9278	0.15	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032509.D Vial: 5
Acq On : 25 Mar 2011 4:00 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 17:27 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032510.D Vial: 6
Acq On : 25 Mar 2011 4:33 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 16:54:37 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	32105	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.87	114	101527	1.00	ppb		0.00
47) Chlorobenzene-d5	14.79	117	88200	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.34	95	50092	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	7282	0.35	ppb		93
3) Freon 12	2.91	85	41161	0.33	ppb		100
4) Chloromethane	3.05	50	8265	0.32	ppb		87
5) Freon 114	3.05	85	26734	0.34	ppb		94
6) Vinyl Chloride	3.18	62	8009	0.33	ppb		91
7) 1,3-butadiene	3.26	39	5235	0.32	ppb		94
8) Bromomethane	3.50	94	10446	0.33	ppb		97
9) Ethanol	3.71	45	3202m	0.44	ppb		
10) Acrolein	4.12	56	2703m	0.33	ppb		
11) Chloroethane	3.62	64	3402	0.33	ppb		90
12) Vinyl Bromide	3.86	106	10334	0.35	ppb		91
13) Freon 11	4.06	101	28099	0.32	ppb		96
14) Acetone	4.22	58	3017	0.33	ppb		97
15) Isopropyl alcohol	4.32	45	6777	0.39	ppb		96
16) 1,1-dichloroethene	4.64	96	13087	0.46	ppb		95
17) Freon 113	4.82	101	28813	0.45	ppb		99
18) Methylene chloride	5.03	84	11164	0.31	ppb		97
19) Allyl chloride	5.02	41	8389	0.32	ppb		95
20) Carbon disulfide	5.15	76	37230	0.32	ppb		98
21) trans-1,2-dichloroethene	5.86	61	16853	0.33	ppb		94
22) methyl tert-butyl ether	5.94	73	8434	0.29	ppb	#	15
23) 1,1-dichloroethane	6.25	63	18536	0.32	ppb		95
24) Vinyl acetate	6.28	43	13771m	0.29	ppb		
25) Methyl Ethyl Ketone	6.80	72	3742m	0.32	ppb		
26) cis-1,2-dichloroethene	7.12	61	14965	0.32	ppb		95
27) Hexane	6.77	57	10521	0.30	ppb		91
28) Ethyl acetate	7.37	43	11869	0.26	ppb		94
29) Chloroform	7.70	83	29156	0.31	ppb		96
30) Tetrahydrofuran	7.93	42	8224m	0.36	ppb		
31) 1,2-dichloroethane	8.79	62	17279	0.32	ppb		97
33) 1,1,1-trichloroethane	8.48	97	20849	0.29	ppb		97
34) Cyclohexane	9.17	56	9653	0.26	ppb	#	74
35) Carbon tetrachloride	9.12	117	33129	0.30	ppb		99
36) Benzene	9.09	78	26817	0.27	ppb		94
37) Methyl methacrylate	10.95	41	7408m	0.28	ppb		
38) 1,4-dioxane	11.01	88	3926m	0.30	ppb		
39) 2,2,4-trimethylpentane	10.06	57	25484	0.26	ppb		93
40) Heptane	10.48	43	9674	0.27	ppb		98
41) Trichloroethene	10.56	130	19603	0.30	ppb		94
42) 1,2-dichloropropane	10.69	63	9609	0.29	ppb		96
43) Bromodichloromethane	11.08	83	30667	0.31	ppb		99
44) cis-1,3-dichloropropene	12.00	75	10358	0.26	ppb		100
45) trans-1,3-dichloropropene	12.81	75	8150	0.29	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032510.D Vial: 6
Acq On : 25 Mar 2011 4:33 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 16:54:37 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

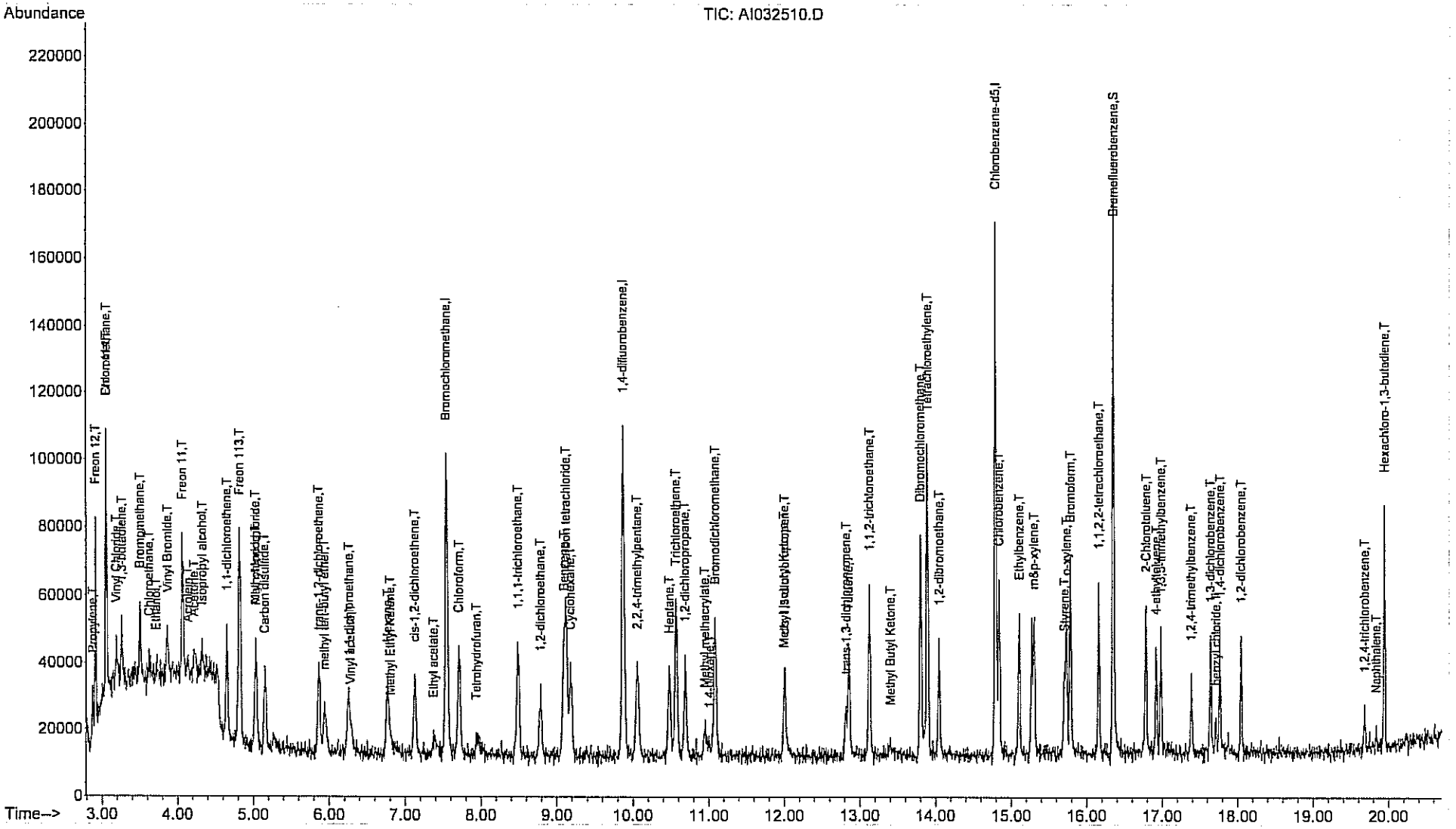
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.12	97	15941	0.29	ppb	92
48)	Toluene	12.85	92	14346	0.23	ppb	96
49)	Methyl Isobutyl Ketone	11.99	43	6783	0.29	ppb	90
50)	Dibromochloromethane	13.80	129	33938	0.30	ppb	97
51)	Methyl Butyl Ketone	13.40	43	5086m	0.39	ppb	
52)	1,2-dibromoethane	14.04	107	21861	0.26	ppb	96
53)	Tetrachloroethylene	13.89	164	20333	0.27	ppb	91
54)	Chlorobenzene	14.83	112	26001	0.25	ppb	97
55)	Ethylbenzene	15.10	91	26320	0.21	ppb	97
56)	m&p-xylene	15.29	91	42093	0.38	ppb	98
57)	Styrene	15.70	104	10412	0.17	ppb	80
58)	Bromoform	15.78	173	25502	0.26	ppb	100
59)	o-xylene	15.72	91	21522	0.18	ppb	100
61)	1,1,2,2-tetrachloroethane	16.15	83	20713	0.26	ppb	97
62)	2-Chlorotoluene	16.78	91	21518	0.21	ppb	97
63)	4-ethyltoluene	16.91	105	17667m	0.17	ppb	
64)	1,3,5-trimethylbenzene	16.98	105	18400m	0.17	ppb	
65)	1,2,4-trimethylbenzene	17.38	105	11440	0.16	ppb	95
66)	1,3-dichlorobenzene	17.64	146	14045m	0.19	ppb	
67)	benzyl chloride	17.71	91	5259	0.21	ppb	93
68)	1,4-dichlorobenzene	17.76	146	14685m	0.21	ppb	
69)	1,2-dichlorobenzene	18.04	146	13005	0.22	ppb	99
70)	1,2,4-trichlorobenzene	19.68	180	4235m	0.27	ppb	
71)	Naphthalene	19.83	128	4194m	0.29	ppb	
72)	Hexachloro-1,3-butadiene	19.93	225	10476	0.27	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032510.D Vial: 6
Acq On : 25 Mar 2011 4:33 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 17:29 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032511.D Vial: 7
Acq On : 25 Mar 2011 5:06 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 17:27:06 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Mar 25 13:25:57 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D
DataAcq Meth : A325_1UG

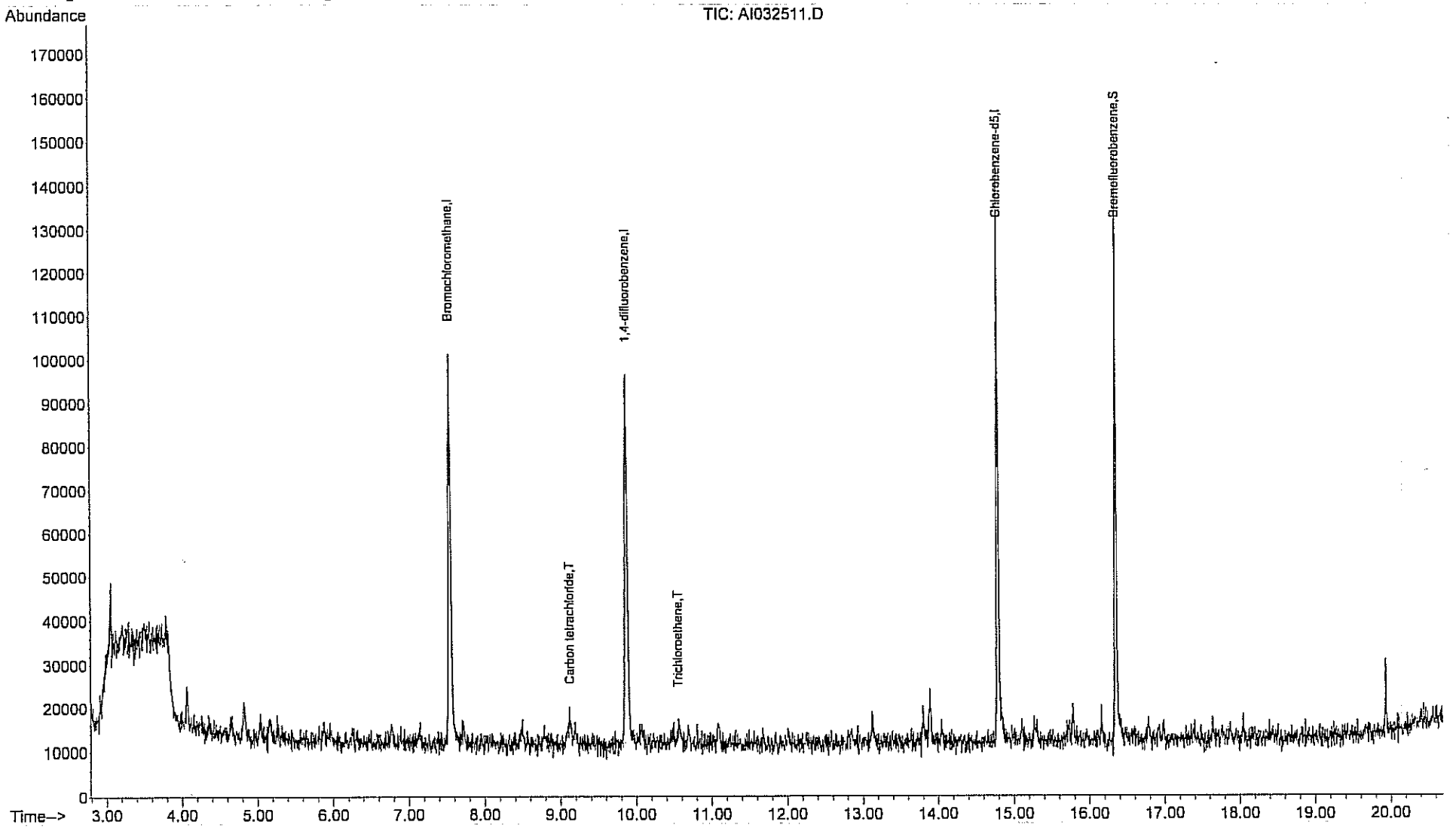
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.55	128	32891	1.00	ppb	0.00
32) 1,4-difluorobenzene	9.88	114	95922	1.00	ppb	0.00
47) Chlorobenzene-d5	14.79	117	78443	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.35	95	37497	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
35) Carbon tetrachloride	9.13	117	4089	0.04	ppb	87
41) Trichloroethene	10.56	130	2148m	0.04	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

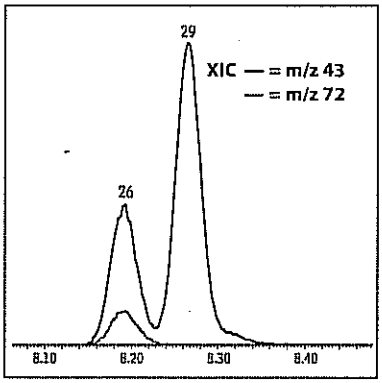
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI032511.D Vial: 7
Acq On : 25 Mar 2011 5:06 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Mar 25 17:30 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI032502.D



Volatiles by EPA Method 8260 on Rxi®-624Sil MS (30m, 0.25mm ID, 1.40µm)



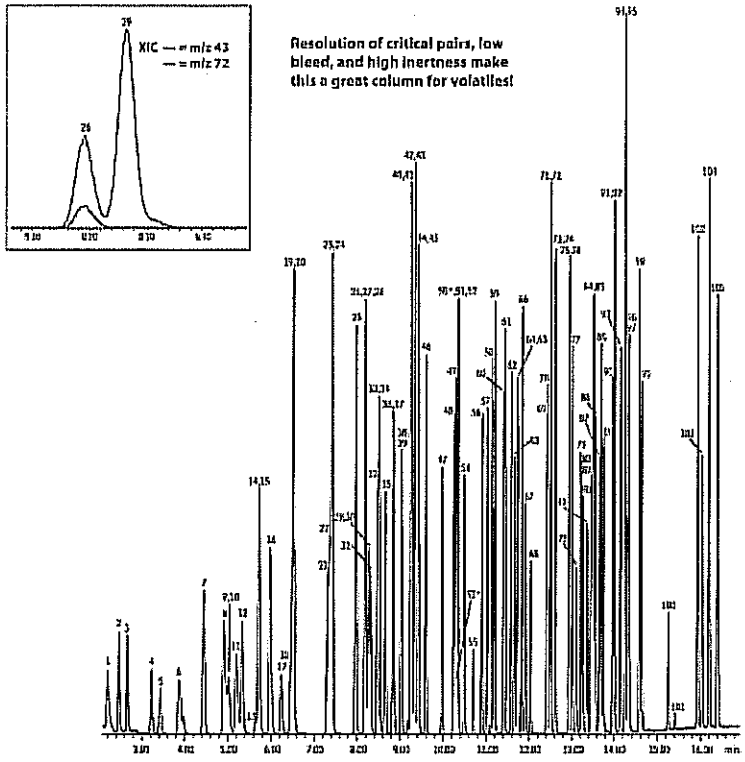
Resolution of critical pairs, low bleed, and high inertness make this a great column for volatiles!

Column:	Rxi®-624Sil MS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 13868)
Sample:	8260A Surrogate Mix (cat.# 30240) 8260A Internal Standard Mix (cat.# 30241) 8260B MegaMix® Calibration Mix (cat.# 30633) VOA Calibration Mix #1 (ketones) (cat.# 30006) 8260B Acetate Mix (revised) (cat.# 30489) California Oxygenates Mix (cat.# 30465) 502.2 Calibration Mix #1 (gases) (cat.# 30042)
Conc.:	25 ppb in RO water
Injection	purge and trap split (split ratio 30:1)
Inj. Temp.:	225 °C
Purge and Trap	
Instrument:	OI Analytical 4660
Trap Type:	10 Trap
Purge:	11 min. @ 20 °C
Desorb Preheat Temp.:	180 °C
Desorb:	0.5 min. @ 190 °C
Bake:	5 min. @ 210 °C
Interface Connection:	injection port
Oven	
Oven Temp:	35 °C (hold 5 min.) to 60 °C at 11 °C/min. to 220 °C at 20 °C/min. (hold 2 min.)
Carrier Gas:	He, constant flow
Flow Rate:	1.0 mL/min.
Detector:	MS
Mode:	Scan
Transfer Line Temp.:	230 °C
Analyzer Type:	Quadrupole
Source Temp.:	230 °C
Quad Temp.:	150 °C
Electron Energy:	70 eV
Solvent Delay Time:	1.5 min.
Tune Type:	BFB
Ionization Mode:	EI
Scan Range:	36-260 amu
Instrument:	
Agilent 7890A GC & 5975C MSD	
Notes	
Other Purge and Trap Conditions:	
Sample Inlet: 40°C	
Sample: 40°C	
Water Management:	
Purge 110°C, Desorb 0°C, Bake, 240°C	

Peaks	RT (min.)
1. Dichlorodifluoromethane (CFC-12)	2.198
2. Chloromethane	2.459
3. Vinyl chloride	2.659
4. Bromomethane	3.226
5. Chloroethane	3.434
6. Trichlorofluoromethane (CFC-11)	3.876
7. Diethyl ether (ethyl ether)	4.440
8. 1,1-Dichloroethene	4.909
9. 1,1,2-Trichlorotrifluoroethane (CFC-113)	4.998
10. Acetone	5.029
11. Iodomethane	5.195
12. Carbon disulfide	5.323
13. Acetonitrile	5.637
14. Allyl chloride	5.715
15. Methyl acetate	5.723
16. Methylene chloride	5.981
17. *tert*-Butyl alcohol	6.234
18. Acrylonitrile	6.451
19. Methyl *tert*-butyl ether (MTBE)	6.509
20. *trans*-1,2-Dichloroethene	6.512
21. 1,1-Dichloroethane	7.315
22. Vinyl acetate	7.359
23. Diisopropyl ether (DIPE)	7.407
24. Chloroprene	7.429
25. Ethyl *tert*-butyl ether (ETBE)	7.970
26. 2-Butanone (MEK)	8.193
27. *cis*-1,2-Dichloroethene	8.193
28. 2,2-Dichloropropane	8.193
29. Ethyl acetate	8.265
30. Propionitrile	8.276
31. Methyl acrylate	8.318
32. Methacrylonitrile	8.476
33. Bromochloromethane	8.507
34. Tetrahydrofuran	8.521
35. Chloroform	8.651
36. 1,1,1-Trichloroethane	8.843
37. Dibromofluoromethane	8.848
38. Carbon tetrachloride	9.026
39. 1,1-Dichloropropene	9.037
40. 1,2-Dichloroethane-d4	9.246
41. Benzene	9.262
42. 1,2-Dichloroethane	9.334
43. Isopropyl acetate	9.340
44. Isobutyl alcohol	9.421
45. *tert*-Amyl methyl ether (TAME)	9.421
46. Fluorobenzene	9.598
47. Trichloroethene	9.976
48. 1,2-Dichloropropane	10.243
49. Methyl methacrylate	10.290
50. 1,4-Dioxane (ND)	10.299*
51. Dibromomethane	10.326
52. Propyl acetate	10.346
53. 2-Chloroethanol (ND)	10.368*
54. Bromodichloromethane	10.496
55. 2-Nitropropane	10.698
56. *cis*-1,3-Dichloropropene	10.904
57. 4-Methyl-2-pentanone (MEK)	11.026
58. Toluene-D8	11.148
59. Toluene	11.210
60. *trans*-1,3-Dichloropropene	11.407
61. Ethyl methacrylate	11.435
62. 1,1,2-Trichloroethane	11.585
63. Tetrachloroethene	11.662
64. 1,3-Dichloropropane	11.729
65. 2-Hexanone	11.749
66. Butyl acetate	11.837
67. Dibromochloromethane	11.921
68. 1,2-Dibromoethane (EDB)	12.035
69. Chlorobenzene-d5	12.412
70. Chlorobenzene	12.440
71. Ethylbenzene	12.507
72. 1,1,1,2-Tetrachloroethane	12.507
73. *m*-Xylene	12.612
74. *p*-Xylene	12.612
75. *o*-Xylene	12.935
76. Styrene	12.949
77. *n*-Amyl acetate	13.018
78. Bromoform	13.118
79. Isopropylbenzene (cumene)	13.226
80. *cis*-1,4-Dichloro-2-butene	13.268
81. 4-Bromofluorobenzene	13.385
82. 1,1,2,2-Tetrachloroethane	13.456
83. *trans*-1,4-Dichloro-2-butene	13.496
84. Bromobenzene	13.515
85. 1,2,3-Trichloropropane	13.526
86. *n*-Propylbenzene	13.565
87. 2-Chlorotoluene	13.657
88. 1,3,5-Trimethylbenzene	13.699
89. 4-Chlorotoluene	13.751
90. *tert*-Butylbenzene	13.965
91. Pentachloroethane	14.007
92. 1,2,4-Trimethylbenzene	14.010
93. *sec*-Butylbenzene	14.140
94. 4-Isopropyltoluene (*p*-cymene)	14.254
95. 1,3-Dichlorobenzene	14.263
96. 1,4-Dichlorobenzene-D4	14.321
97. 1,4-Dichlorobenzene	14.340
98. *n*-Butylbenzene	14.579
99. 1,2-Dichlorobenzene	14.635
100. 1,2-Dibromo-3-chloropropane (DBCP)	15.252
101. Nitrobenzene	15.407
102. 1,2,4-Trichlorobenzene	15.935
103. Hexachloro-1,3-butadiene	16.040
104. Naphthalene	16.196
105. 1,2,3-Trichlorobenzene	16.396

* ND = not detected; retention time determined by wet needle injection

Restek Corporation 110 Benner Circle Bellefonte, PA 16823
814-353-1300 • 800-356-1688 • Fax: 814-353-1309 • www.restek.com



GC_EV1169

Column	Rxi®-624Sil MS, 30 m, 0.25 mm ID, 1.40 µm (cat.# 13868)
Sample	8260A Surrogate Mix (cat.# 30240) 8260A Internal Standard Mix (cat.# 30241) 8260B MegaMix® Calibration Mix (cat.# 30633) VOA Calibration Mix #1 (ketones) (cat.# 30006) 8260B Acetate Mix (Revised) (cat.# 30489) California Oxygenates Mix (cat.# 30465) 502.2 Calibration Mix #1 (gases) (cat.# 30042)
Conc.:	25 ppb in RO water
Injection	purge and trap split (split ratio 30:1)
Inj. Temp.:	225 °C
Purge and Trap	
Instrument:	OI Analytical 4660
Trap Type:	10 Trap
Purge:	11 min. @ 20 °C
Desorb Preheat Temp.:	180 °C
Desorb:	0.5 min. @ 190 °C
Bake:	5 min. @ 210 °C
Interface Connection:	injection port
Oven	
Oven Temp:	35 °C (hold 5 min.) to 60 °C at 11 °C/min. to 220 °C at 20 °C/min. (hold 2 min.)
Carrier Gas	He, constant flow
Flow Rate:	1.0 mL/min.
Detector	MS
Mode:	Scan
Transfer Line Temp.:	230 °C
Analyzer Type:	Quadrupole
Source Temp.:	230 °C
Quad Temp.:	150 °C
Electron Energy:	70 eV
Solvent Delay Time:	1.5 min.
Tune Type:	BFB
Ionization Mode:	EI
Scan Range:	36-260 amu
Instrument	Agilent 7890A GC & 5975C MSD
Notes	Other Purge and Trap Conditions: Sample Inlet: 40°C Sample: 40°C Water Management: Purge 110°C, Desorb 0°C, Bake, 240°C

RELATED CHROMATOGRAM DATABASE SEARCHES

8260, 8260B, EPA 8260, method 8260, p&T, 8260C, voc, volatiles, purge and trap, purge, trap, voa, xylene

Volatiles by EPA Method 8260 on Rxi®-624Sil MS (30m, 0.25mm ID, 1.40µm)

Peaks	RT (min.)
1. Dichlorodifluoromethane (CFC-12)	2.198
2. Chloromethane	2.459
3. Vinyl chloride	2.659
4. Bromomethane	3.226
5. Chloroethane	3.434
6. Trichlorofluoromethane (CFC-11)	3.876
7. Diethyl ether (ethyl ether)	4.44
8. 1,1-Dichloroethene	4.909
9. 1,1,2-Trichlorotrifluoroethane (CFC-113)	4.998
10. Acetone	5.029
11. Iodomethane	5.195
12. Carbon disulfide	5.323
13. Acetonitrile	5.637
14. Allyl chloride	5.715
15. Methyl acetate	5.723
16. Methylene chloride	5.981
17. *tert*-Butyl alcohol	6.234
18. Acrylonitrile	6.451
19. Methyl *tert*-butyl ether (MTBE)	6.509
20. *trans*-1,2-Dichloroethene	6.512
21. 1,1-Dichloroethane	7.315
22. Vinyl acetate	7.359
23. Diisopropyl ether (DIPE)	7.407
24. Chloroprene	7.429
25. Ethyl *tert*-butyl ether (ETBE)	7.97
26. 2-Butanone (MEK)	8.193
27. *cis*-1,2-Dichloroethene	8.193
28. 2,2-Dichloropropane	8.193
29. Ethyl acetate	8.265
30. Propionitrile	8.276
31. Methyl acrylate	8.318
32. Methacrylonitrile	8.476
33. Bromochloromethane	8.507
34. Tetrahydrofuran	8.521
35. Chloroform	8.651
36. 1,1,1-Trichloroethane	8.843
37. Dibromofluoromethane	8.848
38. Carbon tetrachloride	9.026
39. 1,1-Dichloropropene	9.037
40. 1,2-Dichloroethane-d4	9.246
41. Benzene	9.262
42. 1,2-Dichloroethane	9.334
43. Isopropyl acetate	9.34
44. Isobutyl alcohol	9.421
45. *tert*-Amyl methyl ether (TAME)	9.421
46. Fluorobenzene	9.598
47. Trichloroethene	9.976
48. 1,2-Dichloropropane	10.243
49. Methyl methacrylate	10.29
50. 1,4-Dioxane (ND)	10.299*
51. Dibromomethane	10.326
52. Propyl acetate	10.346
53. 2-Chloroethanol (ND)	10.368*
54. Bromodichloromethane	10.496
55. 2-Nitropropane	10.698
56. *cis*-1,3-Dichloropropene	10.904
57. 4-Methyl-2-pentanone (MIBK)	11.026
58. Toluene-D8	11.148
59. Toluene	11.21
60. *trans*-1,3-Dichloropropene	11.407
61. Ethyl methacrylate	11.435
62. 1,1,2-Trichloroethane	11.585
63. Tetrachloroethene	11.662
64. 1,3-Dichloropropane	11.729
65. 2-Hexanone	11.749
66. Butyl acetate	11.837
67. Dibromochloromethane	11.921
68. 1,2-Dibromoethane (EDB)	12.035
69. Chlorobenzene-d5	12.412
70. Chlorobenzene	12.44
71. Ethylbenzene	12.507
72. 1,1,1,2-Tetrachloroethane	12.507
73. *m*-Xylene	12.612
74. *p*-Xylene	12.612
75. *o*-Xylene	12.935
76. Styrene	12.949
77. *n*-Amyl acetate	13.018
78. Bromoform	13.118
79. Isopropylbenzene (cumene)	13.226
80. *cis*-1,4-Dichloro-2-butene	13.268
81. 4-Bromofluorobenzene	13.385
82. 1,1,2,2-Tetrachloroethane	13.456
83. *trans*-1,4-Dichloro-2-butene13	.496
84. Bromobenzene	13.515
85. 1,2,3-Trichloropropane	13.526
86. *n*-Propylbenzene	13.565
87. 2-Chlorotoluene	13.657
88. 1,3,5-Trimethylbenzene	13.699
89. 4-Chlorotoluene	13.751
90. *tert*-Butylbenzene	13.965
91. Pentachloroethane	14.007
92. 1,2,4-Trimethylbenzene	14.01
93. *sec*-Butylbenzene	14.14
94. 4-Isopropyltoluene (*p*-cymene)	14.254
95. 1,3-Dichlorobenzene	14.263
96. 1,4-Dichlorobenzene-D4	14.321
97. 1,4-Dichlorobenzene	14.34
98. *n*-Butylbenzene	14.579
99. 1,2-Dichlorobenzene	14.635
100. 1,2-Dibromo-3-chloropropane (DBCP)	15.252
101. Nitrobenzene	15.407
102. 1,2,4-Trichlorobenzene	15.935
103. Hexachloro-1,3-butadiene	16.04
104. Naphthalene	16.196
105. 1,2,3-Trichlorobenzene	16.396

* ND = not detected; retention time determined by wet needle injection

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI051002.D
Acq On : 10 May 2011 1:14 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	55	0.02
2	T	Propylene	0.688	0.746	-8.4	64	0.00
3	T	Freon 12	4.089	4.545	-11.2	64	0.00
4	T	Chloromethane	0.876	0.976	-11.4	66	0.00
5	T	Freon 114	2.700	3.005	-11.3	67	0.00
6	T	Vinyl Chloride	0.839	0.901	-7.4	66	0.00
7	T	1,3-butadiene	0.554	0.650	-17.3	70	0.01
8	T	Bromomethane	1.079	1.163	-7.8	64	0.01
9	T	Ethanol	0.250	0.272	-8.8	73	0.00
10	T	Acrolein	0.255	0.297	-16.5	64	0.02
11	T	Chloroethane	0.336	0.371	-10.4	62	0.00
12	T	Vinyl Bromide	0.994	1.209	-21.6	71	0.02
13	T	Freon 11	2.906	3.141	-8.1	62	0.00
14	T	Acetone	0.323	0.392	-21.4	75	0.00
15	T	Isopropyl alcohol	0.734	0.856	-16.6	88	0.00
16	T	1,1-dichloroethene	1.232	1.452	-17.9	90	0.00
17	T	Freon 113	2.887	3.457	-19.7	95	0.00
18	T	Methylene chloride	1.186	1.360	-14.7	67	0.02
19	T	Allyl chloride	0.872	1.044	-19.7	69	0.01
20	T	Carbon disulfide	3.796	4.608	-21.4	71	0.01
21	T	trans-1,2-dichloroethene	1.662	1.924	-15.8	67	0.02
22	T	methyl tert-butyl ether	0.939	1.416	-50.8#	87	0.02
23	T	1,1-dichloroethane	1.912	2.441	-27.7	73	0.02
24	T	Vinyl acetate	1.506	1.825	-21.2	67	0.00
25	T	Methyl Ethyl Ketone	0.366	0.413	-12.8	61	0.00
26	T	cis-1,2-dichloroethene	1.500	1.714	-14.3	63	0.02
27	T	Hexane	1.152	1.336	-16.0	66	0.00
28	T	Ethyl acetate	1.375	1.777	-29.2	68	0.00
29	T	Chloroform	3.072	3.497	-13.8	65	0.01
30	T	Tetrahydrofuran	0.708	0.739	-4.4	54	0.00
31	T	1,2-dichloroethane	1.798	2.047	-13.8	66	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	60	0.00
33	T	1,1,1-trichloroethane	0.736	0.944	-28.3	81	0.01
34	T	Cyclohexane	0.374	0.374	0.0	62	0.00
35	T	Carbon tetrachloride	1.178	1.207	-2.5	67	0.00
36	T	Benzene	0.979	1.041	-6.3	64	0.00
37	T	Methyl methacrylate	0.270	0.269	0.4	62	0.00
38	T	1,4-dioxane	0.146	0.157	-7.5	72	0.00
39	T	2,2,4-trimethylpentane	0.981	1.179	-20.2	74	0.00
40	T	Heptane	0.360	0.346	3.9	59	0.00
41	T	Trichloroethene	0.679	0.649	4.4	61	0.01
42	T	1,2-dichloropropane	0.345	0.392	-13.6	72	0.00
43	T	Bromodichloromethane	1.036	1.033	0.3	63	0.02
44	T	cis-1,3-dichloropropene	0.408	0.476	-16.7	72	0.00
45	T	trans-1,3-dichloropropene	0.291	0.336	-15.5	73	0.00
46	T	1,1,2-trichloroethane	0.545	0.538	1.3	61	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	64	0.00
48	T	Toluene	0.695	0.694	0.1	63	0.00
49	T	Methyl Isobutyl Ketone	0.321	0.379	-18.1	90	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI051002.D
Acq On : 10 May 2011 1:14 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.331	1.190	10.6	60	0.00
51	T	Methyl Butyl Ketone	0.202	0.241	-19.3	104	0.00
52	T	1,2-dibromoethane	0.942	0.889	5.6	60	0.00
53	T	Tetrachloroethylene	0.898	0.727	19.0	55	0.00
54	T	Chlorobenzene	1.156	1.040	10.0	57	0.00
55	T	Ethylbenzene	1.340	1.250	6.7	57	0.00
56	T	m&p-xylene	1.152	1.089	5.5	56	0.00
57	T	Styrene	0.644	0.594	7.8	56	0.00
58	T	Bromoform	1.111	1.013	8.8	58	0.00
59	T	o-xylene	1.303	1.168	10.4	55	0.00
60	S	Bromofluorobenzene	0.550	0.525	4.5	60	0.00
61	T	1,1,2,2-tetrachloroethane	0.890	0.843	5.3	60	0.00
62	T	2-Chlorotoluene	1.139	1.292	-13.4	70	0.00
63	T	4-ethyltoluene	1.080	0.968	10.4	53	0.00
64	T	1,3,5-trimethylbenzene	1.116	1.030	7.7	54	0.00
65	T	1,2,4-trimethylbenzene	0.739	0.690	6.6	55	0.00
66	T	1,3-dichlorobenzene	0.770	0.792	-2.9	60	0.00
67	T	benzyl chloride	0.262	0.320	-22.1	73	0.00
68	T	1,4-dichlorobenzene	0.764	0.751	1.7	60	0.00
69	T	1,2-dichlorobenzene	0.669	0.694	-3.7	65	0.00
70	T	1,2,4-trichlorobenzene	0.190	0.340	-78.9#	121	0.00
71	T	Naphthalene	0.195	0.429	-120.0#	168#	0.00
72	T	Hexachloro-1,3-butadiene	0.475	0.610	-28.4	88	-0.01

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051002.D
Acq On : 10 May 2011 1:14 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 10 13:35:44 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	17660	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.05	114	60894	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	55839	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	29321	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	13183	1.09	ppb		97
3) Freon 12	3.01	85	80263	1.11	ppb		99
4) Chloromethane	3.15	50	17231	1.11	ppb		100
5) Freon 114	3.15	85	53069	1.11	ppb		99
6) Vinyl Chloride	3.29	62	15912	1.07	ppb		97
7) 1,3-butadiene	3.37	39	11479	1.17	ppb		78
8) Bromomethane	3.61	94	20546	1.08	ppb		99
9) Ethanol	3.83	45	4799	1.09	ppb	#	77
10) Acrolein	4.26	56	5239	1.17	ppb		88
11) Chloroethane	3.74	64	6554	1.11	ppb		98
12) Vinyl Bromide	3.99	106	21343	1.22	ppb		100
13) Freon 11	4.19	101	55467	1.08	ppb		99
14) Acetone	4.35	58	6930	1.21	ppb	#	73
15) Isopropyl alcohol	4.46	45	15118	1.17	ppb	#	36
16) 1,1-dichloroethene	4.80	96	25634	1.18	ppb		97
17) Freon 113	4.97	101	61056	1.20	ppb		98
18) Methylene chloride	5.20	84	24009	1.15	ppb		95
19) Allyl chloride	5.18	41	18435m	1.20	ppb		
20) Carbon disulfide	5.32	76	81375	1.21	ppb		99
21) trans-1,2-dichloroethene	6.04	61	33970	1.16	ppb		98
22) methyl tert-butyl ether	6.10	73	25005m	1.51	ppb		
23) 1,1-dichloroethane	6.43	63	43115	1.28	ppb		99
24) Vinyl acetate	6.45	43	32228m	1.21	ppb		
25) Methyl Ethyl Ketone	6.95	72	7298	1.13	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	30262	1.14	ppb		100
27) Hexane	6.94	57	23589	1.16	ppb		98
28) Ethyl acetate	7.53	43	31384	1.29	ppb		97
29) Chloroform	7.89	83	61762	1.14	ppb		99
30) Tetrahydrofuran	8.10	42	13043	1.04	ppb		97
31) 1,2-dichloroethane	8.96	62	36157	1.14	ppb		98
33) 1,1,1-trichloroethane	8.68	97	57493	1.28	ppb		96
34) Cyclohexane	9.37	56	22758	1.00	ppb		96
35) Carbon tetrachloride	9.30	117	73514	1.02	ppb		100
36) Benzene	9.27	78	63419	1.06	ppb		99
37) Methyl methacrylate	11.10	41	16375	0.99	ppb		97
38) 1,4-dioxane	11.13	88	9547	1.07	ppb		84
39) 2,2,4-trimethylpentane	10.25	57	71786	1.20	ppb		99
40) Heptane	10.66	43	21041	0.96	ppb		93
41) Trichloroethene	10.75	130	39532	0.96	ppb		99
42) 1,2-dichloropropane	10.87	63	23854	1.14	ppb		98
43) Bromodichloromethane	11.26	83	62930	1.00	ppb		96
44) cis-1,3-dichloropropene	12.16	75	28991	1.17	ppb		97
45) trans-1,3-dichloropropene	12.95	75	20452	1.16	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051002.D
Acq On : 10 May 2011 1:14 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 10 13:35:44 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1,2-trichloroethane	13.26	97	32777	0.99	ppb	96
48) Toluene	13.00	92	38725	1.00	ppb	98
49) Methyl Isobutyl Ketone	12.13	43	21190	1.18	ppb	96
50) Dibromochloromethane	13.93	129	66421	0.89	ppb	99
51) Methyl Butyl Ketone	13.50	43	13457m	1.19	ppb	
52) 1,2-dibromoethane	14.18	107	49656	0.94	ppb	98
53) Tetrachloroethylene	14.02	164	40605	0.81	ppb	97
54) Chlorobenzene	14.97	112	58083	0.90	ppb	99
55) Ethylbenzene	15.23	91	69797	0.93	ppb	100
56) m&p-xylene	15.42	91	121577	1.89	ppb	99
57) Styrene	15.82	104	33154	0.92	ppb	98
58) Bromoform	15.90	173	56585	0.91	ppb	99
59) o-xylene	15.85	91	65199	0.90	ppb	99
61) 1,1,2,2-tetrachloroethane	16.27	83	47092	0.95	ppb	99
62) 2-Chlorotoluene	16.90	91	72145	1.13	ppb	99
63) 4-ethyltoluene	17.03	105	54069	0.90	ppb	74
64) 1,3,5-trimethylbenzene	17.10	105	57508	0.92	ppb	99
65) 1,2,4-trimethylbenzene	17.50	105	38530	0.93	ppb	97
66) 1,3-dichlorobenzene	17.75	146	44231	1.03	ppb	99
67) benzyl chloride	17.82	91	17876	1.22	ppb	98
68) 1,4-dichlorobenzene	17.88	146	41941	0.98	ppb	98
69) 1,2-dichlorobenzene	18.15	146	38770	1.04	ppb	100
70) 1,2,4-trichlorobenzene	19.77	180	19013	1.80	ppb	95
71) Naphthalene	19.92	128	23975	2.20	ppb	99
72) Hexachloro-1,3-butadiene	20.03	225	34053m	1.28	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

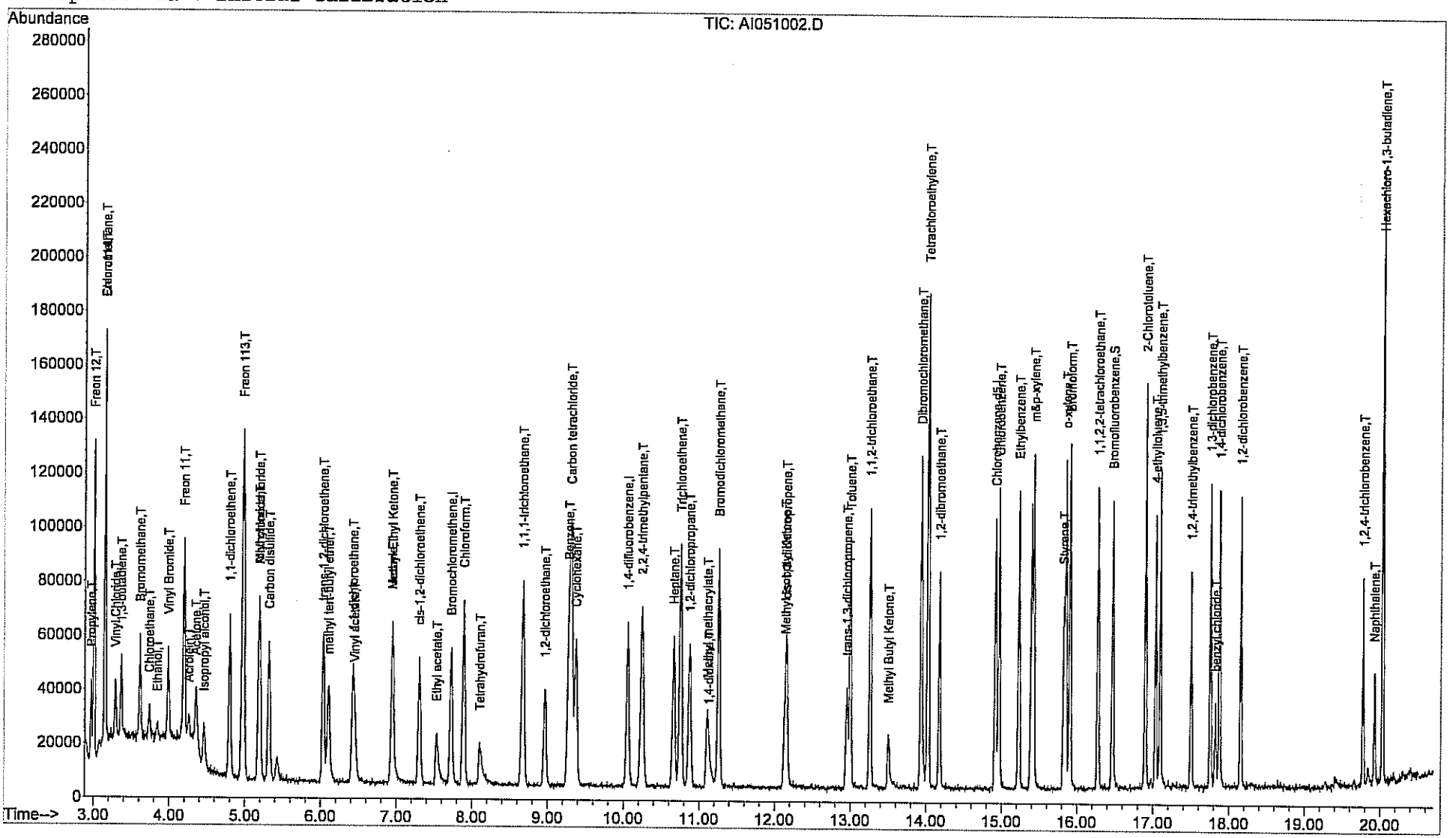
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051002.D
Acq On : 10 May 2011 1:14 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 4 14:11 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



AI051002.D A325_1UG.M Sat Jun 04 14:17:53 2011 MSD1

Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI051203.D Vial: 3
Acq On : 12 May 2011 12:52 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	48#	0.02
2	T	Propylene	0.688	0.718	-4.4	54	0.00
3	T	Freon 12	4.089	4.533	-10.9	57	0.00
4	T	Chloromethane	0.876	1.006	-14.8	60	0.00
5	T	Freon 114	2.700	3.063	-13.4	60	0.00
6	T	Vinyl Chloride	0.839	0.913	-8.8	59	0.00
7	T	1,3-butadiene	0.554	0.664	-19.9	63	0.00
8	T	Bromomethane	1.079	1.189	-10.2	58	0.01
9	T	Ethanol	0.250	0.261	-4.4	61	0.00
10	T	Acrolein	0.255	0.279	-9.4	53	0.00
11	T	Chloroethane	0.336	0.388	-15.5	58	0.00
12	T	Vinyl Bromide	0.994	1.242	-24.9	65	0.00
13	T	Freon 11	2.906	3.153	-8.5	55	0.00
14	T	Acetone	0.323	0.343	-6.2	58	0.00
15	T	Isopropyl alcohol	0.734	0.852	-16.1	77	0.00
16	T	1,1-dichloroethene	1.232	1.293	-5.0	71	0.00
17	T	Freon 113	2.887	3.401	-17.8	83	0.00
18	T	Methylene chloride	1.186	1.281	-8.0	56	0.00
19	T	Allyl chloride	0.872	1.051	-20.5	62	0.00
20	T	Carbon disulfide	3.796	4.383	-15.5	59	0.00
21	T	trans-1,2-dichloroethene	1.662	1.809	-8.8	55	0.00
22	T	methyl tert-butyl ether	0.939	1.052	-12.0	57	0.01
23	T	1,1-dichloroethane	1.912	2.180	-14.0	58	0.01
24	T	Vinyl acetate	1.506	1.487	1.3	48#	0.00
25	T	Methyl Ethyl Ketone	0.366	0.392	-7.1	51	0.00
26	T	cis-1,2-dichloroethene	1.500	1.552	-3.5	51	0.01
27	T	Hexane	1.152	1.143	0.8	50#	0.02
28	T	Ethyl acetate	1.375	1.505	-9.5	51	0.00
29	T	Chloroform	3.072	3.350	-9.0	55	0.01
30	T	Tetrahydrofuran	0.708	0.587	17.1	38#	0.00
31	T	1,2-dichloroethane	1.798	1.968	-9.5	56	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	44#	0.01
33	T	1,1,1-trichloroethane	0.736	0.927	-26.0	59	0.00
34	T	Cyclohexane	0.374	0.391	-4.5	47#	0.00
35	T	Carbon tetrachloride	1.178	1.372	-16.5	56	0.01
36	T	Benzene	0.979	1.141	-16.5	51	0.02
37	T	Methyl methacrylate	0.270	0.257	4.8	44#	0.00
38	T	1,4-dioxane	0.146	0.153	-4.8	52	0.00
39	T	2,2,4-trimethylpentane	0.981	1.190	-21.3	55	0.00
40	T	Heptane	0.360	0.356	1.1	45#	0.00
41	T	Trichloroethene	0.679	0.713	-5.0	49#	0.00
42	T	1,2-dichloropropane	0.345	0.420	-21.7	57	0.00
43	T	Bromodichloromethane	1.036	1.134	-9.5	51	0.00
44	T	cis-1,3-dichloropropene	0.408	0.433	-6.1	48#	0.00
45	T	trans-1,3-dichloropropene	0.291	0.300	-3.1	48#	0.00
46	T	1,1,2-trichloroethane	0.545	0.573	-5.1	47#	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	47#	0.00
48	T	Toluene	0.695	0.648	6.8	43#	0.00
49	T	Methyl Isobutyl Ketone	0.321	0.324	-0.9	57	0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI051203.D
Acq On : 12 May 2011 12:52 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.331	1.271	4.5	47#	0.00
51	T	Methyl Butyl Ketone	0.202	0.181	10.4	57	0.02
52	T	1,2-dibromoethane	0.942	0.915	2.9	46#	0.00
53	T	Tetrachloroethylene	0.898	0.805	10.4	45#	0.00
54	T	Chlorobenzene	1.156	1.054	8.8	42#	0.00
55	T	Ethylbenzene	1.340	1.115	16.8	37#	0.00
56	T	m&p-xylene	1.152	0.989	14.1	37#	0.00
57	T	Styrene	0.644	0.514	20.2	35#	0.00
58	T	Bromoform	1.111	1.055	5.0	44#	0.00
59	T	o-xylene	1.303	1.056	19.0	36#	0.00
60	S	Bromofluorobenzene	0.550	0.559	-1.6	47#	0.00
61	T	1,1,2,2-tetrachloroethane	0.890	0.893	-0.3	47#	0.00
62	T	2-Chlorotoluene	1.139	1.176	-3.2	47#	0.00
63	T	4-ethyltoluene	1.080	0.851	21.2	34#	0.00
64	T	1,3,5-trimethylbenzene	1.116	0.911	18.4	35#	0.00
65	T	1,2,4-trimethylbenzene	0.739	0.608	17.7	35#	0.00
66	T	1,3-dichlorobenzene	0.770	0.763	0.9	42#	0.00
67	T	benzyl chloride	0.262	0.295	-12.6	49#	0.00
68	T	1,4-dichlorobenzene	0.764	0.733	4.1	43#	0.00
69	T	1,2-dichlorobenzene	0.669	0.664	0.7	45#	0.00
70	T	1,2,4-trichlorobenzene	0.190	0.319	-67.9#	83	0.00
71	T	Naphthalene	0.195	0.339	-73.8#	98	0.00
72	T	Hexachloro-1,3-butadiene	0.475	0.742	-56.2#	79	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051203.D Vial: 3
Acq On : 12 May 2011 12:52 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 13:13:47 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	15576	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.06	114	44756	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	41049	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	22943	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	11177	1.04	ppb		99
3) Freon 12	3.01	85	70600	1.11	ppb		99
4) Chloromethane	3.15	50	15666	1.15	ppb		97
5) Freon 114	3.15	85	47710	1.13	ppb		98
6) Vinyl Chloride	3.29	62	14215	1.09	ppb		100
7) 1,3-butadiene	3.36	39	10337	1.20	ppb		96
8) Bromomethane	3.61	94	18523	1.10	ppb		99
9) Ethanol	3.83	45	4060	1.04	ppb	#	14
10) Acrolein	4.26	56	4349	1.10	ppb		90
11) Chloroethane	3.74	64	6036	1.16	ppb		90
12) Vinyl Bromide	3.98	106	19353	1.25	ppb		97
13) Freon 11	4.19	101	49106	1.08	ppb		100
14) Acetone	4.36	58	5347	1.06	ppb		95
15) Isopropyl alcohol	4.46	45	13278	1.16	ppb		93
16) 1,1-dichloroethene	4.80	96	20136	1.05	ppb		97
17) Freon 113	4.97	101	52972	1.18	ppb		99
18) Methylene chloride	5.19	84	19955	1.08	ppb		96
19) Allyl chloride	5.17	41	16371	1.20	ppb		87
20) Carbon disulfide	5.31	76	68270	1.15	ppb		99
21) trans-1,2-dichloroethene	6.03	61	28174	1.09	ppb		98
22) methyl tert-butyl ether	6.10	73	16390	1.12	ppb		83
23) 1,1-dichloroethane	6.42	63	33954	1.14	ppb		98
24) Vinyl acetate	6.45	43	23161	0.99	ppb		95
25) Methyl Ethyl Ketone	6.95	72	6107	1.07	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	24170	1.03	ppb		98
27) Hexane	6.95	57	17802	0.99	ppb		96
28) Ethyl acetate	7.53	43	23436	1.09	ppb		97
29) Chloroform	7.89	83	52172	1.09	ppb		100
30) Tetrahydrofuran	8.09	42	9141	0.83	ppb		98
31) 1,2-dichloroethane	8.96	62	30657	1.09	ppb		100
33) 1,1,1-trichloroethane	8.67	97	41485m	1.26	ppb		
34) Cyclohexane	9.37	56	17491	1.04	ppb		95
35) Carbon tetrachloride	9.31	117	61415	1.16	ppb		97
36) Benzene	9.28	78	51054	1.17	ppb		96
37) Methyl methacrylate	11.10	41	11512	0.95	ppb		93
38) 1,4-dioxane	11.13	88	6850	1.05	ppb		90
39) 2,2,4-trimethylpentane	10.25	57	53258	1.21	ppb		95
40) Heptane	10.66	43	15942	0.99	ppb		97
41) Trichloroethene	10.75	130	31912	1.05	ppb		99
42) 1,2-dichloropropane	10.87	63	18779	1.22	ppb		94
43) Bromodichloromethane	11.25	83	50751	1.09	ppb		99
44) cis-1,3-dichloropropene	12.16	75	19363	1.06	ppb		99
45) trans-1,3-dichloropropene	12.95	75	13406	1.03	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051203.D
Acq On : 12 May 2011 12:52 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 12 13:13:47 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1,2-trichloroethane	13.26	97	25655	1.05	ppb	96
48) Toluene	13.00	92	26612	0.93	ppb	95
49) Methyl Isobutyl Ketone	12.14	43	13304	1.01	ppb	96
50) Dibromochloromethane	13.93	129	52186	0.96	ppb	97
51) Methyl Butyl Ketone	13.51	43	7414	0.89	ppb	84
52) 1,2-dibromoethane	14.17	107	37579	0.97	ppb	98
53) Tetrachloroethylene	14.02	164	33041	0.90	ppb	95
54) Chlorobenzene	14.96	112	43277	0.91	ppb	99
55) Ethylbenzene	15.23	91	45781	0.83	ppb	100
56) m&p-xylene	15.42	91	81206m	1.72	ppb	
57) Styrene	15.82	104	21116	0.80	ppb	98
58) Bromoform	15.90	173	43327	0.95	ppb	98
59) o-xylene	15.85	91	43366	0.81	ppb	98
61) 1,1,2,2-tetrachloroethane	16.28	83	36641	1.00	ppb	99
62) 2-Chlorotoluene	16.90	91	48255	1.03	ppb	98
63) 4-ethyltoluene	17.03	105	34937	0.79	ppb	74
64) 1,3,5-trimethylbenzene	17.09	105	37410	0.82	ppb	100
65) 1,2,4-trimethylbenzene	17.50	105	24955	0.82	ppb	97
66) 1,3-dichlorobenzene	17.75	146	31329	0.99	ppb	98
67) benzyl chloride	17.82	91	12110	1.13	ppb	97
68) 1,4-dichlorobenzene	17.87	146	30089	0.96	ppb	98
69) 1,2-dichlorobenzene	18.15	146	27253	0.99	ppb	98
70) 1,2,4-trichlorobenzene	19.78	180	13076	1.68	ppb	98
71) Naphthalene	19.92	128	13934	1.74	ppb	99
72) Hexachloro-1,3-butadiene	20.03	225	30454	1.56	ppb	99

#) = qualifier out of range (m) = manual integration (+) = signals summed

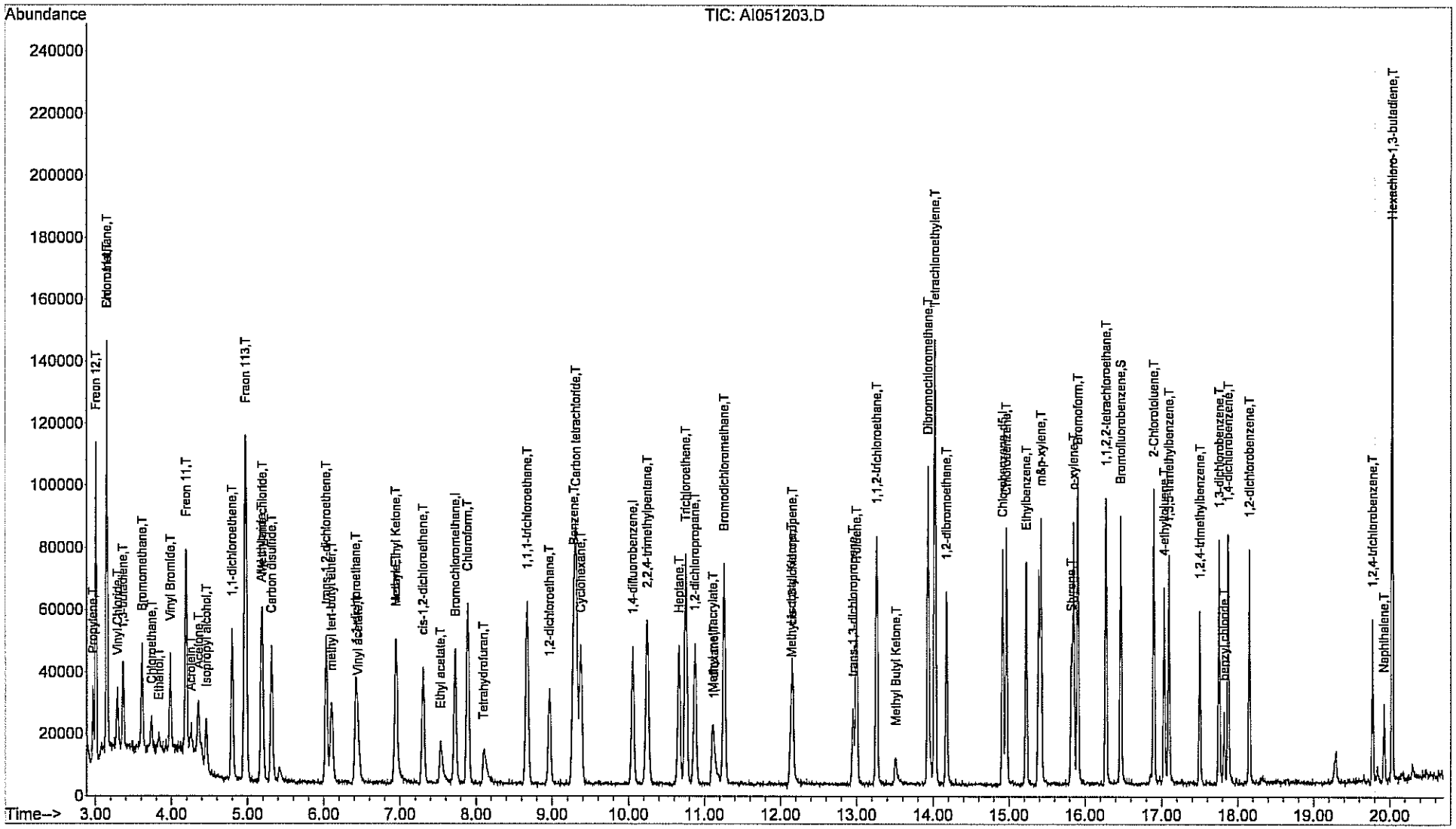
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051203.D
Acq On : 12 May 2011 12:52 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 4 14:21 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



AI051203.D A325_1UG.M Sat Jun 04 14:22:03 2011 MSD1

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

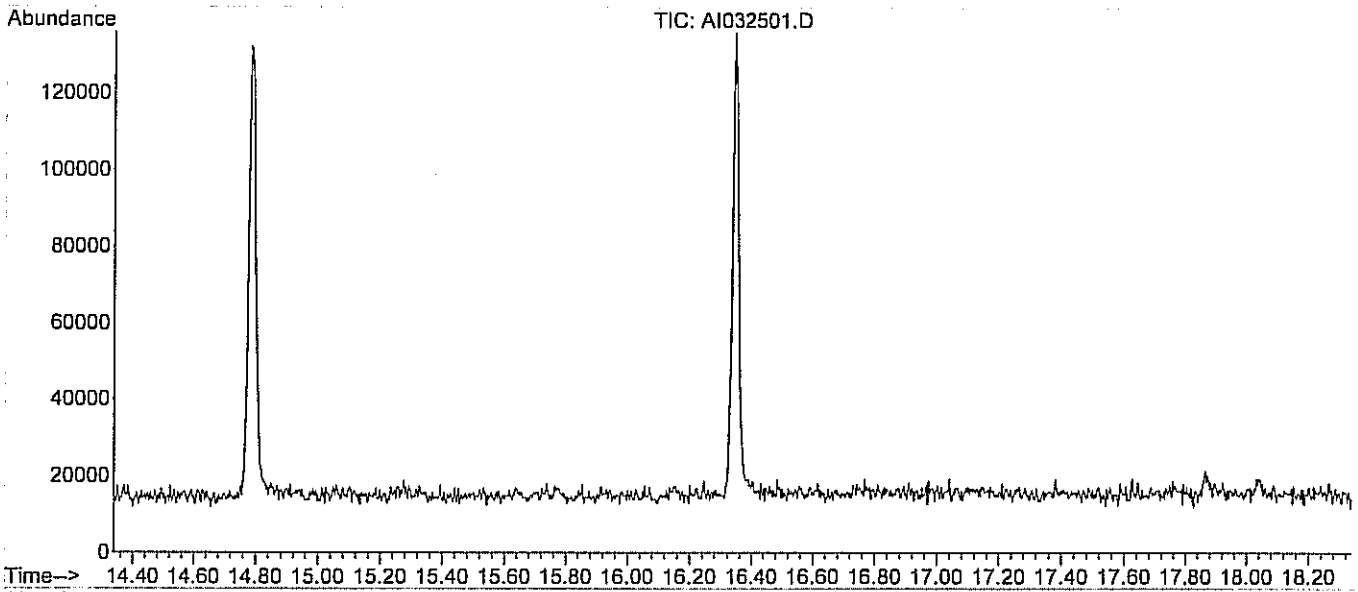
METHOD TO-15

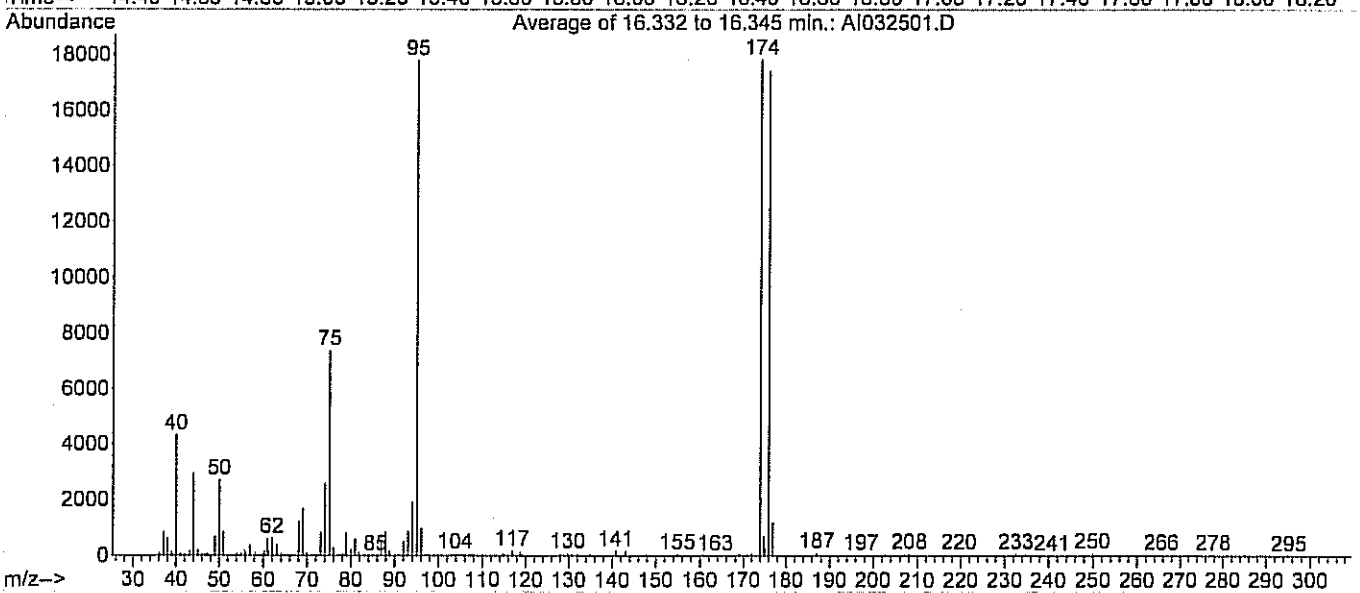
RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI032501.D
Acq On : 25 Mar 2011 11:31 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.332 to 16.345 min.

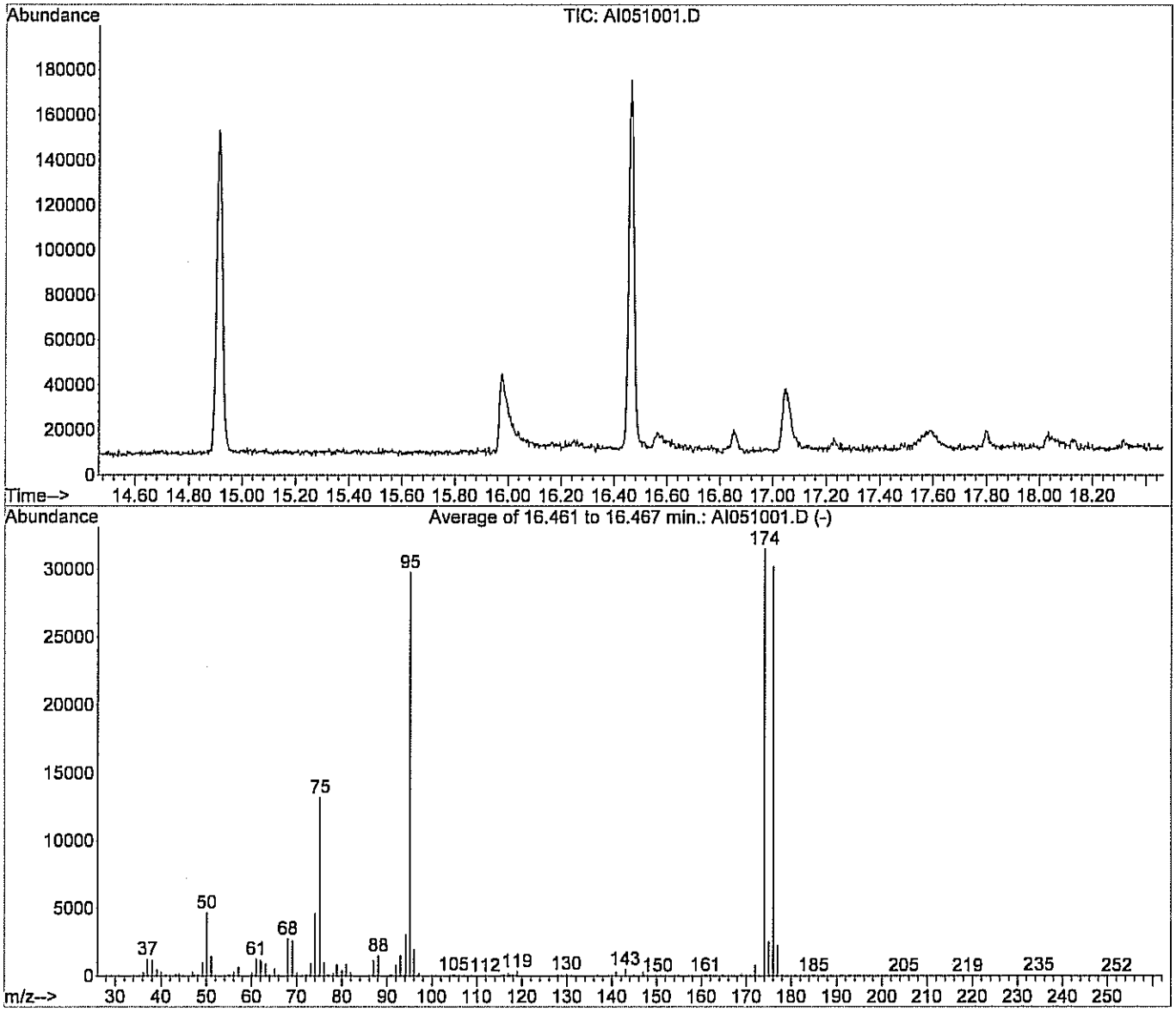
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.3	2733	PASS
75	95	30	66	41.5	7385	PASS
95	95	100	100	100.0	17811	PASS
96	95	5	9	5.6	996	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	100.2	17839	PASS
175	174	4	9	4.1	729	PASS
176	174	95	101	97.8	17440	PASS
177	176	5	9	6.9	1206	PASS

AI032501.D A325_1UG.M Sat Apr 16 09:50:58 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI051001.D
Acq On : 10 May 2011 10:20 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.461 to 16.467 min.

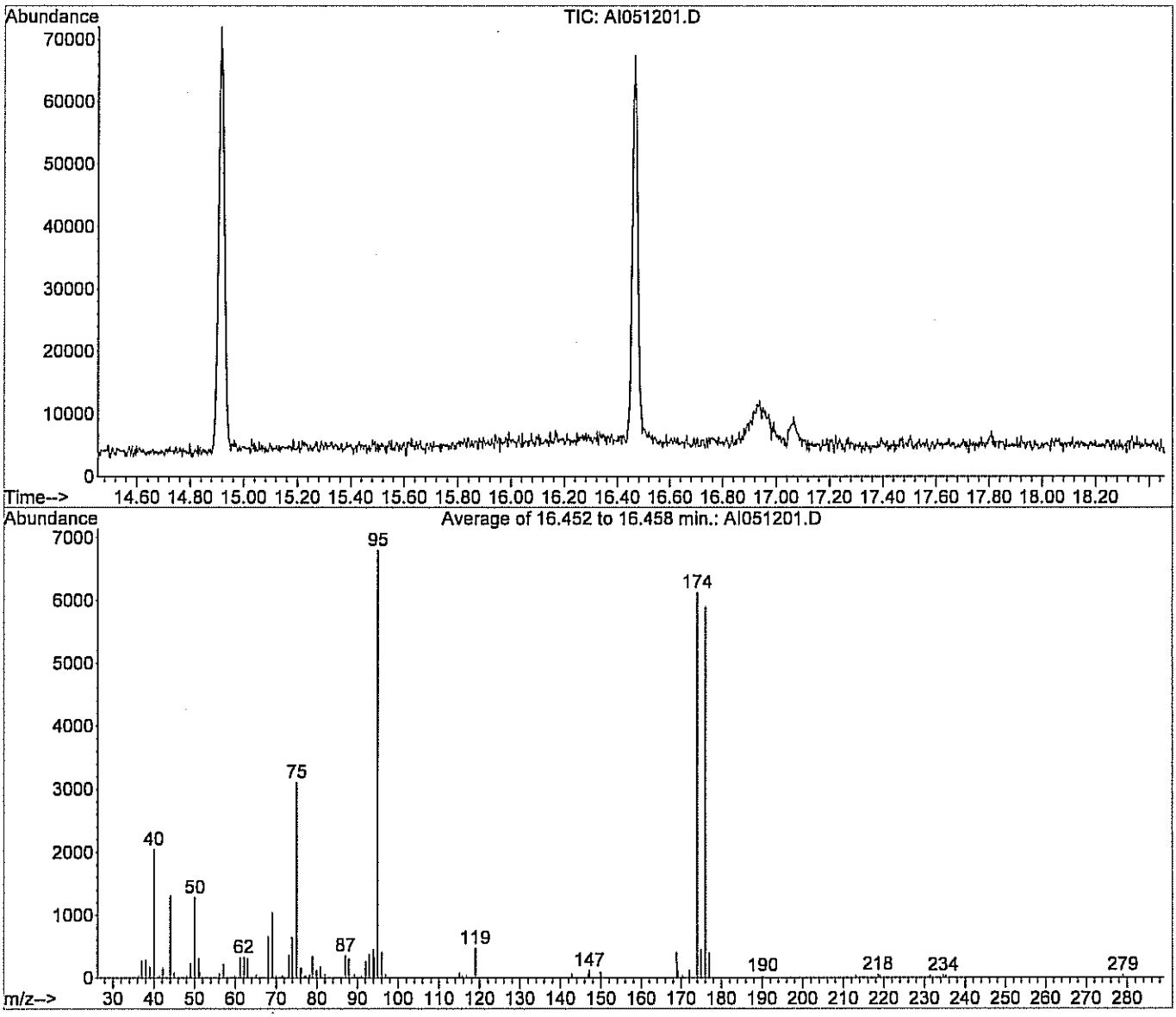
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.7	4688	PASS
75	95	30	66	44.4	13212	PASS
95	95	100	100	100.0	29789	PASS
96	95	5	9	6.6	1958	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	105.9	31541	PASS
175	174	4	9	8.0	2531	PASS
176	174	95	101	95.8	30224	PASS
177	176	5	9	7.5	2279	PASS

AI051001.D A325_1UG.M Sat Jun 04 14:17:40 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI051201.D
Acq On : 12 May 2011 11:07 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.452 to 16.458 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.9	1288	PASS
75	95	30	66	45.8	3112	PASS
95	95	100	100	100.0	6801	PASS
96	95	5	9	6.0	410	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	90.1	6129	PASS
175	174	4	9	7.4	454	PASS
176	174	95	101	96.2	5899	PASS
177	176	5	9	6.7	398	PASS

AI051201.D A325_1UG.M Sat Jun 04 14:20:51 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *04-Jun-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID **AMB1UG-051011** SampType: **MBLK** TestCode: **0.25CT-TCE-** Units: **ppbV** Prep Date: RunNo: **4541**
Client ID: **ZZZZZ** Batch ID: **R4541** TestNo: **TO-15** Analysis Date: **5/10/2011** SeqNo: **54192**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051011	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/10/2011	SeqNo:	54192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM **TestCode: 0.25CT-TCE-VC**

Sample ID AMB1UG-051011	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/10/2011	SeqNo: 54192

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Sample ID AMB1UG-051211	SampType: MBLK	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4542
Client ID: ZZZZZ	Batch ID: R4542	TestNo: TO-15		Analysis Date: 5/12/2011	SeqNo: 54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051211	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.040	0.040									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	AMB1UG-051211	SampType:	MBLK	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54214

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.040	0.040									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.040	0.040									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051004.D
Acq On : 10 May 2011 2:22 pm
Sample : AMB1UG-051011
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 10 14:42:59 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	17412	1.00	ppb	0.02
32) 1,4-difluorobenzene	10.05	114	56929	1.00	ppb	0.01
47) Chlorobenzene-d5	14.92	117	51326	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	24871	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

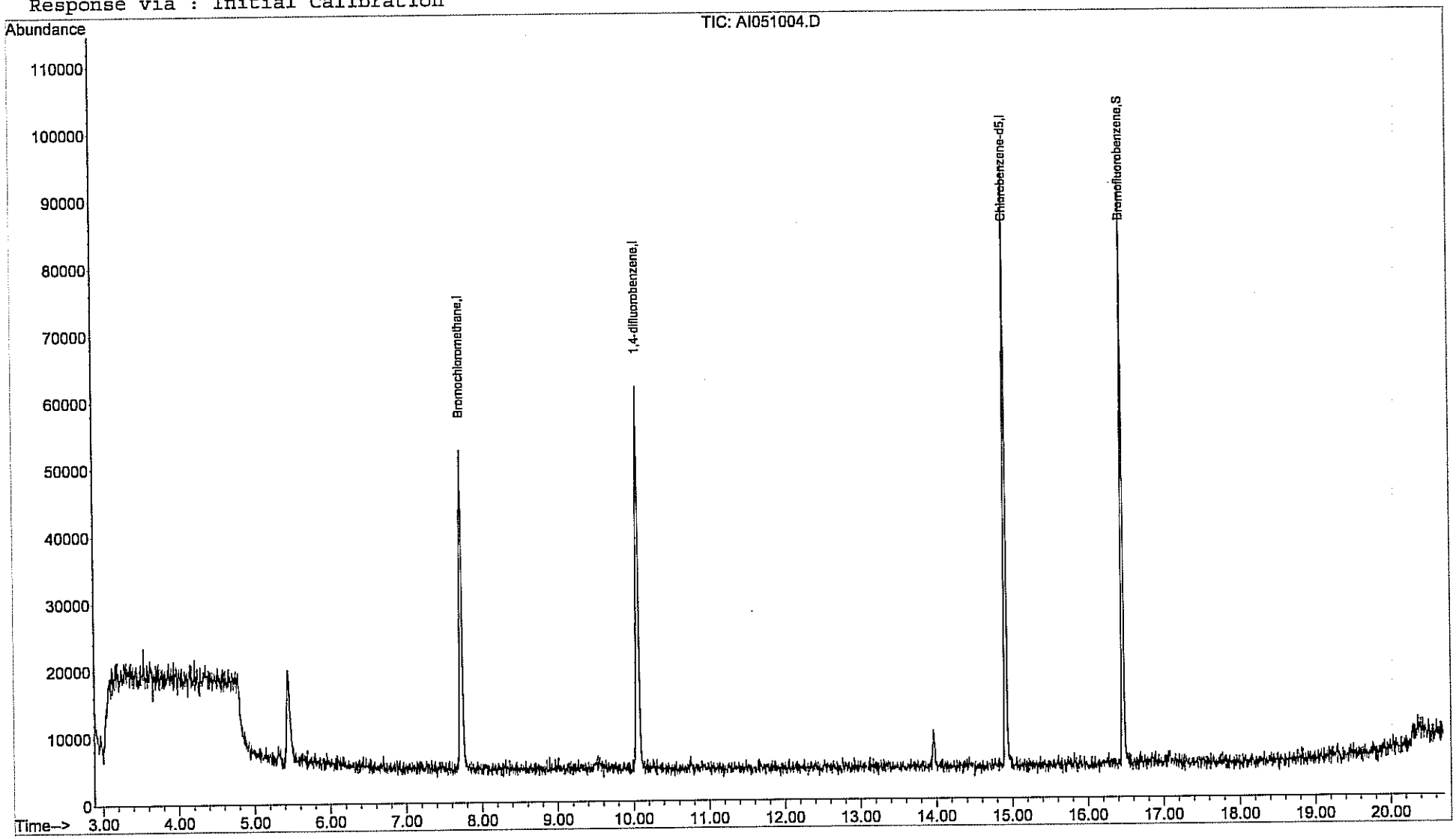
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051004.D
Acq On : 10 May 2011 2:22 pm
Sample : AMB1UG-051011
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 10 16:16 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051205.D
Acq On : 12 May 2011 2:12 pm
Sample : AMB1UG-051211
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 12 14:33:18 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.73	128	13821	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.06	114	38162	1.00	ppb	0.02
47) Chlorobenzene-d5	14.92	117	31208	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	14507	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

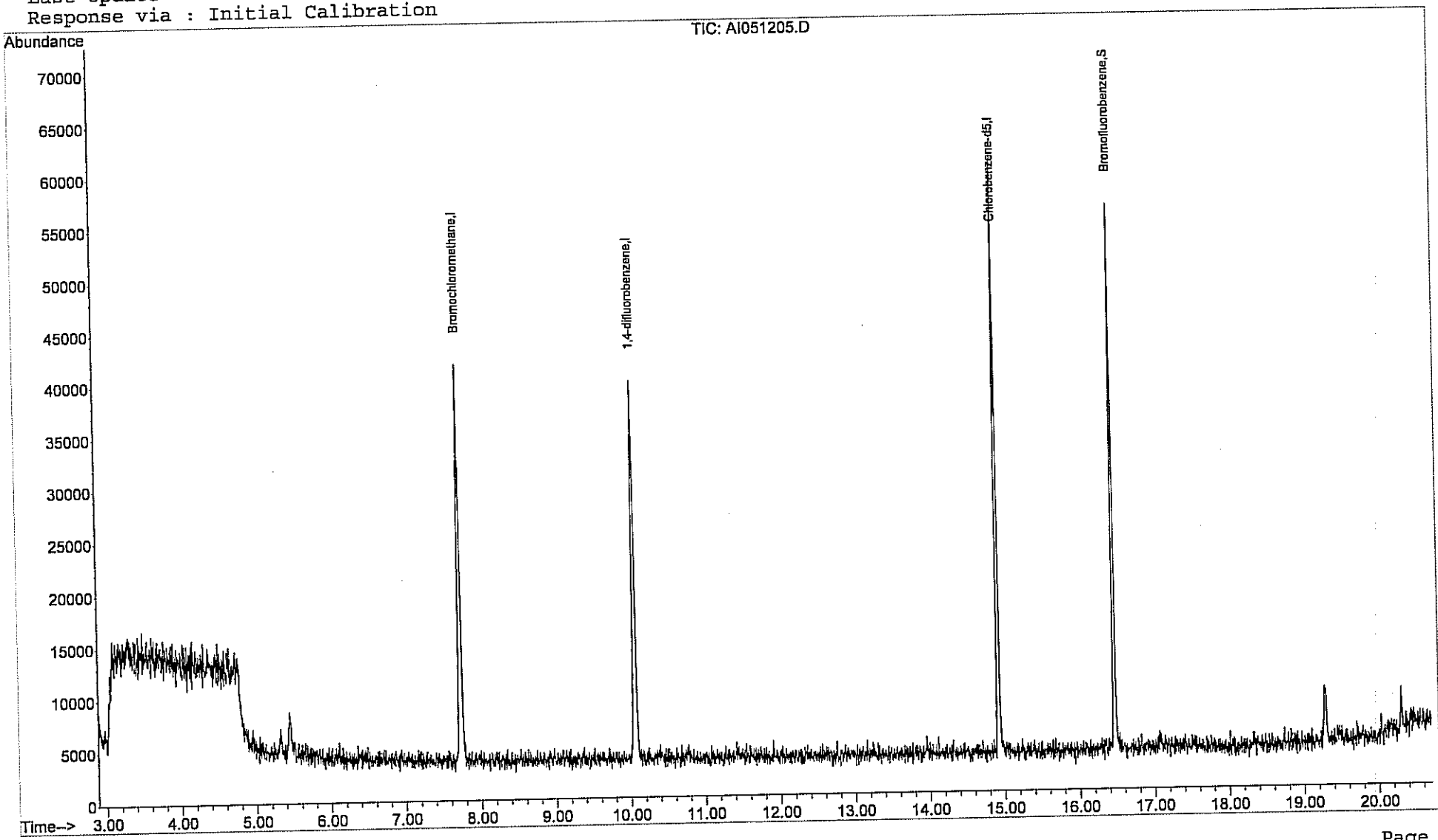
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051205.D
Acq On : 12 May 2011 2:12 pm
Sample : AMB1UG-051211
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 17 14:09 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek laboratories, LLC

Date: *04-Jun-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-051011	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/10/2011	SeqNo:	54193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	1.230	0.15	1	0	123	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	1.630	0.15	1	0	163	70	130				S
1,2,4-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,2-Dibromoethane	0.9300	0.15	1	0	93.0	70	130				
1,2-Dichlorobenzene	1.030	0.15	1	0	103	70	130				
1,2-Dichloroethane	1.080	0.15	1	0	108	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,3-butadiene	1.090	0.15	1	0	109	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.150	0.15	1	0	115	70	130				
4-ethyltoluene	0.8700	0.15	1	0	87.0	70	130				
Acetone	1.080	0.30	1	0	108	70	130				
Allyl chloride	1.200	0.15	1	0	120	70	130				
Benzene	1.070	0.15	1	0	107	70	130				
Benzyl chloride	1.150	0.15	1	0	115	70	130				
Bromodichloromethane	1.010	0.15	1	0	101	70	130				
Bromoform	0.9400	0.15	1	0	94.0	70	130				
Bromomethane	1.010	0.15	1	0	101	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID ALCS1UG-051011	SampType: LCS	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/10/2011	SeqNo: 54193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.150	0.15	1	0	115	70	130				
Carbon tetrachloride	1.030	0.040	1	0	103	70	130				
Chlorobenzene	0.9400	0.15	1	0	94.0	70	130				
Chloroethane	1.040	0.15	1	0	104	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.050	0.15	1	0	105	70	130				
cis-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8900	0.15	1	0	89.0	70	130				
Ethyl acetate	1.200	0.25	1	0	120	70	130				
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130				
Freon 11	1.000	0.15	1	0	100	70	130				
Freon 113	1.100	0.15	1	0	110	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	0.9600	0.15	1	0	96.0	70	130				
Hexachloro-1,3-butadiene	1.360	0.15	1	0	136	70	130				S
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	1.100	0.30	1	0	110	70	130				
Methyl Ethyl Ketone	1.010	0.30	1	0	101	70	130				
Methyl Isobutyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl tert-butyl ether	1.420	0.15	1	0	142	70	130				S
Methylene chloride	1.080	0.15	1	0	108	70	130				
o-Xylene	0.8800	0.15	1	0	88.0	70	130				
Propylene	1.040	0.15	1	0	104	70	130				
Styrene	0.9100	0.15	1	0	91.0	70	130				
Tetrachloroethylene	0.8200	0.15	1	0	82.0	70	130				
Tetrahydrofuran	0.9600	0.15	1	0	96.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-051011	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/10/2011	SeqNo:	54193

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethene	1.070	0.15	1	0	107	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	0.9600	0.040	1	0	96.0	70	130				
Vinyl acetate	1.260	0.15	1	0	126	70	130				
Vinyl Bromide	1.150	0.15	1	0	115	70	130				
Vinyl chloride	1.030	0.040	1	0	103	70	130				

Sample ID	ALCS1UG-051211	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1,2,2-Tetrachloroethane	1.170	0.15	1	0	117	70	130				
1,1,2-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130				
1,1-Dichloroethene	0.8700	0.15	1	0	87.0	70	130				
1,2,4-Trichlorobenzene	1.450	0.15	1	0	145	70	130				S
1,2,4-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dibromoethane	1.100	0.15	1	0	110	70	130				
1,2-Dichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2-Dichloroethane	1.220	0.15	1	0	122	70	130				
1,2-Dichloropropane	1.250	0.15	1	0	125	70	130				
1,3,5-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,3-butadiene	1.220	0.15	1	0	122	70	130				
1,3-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,4-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dioxane	0.7900	0.30	1	0	79.0	70	130				
2,2,4-trimethylpentane	1.150	0.15	1	0	115	70	130				
4-ethyltoluene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM **TestCode: 0.25CT-TCE-VC**

Sample ID ALCS1UG-051211 SampType: LCS TestCode: 0.25CT-TCE- Units: ppbV Prep Date: RunNo: 4542
Client ID: ZZZZZ Batch ID: R4542 TestNo: TO-15 Analysis Date: 5/12/2011 SeqNo: 54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.150	0.30	1	0	115	70	130				
Allyl chloride	1.280	0.15	1	0	128	70	130				
Benzene	1.230	0.15	1	0	123	70	130				
Benzyl chloride	0.9600	0.15	1	0	96.0	70	130				
Bromodichloromethane	1.170	0.15	1	0	117	70	130				
Bromoform	1.080	0.15	1	0	108	70	130				
Bromomethane	1.190	0.15	1	0	119	70	130				
Carbon disulfide	1.170	0.15	1	0	117	70	130				
Carbon tetrachloride	1.220	0.040	1	0	122	70	130				
Chlorobenzene	1.020	0.15	1	0	102	70	130				
Chloroethane	1.270	0.15	1	0	127	70	130				
Chloroform	1.180	0.15	1	0	118	70	130				
Chloromethane	1.250	0.15	1	0	125	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	1.100	0.15	1	0	110	70	130				
Dibromochloromethane	1.090	0.15	1	0	109	70	130				
Ethyl acetate	1.140	0.25	1	0	114	70	130				
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	0.8300	0.15	1	0	83.0	70	130				
Freon 114	1.170	0.15	1	0	117	70	130				
Freon 12	1.150	0.15	1	0	115	70	130				
Heptane	1.030	0.15	1	0	103	70	130				
Hexachloro-1,3-butadiene	1.520	0.15	1	0	152	70	130				S
Hexane	1.040	0.15	1	0	104	70	130				
Isopropyl alcohol	0.8000	0.15	1	0	80.0	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9700	0.30	1	0	97.0	70	130				
Methyl Isobutyl Ketone	0.9600	0.30	1	0	96.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UG-051211	SampType:	LCS	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4542
Client ID:	ZZZZZ	Batch ID:	R4542	TestNo:	TO-15			Analysis Date:	5/12/2011	SeqNo:	54215

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.190	0.15	1	0	119	70	130				
Methylene chloride	1.120	0.15	1	0	112	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	1.070	0.15	1	0	107	70	130				
Styrene	0.9400	0.15	1	0	94.0	70	130				
Tetrachloroethylene	0.9800	0.15	1	0	98.0	70	130				
Tetrahydrofuran	0.9800	0.15	1	0	98.0	70	130				
Toluene	1.040	0.15	1	0	104	70	130				
trans-1,2-Dichloroethene	1.140	0.15	1	0	114	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.040	1	0	110	70	130				
Vinyl acetate	1.180	0.15	1	0	118	70	130				
Vinyl Bromide	1.240	0.15	1	0	124	70	130				
Vinyl chloride	1.120	0.040	1	0	112	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051003.D Vial: 4
Acq On : 10 May 2011 1:48 pm Operator: RJP
Sample : ALCS1UG-051011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 14:09:19 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	18315	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.05	114	59433	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	53700	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	27352	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	13045	1.04	ppb		98
3) Freon 12	3.01	85	79789	1.07	ppb		98
4) Chloromethane	3.15	50	16810	1.05	ppb		100
5) Freon 114	3.15	85	50081	1.01	ppb		98
6) Vinyl Chloride	3.29	62	15753	1.03	ppb		98
7) 1,3-butadiene	3.36	39	11012	1.09	ppb		86
8) Bromomethane	3.61	94	20009	1.01	ppb		99
9) Ethanol	3.84	45	6430m	1.40	ppb		
10) Acrolein	4.26	56	5327	1.14	ppb		91
11) Chloroethane	3.74	64	6384	1.04	ppb		93
12) Vinyl Bromide	3.98	106	20841	1.15	ppb		99
13) Freon 11	4.19	101	53147	1.00	ppb		98
14) Acetone	4.35	58	6384	1.08	ppb		96
15) Isopropyl alcohol	4.45	45	14400	1.07	ppb		99
16) 1,1-dichloroethene	4.80	96	24982	1.11	ppb		100
17) Freon 113	4.97	101	58049	1.10	ppb		95
18) Methylene chloride	5.20	84	23384	1.08	ppb		95
19) Allyl chloride	5.18	41	19187m	1.20	ppb		
20) Carbon disulfide	5.31	76	79758	1.15	ppb		99
21) trans-1,2-dichloroethene	6.03	61	32689	1.07	ppb		97
22) methyl tert-butyl ether	6.10	73	24400m	1.42	ppb		
23) 1,1-dichloroethane	6.42	63	43046	1.23	ppb		99
24) Vinyl acetate	6.45	43	34834	1.26	ppb		95
25) Methyl Ethyl Ketone	6.95	72	6792	1.01	ppb	#	100
26) cis-1,2-dichloroethene	7.31	61	29437	1.07	ppb		97
27) Hexane	6.94	57	22205	1.05	ppb		97
28) Ethyl acetate	7.53	43	30332	1.20	ppb		99
29) Chloroform	7.89	83	63146	1.12	ppb		98
30) Tetrahydrofuran	8.10	42	12472	0.96	ppb		97
31) 1,2-dichloroethane	8.96	62	35680	1.08	ppb		98
33) 1,1,1-trichloroethane	8.67	97	54832	1.25	ppb		99
34) Cyclohexane	9.37	56	21812	0.98	ppb		94
35) Carbon tetrachloride	9.31	117	72183	1.03	ppb		100
36) Benzene	9.27	78	62544	1.07	ppb		99
37) Methyl methacrylate	11.10	41	15645	0.97	ppb		95
38) 1,4-dioxane	11.13	88	8301	0.95	ppb		91
39) 2,2,4-trimethylpentane	10.25	57	67176	1.15	ppb		99
40) Heptane	10.66	43	20423	0.96	ppb		98
41) Trichloroethene	10.75	130	38846	0.96	ppb		98
42) 1,2-dichloropropane	10.87	63	22623	1.10	ppb		100
43) Bromodichloromethane	11.26	83	62162	1.01	ppb		98
44) cis-1,3-dichloropropene	12.15	75	27232	1.12	ppb		97
45) trans-1,3-dichloropropene	12.95	75	19548	1.13	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051003.D Vial: 4
Acq On : 10 May 2011 1:48 pm Operator: RJP
Sample : ALCS1UG-051011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 10 14:09:19 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.26	97	32029	0.99	ppb	98
48)	Toluene	13.00	92	37200	1.00	ppb	97
49)	Methyl Isobutyl Ketone	12.13	43	18619	1.08	ppb	95
50)	Dibromochloromethane	13.93	129	63950	0.89	ppb	99
51)	Methyl Butyl Ketone	13.51	43	11896	1.10	ppb	85
52)	1,2-dibromoethane	14.17	107	47262	0.93	ppb	98
53)	Tetrachloroethylene	14.02	164	39480	0.82	ppb	95
54)	Chlorobenzene	14.96	112	58386	0.94	ppb	100
55)	Ethylbenzene	15.23	91	66810	0.93	ppb	99
56)	m&p-xylene	15.42	91	119085	1.93	ppb	98
57)	Styrene	15.82	104	31378	0.91	ppb	100
58)	Bromoform	15.90	173	55921	0.94	ppb	99
59)	o-xylene	15.85	91	61288	0.88	ppb	100
61)	1,1,2,2-tetrachloroethane	16.27	83	45147	0.94	ppb	99
62)	2-Chlorotoluene	16.90	91	71081	1.16	ppb	98
63)	4-ethyltoluene	17.03	105	50379	0.87	ppb	75
64)	1,3,5-trimethylbenzene	17.09	105	52982	0.88	ppb	100
65)	1,2,4-trimethylbenzene	17.50	105	34971	0.88	ppb	98
66)	1,3-dichlorobenzene	17.75	146	41380	1.00	ppb	98
67)	benzyl chloride	17.82	91	16132	1.15	ppb	95
68)	1,4-dichlorobenzene	17.87	146	40428	0.99	ppb	99
69)	1,2-dichlorobenzene	18.15	146	36901	1.03	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	16570	1.63	ppb	98
71)	Naphthalene	19.93	128	20351	1.95	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	34788	1.36	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

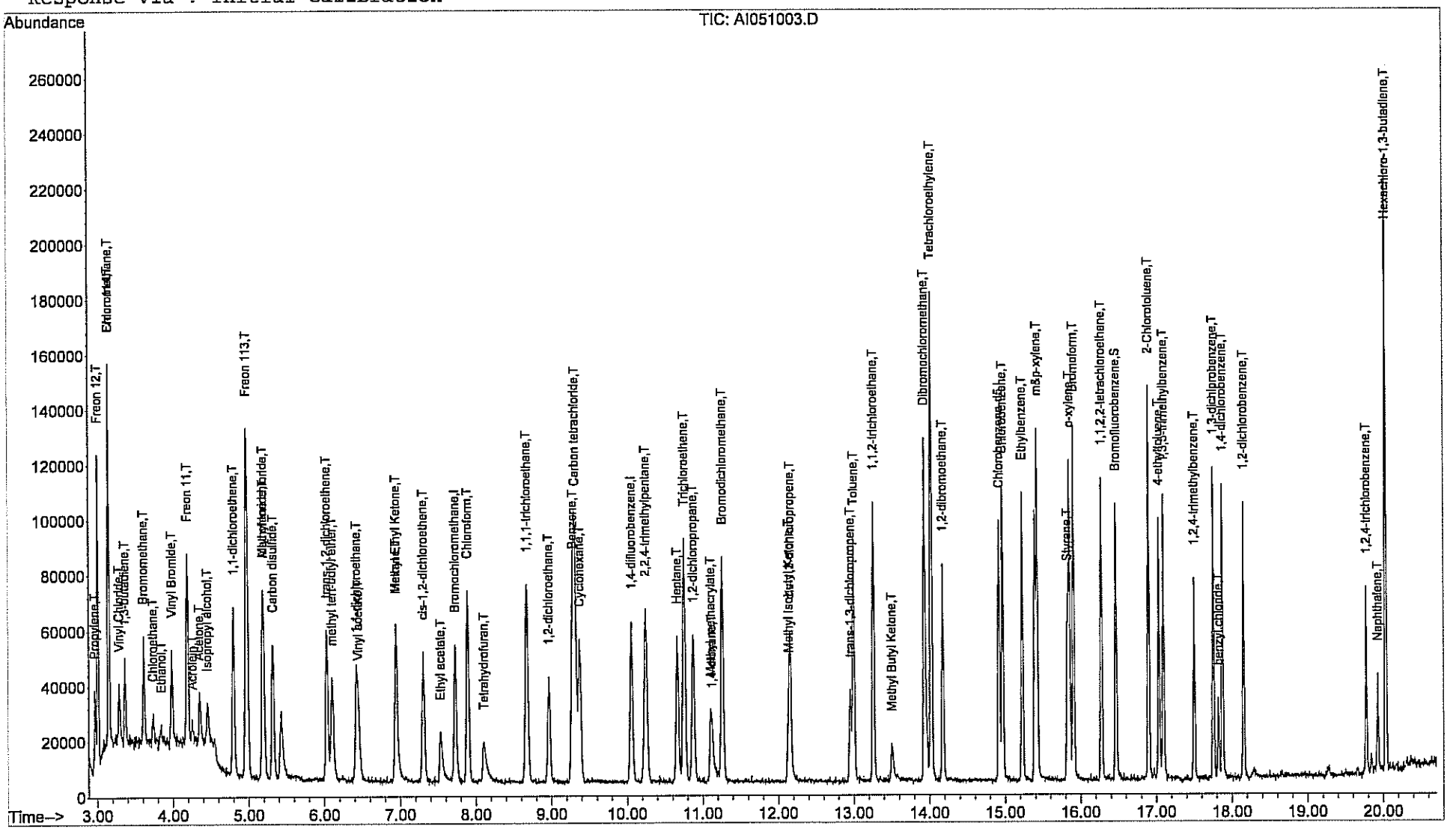
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051003.D
Acq On : 10 May 2011 1:48 pm
Sample : ALCS1UG-051011
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 10 16:16 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051204.D Vial: 4
Acq On : 12 May 2011 1:38 pm Operator: RJP
Sample : ALCS1UG-051211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 12 13:59:46 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	14134	1.00	ppb		0.01
32) 1,4-difluorobenzene	10.06	114	41009	1.00	ppb		0.02
47) Chlorobenzene-d5	14.92	117	35874	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	19369	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	10447	1.07	ppb		98
3) Freon 12	3.00	85	66643	1.15	ppb		100
4) Chloromethane	3.15	50	15475	1.25	ppb		99
5) Freon 114	3.15	85	44714	1.17	ppb		98
6) Vinyl Chloride	3.29	62	13291	1.12	ppb		99
7) 1,3-butadiene	3.36	39	9545	1.22	ppb		87
8) Bromomethane	3.61	94	18117	1.19	ppb		96
9) Ethanol	3.84	45	5103	1.44	ppb	#	36
10) Acrolein	4.26	56	3872	1.08	ppb		97
11) Chloroethane	3.74	64	6022	1.27	ppb		89
12) Vinyl Bromide	3.98	106	17374	1.24	ppb		97
13) Freon 11	4.19	101	47492	1.16	ppb		99
14) Acetone	4.35	58	5257	1.15	ppb		95
15) Isopropyl alcohol	4.45	45	8319	0.80	ppb		82
16) 1,1-dichloroethene	4.80	96	15169	0.87	ppb		99
17) Freon 113	4.97	101	33730	0.83	ppb		98
18) Methylene chloride	5.19	84	18798	1.12	ppb		96
19) Allyl chloride	5.18	41	15838	1.28	ppb		90
20) Carbon disulfide	5.32	76	62961	1.17	ppb		99
21) trans-1,2-dichloroethene	6.03	61	26790	1.14	ppb		98
22) methyl tert-butyl ether	6.11	73	15753	1.19	ppb		80
23) 1,1-dichloroethane	6.42	63	33022	1.22	ppb		98
24) Vinyl acetate	6.46	43	25075	1.18	ppb		93
25) Methyl Ethyl Ketone	6.96	72	5020	0.97	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	23552	1.11	ppb		98
27) Hexane	6.94	57	16942	1.04	ppb		95
28) Ethyl acetate	7.53	43	22234	1.14	ppb		99
29) Chloroform	7.89	83	51332	1.18	ppb		99
30) Tetrahydrofuran	8.10	42	9779	0.98	ppb		94
31) 1,2-dichloroethane	8.97	62	30929	1.22	ppb		100
33) 1,1,1-trichloroethane	8.67	97	38731m	1.28	ppb		
34) Cyclohexane	9.37	56	16880	1.10	ppb		92
35) Carbon tetrachloride	9.31	117	58965	1.22	ppb		100
36) Benzene	9.27	78	49265	1.23	ppb		99
37) Methyl methacrylate	11.11	41	10760	0.97	ppb		97
38) 1,4-dioxane	11.13	88	4750	0.79	ppb		93
39) 2,2,4-trimethylpentane	10.24	57	46277	1.15	ppb		95
40) Heptane	10.66	43	15232	1.03	ppb		99
41) Trichloroethene	10.75	130	30693	1.10	ppb		98
42) 1,2-dichloropropane	10.87	63	17699	1.25	ppb		100
43) Bromodichloromethane	11.26	83	49690	1.17	ppb		98
44) cis-1,3-dichloropropene	12.16	75	18960	1.13	ppb		98
45) trans-1,3-dichloropropene	12.95	75	13434	1.13	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051204.D
Acq On : 12 May 2011 1:38 pm
Sample : ALCS1UG-051211
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 12 13:59:46 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.26	97	26181	1.17	ppb	95
48)	Toluene	13.00	92	26064	1.04	ppb	97
49)	Methyl Isobutyl Ketone	12.14	43	11113	0.96	ppb	94
50)	Dibromochloromethane	13.93	129	51944	1.09	ppb	100
51)	Methyl Butyl Ketone	13.50	43	6148	0.85	ppb	79
52)	1,2-dibromoethane	14.18	107	37209	1.10	ppb	98
53)	Tetrachloroethylene	14.02	164	31502	0.98	ppb	95
54)	Chlorobenzene	14.96	112	42183	1.02	ppb	99
55)	Ethylbenzene	15.22	91	44720	0.93	ppb	98
56)	m&p-xylene	15.42	91	79698	1.93	ppb	99
57)	Styrene	15.82	104	21667	0.94	ppb	99
58)	Bromoform	15.90	173	42839	1.08	ppb	97
59)	o-xylene	15.85	91	40803	0.87	ppb	97
61)	1,1,2,2-tetrachloroethane	16.27	83	37504	1.17	ppb	100
62)	2-Chlorotoluene	16.90	91	49168	1.20	ppb	97
63)	4-ethyltoluene	17.03	105	32960	0.85	ppb	74
64)	1,3,5-trimethylbenzene	17.09	105	35577	0.89	ppb	100
65)	1,2,4-trimethylbenzene	17.50	105	23751	0.90	ppb	97
66)	1,3-dichlorobenzene	17.75	146	28818	1.04	ppb	97
67)	benzyl chloride	17.82	91	9016	0.96	ppb	99
68)	1,4-dichlorobenzene	17.87	146	27689	1.01	ppb	99
69)	1,2-dichlorobenzene	18.15	146	25383	1.06	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	9872	1.45	ppb	97
71)	Naphthalene	19.93	128	9529	1.36	ppb	98
72)	Hexachloro-1,3-butadiene	20.03	225	25817	1.52	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

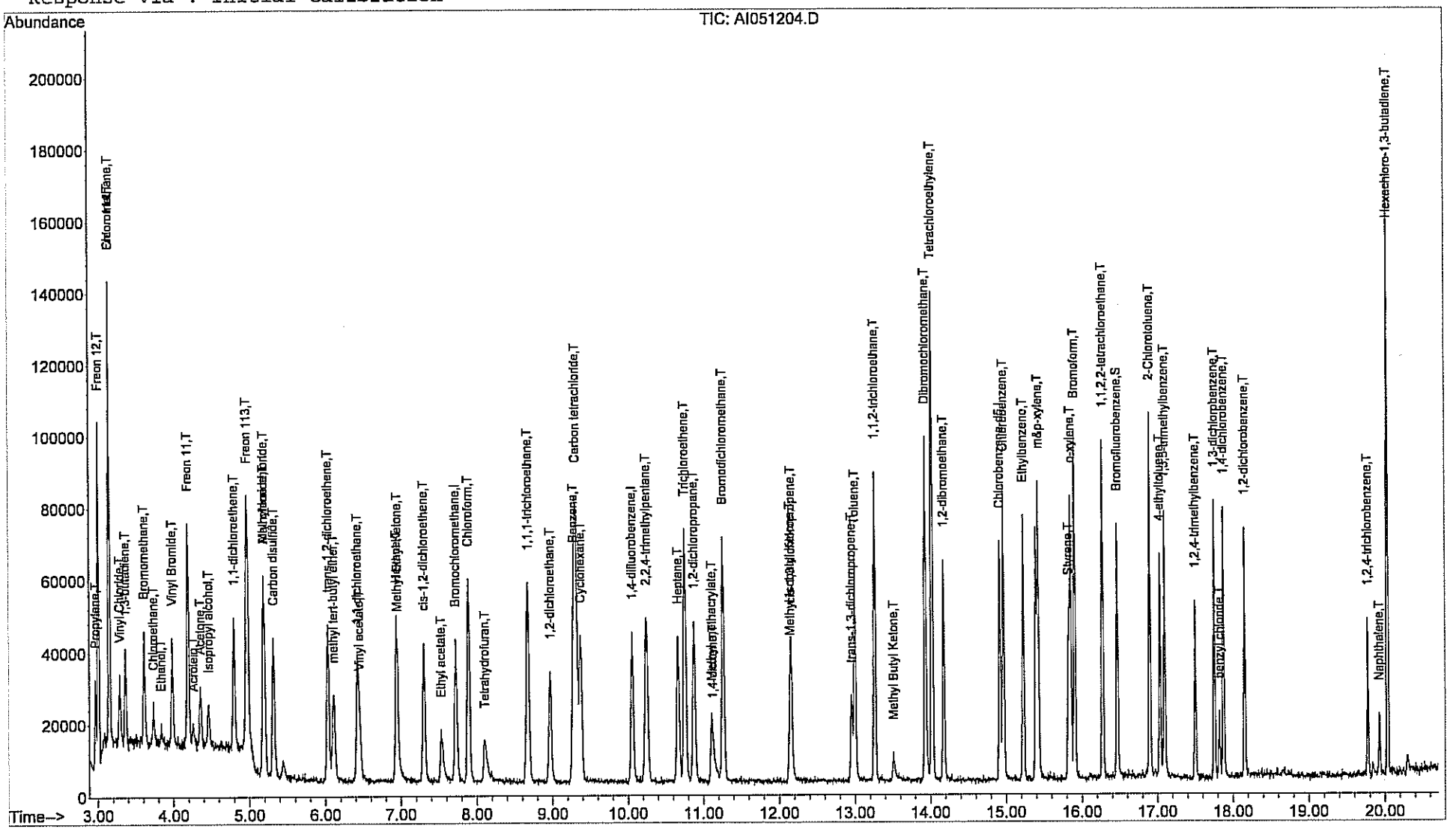
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051204.D
Acq On : 12 May 2011 1:38 pm
Sample : ALCS1UG-051211
Misc :
MS Integration Params: RTEINT.P
Quant Time: May 17 14:08 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



AI051204.D A325_1UG.M Sat Jun 04 14:16:10 2011 MSD1

Centek laboratories, LLC

Date: *04-Jun-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID ALCS1UGD-051011	SampType: LCSD	TestCode: 0.25CT-TCE-	Units: ppbV	Prep Date:	RunNo: 4541
Client ID: ZZZZZ	Batch ID: R4541	TestNo: TO-15		Analysis Date: 5/11/2011	SeqNo: 54194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130	1.25	10.6	30	S
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130	0.94	22.6	30	
1,1,2-Trichloroethane	1.290	0.15	1	0	129	70	130	0.99	26.3	30	
1,1-Dichloroethane	1.230	0.15	1	0	123	70	130	1.23	0	30	
1,1-Dichloroethene	1.140	0.15	1	0	114	70	130	1.11	2.67	30	
1,2,4-Trichlorobenzene	1.700	0.15	1	0	170	70	130	1.63	4.20	30	S
1,2,4-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	0.88	10.8	30	
1,2-Dibromoethane	1.150	0.15	1	0	115	70	130	0.93	21.2	30	
1,2-Dichlorobenzene	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
1,2-Dichloroethane	1.220	0.15	1	0	122	70	130	1.08	12.2	30	
1,2-Dichloropropane	1.270	0.15	1	0	127	70	130	1.1	14.3	30	
1,3,5-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	0.88	7.65	30	
1,3-butadiene	1.230	0.15	1	0	123	70	130	1.09	12.1	30	
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1	10.4	30	
1,4-Dichlorobenzene	1.100	0.15	1	0	110	70	130	0.99	10.5	30	
1,4-Dioxane	1.060	0.30	1	0	106	70	130	0.95	10.9	30	
2,2,4-trimethylpentane	1.250	0.15	1	0	125	70	130	1.15	8.33	30	
4-ethyltoluene	0.9000	0.15	1	0	90.0	70	130	0.87	3.39	30	
Acetone	1.100	0.30	1	0	110	70	130	1.08	1.83	30	
Allyl chloride	1.200	0.15	1	0	120	70	130	1.2	0	30	
Benzene	1.220	0.15	1	0	122	70	130	1.07	13.1	30	
Benzyl chloride	1.230	0.15	1	0	123	70	130	1.15	6.72	30	
Bromodichloromethane	1.320	0.15	1	0	132	70	130	1.01	26.6	30	S
Bromoform	1.130	0.15	1	0	113	70	130	0.94	18.4	30	
Bromomethane	1.220	0.15	1	0	122	70	130	1.01	18.8	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID	ALCS1UGD-051011	SampType:	LCSD	TestCode:	0.25CT-TCE-	Units:	ppbV	Prep Date:		RunNo:	4541
Client ID:	ZZZZZ	Batch ID:	R4541	TestNo:	TO-15			Analysis Date:	5/11/2011	SeqNo:	54194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.200	0.15	1	0	120	70	130	1.15	4.26	30	
Carbon tetrachloride	1.370	0.040	1	0	137	70	130	1.03	28.3	30	S
Chlorobenzene	1.060	0.15	1	0	106	70	130	0.94	12.0	30	
Chloroethane	1.200	0.15	1	0	120	70	130	1.04	14.3	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.12	4.37	30	
Chloromethane	1.200	0.15	1	0	120	70	130	1.05	13.3	30	
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130	1.07	2.76	30	
cis-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130	1.12	11.0	30	
Cyclohexane	1.090	0.15	1	0	109	70	130	0.98	10.6	30	
Dibromochloromethane	1.120	0.15	1	0	112	70	130	0.89	22.9	30	
Ethyl acetate	1.180	0.25	1	0	118	70	130	1.2	1.68	30	
Ethylbenzene	0.9700	0.15	1	0	97.0	70	130	0.93	4.21	30	
Freon 11	1.190	0.15	1	0	119	70	130	1	17.4	30	
Freon 113	1.230	0.15	1	0	123	70	130	1.1	11.2	30	
Freon 114	1.170	0.15	1	0	117	70	130	1.01	14.7	30	
Freon 12	1.210	0.15	1	0	121	70	130	1.07	12.3	30	
Heptane	1.060	0.15	1	0	106	70	130	0.96	9.90	30	
Hexachloro-1,3-butadiene	1.680	0.15	1	0	168	70	130	1.36	21.1	30	S
Hexane	0.9800	0.15	1	0	98.0	70	130	1.05	6.90	30	
Isopropyl alcohol	1.050	0.15	1	0	105	70	130	1.07	1.89	30	
m&p-Xylene	2.000	0.30	2	0	100	70	130	1.93	3.56	30	
Methyl Butyl Ketone	1.020	0.30	1	0	102	70	130	1.1	7.55	30	
Methyl Ethyl Ketone	1.120	0.30	1	0	112	70	130	1.01	10.3	30	
Methyl Isobutyl Ketone	1.040	0.30	1	0	104	70	130	1.08	3.77	30	
Methyl tert-butyl ether	1.100	0.15	1	0	110	70	130	1.42	25.4	30	
Methylene chloride	1.190	0.15	1	0	119	70	130	1.08	9.69	30	
o-Xylene	0.9500	0.15	1	0	95.0	70	130	0.88	7.65	30	
Propylene	1.080	0.15	1	0	108	70	130	1.04	3.77	30	
Styrene	0.9400	0.15	1	0	94.0	70	130	0.91	3.24	30	
Tetrachloroethylene	1.070	0.15	1	0	107	70	130	0.82	26.5	30	
Tetrahydrofuran	0.8000	0.15	1	0	80.0	70	130	0.96	18.2	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1105011
Project: Griffis AFB B774/B776 SSVM

TestCode: 0.25CT-TCE-VC

Sample ID ALCS1UGD-051011 SampType: LCSD TestCode: 0.25CT-TCE- Units: ppbV Prep Date: RunNo: 4541
Client ID: ZZZZZ Batch ID: R4541 TestNo: TO-15 Analysis Date: 5/11/2011 SeqNo: 54194

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.040	0.15	1	0	104	70	130	1	3.92	30	
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130	1.07	3.67	30	
trans-1,3-Dichloropropene	1.180	0.15	1	0	118	70	130	1.13	4.33	30	
Trichloroethene	1.200	0.040	1	0	120	70	130	0.96	22.2	30	
Vinyl acetate	1.040	0.15	1	0	104	70	130	1.26	19.1	30	
Vinyl Bromide	1.320	0.15	1	0	132	70	130	1.15	13.8	30	S
Vinyl chloride	1.170	0.040	1	0	117	70	130	1.03	12.7	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051026.D Vial: 30
Acq On : 11 May 2011 4:43 am Operator: RJP
Sample : ALCS1UGD-051011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 05:03:57 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	15134	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.05	114	40289	1.00	ppb		0.01
47) Chlorobenzene-d5	14.92	117	37261	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.46	95	19019	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	11288	1.08	ppb		96
3) Freon 12	3.00	85	74967	1.21	ppb		100
4) Chloromethane	3.15	50	15949	1.20	ppb		98
5) Freon 114	3.15	85	47653	1.17	ppb		96
6) Vinyl Chloride	3.28	62	14852	1.17	ppb		99
7) 1,3-butadiene	3.36	39	10341	1.23	ppb		85
8) Bromomethane	3.61	94	19990	1.22	ppb		99
9) Ethanol	3.83	45	4834	1.28	ppb	#	38
10) Acrolein	4.25	56	4696	1.22	ppb		98
11) Chloroethane	3.73	64	6079	1.20	ppb		85
12) Vinyl Bromide	3.98	106	19845	1.32	ppb		99
13) Freon 11	4.19	101	52160	1.19	ppb		99
14) Acetone	4.35	58	5363m	1.10	ppb		
15) Isopropyl alcohol	4.45	45	11685	1.05	ppb		92
16) 1,1-dichloroethene	4.80	96	21201	1.14	ppb		99
17) Freon 113	4.97	101	53550	1.23	ppb		99
18) Methylene chloride	5.19	84	21385	1.19	ppb		92
19) Allyl chloride	5.17	41	15891	1.20	ppb		93
20) Carbon disulfide	5.31	76	68948	1.20	ppb		100
21) trans-1,2-dichloroethene	6.03	61	27952	1.11	ppb		98
22) methyl tert-butyl ether	6.09	73	15621	1.10	ppb	#	70
23) 1,1-dichloroethane	6.42	63	35707	1.23	ppb		99
24) Vinyl acetate	6.45	43	23658	1.04	ppb		95
25) Methyl Ethyl Ketone	6.94	72	6199	1.12	ppb	#	100
26) cis-1,2-dichloroethene	7.30	61	24937	1.10	ppb		100
27) Hexane	6.94	57	17072	0.98	ppb		95
28) Ethyl acetate	7.53	43	24490	1.18	ppb		97
29) Chloroform	7.88	83	54266	1.17	ppb		99
30) Tetrahydrofuran	8.10	42	8577	0.80	ppb		84
31) 1,2-dichloroethane	8.96	62	33275	1.22	ppb		97
33) 1,1,1-trichloroethane	8.67	97	41171m	1.39	ppb		
34) Cyclohexane	9.37	56	16405	1.09	ppb		88
35) Carbon tetrachloride	9.30	117	65222	1.37	ppb		99
36) Benzene	9.27	78	48231	1.22	ppb		99
37) Methyl methacrylate	11.10	41	11288	1.04	ppb		99
38) 1,4-dioxane	11.13	88	6232	1.06	ppb		81
39) 2,2,4-trimethylpentane	10.24	57	49592	1.25	ppb		94
40) Heptane	10.66	43	15292	1.06	ppb		95
41) Trichloroethene	10.75	130	32854	1.20	ppb		98
42) 1,2-dichloropropane	10.87	63	17595m	1.27	ppb		
43) Bromodichloromethane	11.25	83	54944	1.32	ppb		96
44) cis-1,3-dichloropropene	12.16	75	20556	1.25	ppb		96
45) trans-1,3-dichloropropene	12.95	75	13855	1.18	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051026.D Vial: 30
Acq On : 11 May 2011 4:43 am Operator: RJP
Sample : ALCS1UGD-051011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 11 05:03:57 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

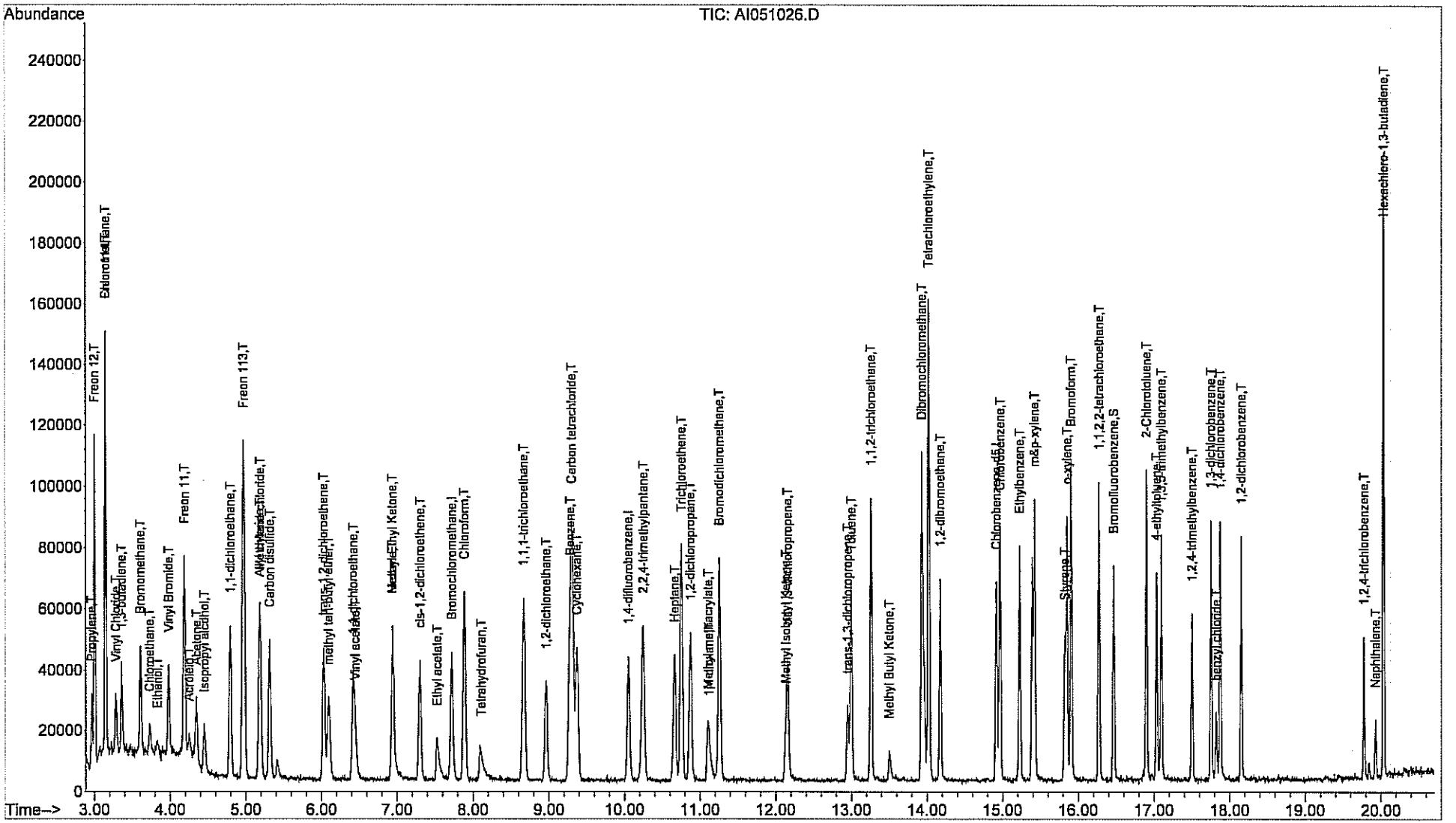
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.26	97	28425	1.29	ppb	97
48)	Toluene	13.00	92	26923	1.04	ppb	98
49)	Methyl Isobutyl Ketone	12.12	43	12500	1.04	ppb	94
50)	Dibromochloromethane	13.93	129	55664	1.12	ppb	100
51)	Methyl Butyl Ketone	13.50	43	7652	1.02	ppb	86
52)	1,2-dibromoethane	14.17	107	40507	1.15	ppb	99
53)	Tetrachloroethylene	14.02	164	35660	1.07	ppb	98
54)	Chlorobenzene	14.96	112	45649	1.06	ppb	99
55)	Ethylbenzene	15.22	91	48504	0.97	ppb	100
56)	m&p-xylene	15.42	91	85729	2.00	ppb	99
57)	Styrene	15.82	104	22668	0.94	ppb	99
58)	Bromoform	15.90	173	46827	1.13	ppb	100
59)	o-xylene	15.85	91	46165	0.95	ppb	98
61)	1,1,2,2-tetrachloroethane	16.27	83	39133	1.18	ppb	98
62)	2-Chlorotoluene	16.90	91	51590	1.22	ppb	98
63)	4-ethyltoluene	17.03	105	36232	0.90	ppb	74
64)	1,3,5-trimethylbenzene	17.09	105	39578	0.95	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	27000	0.98	ppb	100
66)	1,3-dichlorobenzene	17.75	146	31975	1.11	ppb	97
67)	benzyl chloride	17.82	91	12023	1.23	ppb	96
68)	1,4-dichlorobenzene	17.87	146	31300	1.10	ppb	97
69)	1,2-dichlorobenzene	18.15	146	28278	1.13	ppb	97
70)	1,2,4-trichlorobenzene	19.77	180	11980	1.70	ppb	95
71)	Naphthalene	19.93	128	11143	1.54	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	29769	1.68	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI051026.D Vial: 30
Acq On : 11 May 2011 4:43 am Operator: RJP
Sample : ALCS1UGD-051011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: May 17 14:11 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8383
Standard Stock #(s) 8384
LCS Stock #(s) 8385
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1UG	A0325 01			A325_10W		3/25/11	1131		
	A1UG - 1.0	02								
	2.0	03								
	0.15	04								
	1.5	05								
	1.25	06								
	0.50	08								
	0.10	09								
	0.30	10								
	0.04	11								
	ALCS1UG - 032511	12	-	20u						
	AMB1UG ↓	13	-	↓						
	WA<032511A	14	-							
	B	15	-							
	C	16	-							
	D	17	-							
	C1102025-001	18	-	↓					RUSS	
	↓ DL	19	10	20					↓	
	↓ ↓	20	40	5						
	001	21	-	200					LEO DUPE	
	↓ DL	22	10	20					↓	
	↓ ↓	23	40	5			↓			
	C1103053-001	24	-	200			3/26/11	0025		
	002	25	-	↓						
	003	26	-							
	004	27	-							
	005	28	-							
	006	29	-	↓	↓		↓	0310		

Analyzed by: [signature]

Page No: 29

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8479
Standard Stock #(s) 80
LCS Stock #(s) 81
Method Reference: Toxic Organic Componds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1105012-001	AI05025	-	200	A325-10L		5/11/11	0625		
	003 DL	30	10	20	↓		↓			
	002 ↓	31	↓	↓						
	001 ↓	32	↓	↓			↓	0806		
	BLK	33	-	-	↓					
	BFB10L	AI05101	-	-	A325-10L		5/11/11	1007		
	A10L-1.0	03	-	200	↓		↓			
	ALCS10L-051111	04	-	↓						
	AMB10L ↓	05	-	↓						
	C1105012-003 DL	09	40	5						
	002 ↓	10	↓	↓						
	001 ↓	11	↓	↓			↓	1632		
	BLK	12	-	-	↓					

Analyzed by: [signature]

Page No: 51

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8479
Standard Stock #(s) 80
LCS Stock #(s) 81
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	AZ051001	-	-	A325_10U		5/10/11	1020		
	AIUG-1.0	02	-	200						
	ALCSIUG-051011	03	-							
	AMBIUG ↓	04	-							
	C1105002-001	05	-	↓						
	↓ DL	06	10	20						
	C1105011-010	07	-	200						
	001	08	-							
	002	09	-							
	003	10	-							
	004	11	-							
	005	12	-							
	006	13	-							
	007	14	-							
	008	15	-							
	009	16	-	↓						
	001 DL	17	10	20			↘			
	002	18	↓	↓			5/11/11	0003		
	003	19					↓			
	004	20								
	005	21								
	006	22								
	007	23								
	008	24								
	009 ↓	25	↓	↓						
	ALCSIUGD-051011	26	-	200						
	C1105012-003	27	-	↓						
	002	28	-	↓	↓		↓	0551		

Analyzed by: [signature]

Page No: 50

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓	
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	% VARIES	1L	MATHESON TRI-GAS		M	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621	↓	↓	↓ STD(A)	7617/7384/7618	↓	↓	↓	↓	↓	
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓	
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓	
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓	

RECERT. ON 3/11 EXP 3/12

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8314	2/14/11	2/21/11	TO15/UG LCS	8307	50ppm	0.9psig	45psia	1ppm	mm	
8315	↓	↓	IS B	8305	↓	↓	↓	↓	↓	
8316	↓	↓	STD B	8306	↓	↓	↓	↓	↓	
8317	2/14/11	2/14/12	TO15 IS	AB 100321	1ppm	LINDE GAS			mm	
8318	2/15/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8319	2/16/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8320	2/17/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8321	2/21/11	2/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	mm	
8322	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	
8323			LCS	7743AB						
8324			4PCH	7384						
8325			FORM	7068	36.5%	1.1UG	50psia	10ppm		
8326			FORM STD	830925	10ppm	0.23psig	45psia	50ppb		
8327			SULFUR	6194	1ppm	1.5psig	30psia	50ppb		
8328			TO15/UG IS A	8321	50ppb	0.9psig	45psia	1ppb		
8329			STD B	8322						
8330			LCS	8323						
8331			IS B	8321						
8332	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8333	3/1/11	3/7/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppm	MD	
8334	↓	↓	STD	7617/18	↓	↓	↓	↓		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743AHB	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8339	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD B	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46						
8349			LCS	~~8345~~ 7617/18	↓	↓	↓	↓		
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SIL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.9 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8461	5/2/11	5/9/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	AD	
8462	5/2/11	5/9/11	STD	8345/8346					AMP	
8463			LCS	7617/7618						
8464			4PCH	7384						
8465			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8466			FORM 50	8465	10ppm	0.23psig	45psia	50ppb		
8467			SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb		
8468	5/2/11	5/9/11	TO15 UG IS (A)	8461	50ppb	0.9psig	45psia	1ppb		
			STD (A)	8462						
			LCS	8463						
8469	5/5/11	5/9/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.I	
8470			IS	8317						
8471			STD	8345/8346						
8472	5/9/11	5/16/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.I	
8473			STD	8345/8346						
8474			LCS	7617/7618						
8475			4PCH	7384						
8476			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8477			FORM 50	8476	10ppm	0.23psig	45psia	50ppb		
8478			SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb		
8479	5/9/11	5/16/11	TO15 UG IS (A)	8472	50ppb	0.9psig	45psia	1ppb		

Page # 9

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8480	5/9/11	5/16/11	TO15 10G STD (A)	8473	50ppb	0.9psig	45psia	1ppb	M	
8481	↓	↓	↓ LCS	8474	↓	↓	↓	↓	↓	
8482	5/12/11	5/16/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8483	5/13/11	5/16/11	TO15 10G IS (B)	8482	50ppb	0.9psig	45psia	1ppb	↓	
8484	↓	↓	↓ STD (B)	8473	↓	↓	↓	↓	↓	
8485	5/14/11	5/16/11	TO15 10G IS (A)	8482	50ppb	0.9psig	45psia	1ppb	M	
8486	5/16/11	5/23/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8487	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8488			LCS	7617/7618						
8489			4PCH	7384	↓	↓	↓	↓		
8490			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8491			FORM50	8490	10ppm	0.23psig	45psia	50ppb		
8492	↓	↓	SILX/SILF	6194/7046	1ppm	1.5psig	30psia	50ppb	↓	
8493	5/16/11	5/23/11	TO15 10G IS (A)	8486	50ppb	0.9psig	45psia	1ppb	M	
8494	↓	↓	↓ STD (A)	8487	↓	↓	↓	↓	↓	
8495	↓	↓	↓ LCS	8488	↓	↓	↓	↓	↓	
8496	5/18/11	5/23/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8497	5/18/11	5/23/11	TO15 LCSTD (B)	8487	50ppb	0.9psig	45psia	1ppb	↓	
8498	↓	↓	↓ IS (B)	8496	↓	↓	↓	↓	↓	
8499	5/23/11	5/30/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8500	↓	↓	↓ STD	8345/8346	↓	↓	↓	↓	↓	

Page 362 of 370

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
197	236	30	04/11/11	WAC041111A	1ug/m³ +0.25	+ 30	+ 30
327					TCE, CT, VNCC	+	+
334						+	+
495						+	+
236						+	+
419	542			WAC041111B		+	+
222						+	+
284						+	+
131						+	+
542						+	+
481	88			WAC041111C		+	+
370						+	+
129						+	+
221						+	+
88						+	+
89	543			WAC041111D		+	+
193						+	+
229						+	+
553						+	+
543						+	+
417	365			WAC041111E		+	+
237						+	+
207						+	+
347						+	+
365						+	+

Cleaned by: _____

Page # 196

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041106.D Vial: 7
Acq On : 11 Apr 2011 12:08 pm Operator: RJP
Sample : WAC041111A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 11 12:28:53 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

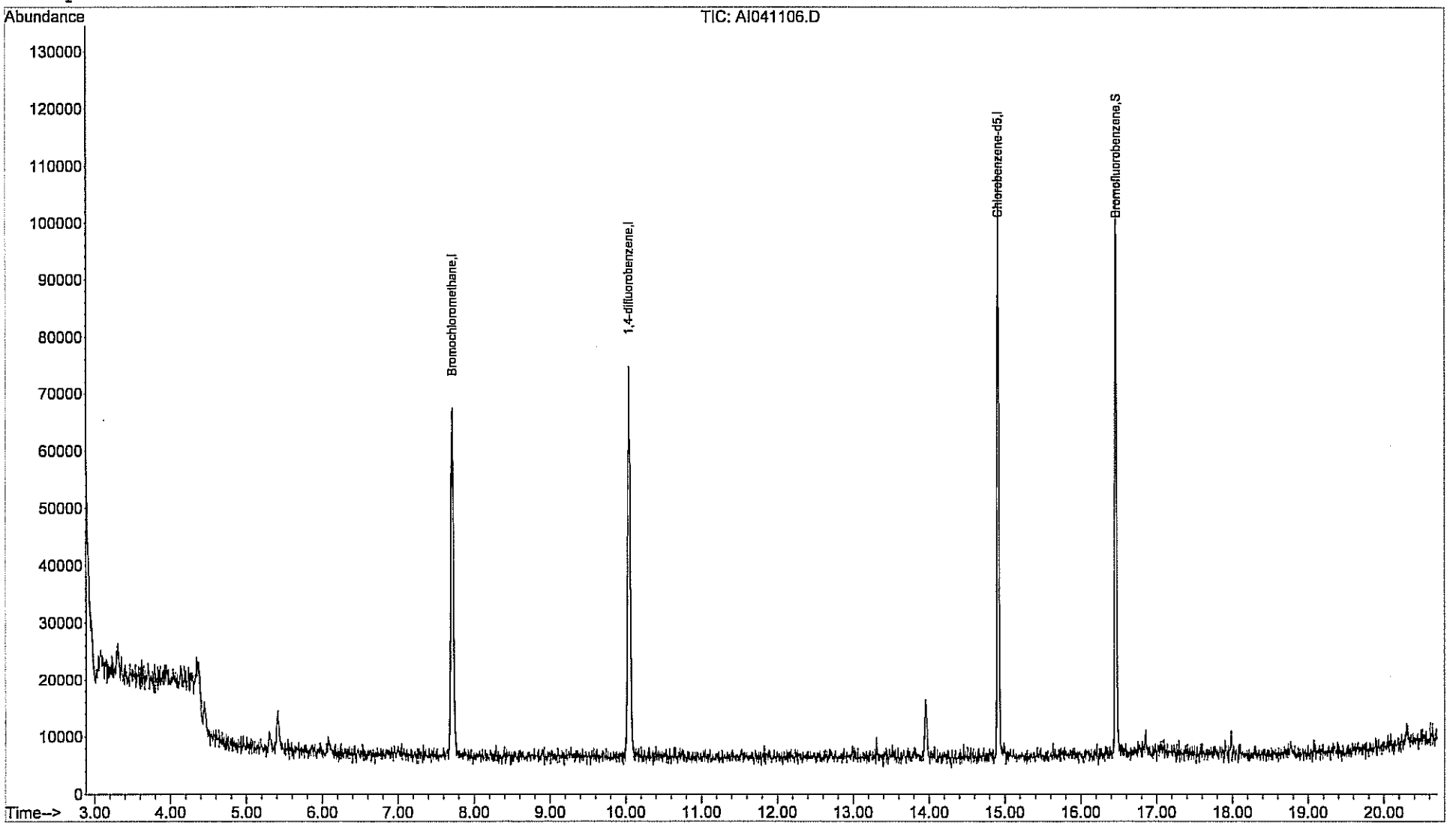
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	22118	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	68719	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	58848	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	27748	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041106.D A325_1UG.M Wed Jul 06 14:01:34 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041106.D Vial: 7
Acq On : 11 Apr 2011 12:08 pm Operator: RJP
Sample : WAC041111A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 12 10:02 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041107.D Vial: 8
Acq On : 11 Apr 2011 1:08 pm Operator: RJP
Sample : WAC041111B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 11 13:28:59 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

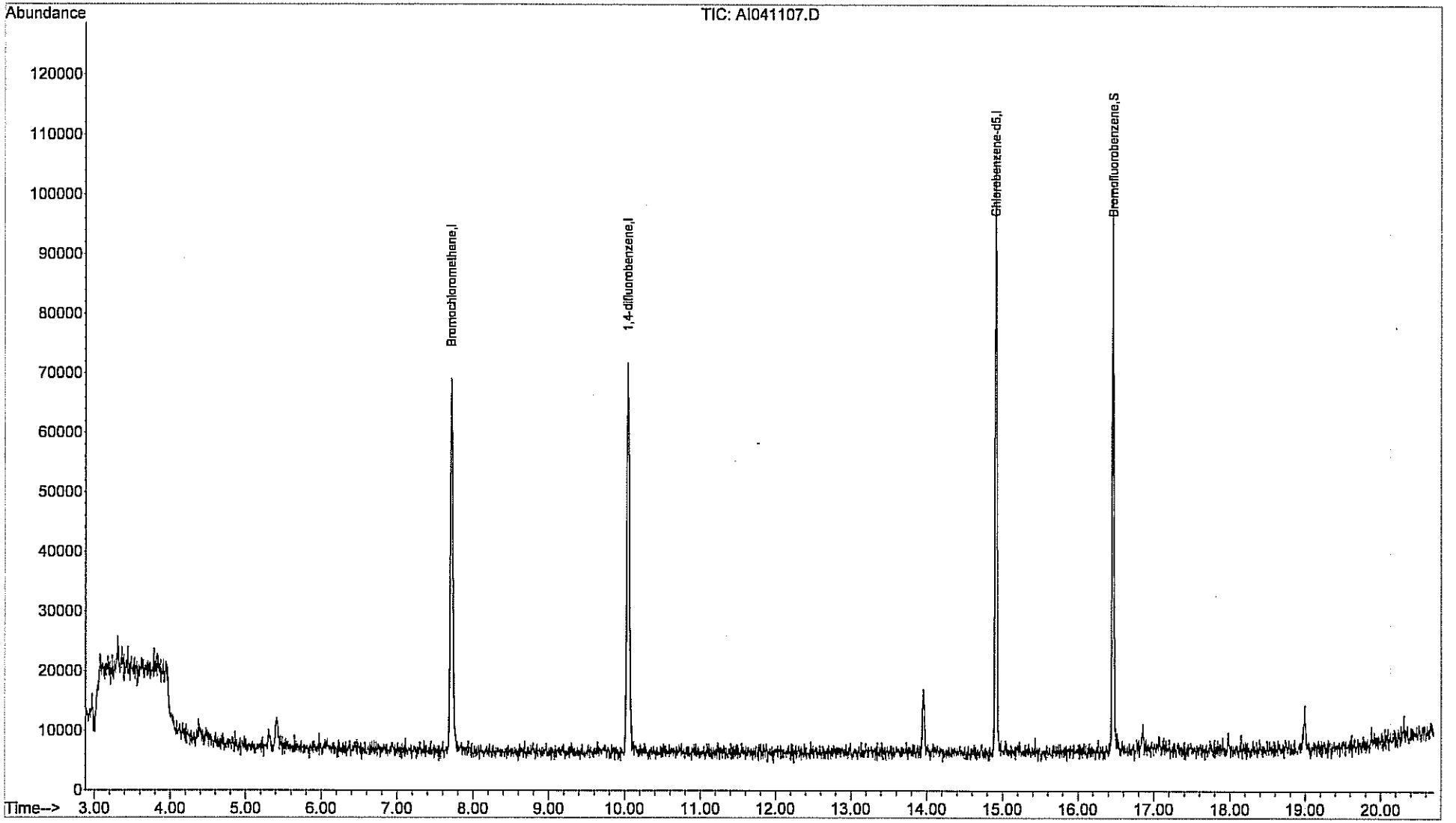
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	23008	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	67096	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	56335	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	26671	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041107.D A325_1UG.M Wed Jul 06 14:01:36 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041107.D Vial: 8
Acq On : 11 Apr 2011 1:08 pm Operator: RJP
Sample : WAC041111B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 12 10:02 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041108.D Vial: 9
Acq On : 11 Apr 2011 1:43 pm Operator: RJP
Sample : WAC041111C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 11 14:03:56 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 11 10:05:38 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

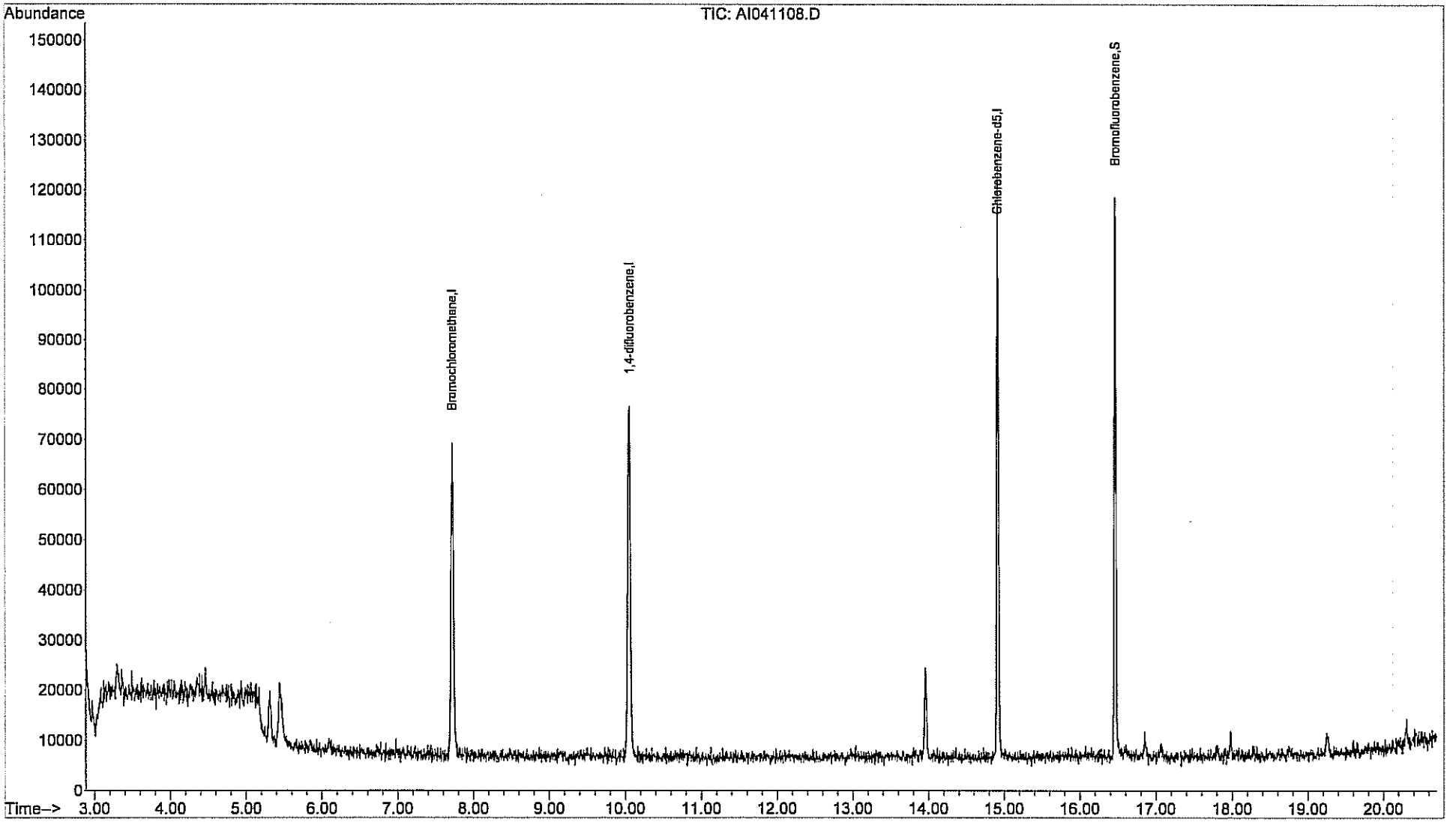
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	24021	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.05	114	76973	1.00	ppb	0.02
47) Chlorobenzene-d5	14.91	117	66478	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	31647	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041108.D A325_1UG.M Wed Jul 06 14:01:39 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AI041108.D Vial: 9
Acq On : 11 Apr 2011 1:43 pm Operator: RJP
Sample : WAC041111C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 12 10:02 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek laboratories, LLC

TO-15 Package Review Checklist

Client: FPM-Group Project: B774/B776SSV SDG: C1106007

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		

Comments: SEE CASE NARRATIVE

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits	✓		
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: *NO MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B774/B776 SSVM SDG: C1106007

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete			✓

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 7/21/11

QC Supervisor: [signature] Date: 7/21/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Monday, June 13, 2011
Order No.: C1106007

RE: B774/B776 SSVM

Dear Katrina Mattice:

Centek Laboratories, LLC received 3 sample(s) on 6/6/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Qnality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continning Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *21-Jul-11*

CLIENT: FPM Group
Project: B774/B776 SSVM
Lab Order: C1106007

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.See Corrective Action: [2234] IS did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 09-Jun-11 **Corrective Action Report ID:** 2234

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was high and did not meet criteria for samples C1106007-001. Based on the chromatographic evidence this is most likely due to matrix interference it appears to be a fuel.

Description of Corrective Action: Sample was analyzed further as dilutions with results meeting criteria. All other QC met criteria.

Performed By: Russell Pellegrino **Completion Date:** 13-Jun-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 14-Jun-11

QA Officer Approval: Nick Scala QA Date: 14-Jun-11

Last Updated BY russ2 Updated: 21-Jul-2011 10:58 AM Reported: 21-Jul-2011 10:58 A

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B774 / B776 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: K Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
785786CA0100AA	785785-CA	5/19	1415	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 95 PID = 2209 ppb
785786CA0200AA	785786-CA	5/19	1420	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 85, PID = 28 ppb
Trip Blank	051911TB	5/19	1425	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 94

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

Canister # 88: Do Not Analyze, indoor air sample collected when window was opened, recollected sample

Canister # 542: Do Not Analyze, this canister did not read as having an applied vacuum on regulator gauge during and attempt to collect sample.

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K Mattice	Date: 6/3/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time:	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 5/2/11	#2 Received by: (Sig)	Date: 6/6/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1300	Company Name: Centek	Time: 1000	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike .
SD = Matrix Spike Duplicate

Date: *21-Jul-11*

CENTEK LABORATORIES, LLC

CLIENT: FPM Group
Project: B774/B776 SSVM
Lab Order: C1106007

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1106007-001A	785786CA0100AA	95	5/19/2011	6/6/2011
C1106007-002A	785786CA0200AA5/19/11	85	5/19/2011	6/6/2011
C1106007-003A	TRIP BLANK	94	5/19/2011	6/6/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: **FPM-ROME** Date and Time Received **6/6/2011**

Work Order Number **C1106007** Received by: JDS

Checklist completed by _____ 6/6/11 Reviewed by _____ 6/6/11
Signature Date Initials Date

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

Lab Order: C1106007
Client: FPM Group
Project: B774/B776 SSVM

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1106007-001A	785786CA0100AA	5/19/2011	Air	1ug/M3 by Method TO15			6/13/2011
				1ug/M3 by Method TO15			6/9/2011
				1ug/M3 by Method TO15			6/9/2011
				1ug/M3 by Method TO15			6/9/2011
C1106007-002A	785786CA0200AA5/19/11			1ug/M3 by Method TO15			6/9/2011
				1ug/M3 by Method TO15			6/9/2011
C1106007-003A	TRIP BLANK			1ug/M3 by Method TO15			6/9/2011

Page 12 of 192

Centek Laboratories, LLC

SampleTrackingHistory 7/21/2011

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1106007-001A	Login	6/6/2011 2:16:20 PM	jans	Sample Log In
C1106007-003A	Login	6/6/2011 2:18:14 PM	jans	Sample Log In
C1106007-002A	Login	6/6/2011 2:18:14 PM	jans	Sample Log In
C1106007-001A	Transfer	6/9/2011 10:58:49 AM	ADM	GC/MS Lab
C1106007-002A	Transfer	6/9/2011 10:58:49 AM	ADM	GC/MS Lab
C1106007-003A	Transfer	6/9/2011 10:58:49 AM	ADM	GC/MS Lab
C1106007-001A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed
C1106007-002A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed
C1106007-003A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2335

21-Jul-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 153 Brook Road
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 252
Project:

Submitted By:

Ship Date: 4/29/2011
VIA: FedEx
Due Date: 5/2/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	1
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	6

Can / Reg ID	Description
85	1L Mini-Can - 1098
94	1L Mini-Can - 1086
95	1L Mini-Can - 1087
128	1L Mini-Can - 1076
178	Time-Set Reg - 665
292	Time-Set Reg - 715
306	Time-Set Reg - 729
381	Time-Set Reg - 755
393	Time-Set Reg - 772
437	Time-Set Reg - 816
463	1L Mini-Can - 1366
464	1L Mini-Can - 1367
476	1L Mini-Can - 1378
797	Shipping Cooler L

Comments: 6 1L @ 12 hrs. Include a trip blank. She needs for sampling on Mkonday 5/2/11 WAC 041911 A-F, 042611 A

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.87	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	1.3	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	63	6.0		ppbV	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Acetone	76	12		ppbV	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzene	0.60	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroform	12	1.5		ppbV	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Cyclohexane	51	6.0		ppbV	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.3	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 11	0.25	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 113	0.10	0.15	J	ppbV	1	6/9/2011 6:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 12	0.50	0.15		ppbV	1	6/9/2011 6:43:00 PM
Heptane	32	6.0		ppbV	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Hexane	42	6.0		ppbV	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
m&p-Xylene	3.7	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	6.8	3.0		ppbV	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Methylene chloride	0.39	0.15		ppbV	1	6/9/2011 6:43:00 PM
o-Xylene	1.5	0.15		ppbV	1	6/9/2011 6:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	36	6.0		ppbV	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	170	120		ppbV	810	6/13/2011 1:51:00 PM
Toluene	1.4	0.15		ppbV	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Trichloroethene	630	120		ppbV	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	6.9	0.75		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	6.3	0.75		ug/m3	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	300	28		ug/m3	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Acetone	180	29		ug/m3	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:43:00 PM
Benzene	1.9	0.49		ug/m3	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:43:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:43:00 PM
Chloroform	59	7.4		ug/m3	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	17	6.0		ug/m3	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Cyclohexane	180	21		ug/m3	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
Ethylbenzene	5.9	0.66		ug/m3	1	6/9/2011 6:43:00 PM
Freon 11	1.4	0.86		ug/m3	1	6/9/2011 6:43:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	6/9/2011 6:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Uuits	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Heptane	130	25		ug/m3	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Hexane	150	21		ug/m3	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:43:00 PM
m&p-Xylene	16	1.3		ug/m3	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	20	9.0		ug/m3	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:43:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	6/9/2011 6:43:00 PM
o-Xylene	6.5	0.66		ug/m3	1	6/9/2011 6:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	250	41		ug/m3	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	510	360		ug/m3	810	6/13/2011 1:51:00 PM
Toluene	5.6	0.57		ug/m3	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Trichloroethene	3500	660		ug/m3	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Acetone	2.2	0.30		ppbV	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroform	0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.24	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 12	0.27	0.15		ppbV	1	6/9/2011 7:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.29	0.30	J	ppbV	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	6.3	1.5		ppbV	10	6/9/2011 10:40:00 PM
Toluene	0.12	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.55	0.75	J	ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Acetone	5.3	0.72		ug/m3	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 7:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.32	0.47	J	ug/m3	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 7:26:00 PM
Chloroform	0.74	0.74		ug/m3	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.97	0.60		ug/m3	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 7:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	1.4	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.53	1.3	J	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.87	0.90	J	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 7:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	19	4.5		ug/m3	10	6/9/2011 10:40:00 PM
Toluene	0.46	0.57	J	ug/m3	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Trichloroethene	1.3	0.82		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:01:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:01:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 6:01:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:01:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 6:01:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 06-Jul-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-060911	113							
ALCS1UG-061311	111							
AMB1UG-060911	96.0							
AMB1UG-061311	92.0							
C1106007-001A	122							
C1106007-002A	116							
C1106007-003A	93.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Center Laboratories, LLC

Tune File : C:\HPCHEM\1\DATA\AI060903.D
Tune Time : 9 Jun 2011 11:30 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI060903.D

File	Sample	DL	(BFB) Surrogate Recovery %	(IS1) 36570	(IS2) 100404	(IS3) 97689
				Internal Standard Responses		
AI060904.D	ALCS1UG-060911		113	35439	93734	92053
AI060905.D	AMB1UG-060911		96	36521	94114	88931
AI060911.D	C1106007-003A		93	34098	90271	81811
AI060912.D	C1106007-001A		122	36141	119692	138487*
AI060913.D	C1106007-002A		116	44121	126771	121265
AI060917.D	C1106007-001A	10x	125	35292	104969	114750
AI060918.D	C1106007-002A	10x	101	35651	91150	84242
AI060919.D	C1106007-001A	40x	117	33793	93695	101139
AI060925.D	ALCS1UGD-060911		114	36425	89985	89708

t - fails 24hr time check * - fails criteria

Created: Wed Jul 06 17:37:21 2011 MSD #1/

Tune File : C:\HPCHEM\1\DATA\AI061302.D
Tune Time : 13 Jun 2011 10:29 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI061302.D

File	Sample	DL	Surrogate Recovery % (BFB)	Internal Standard Responses (IS1) 34653	(IS2) 100100	(IS3) 99980
AI061303.D	ALCS1UG-061311		111	36093	103158	98686
AI061304.D	AMB1UG-061311		92	34780	81235	78190
AI061307.D	C1106007-001A 810X		86	33638	79162	74093

t - fails 24hr time check * - fails criteria

Created: Wed Jul 06 17:47:22 2011 MSD #1/

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4611
Client ID: ZZZZZ	Batch ID: R4611	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.060	0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	70	130				
1,2,4-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130				
1,3,5-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,3-butadiene	1.160	0.15	1	0	116	70	130				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.200	0.15	1	0	120	70	130				
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	0.8900	0.15	1	0	89.0	70	130				
Benzene	1.110	0.15	1	0	111	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	1.040	0.15	1	0	104	70	130				
Bromoform	1.050	0.15	1	0	105	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4611
Client ID: ZZZZZ	Batch ID: R4611	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130				
Carbon tetrachloride	0.9500	0.15	1	0	95.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.060	0.15	1	0	106	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	1.190	0.15	1	0	119	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	1.090	0.25	1	0	109	70	130				
Ethylbenzene	1.090	0.15	1	0	109	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	1.080	0.15	1	0	108	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	1.130	0.15	1	0	113	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.190	0.15	1	0	119	70	130				
Isopropyl alcohol	1.180	0.15	1	0	118	70	130				
m&p-Xylene	2.390	0.30	2	0	120	70	130				
Methyl Butyl Ketone	0.8000	0.30	1	0	80.0	70	130				
Methyl Ethyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	1.120	0.15	1	0	112	70	130				
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	1.270	0.15	1	0	127	70	130				
Propylene	1.110	0.15	1	0	111	70	130				
Styrene	1.100	0.15	1	0	110	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.050	0.15	1	0	105	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4611
Client ID: ZZZZZ	Batch ID: R4611	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.110	0.15	1	0	111	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.030	0.15	1	0	103	70	130				

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4612
Client ID: ZZZZZ	Batch ID: R4612	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	70	130				
1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	0.9200	0.15	1	0	92.0	70	130				
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene	0.8400	0.15	1	0	84.0	70	130				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-061311	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4612
Client ID:	ZZZZZ	Batch ID:	R4612	TestNo:	TO-15			Analysis Date:	6/13/2011	SeqNo:	54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.010	0.30	1	0	101	70	130				
Allyl chloride	0.9200	0.15	1	0	92.0	70	130				
Benzene	0.9500	0.15	1	0	95.0	70	130				
Benzyl chloride	1.020	0.15	1	0	102	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.000	0.15	1	0	100	70	130				
Carbon disulfide	1.190	0.15	1	0	119	70	130				
Carbon tetrachloride	0.8200	0.15	1	0	82.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.9500	0.15	1	0	95.0	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8700	0.15	1	0	87.0	70	130				
Ethyl acetate	1.080	0.25	1	0	108	70	130				
Ethylbenzene	0.9500	0.15	1	0	95.0	70	130				
Freon 11	0.9700	0.15	1	0	97.0	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9500	0.15	1	0	95.0	70	130				
Hexachloro-1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
Hexane	1.090	0.15	1	0	109	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.940	0.30	2	0	97.0	70	130				
Methyl Butyl Ketone	0.8200	0.30	1	0	82.0	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4612
Client ID: ZZZZZ	Batch ID: R4612	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.050	0.15	1	0	105	70	130				
Methylene chloride	0.9300	0.15	1	0	93.0	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9900	0.15	1	0	99.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8900	0.15	1	0	89.0	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
trans-1,3-Dichloropropene	0.8600	0.15	1	0	86.0	70	130				
Trichloroethene	0.8600	0.15	1	0	86.0	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	0.9800	0.15	1	0	98.0	70	130				
Vinyl chloride	0.9500	0.15	1	0	95.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek Laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek Laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\%D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.87	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	1.3	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	63	6.0		ppbV	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Acetone	76	12		ppbV	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzene	0.60	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroform	12	1.5		ppbV	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Cyclohexane	51	6.0		ppbV	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	1.3	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 11	0.25	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 113	0.10	0.15	J	ppbV	1	6/9/2011 6:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 12	0.50	0.15		ppbV	1	6/9/2011 6:43:00 PM
Heptane	32	6.0		ppbV	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Hexane	42	6.0		ppbV	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
m&p-Xylene	3.7	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	6.8	3.0		ppbV	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Methylene chloride	0.39	0.15		ppbV	1	6/9/2011 6:43:00 PM
o-Xylene	1.5	0.15		ppbV	1	6/9/2011 6:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	36	6.0		ppbV	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	170	120		ppbV	810	6/13/2011 1:51:00 PM
Toluene	1.4	0.15		ppbV	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Trichloroethene	630	120		ppbV	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	6.9	0.75		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	6.3	0.75		ug/m3	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	300	28		ug/m3	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Acetone	180	29		ug/m3	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:43:00 PM
Benzene	1.9	0.49		ug/m3	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:43:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:43:00 PM
Chloroform	59	7.4		ug/m3	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	17	6.0		ug/m3	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Cyclohexane	180	21		ug/m3	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
Ethylbenzene	5.9	0.66		ug/m3	1	6/9/2011 6:43:00 PM
Freon 11	1.4	0.86		ug/m3	1	6/9/2011 6:43:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	6/9/2011 6:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Heptane	130	25		ug/m3	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Hexane	150	21		ug/m3	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:43:00 PM
m&p-Xylene	16	1.3		ug/m3	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	20	9.0		ug/m3	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:43:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	6/9/2011 6:43:00 PM
o-Xylene	6.5	0.66		ug/m3	1	6/9/2011 6:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	250	41		ug/m3	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	510	360		ug/m3	810	6/13/2011 1:51:00 PM
Toluene	5.6	0.57		ug/m3	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Trichloroethene	3500	660		ug/m3	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060912.D Vial: 28
Acq On : 9 Jun 2011 6:43 pm Operator: RJP
Sample : C1106007-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 19:04:39 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

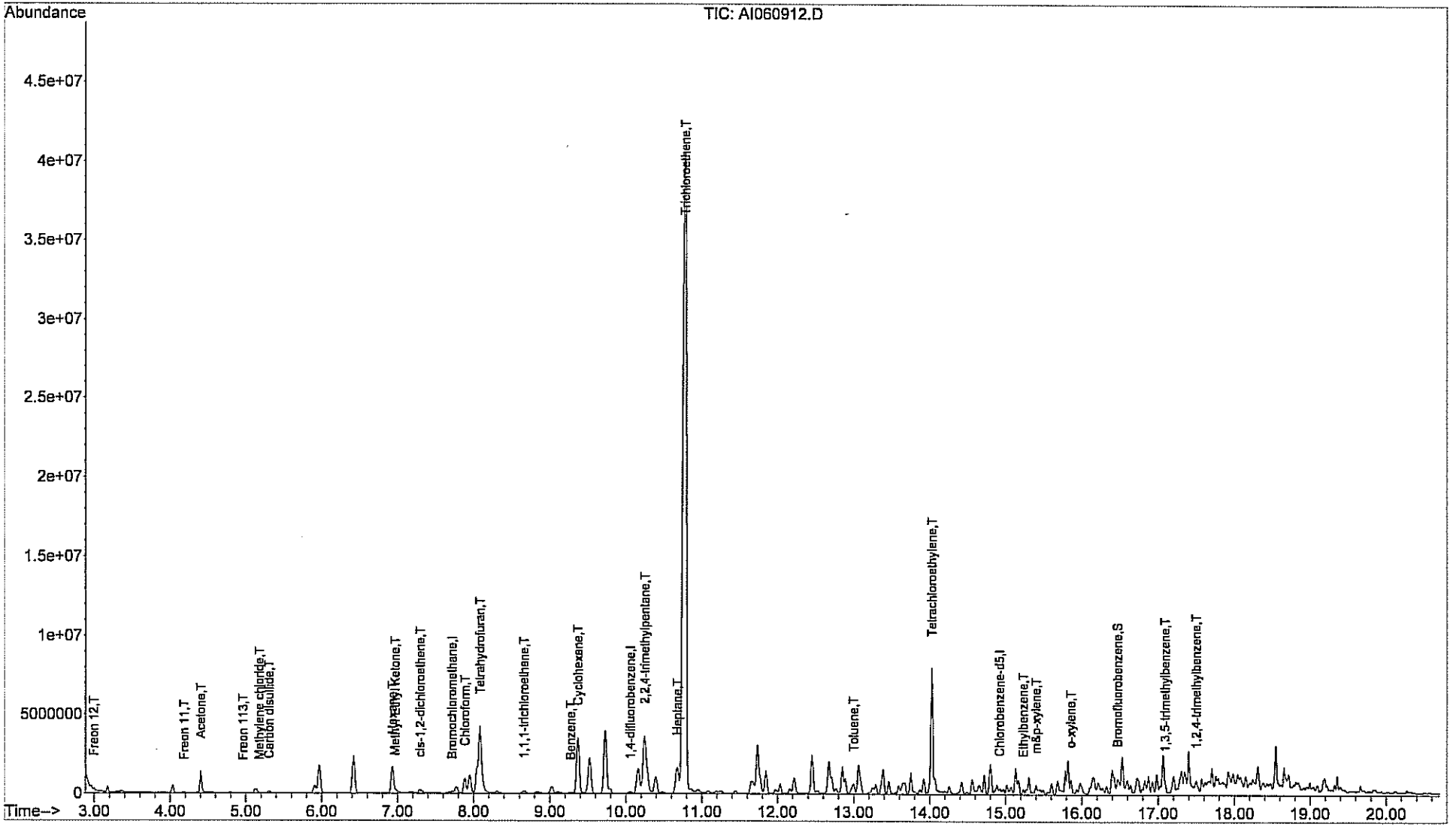
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	36141	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.06	114	119692	1.00	ppb		-0.01
47) Chlorobenzene-d5	14.92	117	138487	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	72252m	1.22	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 122.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	62123	0.50	ppb		98
13) Freon 11	4.18	101	20977	0.25	ppb		98
14) Acetone	4.40	58	330226	38.12	ppb	#	57
17) Freon 113	4.96	101	6173	0.10	ppb		97
18) Methylene chloride	5.18	84	10743	0.39	ppb		97
20) Carbon disulfide	5.31	76	198310	2.18	ppb		93
25) Methyl Ethyl Ketone	6.97	72	81756	9.98	ppb	#	85
26) cis-1,2-dichloroethene	7.30	61	140096	3.84	ppb		96
27) Hexane	6.93	57	947770	38.19	ppb	#	80
29) Chloroform	7.88	83	848599	9.50	ppb		77
30) Tetrahydrofuran	8.08	42	3352962	224.04	ppb		89
33) 1,1,1-trichloroethane	8.67	97	109223	0.87	ppb		99
34) Cyclohexane	9.37	56	984536	28.19	ppb	#	30
36) Benzene	9.28	78	69740	0.60	ppb		91
39) 2,2,4-trimethylpentane	10.24	57	4488566	38.80	ppb		78
40) Heptane	10.67	43	996560	26.88	ppb		98
41) Trichloroethene	10.77	130	24063471	346.47	ppb		99
48) Toluene	13.00	92	99304	1.45	ppb		98
53) Tetrachloroethylene	14.03	164	1840473	21.48	ppb		98
55) Ethylbenzene	15.23	91	152809	1.34	ppb		99
56) m&p-xylene	15.40	91	358879	3.72	ppb		99
59) o-xylene	15.86	91	173899	1.48	ppb		99
64) 1,3,5-trimethylbenzene	17.10	105	125625	1.26	ppb		97
65) 1,2,4-trimethylbenzene	17.50	105	94215	1.39	ppb		94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

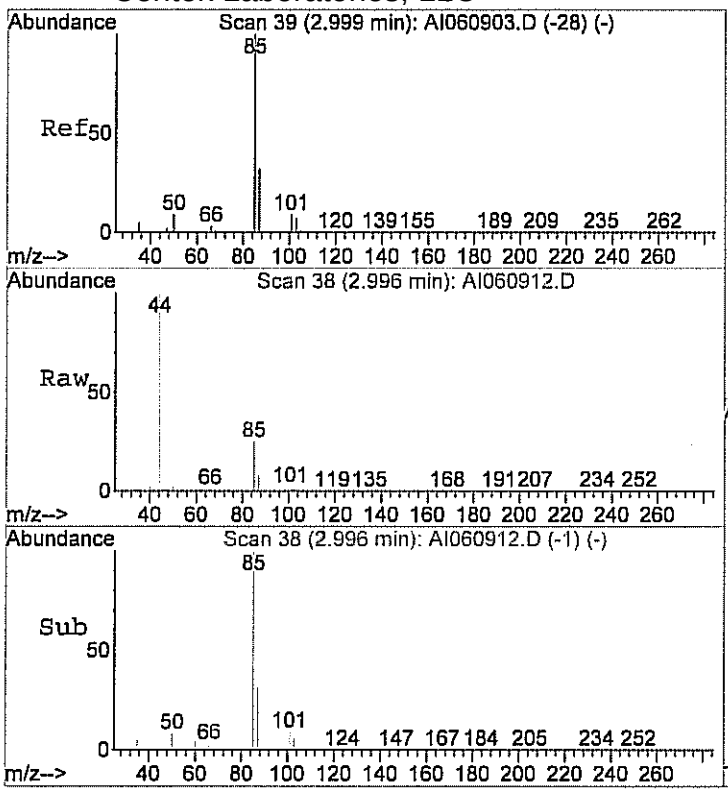
Data File : C:\HPCHEM\1\DATA\AI060912.D
Acq On : 9 Jun 2011 6:43 pm
Sample : C1106007-001A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:25 2011

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



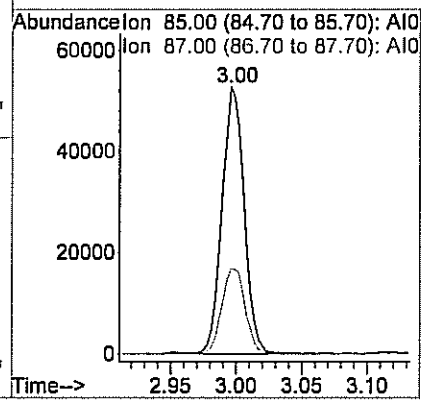
Centek Laboratories, LLC

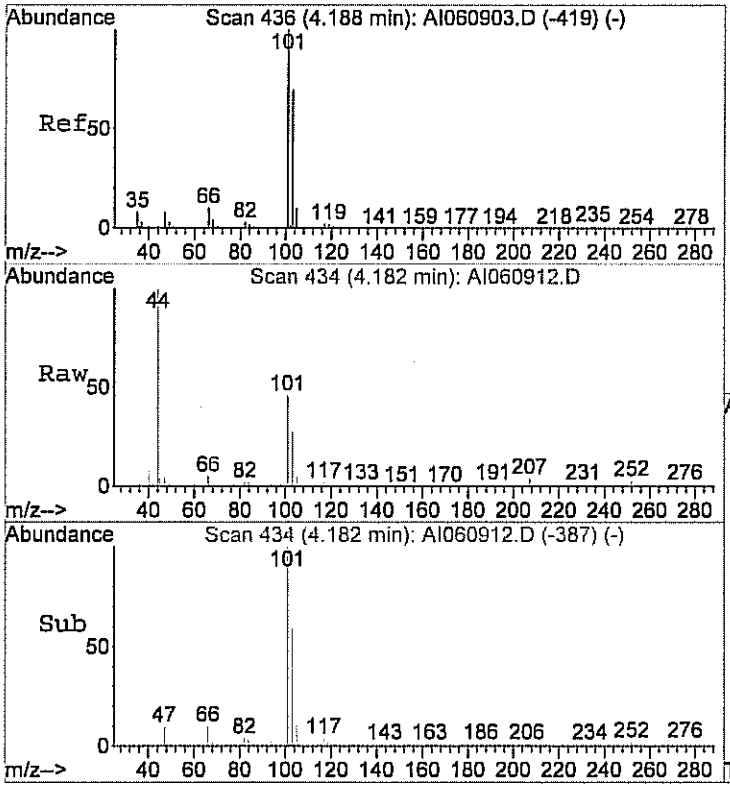


#3
Freon 12
Concen: 0.50 ppb
RT: 3.00 min Scan# 38
Delta R.T. -0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 85 Resp: 62123

Ion	Ratio	Lower	Upper
85	100		
87	33.7	12.5	52.5

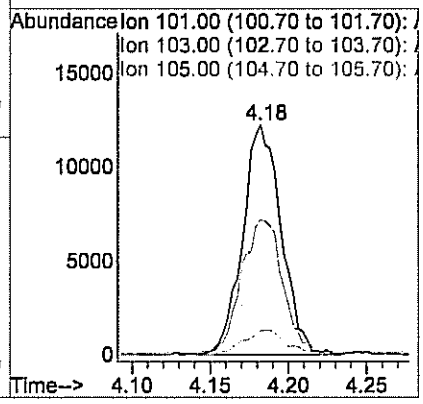


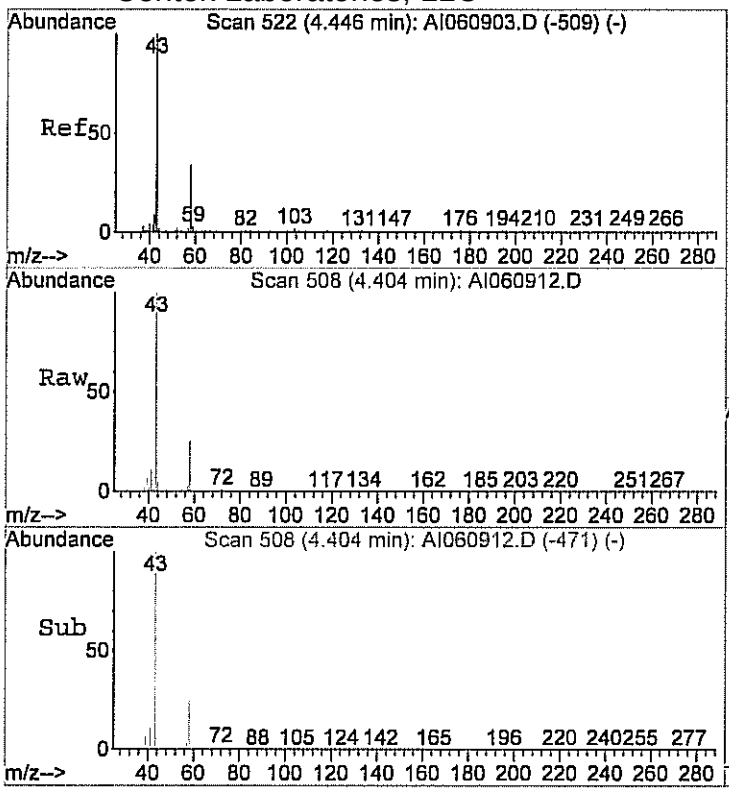


#13
Freon 11
Concen: 0.25 ppb
RT: 4.18 min Scan# 434
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:101 Resp: 20977

Ion	Ratio	Lower	Upper
101	100		
103	64.9	46.5	86.5
105	11.7	0.0	31.6

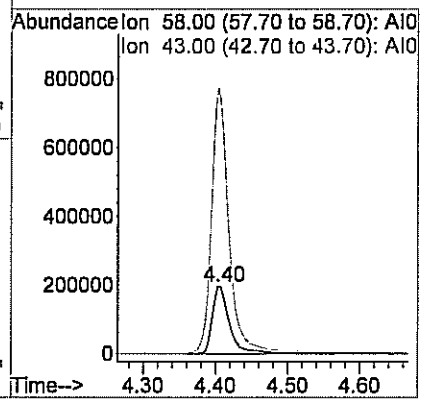


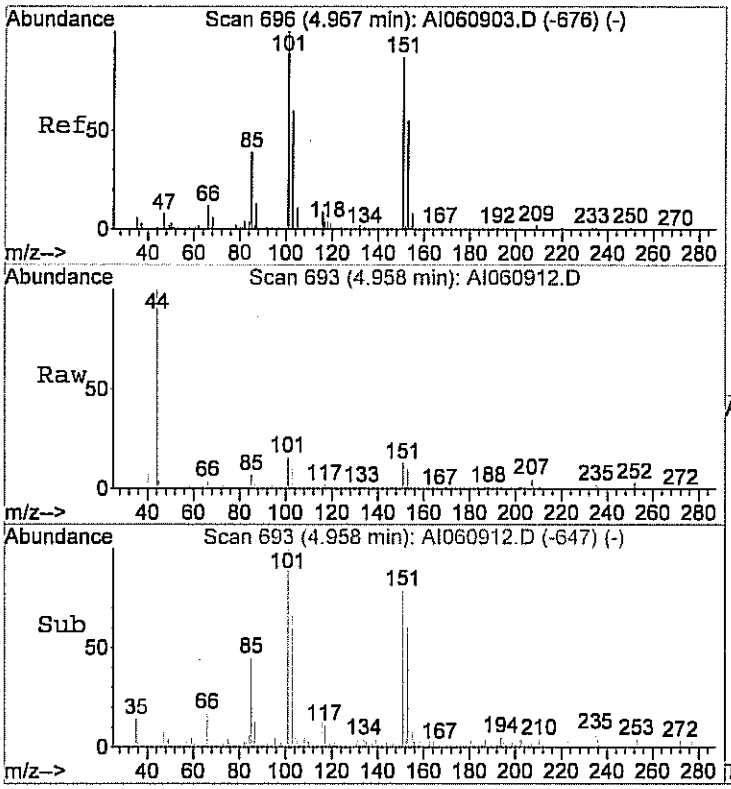


#14
Acetone
Concen: 38.12 ppb
RT: 4.40 min Scan# 508
Delta R.T. -0.04 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 58 Resp: 330226

Ion	Ratio	Lower	Upper
58	100		
43	398.1	282.0	342.0#

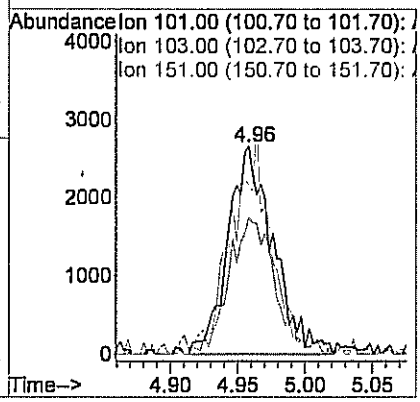


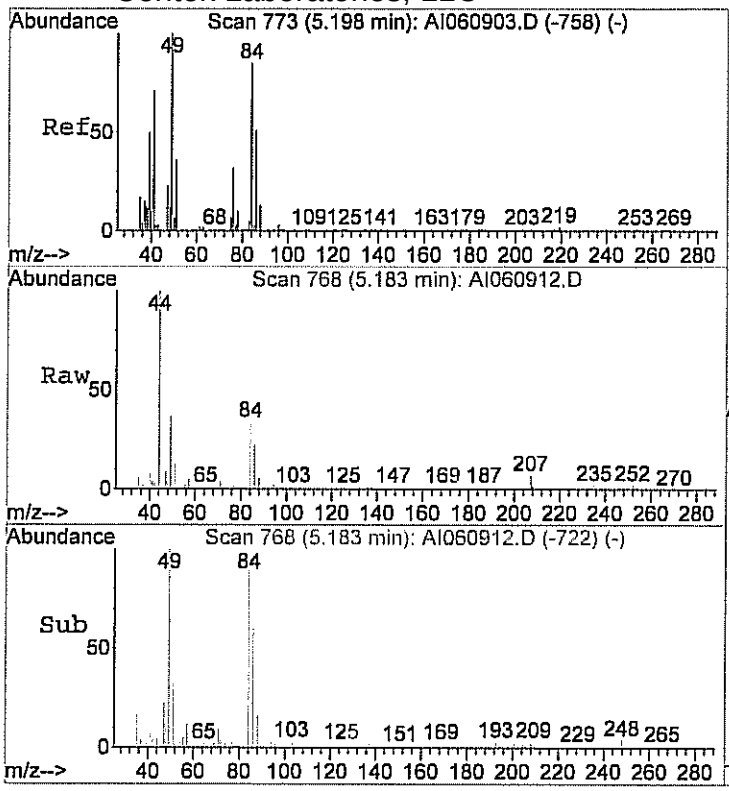


#17
Freon 113
Concen: 0.10 ppb
RT: 4.96 min Scan# 693
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:101 Resp: 6173

Ion	Ratio	Lower	Upper
101	100		
103	63.0	46.3	86.3
151	92.2	70.8	110.8

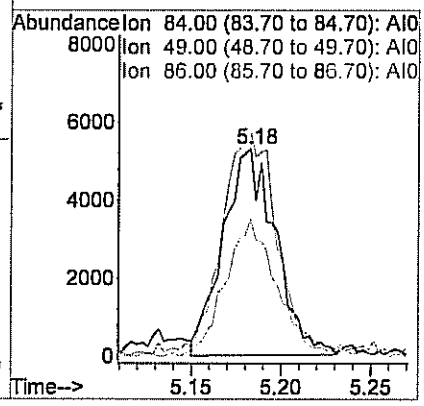


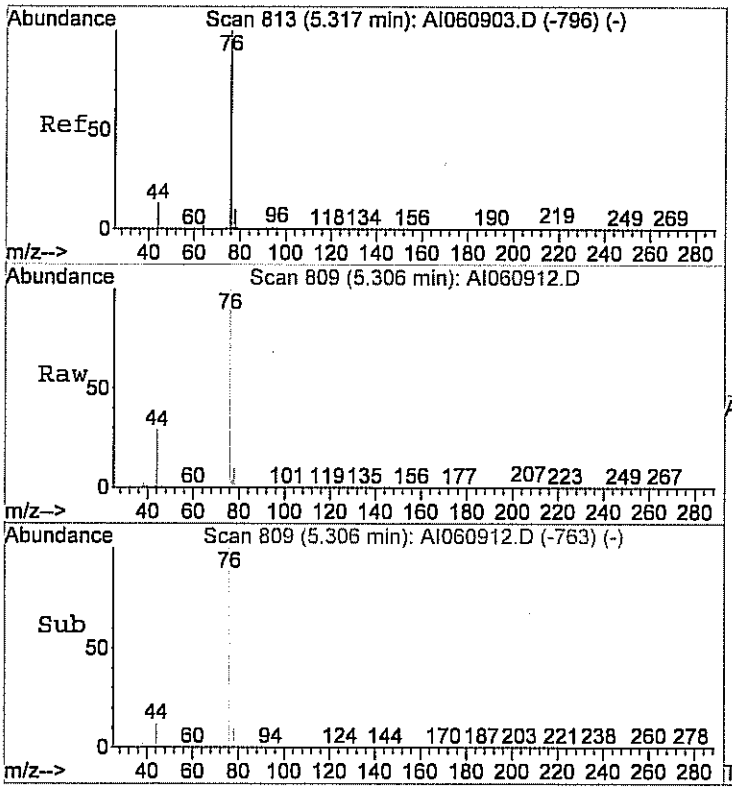


#18
Methylene chloride
Concen: 0.39 ppb
RT: 5.18 min Scan# 768
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 84 Resp: 10743

Ion	Ratio	Lower	Upper
84	100		
49	120.7	105.0	145.0
86	65.8	43.4	83.4

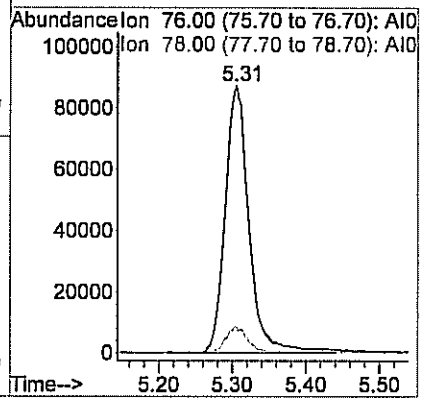


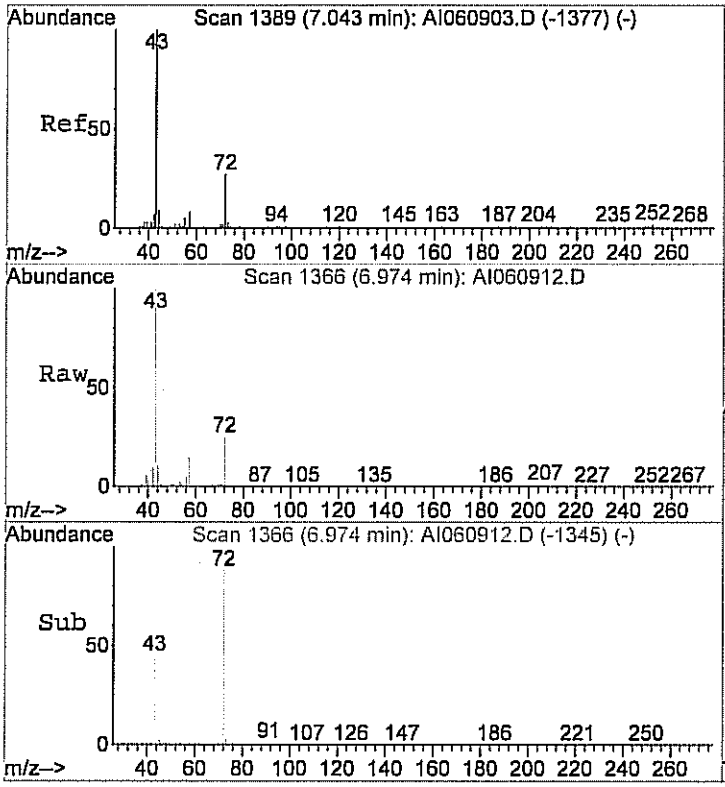


#20
Carbon disulfide
Concen: 2.18 ppb
RT: 5.31 min Scan# 809
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 76 Resp: 198310

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	31.9

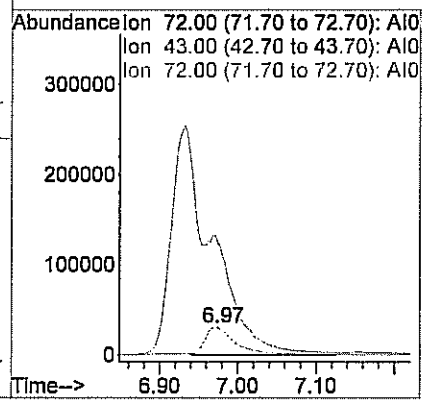


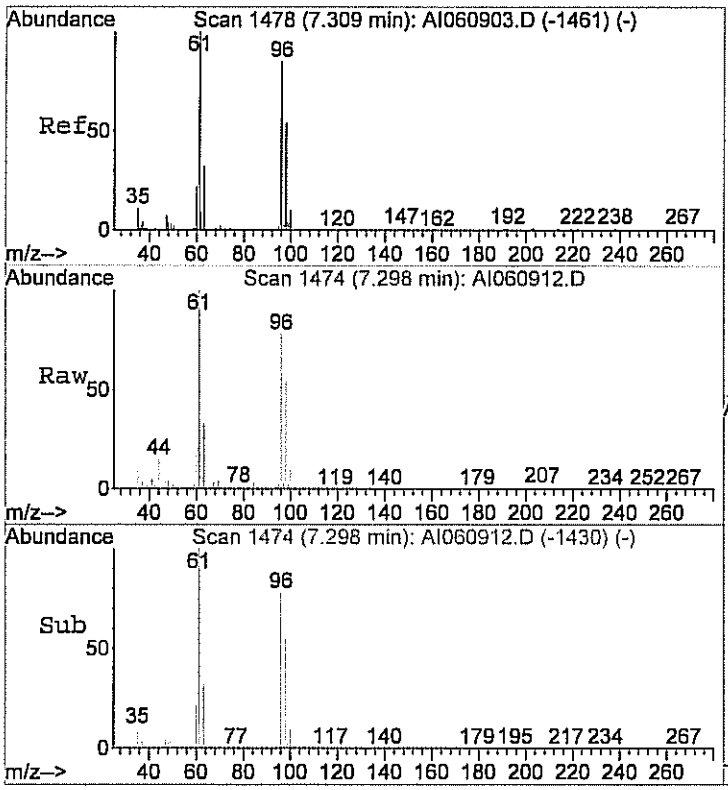


#25
Methyl Ethyl Ketone
Concen: 9.98 ppb
RT: 6.97 min Scan# 1366
Delta R.T. -0.09 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 72 Resp: 81756

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	66.2	106.2

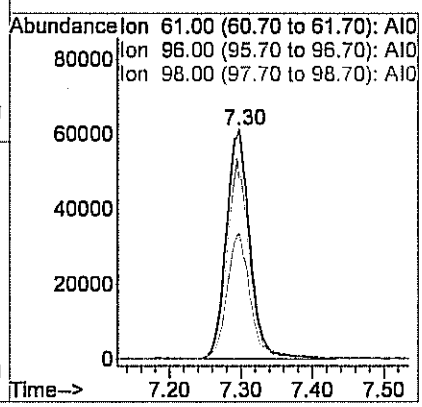


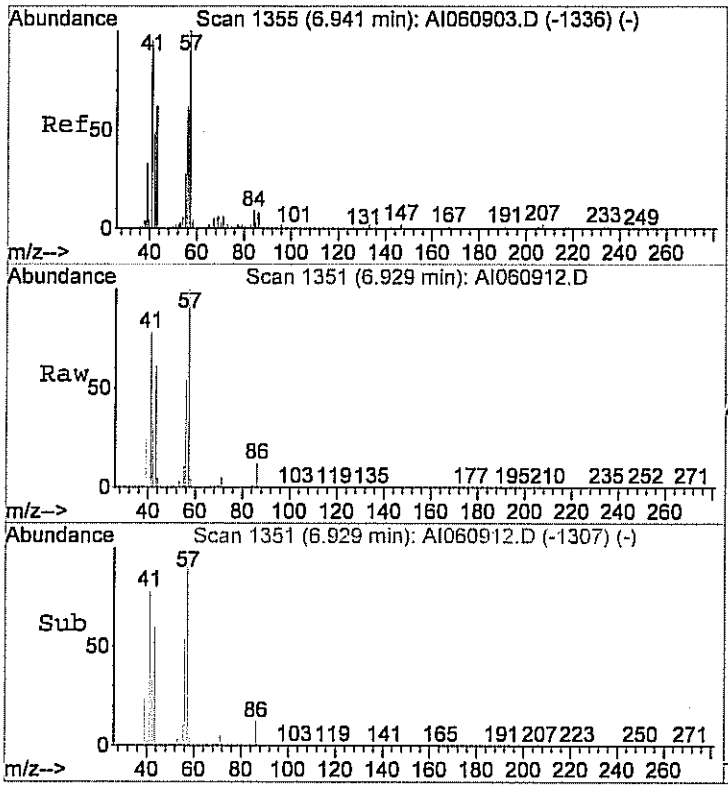


#26
cis-1,2-dichloroethene
Concen: 3.84 ppb
RT: 7.30 min Scan# 1474
Delta R.T. -0.02 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 61 Resp: 140096

Ion	Ratio	Lower	Upper
61	100		
96	83.4	66.5	106.5
98	53.9	37.7	77.7

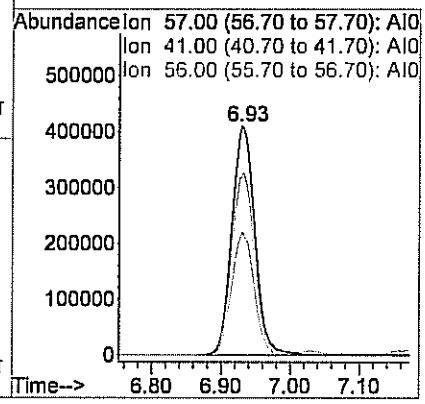


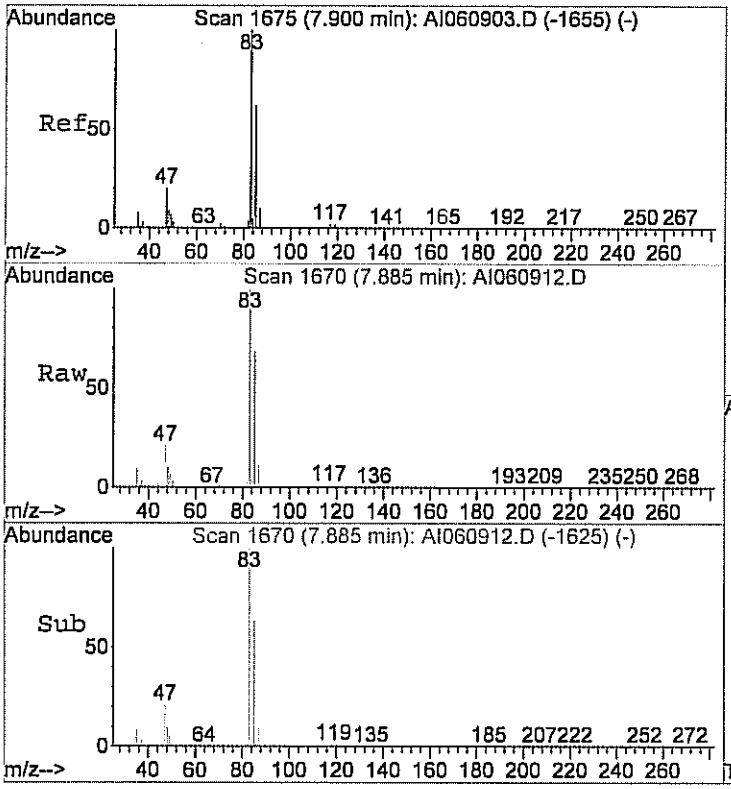


#27
Hexane
Concen: 38.19 ppb
RT: 6.93 min Scan# 1351
Delta R.T. -0.02 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 57 Resp: 947770

Ion	Ratio	Lower	Upper
57	100		
41	82.5	85.5	125.5#
56	54.0	47.9	87.9

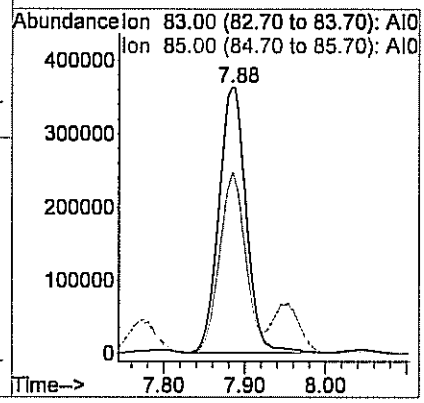


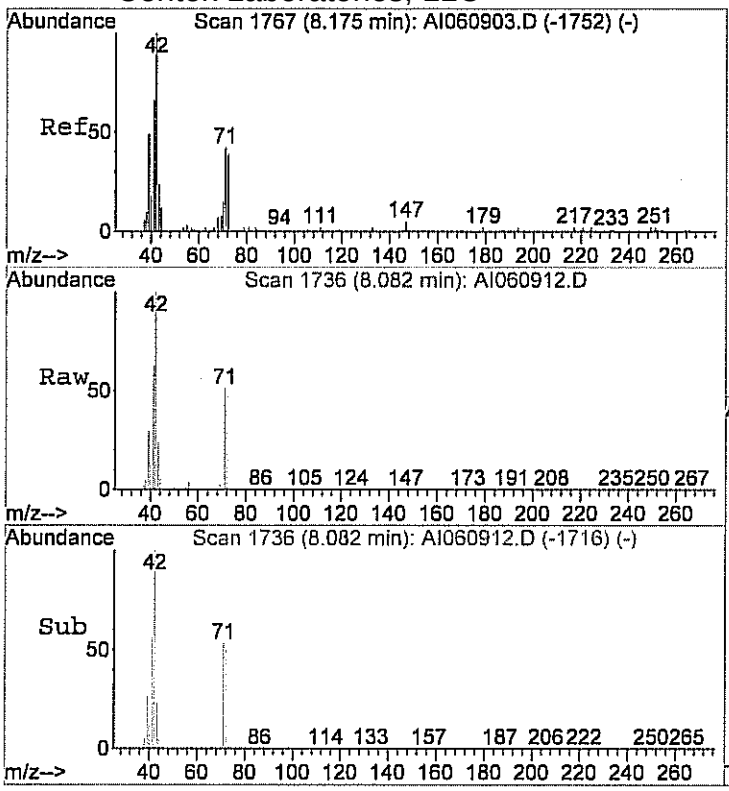


#29
Chloroform
Concen: 9.50 ppb
RT: 7.88 min Scan# 1670
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 83 Resp: 848599

Ion	Ratio	Lower	Upper
83	100		
85	84.4	46.1	86.1

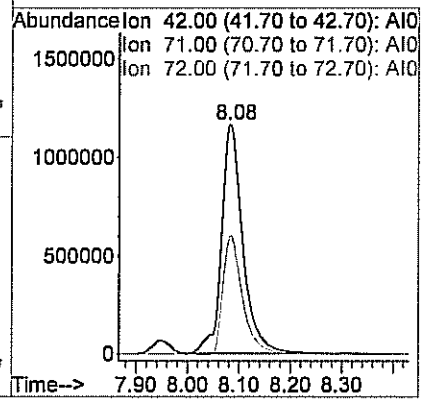


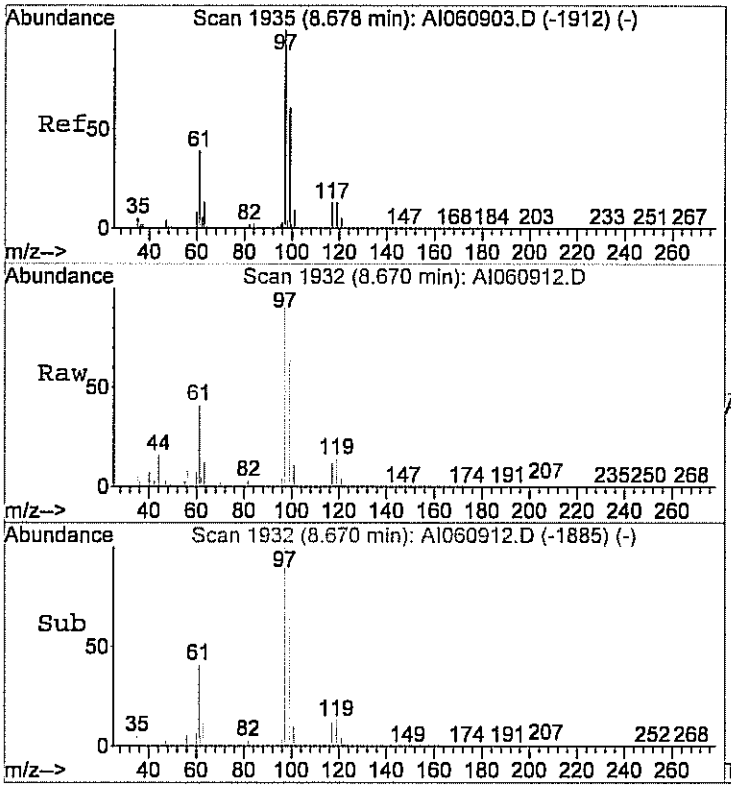


#30
Tetrahydrofuran
Concen: 224.04 ppb
RT: 8.08 min Scan# 1736
Delta R.T. -0.09 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 42 Resp: 3352962

Ion	Ratio	Lower	Upper
42	100		
71	48.4	22.3	62.3
72	47.5	19.9	59.9

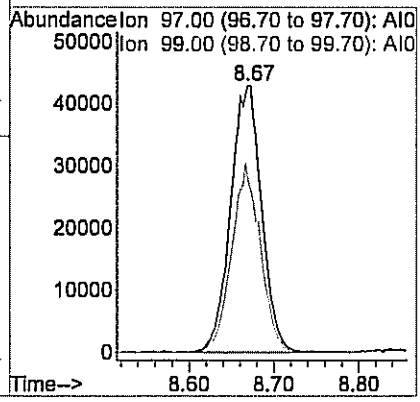


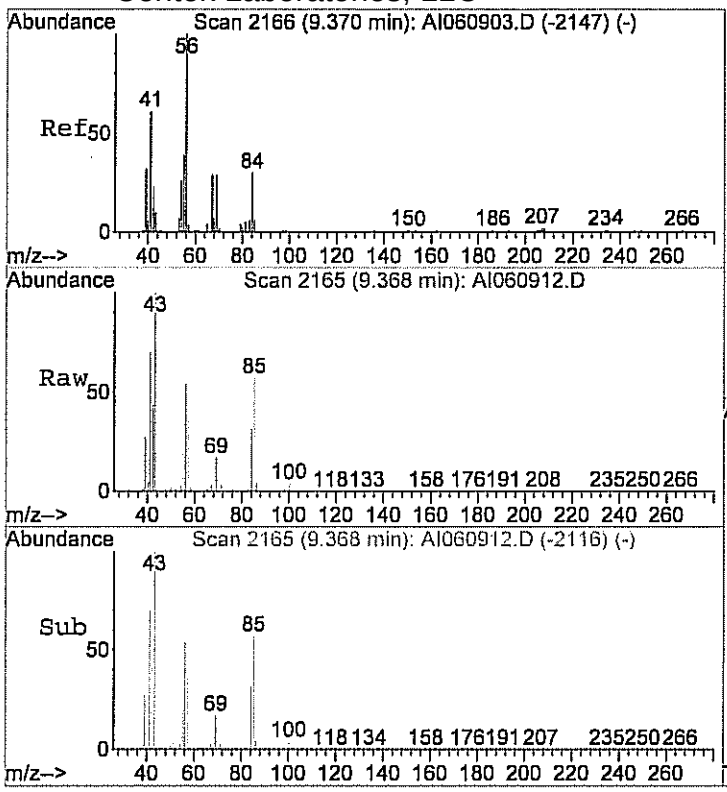


#33
1,1,1-trichloroethane
Concen: 0.87 ppb
RT: 8.67 min Scan# 1932
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 97 Resp: 109223

Ion	Ratio	Lower	Upper
97	100		
99	65.5	44.9	84.9

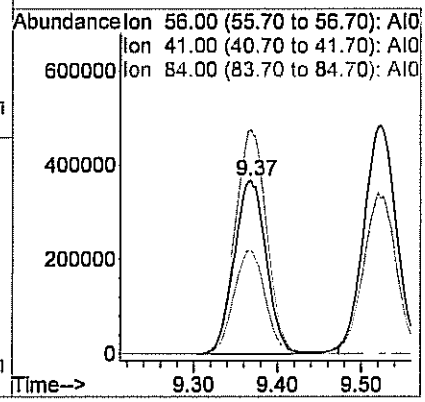


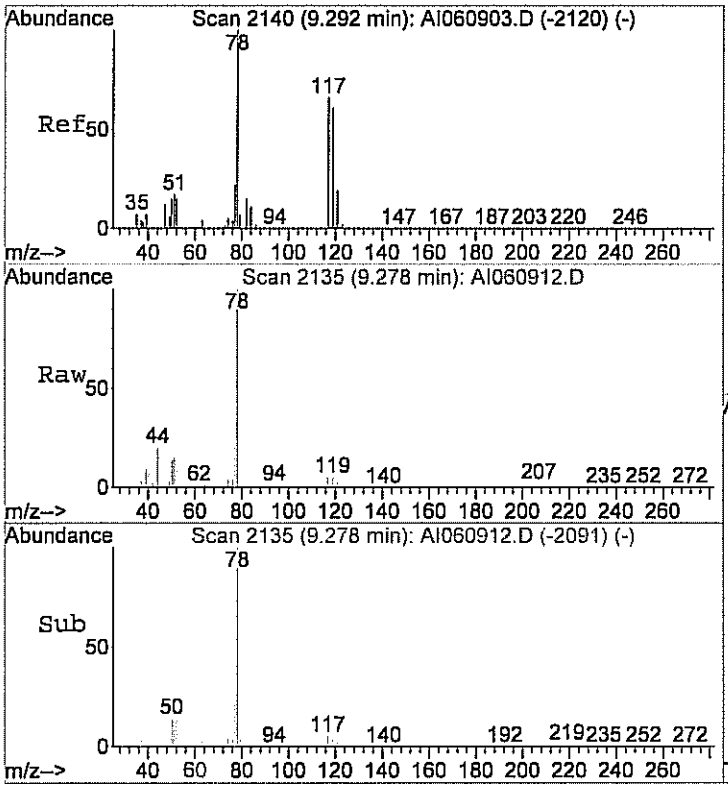


#34
Cyclohexane
Concen: 28.19 ppb
RT: 9.37 min Scan# 2165
Delta R.T. -0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 56 Resp: 984536

Ion	Ratio	Lower	Upper
56	100		
41	127.5	49.2	89.2#
84	57.6	122.8	162.8#

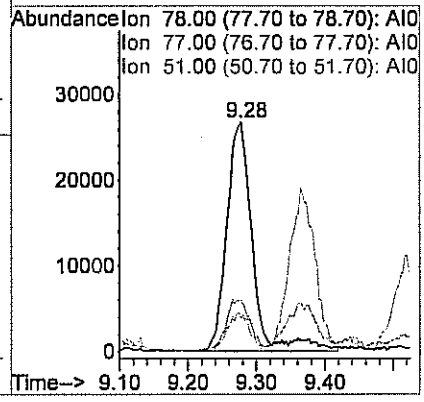


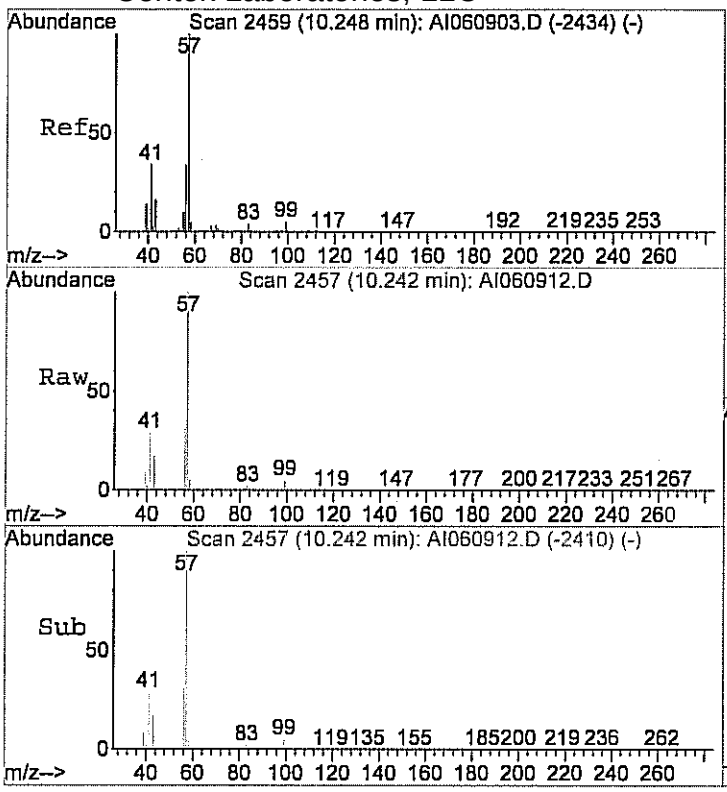


#36
Benzene
Concen: 0.60 ppb
RT: 9.28 min Scan# 2135
Delta R.T. -0.02 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 78 Resp: 69740

Ion	Ratio	Lower	Upper
78	100		
77	22.1	6.0	46.0
51	14.3	0.0	39.4

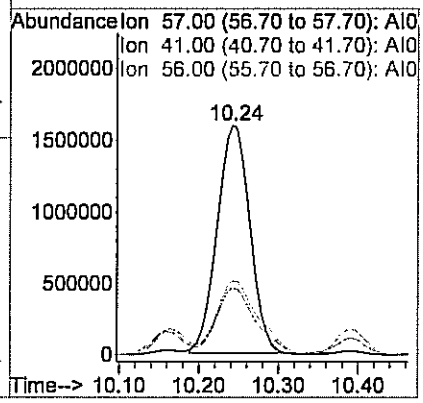


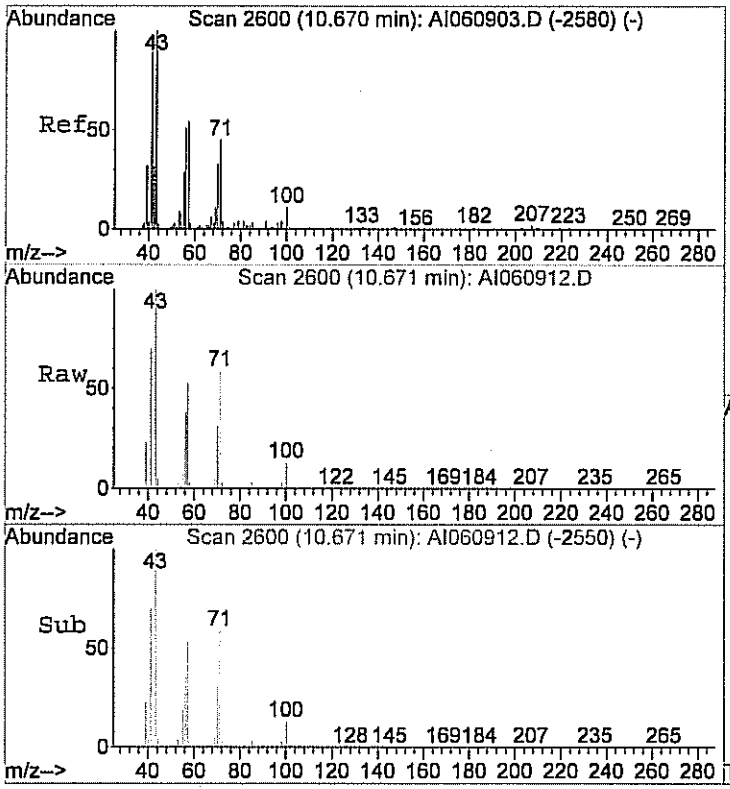


#39
2,2,4-trimethylpentane
Concen: 38.80 ppb
RT: 10.24 min Scan# 2457
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 57 Resp: 4488566

Ion	Ratio	Lower	Upper
57	100		
41	48.6	18.5	58.5
56	53.2	16.9	56.9

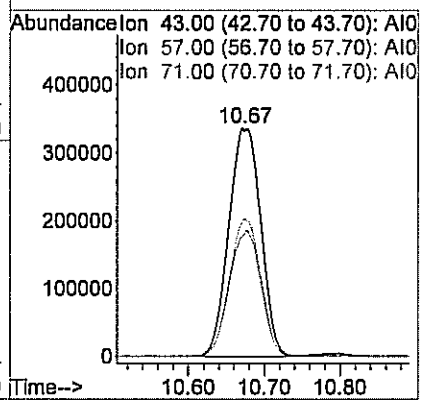


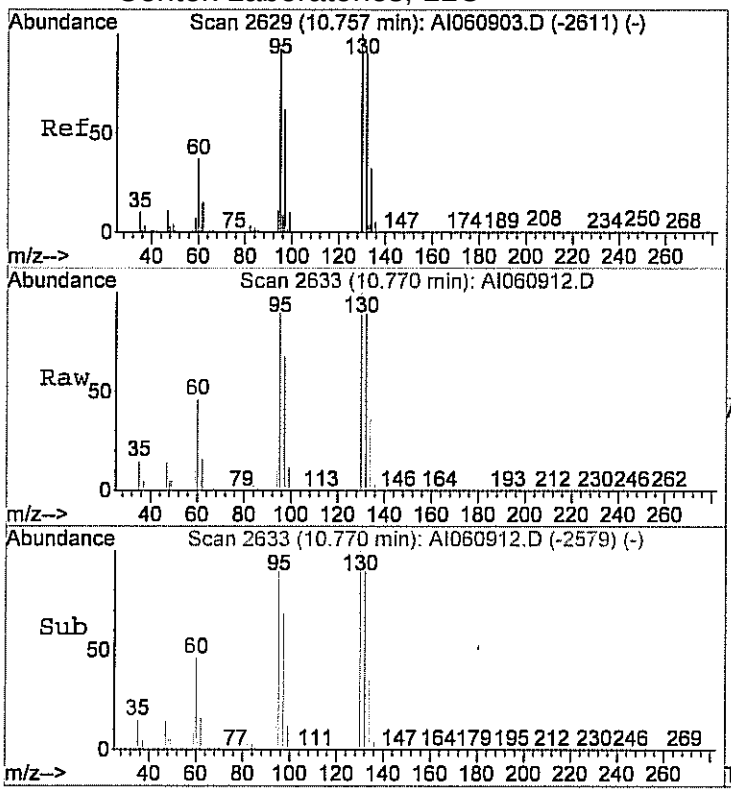


#40
Heptane
Concen: 26.88 ppb
RT: 10.67 min Scan# 2600
Delta R.T. 0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 43 Resp: 996560

Ion	Ratio	Lower	Upper
43	100		
57	54.6	35.1	75.1
71	58.4	35.4	75.4

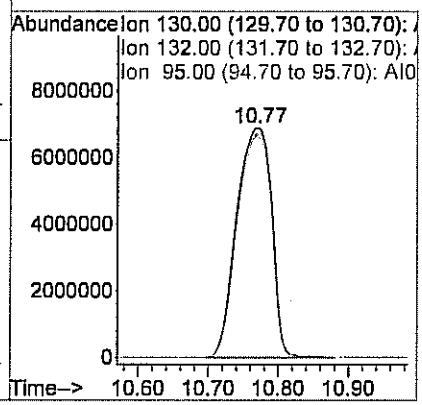


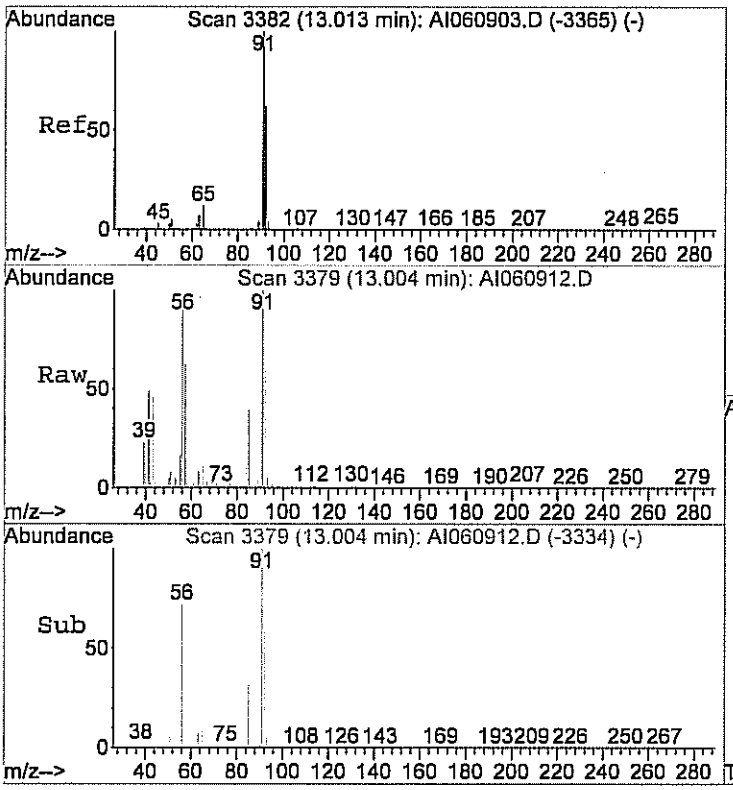


#41
Trichloroethene
Concen: 346.47 ppb
RT: 10.77 min Scan# 2633
Delta R.T. 0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:130 Resp:24063471

Ion	Ratio	Lower	Upper
130	100		
132	97.1	76.9	116.9
95	95.1	73.2	113.2

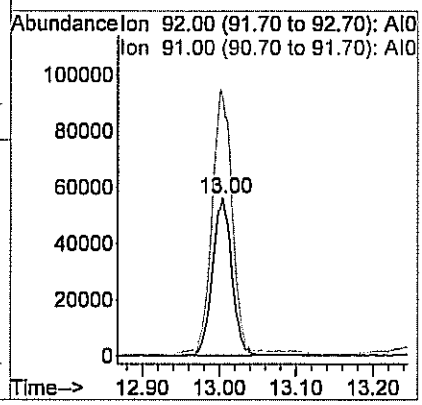


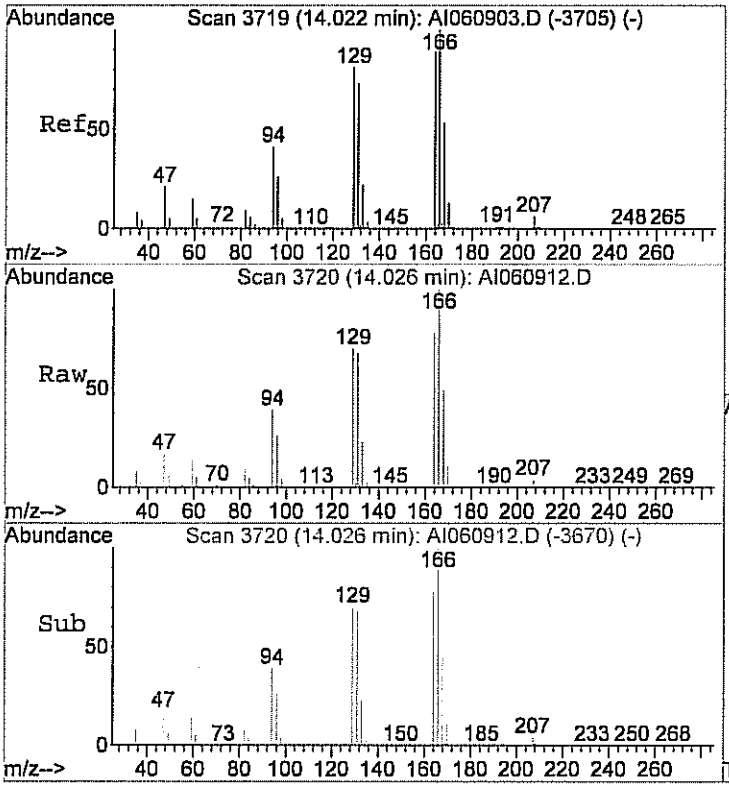


#48
Toluene
Concen: 1.45 ppb
RT: 13.00 min Scan# 3379
Delta R.T. -0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 92 Resp: 99304

Ion	Ratio	Lower	Upper
92	100		
91	177.9	155.3	195.3

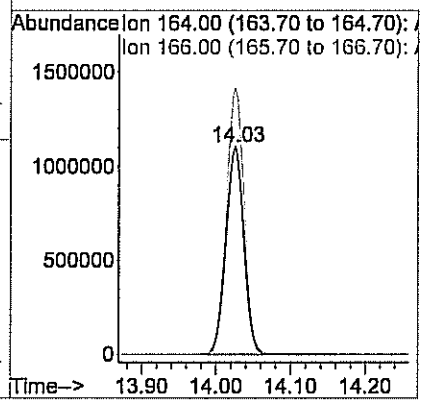


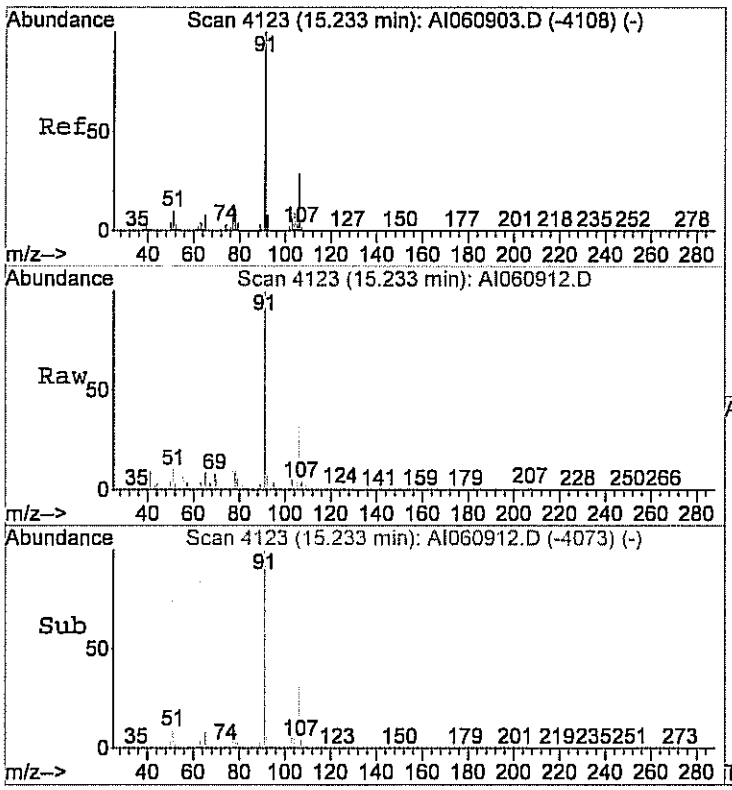


#53
Tetrachloroethylene
Concen: 21.48 ppb
RT: 14.03 min Scan# 3720
Delta R.T. 0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:164 Resp: 1840473

Ion	Ratio	Lower	Upper
164	100		
166	128.2	111.1	151.1

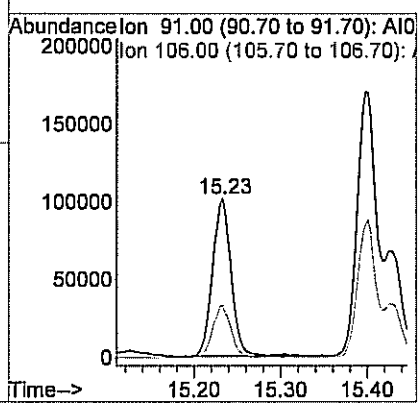


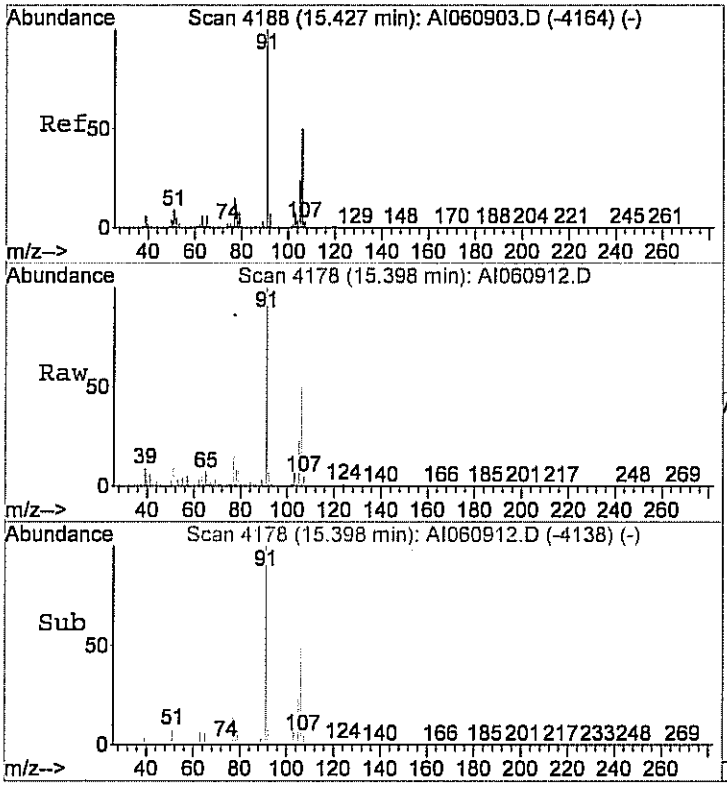


#55
Ethylbenzene
Concen: 1.34 ppb
RT: 15.23 min Scan# 4123
Delta R.T. 0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 91 Resp: 152809

Ion	Ratio	Lower	Upper
91	100		
106	32.5	12.0	52.0

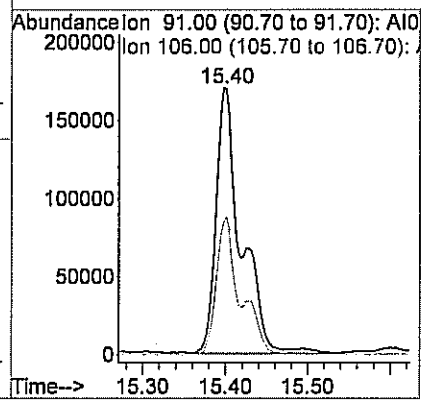


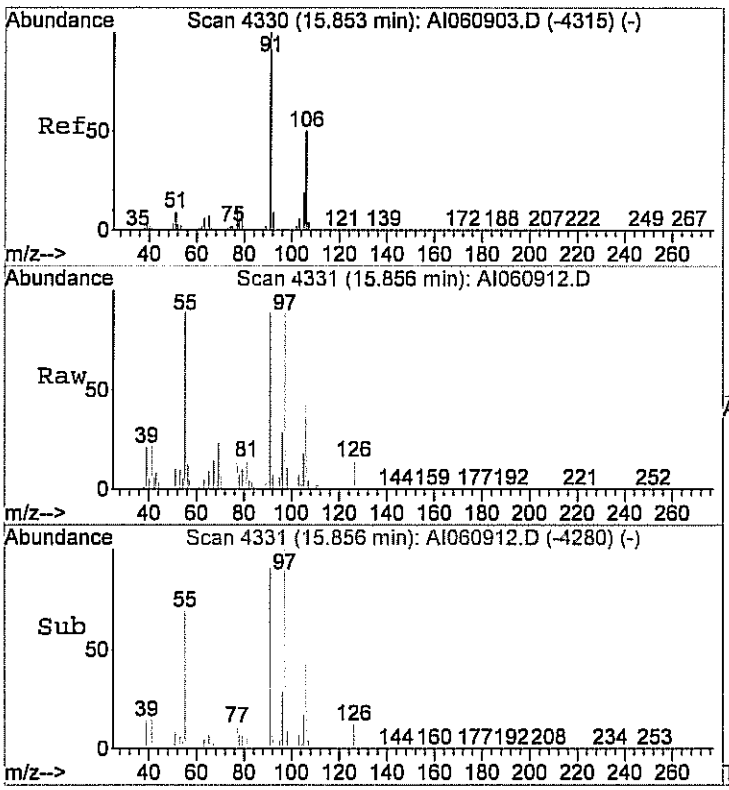


#56
m&p-xylene
Concen: 3.72 ppb
RT: 15.40 min Scan# 4178
Delta R.T. -0.03 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 91 Resp: 358879

Ion	Ratio	Lower	Upper
91	100		
106	50.1	30.5	70.5

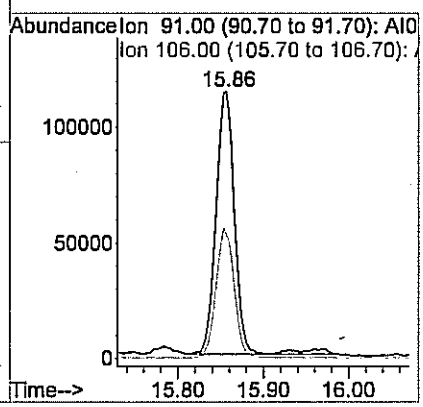


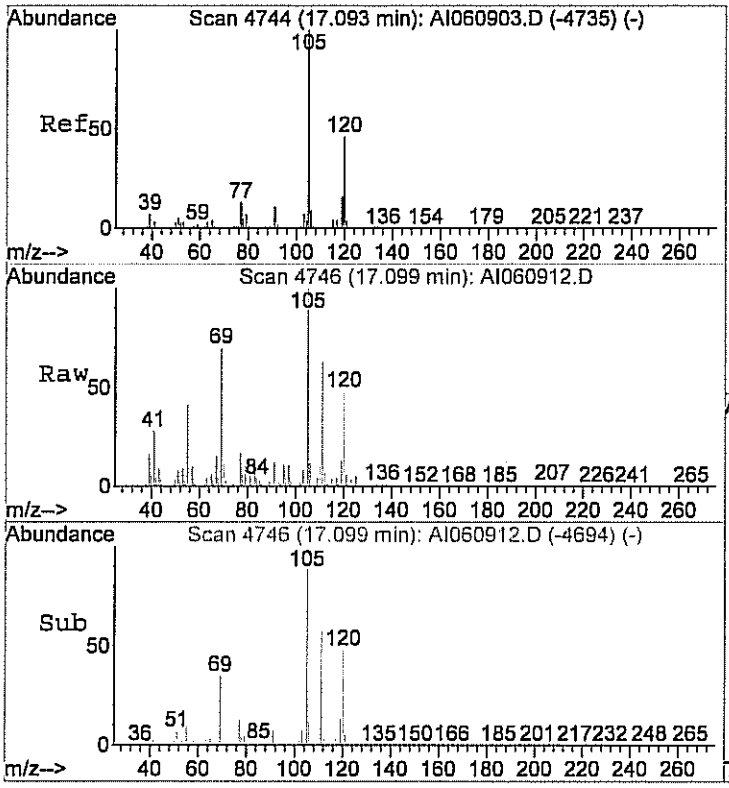


#59
o-xylene
Concen: 1.48 ppb
RT: 15.86 min Scan# 4331
Delta R.T. 0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion: 91 Resp: 173899

Ion	Ratio	Lower	Upper
91	100		
106	47.8	28.2	68.2

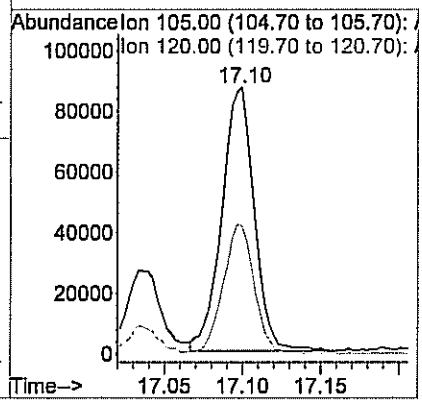


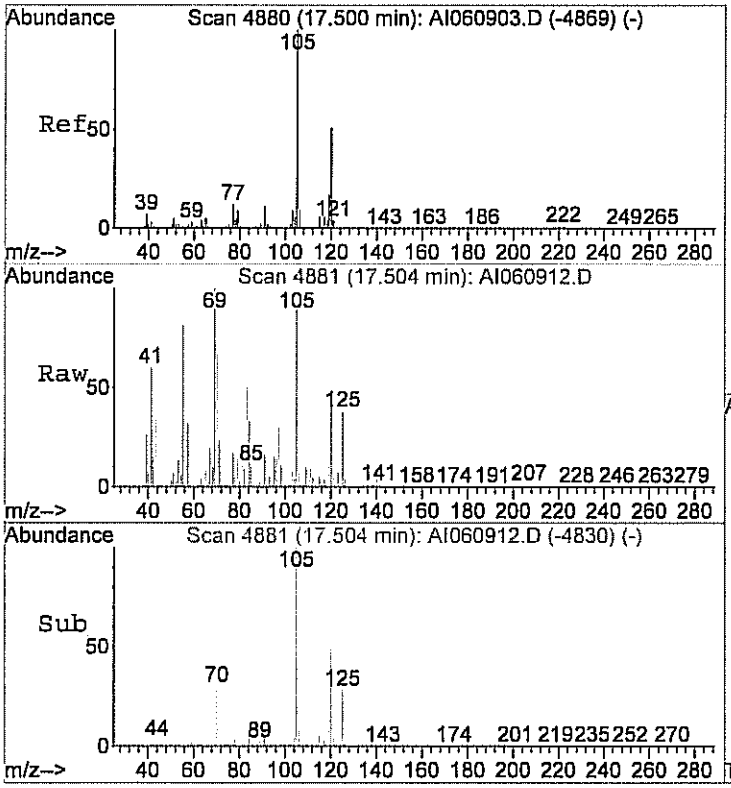


#64
1,3,5-trimethylbenzene
Concen: 1.26 ppb
RT: 17.10 min Scan# 4746
Delta R.T. 0.01 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:105 Resp: 125625

Ion	Ratio	Lower	Upper
105	100		
120	47.5	29.4	69.4

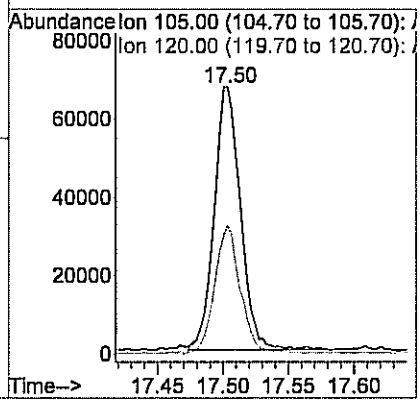




#65
1,2,4-trimethylbenzene
Concen: 1.39 ppb
RT: 17.50 min Scan# 4881
Delta R.T. 0.00 min
Lab File: AI060912.D
Acq: 9 Jun 2011 6:43 pm

Tgt Ion:105 Resp: 94215

Ion	Ratio	Lower	Upper
105	100		
120	49.5	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060917.D Vial: 33
Acq On : 9 Jun 2011 10:02 pm Operator: RJP
Sample : C1106007-001A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 22:23:50 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

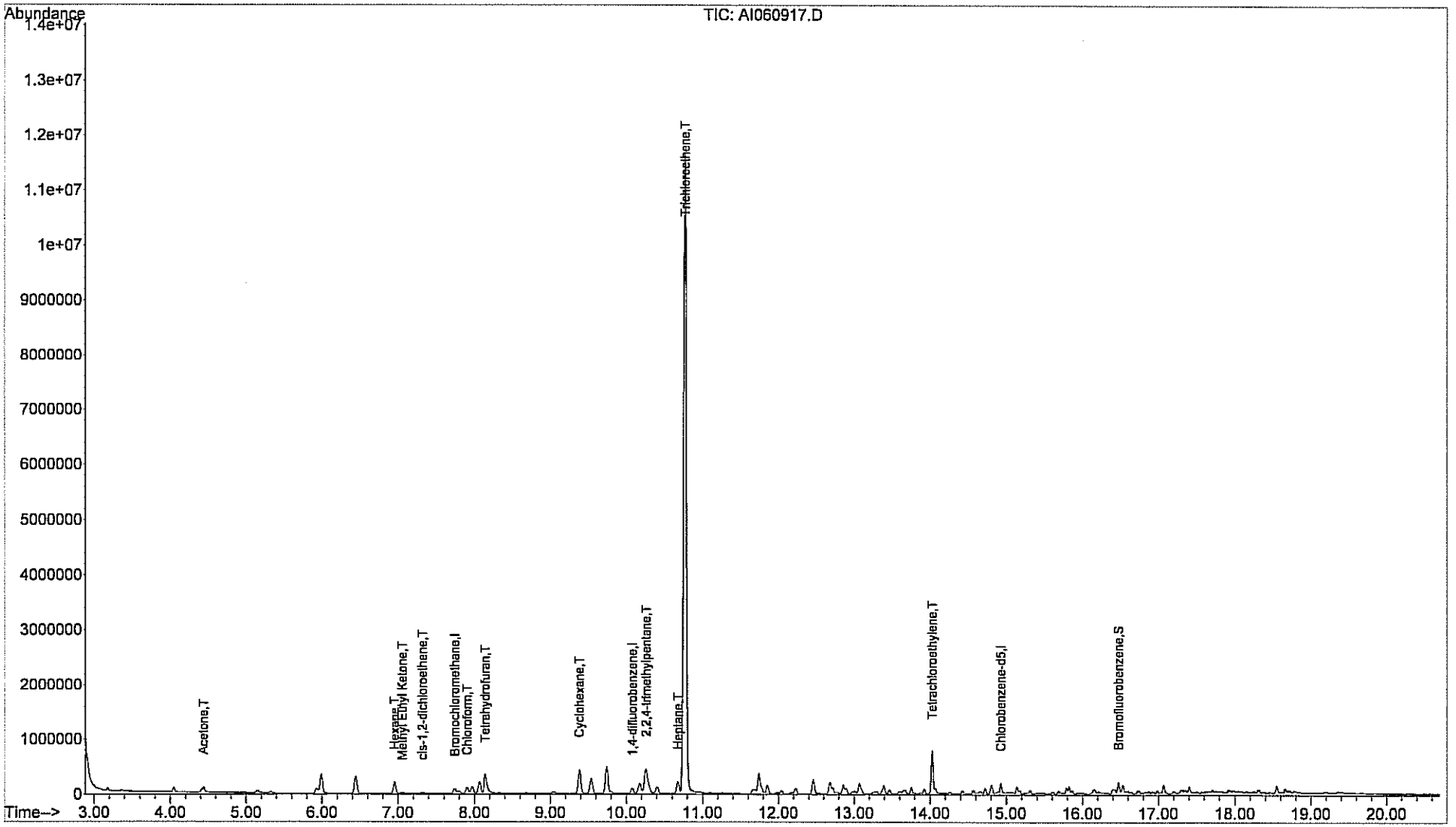
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	35292	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	104969	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	114750	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	61360	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
14) Acetone	4.44	58	34781	4.11	ppb	#	45
25) Methyl Ethyl Ketone	7.06	72	5416	0.68	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	14826	0.42	ppb		96
27) Hexane	6.95	57	92604	3.82	ppb		91
29) Chloroform	7.90	83	103430	1.19	ppb		88
30) Tetrahydrofuran	8.14	42	265476	18.17	ppb		86
34) Cyclohexane	9.38	56	116268	3.80	ppb	#	28
39) 2,2,4-trimethylpentane	10.26	57	512638	5.05	ppb		80
40) Heptane	10.68	43	93568	2.88	ppb		99
41) Trichloroethene	10.77	130	5376075	88.26	ppb		100
53) Tetrachloroethylene	14.03	164	184361	2.60	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060917.D
Acq On : 9 Jun 2011 10:02 pm
Sample : C1106007-001A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:28 2011

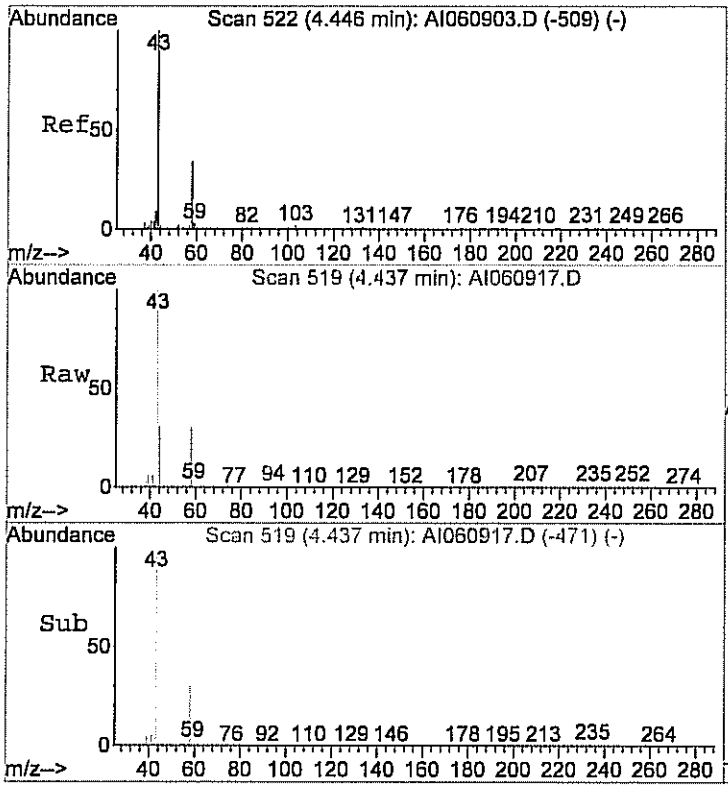
Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



AI060917.D A606_1UG.M Wed Jul 06 17:33:05 2011 MSD1

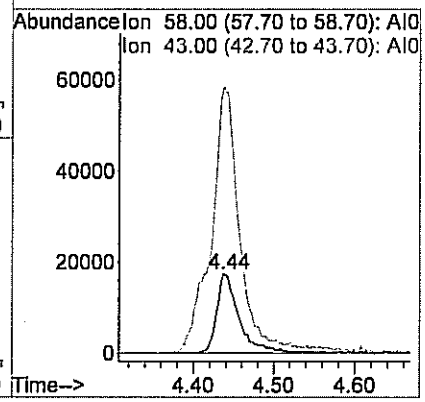
Centek Laboratories, LLC

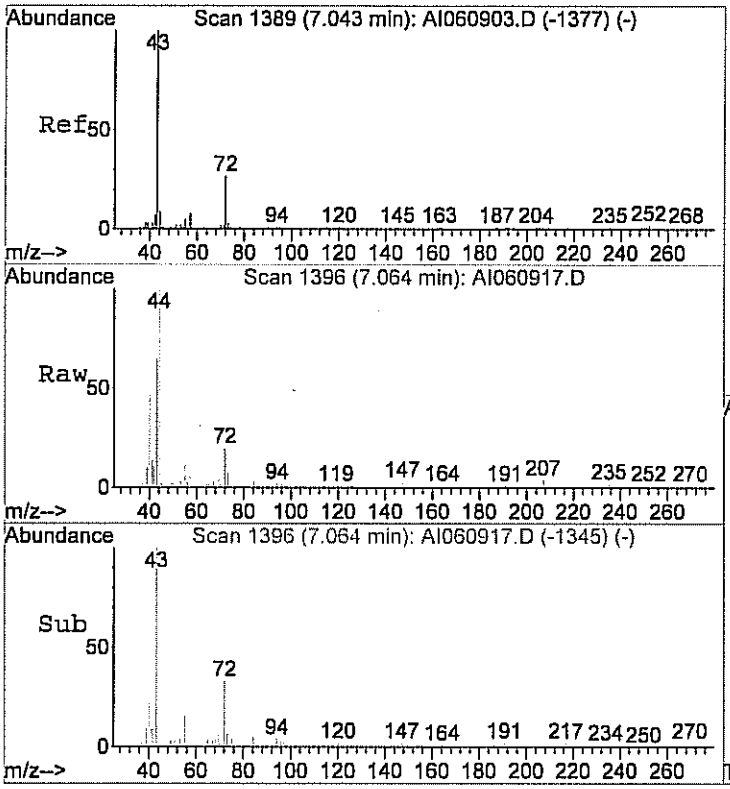


#14
Acetone
Concen: 4.11 ppb
RT: 4.44 min Scan# 519
Delta R.T. -0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 58 Resp: 34781

Ion	Ratio	Lower	Upper
58	100		
43	423.3	282.0	342.0#

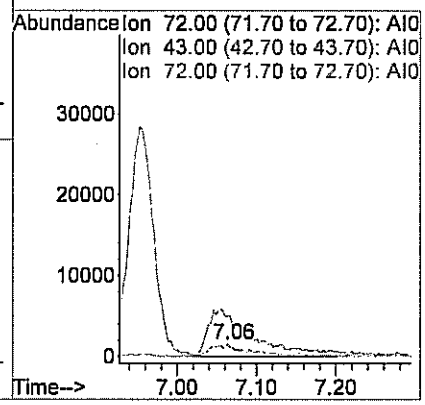


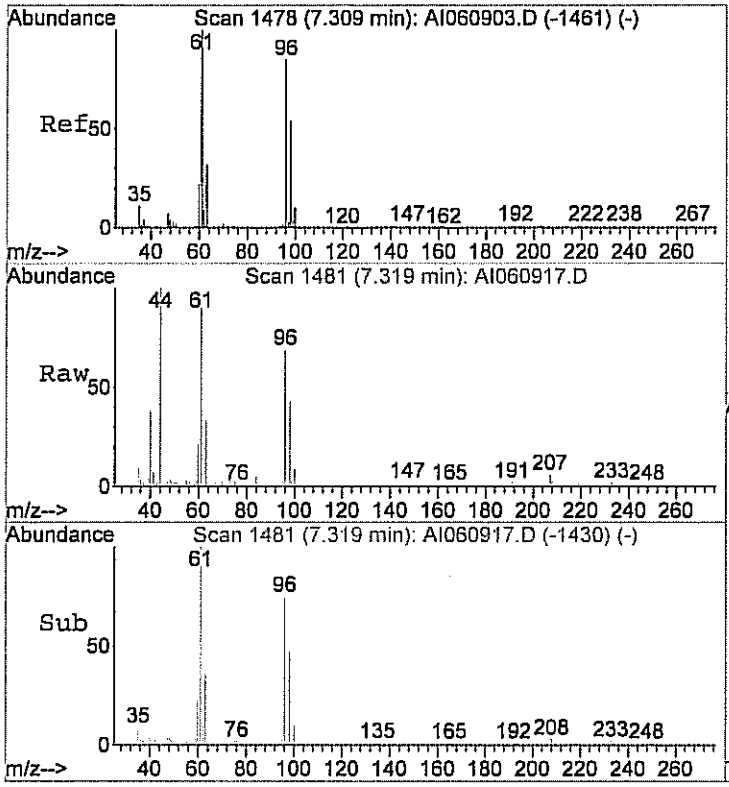


#25
Methyl Ethyl Ketone
Concen: 0.68 ppb
RT: 7.06 min Scan# 1396
Delta R.T. 0.00 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 72 Resp: 5416

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	66.2	106.2

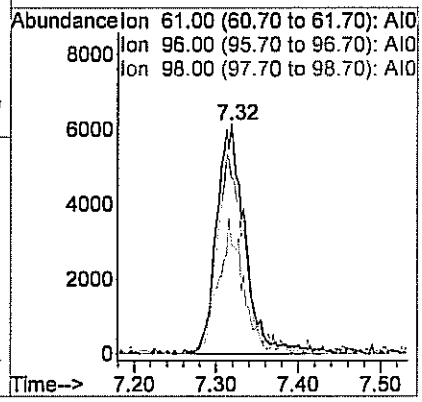


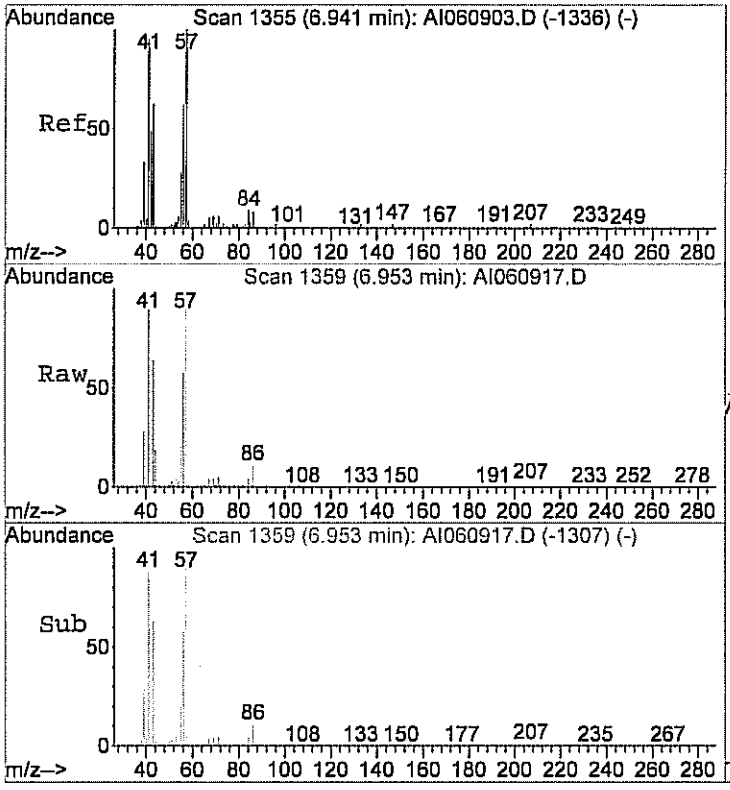


#26
cis-1,2-dichloroethene
Concen: 0.42 ppb
RT: 7.32 min Scan# 1481
Delta R.T. 0.00 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 61 Resp: 14826

Ion	Ratio	Lower	Upper
61	100		
96	86.1	66.5	106.5
98	51.0	37.7	77.7

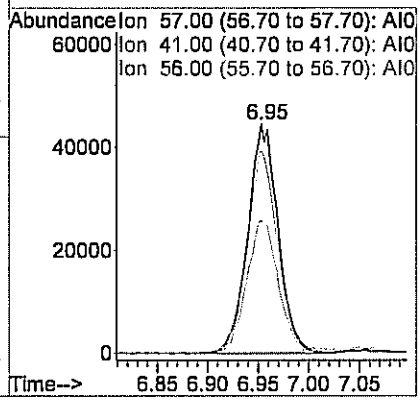


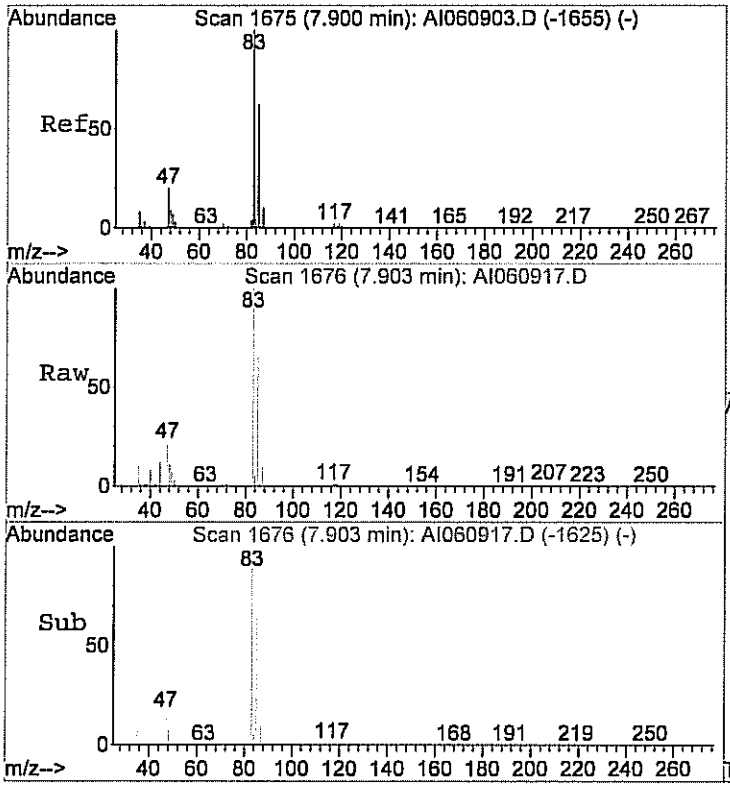


#27
Hexane
Concen: 3.82 ppb
RT: 6.95 min Scan# 1359
Delta R.T. 0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 57 Resp: 92604

Ion	Ratio	Lower	Upper
57	100		
41	94.8	85.5	125.5
56	63.3	47.9	87.9

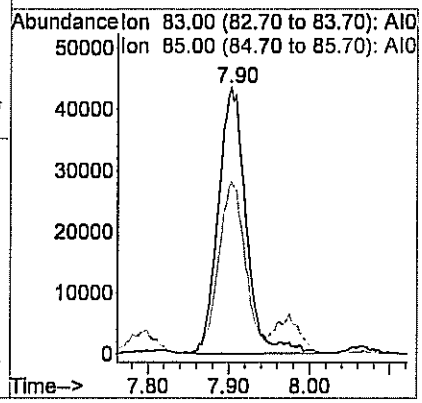


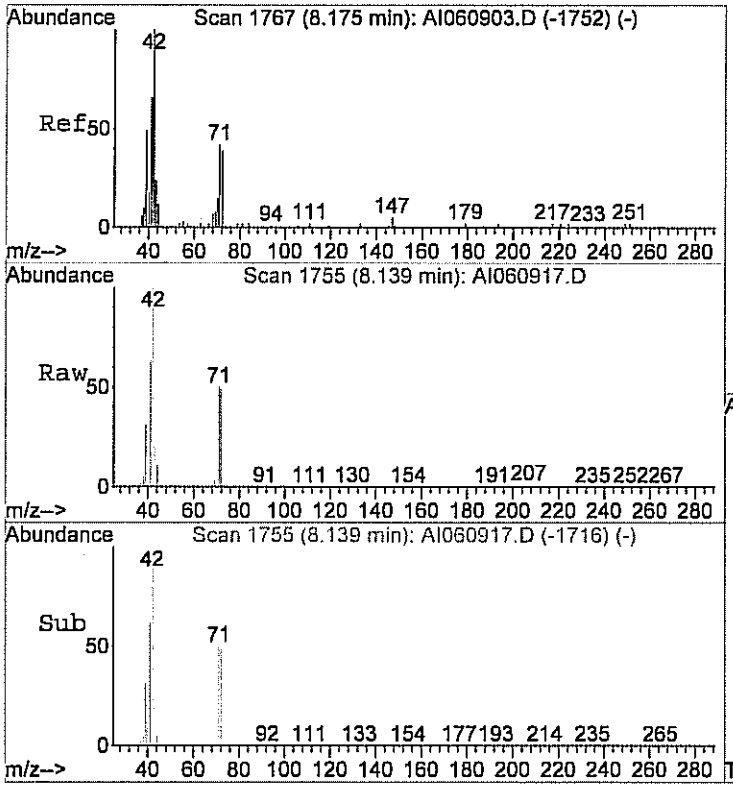


#29
Chloroform
Concen: 1.19 ppb
RT: 7.90 min Scan# 1676
Delta R.T. 0.00 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 83 Resp: 103430

Ion	Ratio	Lower	Upper
83	100		
85	75.9	46.1	86.1

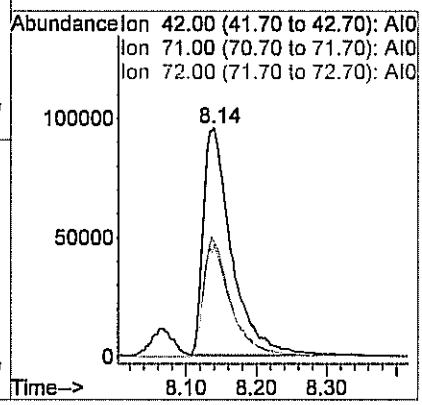


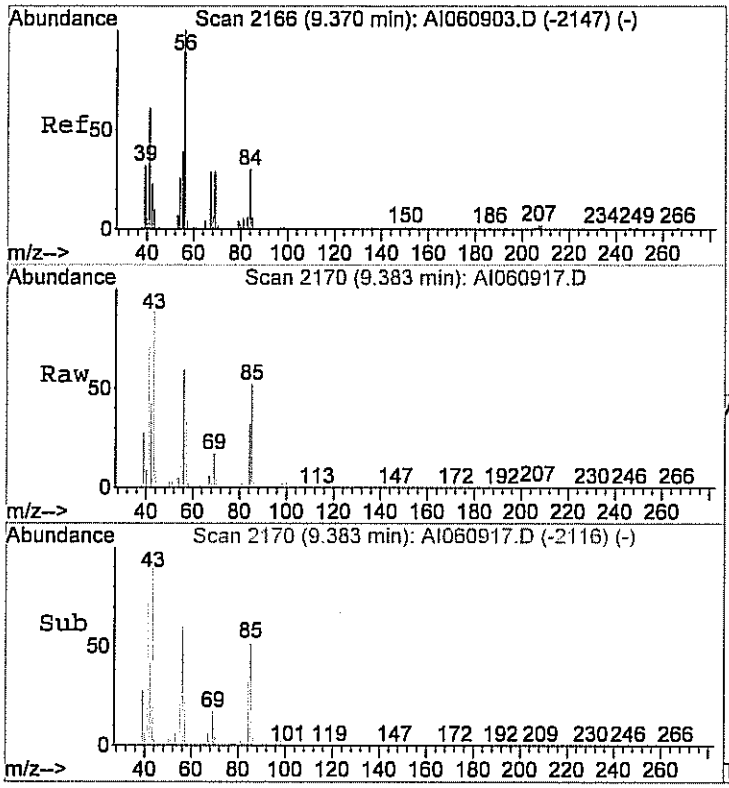


#30
Tetrahydrofuran
Concen: 18.17 ppb
RT: 8.14 min Scan# 1755
Delta R.T. -0.03 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 42 Resp: 265476

Ion	Ratio	Lower	Upper
42	100		
71	51.1	22.3	62.3
72	49.0	19.9	59.9

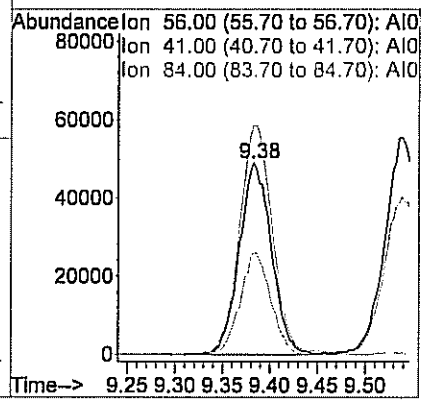


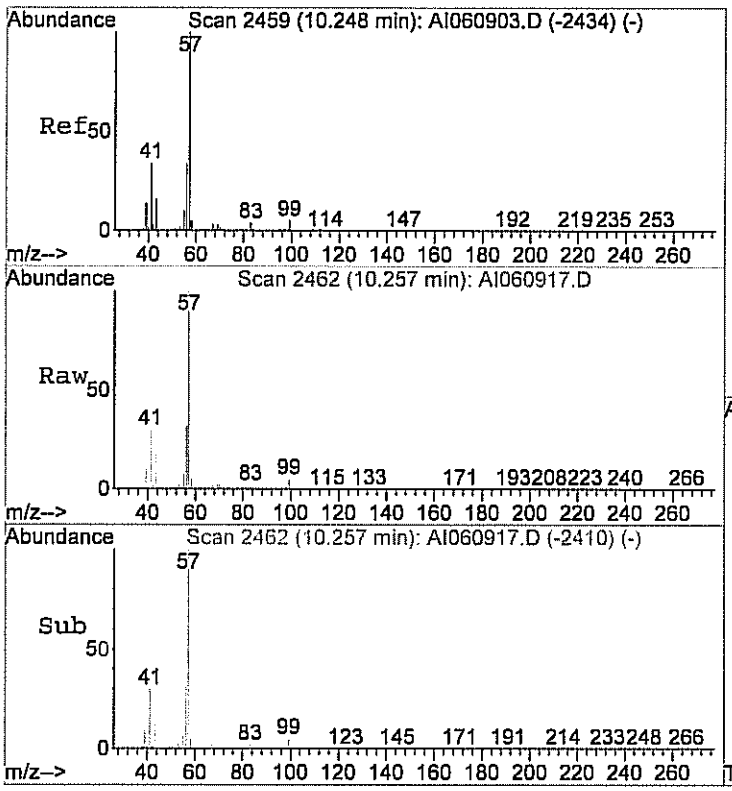


#34
Cyclohexane
Concen: 3.80 ppb
RT: 9.38 min Scan# 2170
Delta R.T. 0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 56 Resp: 116268

Ion	Ratio	Lower	Upper
56	100		
41	122.2	49.2	89.2#
84	50.5	122.8	162.8#

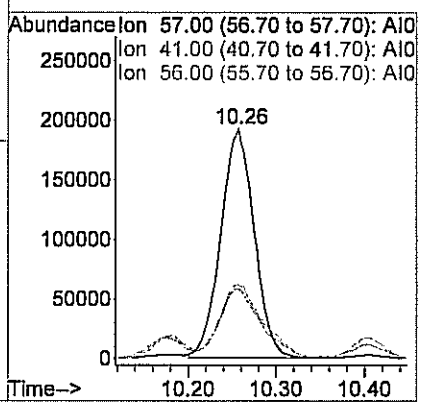


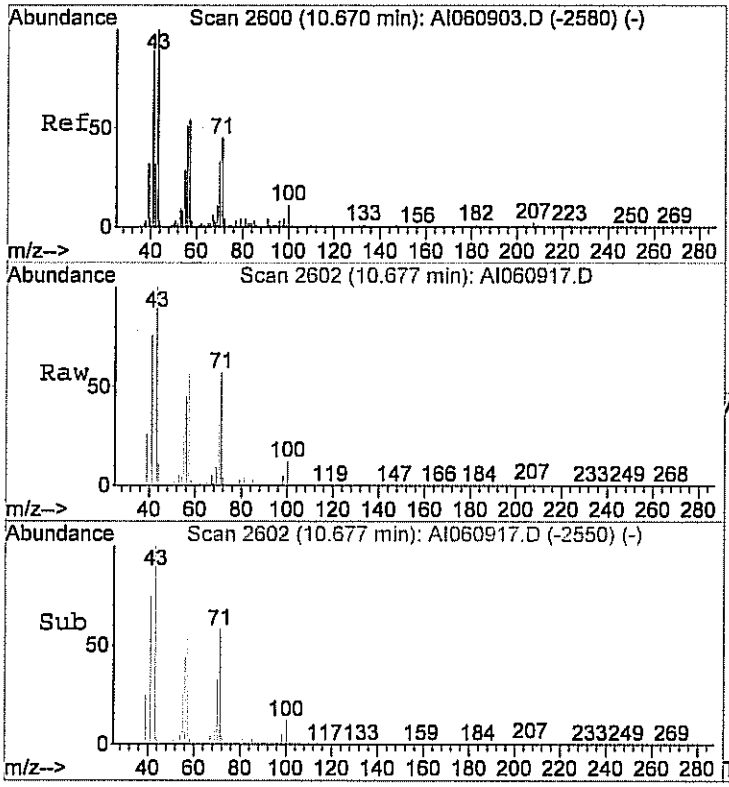


#39
2,2,4-trimethylpentane
Concen: 5.05 ppb
RT: 10.26 min Scan# 2462
Delta R.T. 0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 57 Resp: 512638

Ion	Ratio	Lower	Upper
57	100		
41	48.8	18.5	58.5
56	50.9	16.9	56.9

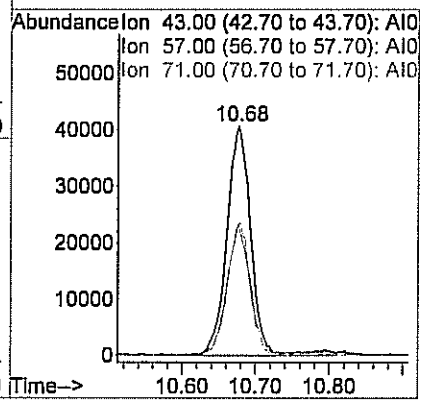


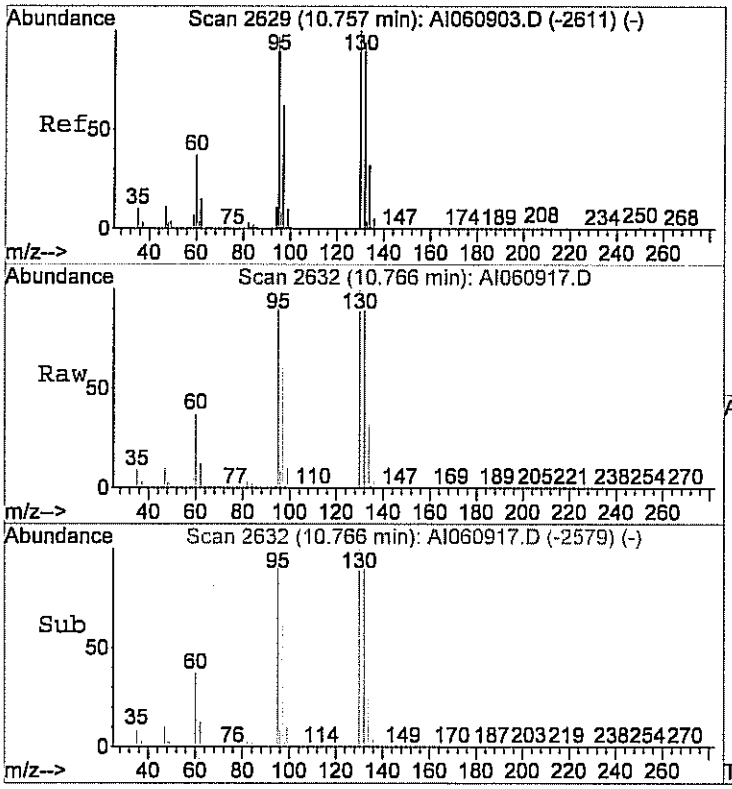


#40
Heptane
Concen: 2.88 ppb
RT: 10.68 min Scan# 2602
Delta R.T. 0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion: 43 Resp: 93568

Ion	Ratio	Lower	Upper
43	100		
57	56.7	35.1	75.1
71	55.2	35.4	75.4

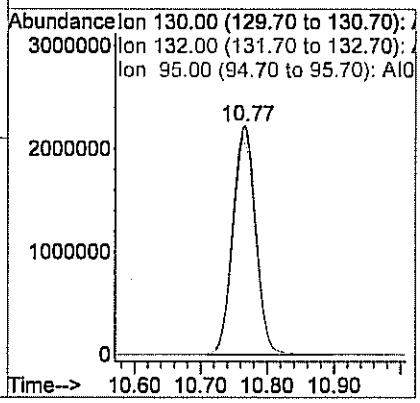


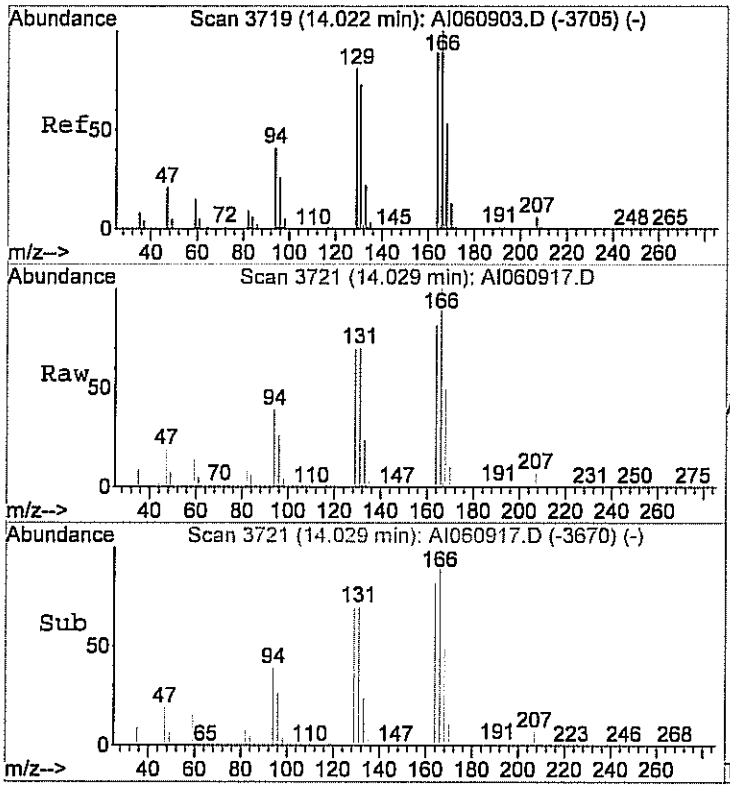


#41
Trichloroethene
Concen: 88.26 ppb
RT: 10.77 min Scan# 2632
Delta R.T. 0.01 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion:130 Resp: 5376075

Ion	Ratio	Lower	Upper
130	100		
132	97.3	76.9	116.9
95	93.8	73.2	113.2

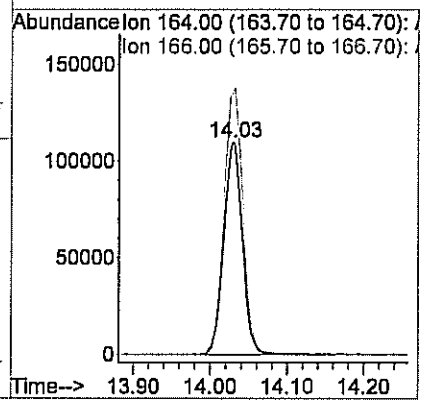




#53
Tetrachloroethylene
Concen: 2.60 ppb
RT: 14.03 min Scan# 3721
Delta R.T. 0.00 min
Lab File: AI060917.D
Acq: 9 Jun 2011 10:02 pm

Tgt Ion:164 Resp: 184361

Ion	Ratio	Lower	Upper
164	100		
166	126.8	111.1	151.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060919.D Vial: 35
Acq On : 9 Jun 2011 11:17 pm Operator: RJP
Sample : C1106007-001A 40x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 23:38:25 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

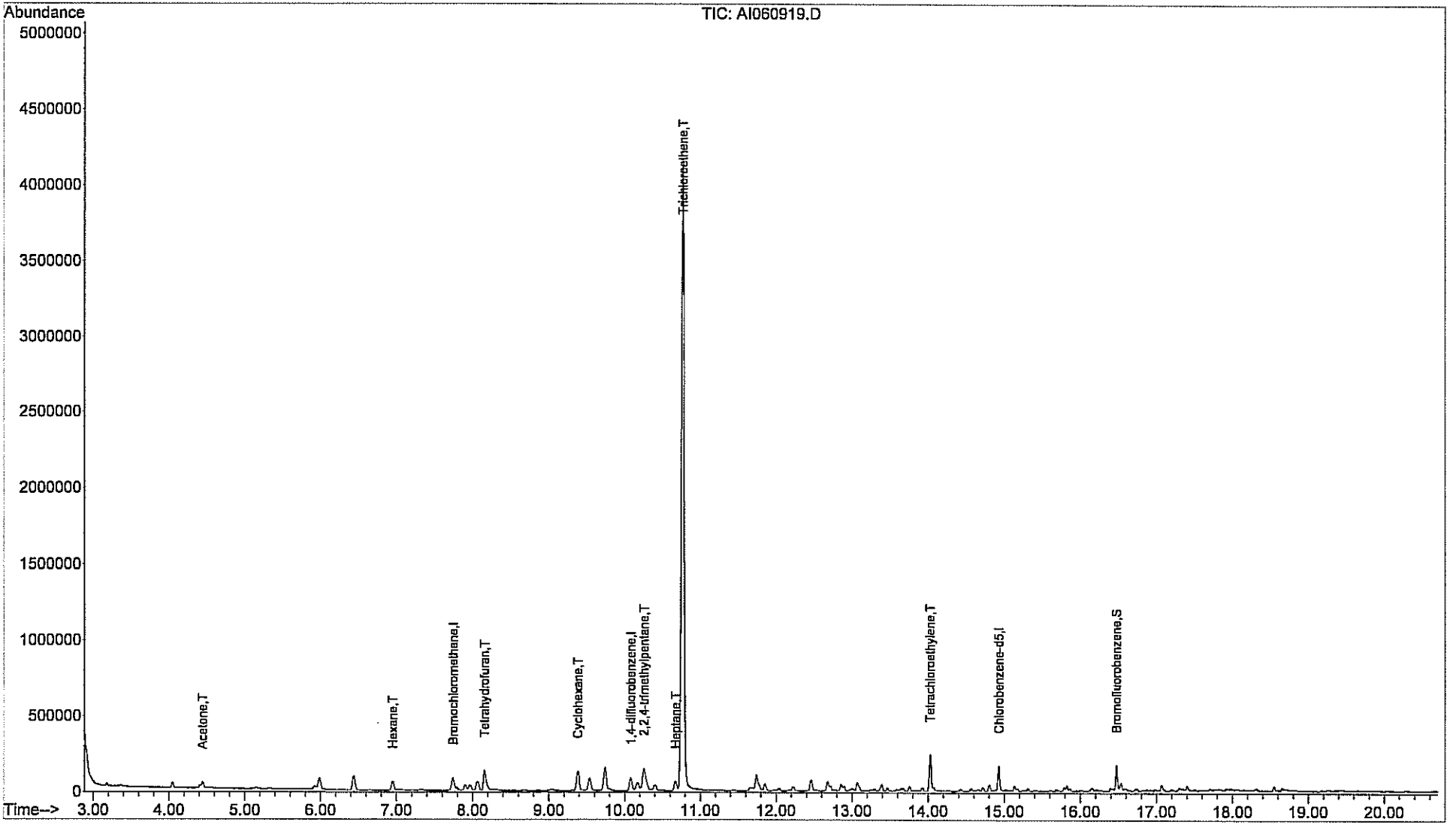
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	33793	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	93695	1.00	ppb		0.00
47) Chlorobenzene-d5	14.93	117	101139	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	50796	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
14) Acetone	4.44	58	15474	1.91	ppb	#	47
27) Hexane	6.94	57	24415	1.05	ppb		97
30) Tetrahydrofuran	8.15	42	94000	6.72	ppb		90
34) Cyclohexane	9.38	56	34920	1.28	ppb	#	22
39) 2,2,4-trimethylpentane	10.25	57	143348	1.58	ppb		72
40) Heptane	10.67	43	23131	0.80	ppb		98
41) Trichloroethene	10.76	130	1861992	34.25	ppb		99
53) Tetrachloroethylene	14.03	164	56169	0.90	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060919.D A606_1UG.M Wed Jul 06 17:33:15 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI060919.D
Acq On : 9 Jun 2011 11:17 pm
Sample : C1106007-001A 40x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:29 2011

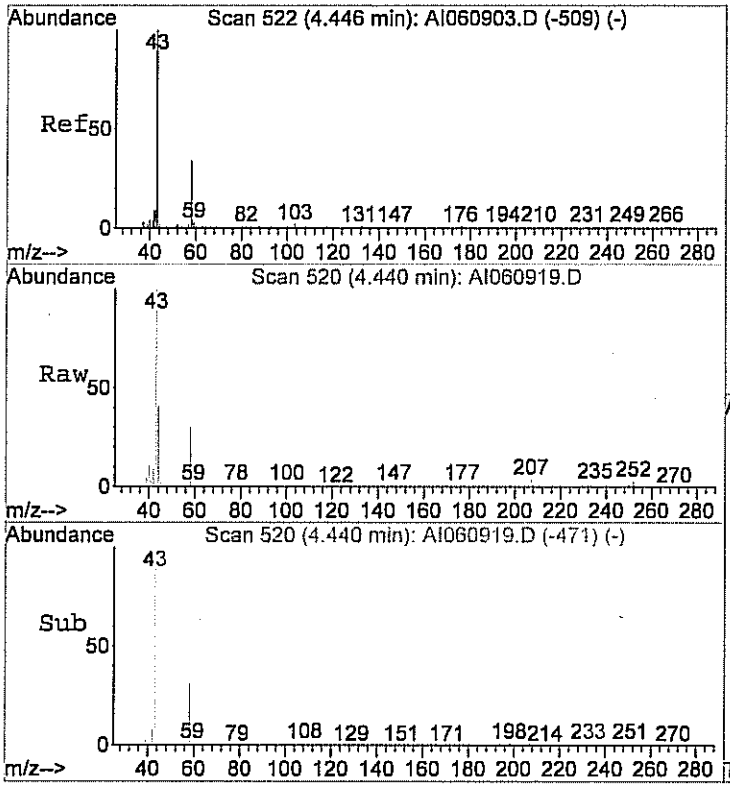
Vial: 35
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



AI060919.D A606_1UG.M Wed Jul 06 17:33:15 2011 MSD1

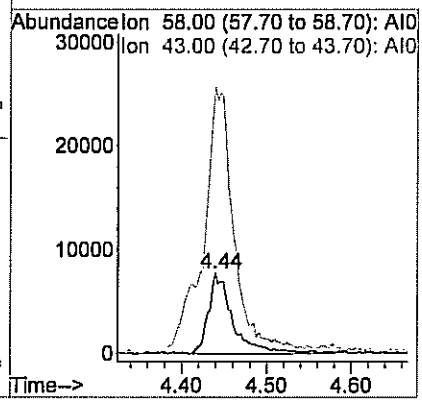
Centek Laboratories, LLC

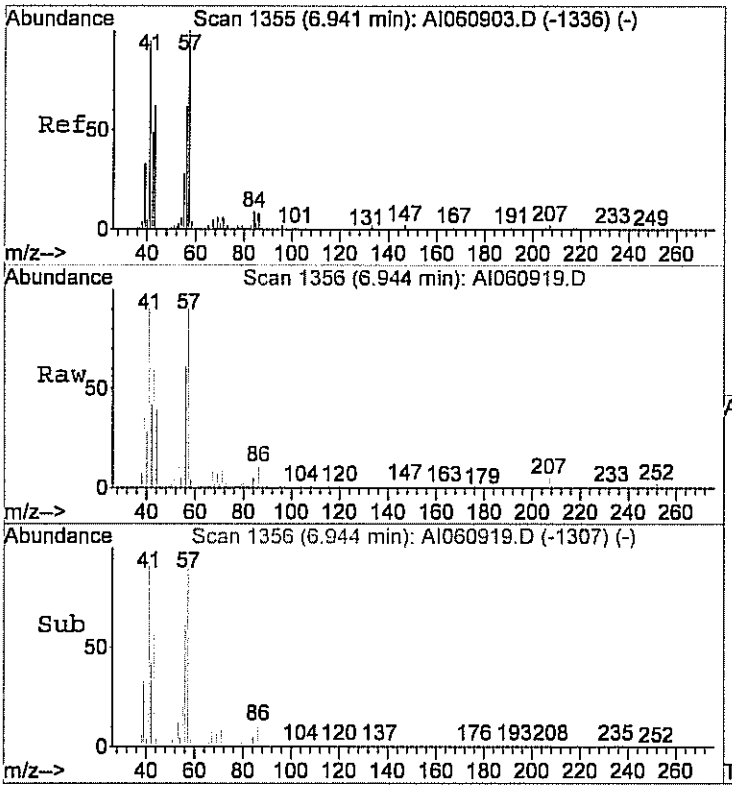


#14
Acetone
Concen: 1.91 ppb
RT: 4.44 min Scan# 520
Delta R.T. -0.00 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 58 Resp: 15474

Ion	Ratio	Lower	Upper
58	100		
43	418.4	282.0	342.0#

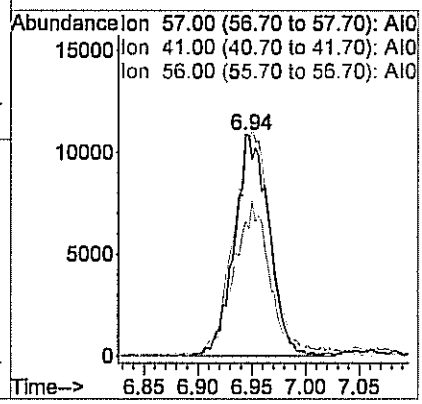


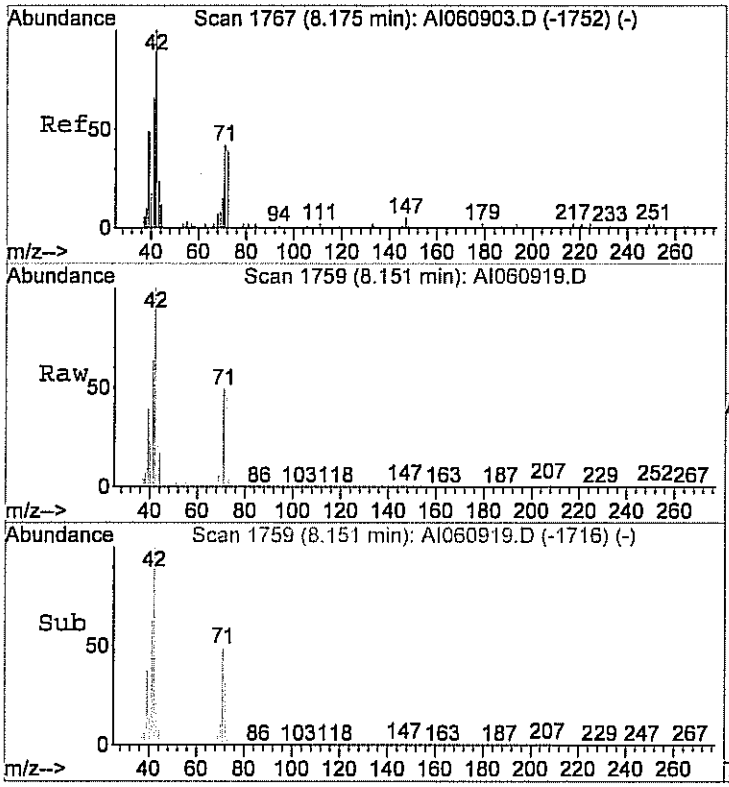


#27
Hexane
Concen: 1.05 ppb
RT: 6.94 min Scan# 1356
Delta R.T. -0.00 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 57 Resp: 24415

Ion	Ratio	Lower	Upper
57	100		
41	109.6	85.5	125.5
56	69.7	47.9	87.9

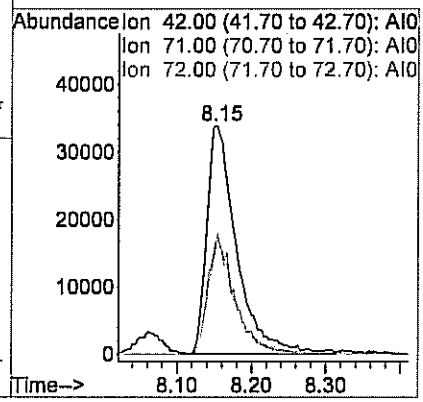


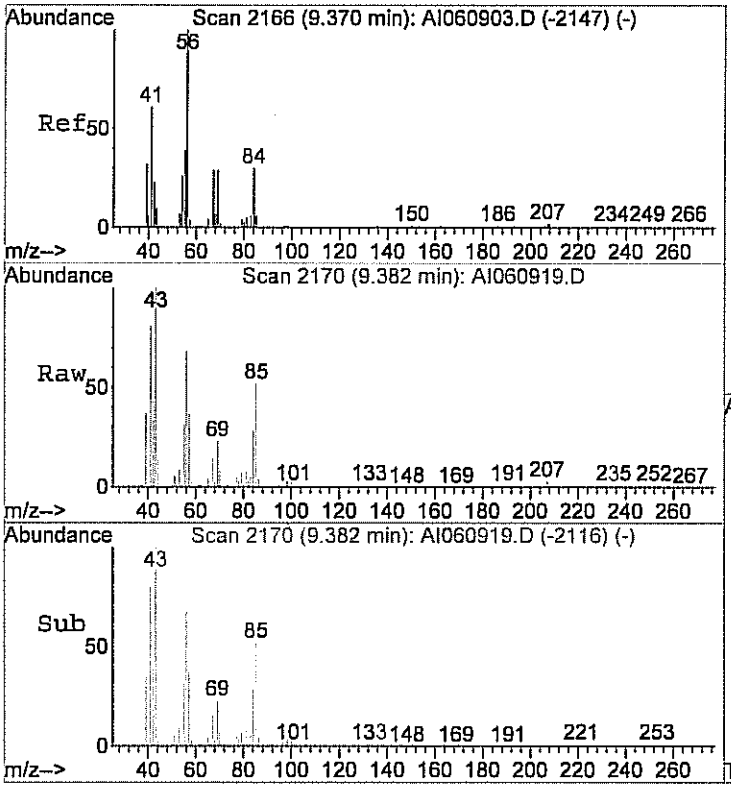


#30
Tetrahydrofuran
Concen: 6.72 ppb
RT: 8.15 min Scan# 1759
Delta R.T. -0.02 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 42 Resp: 94000

Ion	Ratio	Lower	Upper
42	100		
71	48.4	22.3	62.3
72	46.3	19.9	59.9

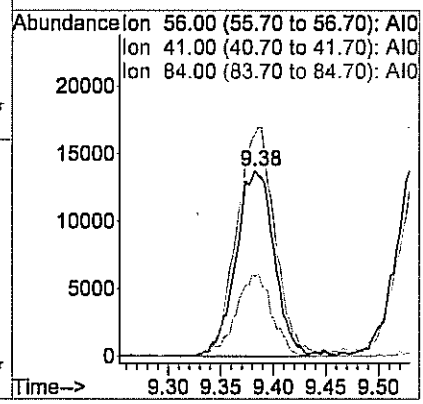


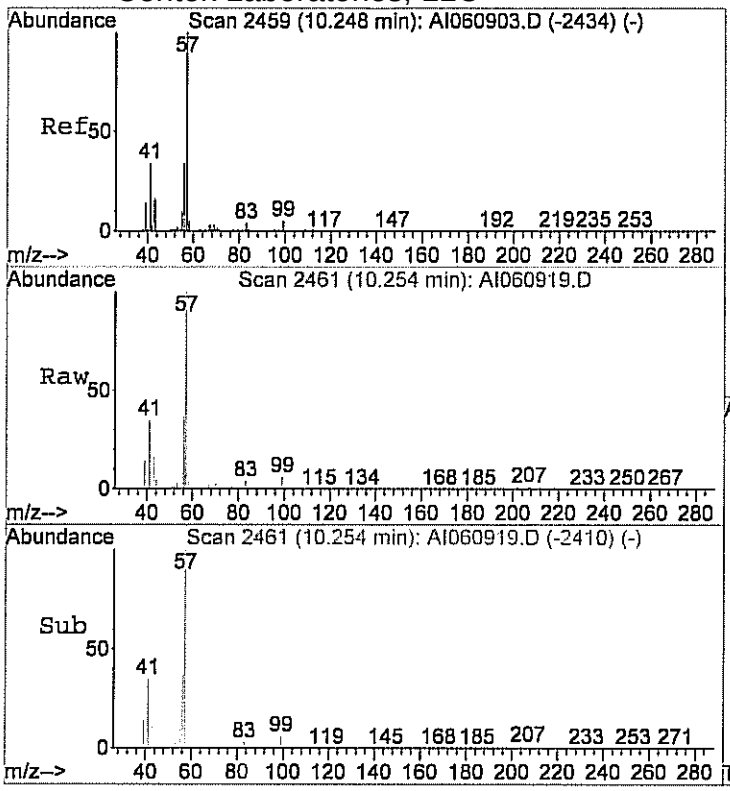


#34
Cyclohexane
Concen: 1.28 ppb
RT: 9.38 min Scan# 2170
Delta R.T. 0.01 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 56 Resp: 34920

Ion	Ratio	Lower	Upper
56	100		
41	125.3	49.2	89.2#
84	41.7	122.8	162.8#

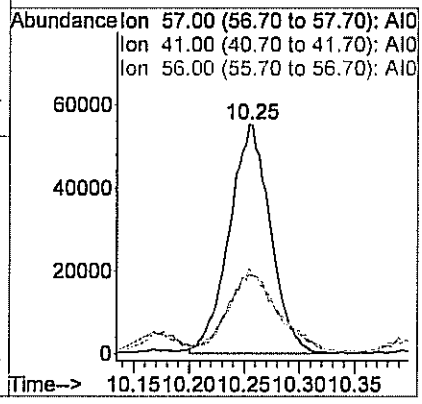


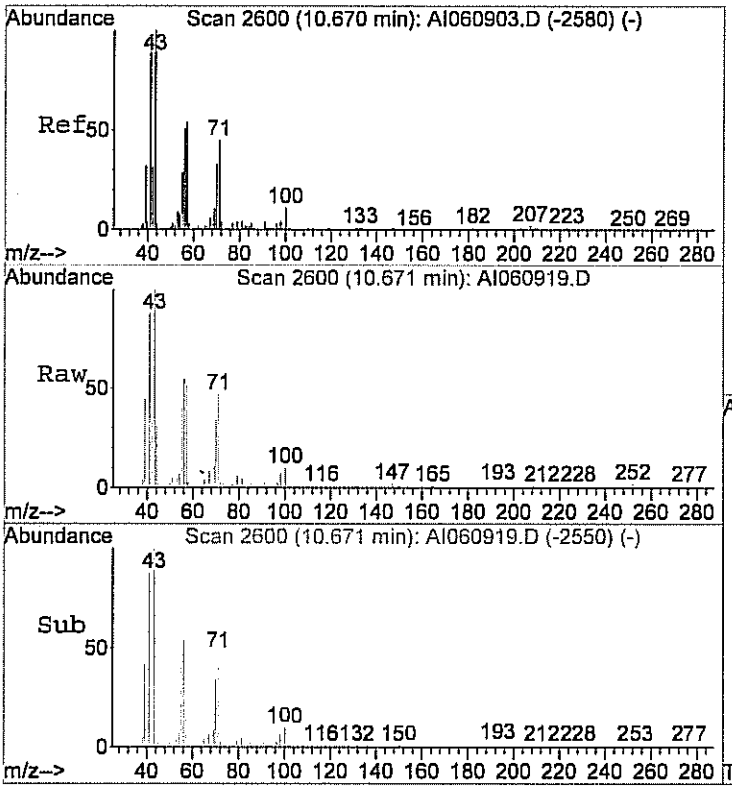


#39
2,2,4-trimethylpentane
Concen: 1.58 ppb
RT: 10.25 min Scan# 2461
Delta R.T. 0.00 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 57 Resp: 143348

Ion	Ratio	Lower	Upper
57	100		
41	55.0	18.5	58.5
56	53.6	16.9	56.9

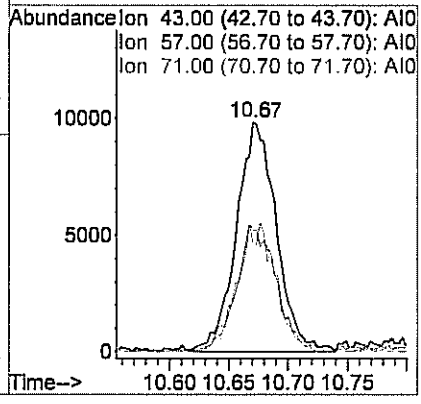


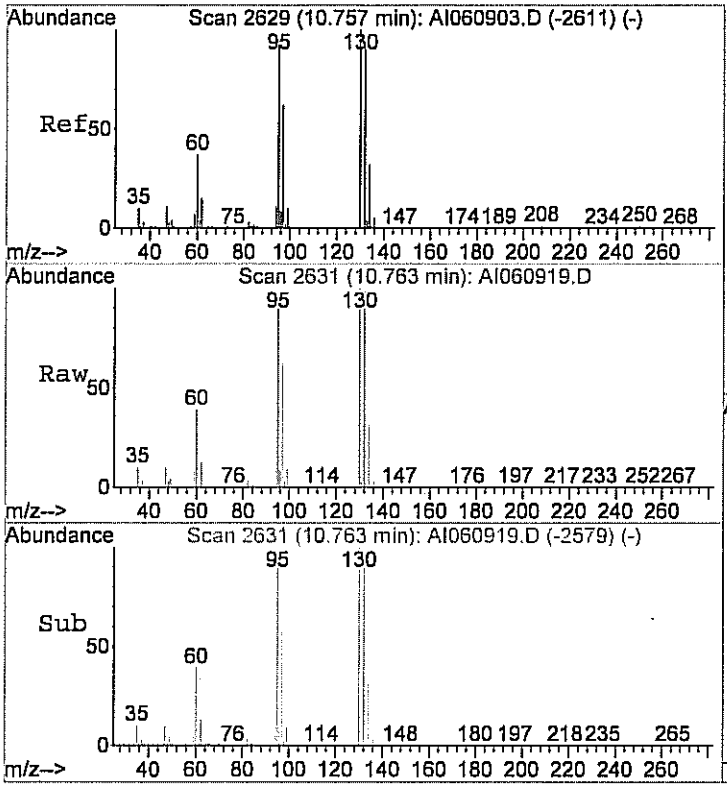


#40
Heptane
Concen: 0.80 ppb
RT: 10.67 min Scan# 2600
Delta R.T. -0.00 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion: 43 Resp: 23131

Ion	Ratio	Lower	Upper
43	100		
57	55.9	35.1	75.1
71	53.8	35.4	75.4

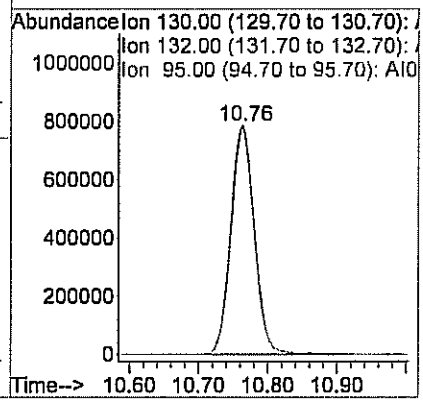


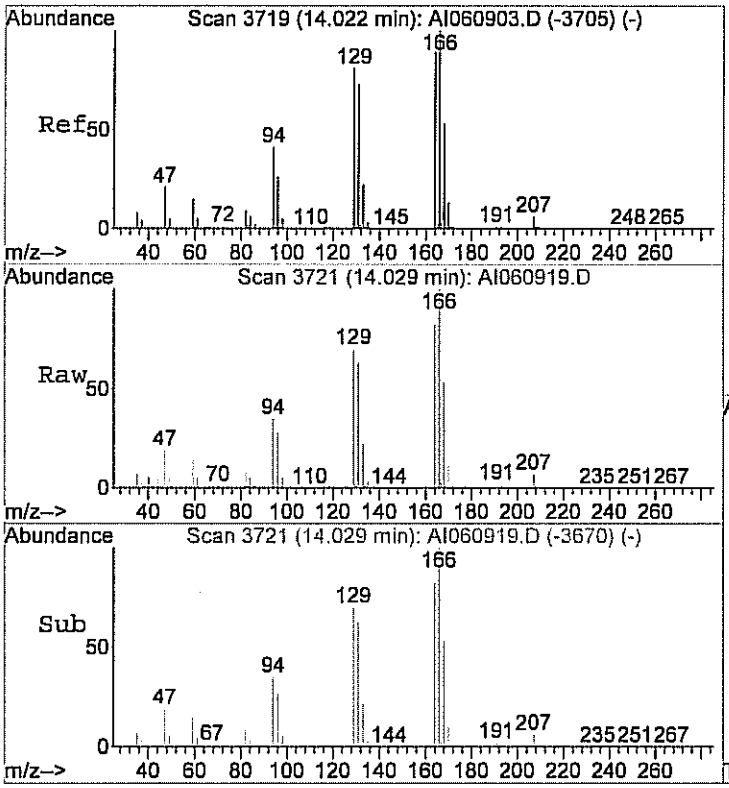


#41
Trichloroethene
Concen: 34.25 ppb
RT: 10.76 min Scan# 2631
Delta R.T. 0.01 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion:130 Resp: 1861992

Ion	Ratio	Lower	Upper
130	100		
132	97.6	76.9	116.9
95	94.9	73.2	113.2

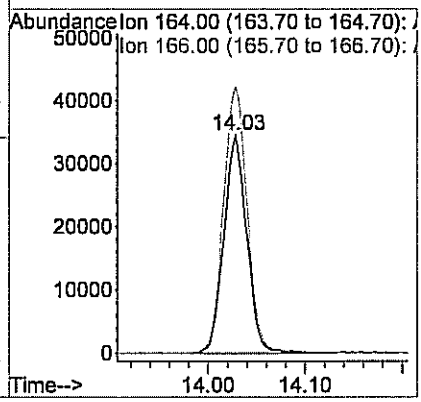




#53
Tetrachloroethylene
Concen: 0.90 ppb
RT: 14.03 min Scan# 3721
Delta R.T. 0.00 min
Lab File: AI060919.D
Acq: 9 Jun 2011 11:17 pm

Tgt Ion:164 Resp: 56169

Ion	Ratio	Lower	Upper
164	100		
166	127.3	111.1	151.1



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061307.D Vial: 48
Acq On : 13 Jun 2011 1:51 pm Operator: RJP
Sample : C1106007-001A 810X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 14:12:29 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

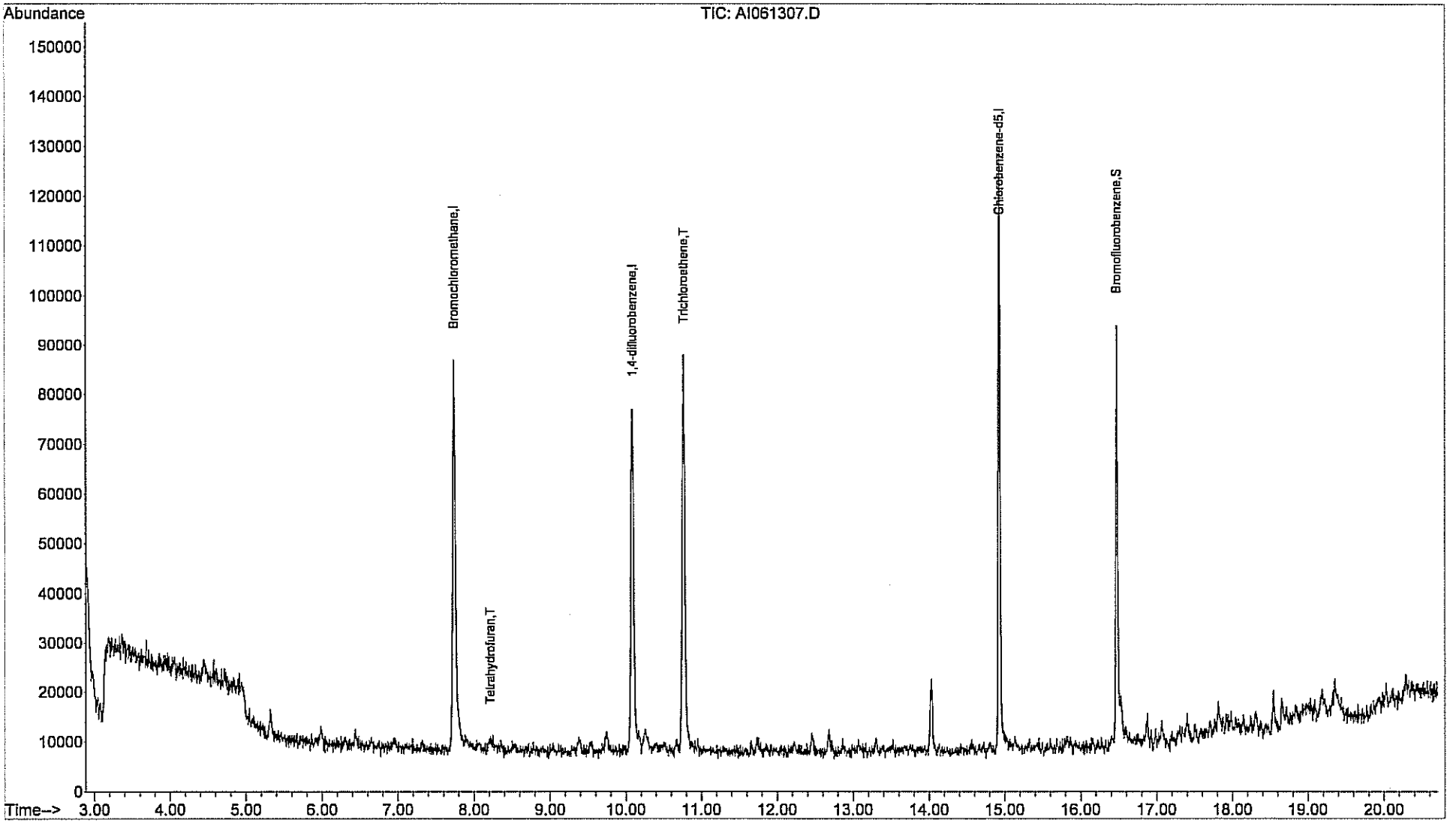
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	33638	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	79162	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	74093	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	27256	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
30) Tetrahydrofuran	8.22	42	2991m	0.21	ppb	
41) Trichloroethene	10.76	130	35694	0.78	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI061307.D A606_1UG.M Wed Jul 06 17:45:01 2011 MSD1 Page 1

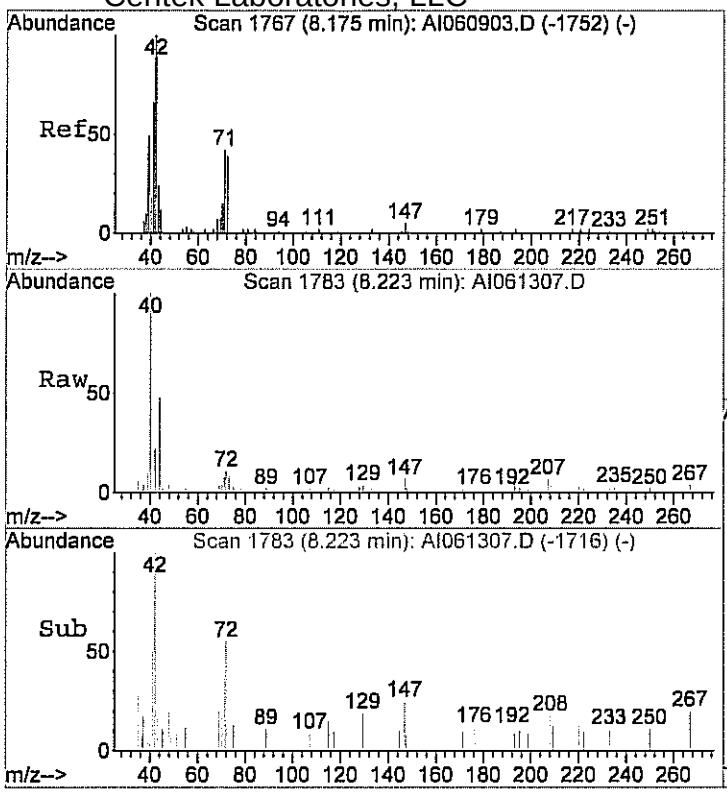
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061307.D Vial: 48
Acq On : 13 Jun 2011 1:51 pm Operator: RJP
Sample : C1106007-001A 810X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:30 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



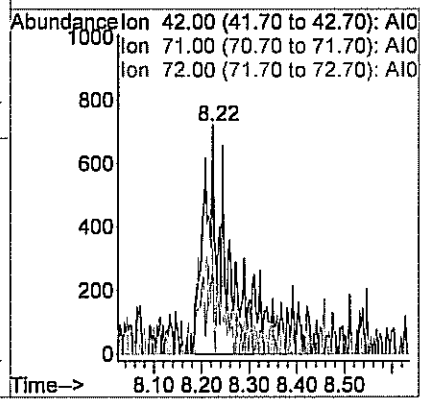
Centek Laboratories, LLC

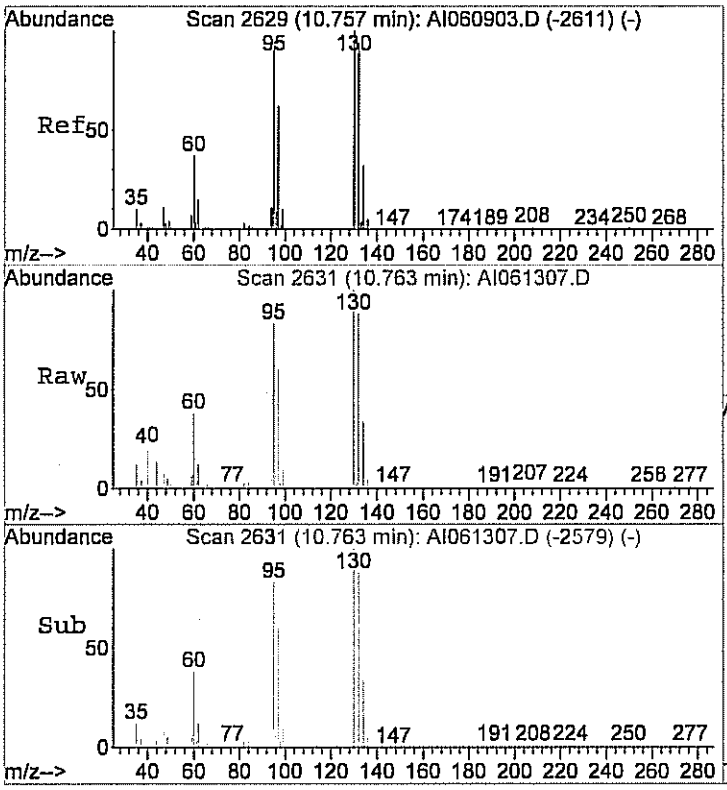


#30
Tetrahydrofuran
Concen: 0.21 ppb m
RT: 8.22 min Scan# 1783
Delta R.T. 0.05 min
Lab File: AI061307.D
Acq: 13 Jun 2011 1:51 pm

Tgt Ion: 42 Resp: 2991

Ion	Ratio	Lower	Upper
42	100		
71	0.4	22.3	62.3#
72	0.0	19.9	59.9#

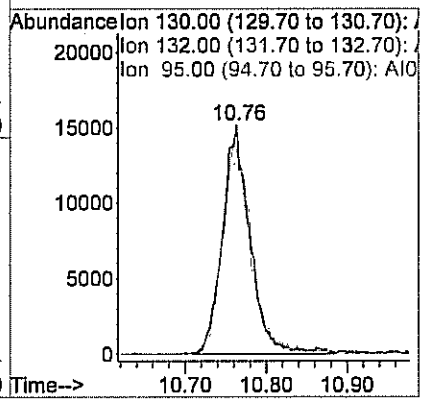




#41
Trichloroethene
Concen: 0.78 ppb
RT: 10.76 min Scan# 2631
Delta R.T. 0.01 min
Lab File: AI061307.D
Acq: 13 Jun 2011 1:51 pm

Tgt Ion:130 Resp: 35694

Ion	Ratio	Lower	Upper
130	100		
132	97.1	76.9	116.9
95	92.7	73.2	113.2



Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Acetone	2.2	0.30		ppbV	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroform	0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.24	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 12	0.27	0.15		ppbV	1	6/9/2011 7:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.29	0.30	J	ppbV	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	6.3	1.5		ppbV	10	6/9/2011 10:40:00 PM
Toluene	0.12	0.15	J	ppbV	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.55	0.75	J	ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Acetone	5.3	0.72		ug/m3	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 7:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.32	0.47	J	ug/m3	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 7:26:00 PM
Chloroform	0.74	0.74		ug/m3	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.31	0.31	.	ug/m3	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.97	0.60		ug/m3	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 7:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	1.4	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.53	1.3	J	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.87	0.90	J	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 7:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	19	4.5		ug/m3	10	6/9/2011 10:40:00 PM
Toluene	0.46	0.57	J	ug/m3	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Trichloroethene	1.3	0.82		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060913.D Vial: 29
Acq On : 9 Jun 2011 7:26 pm Operator: RJP
Sample : C1106007-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 19:46:52 2011 Quant Results File: A606_1UG.RES

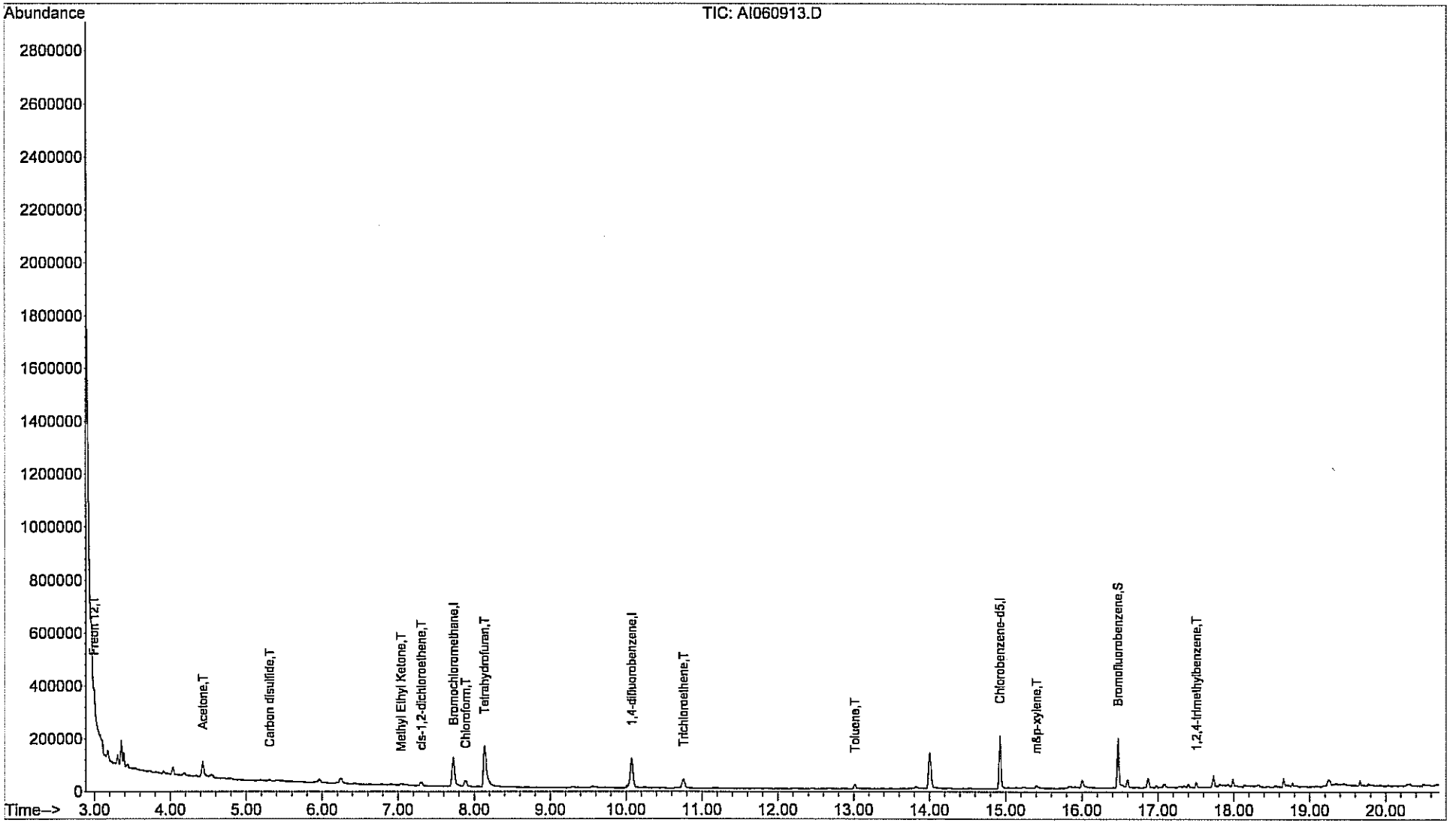
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.72	128	44121	1.00	ppb		-0.01
32) 1,4-difluorobenzene	10.07	114	126771	1.00	ppb		0.00
47) Chlorobenzene-d5	14.93	117	121265	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	60135	1.16	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 116.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	41014	0.27	ppb		98
14) Acetone	4.43	58	23082	2.18	ppb		96
20) Carbon disulfide	5.31	76	11650	0.10	ppb		88
25) Methyl Ethyl Ketone	7.04	72	2927	0.29	ppb	#	85
26) cis-1,2-dichloroethene	7.30	61	10470	0.24	ppb		95
29) Chloroform	7.89	83	16014	0.15	ppb		100
30) Tetrahydrofuran	8.14	42	113839	6.23	ppb		90
41) Trichloroethene	10.76	130	16573	0.23	ppb		98
48) Toluene	13.01	92	7390	0.12	ppb		98
56) m&p-xylene	15.40	91	10326	0.12	ppb		92
65) 1,2,4-trimethylbenzene	17.50	105	6536	0.11	ppb		96

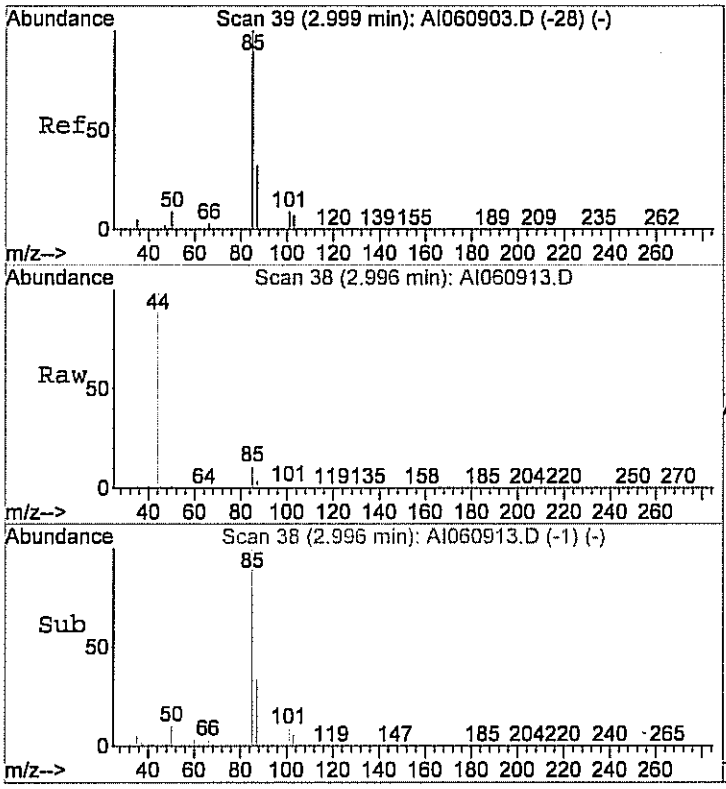
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060913.D A606_1UG.M Wed Jul 06 17:32:58 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI060913.D Vial: 29
Acq On : 9 Jun 2011 7:26 pm Operator: RJP
Sample : C1106007-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:26 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



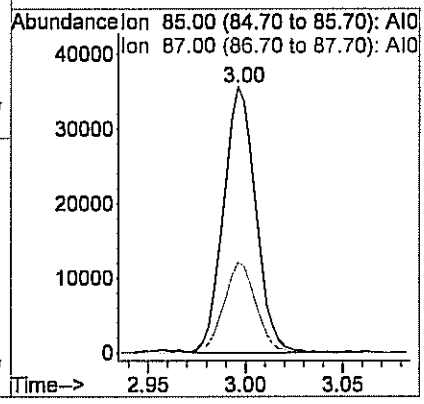
Centek Laboratories, LLC

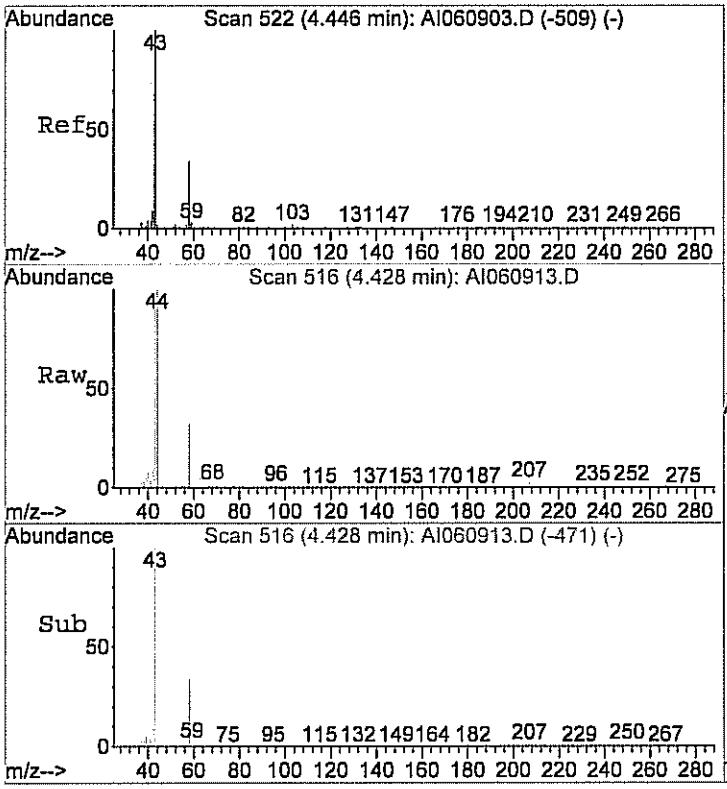


#3
Freon 12
Concen: 0.27 ppb
RT: 3.00 min Scan# 38
Delta R.T. -0.00 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 85 Resp: 41014

Ion	Ratio	Lower	Upper
85	100		
87	33.6	12.5	52.5

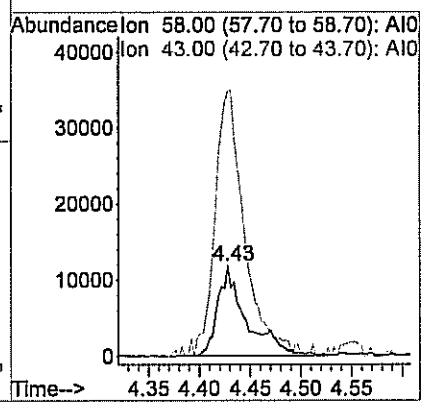


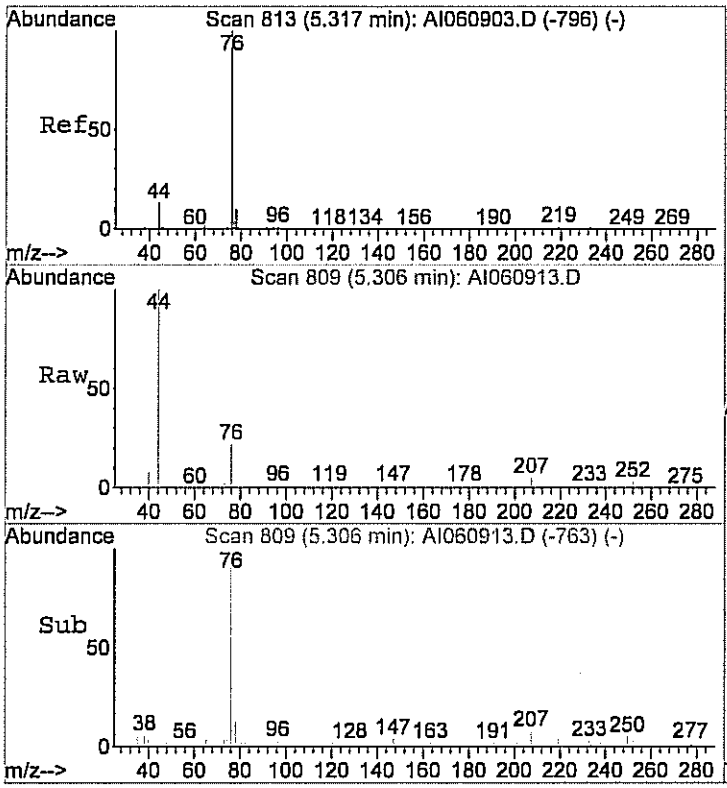


#14
Acetone
Concen: 2.18 ppb
RT: 4.43 min Scan# 516
Delta R.T. -0.01 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 58 Resp: 23082

Ion	Ratio	Lower	Upper
58	100		
43	304.0	282.0	342.0

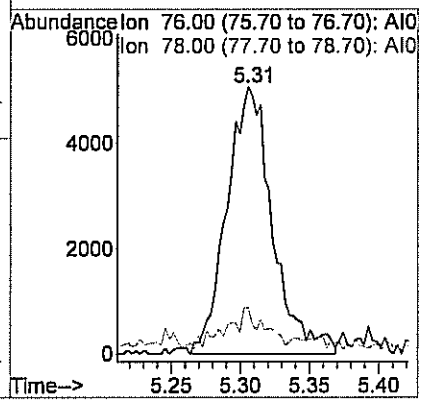


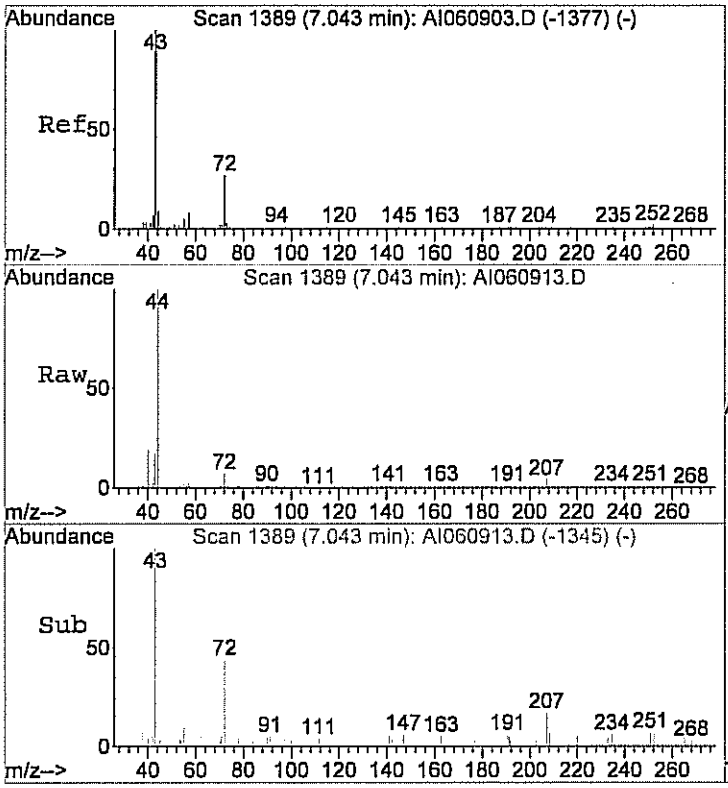


#20
Carbon disulfide
Concen: 0.10 ppb
RT: 5.31 min Scan# 809
Delta R.T. -0.01 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 76 Resp: 11650

Ion	Ratio	Lower	Upper
76	100		
78	16.4	0.0	31.9

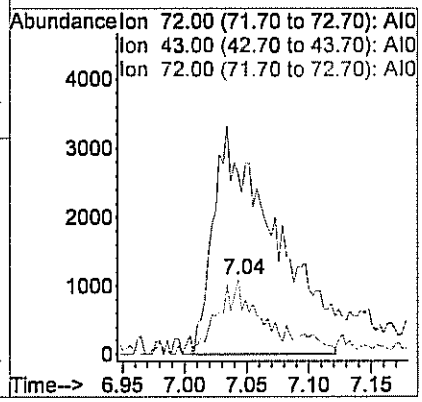


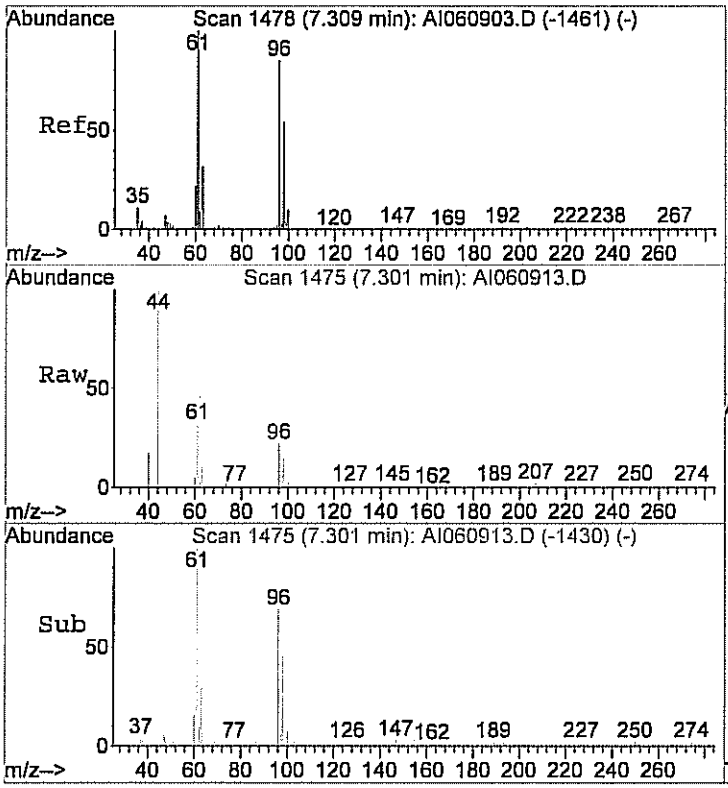


#25
Methyl Ethyl Ketone
Concen: 0.29 ppb
RT: 7.04 min Scan# 1389
Delta R.T. -0.02 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 72 Resp: 2927

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	66.2	106.2

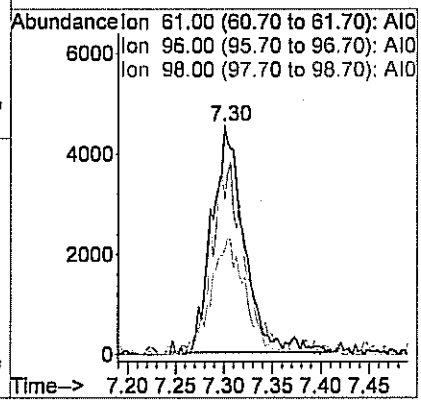


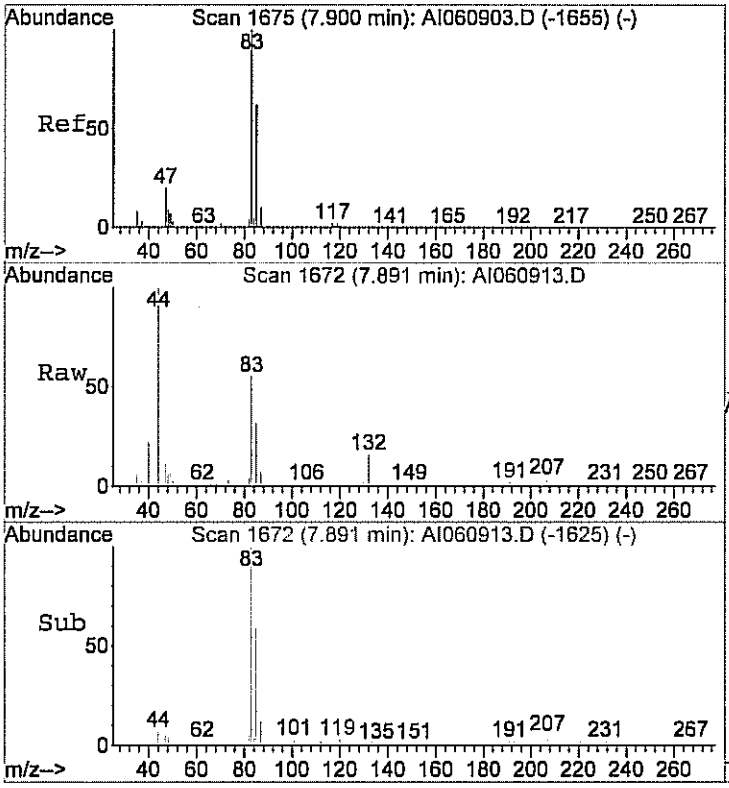


#26
cis-1,2-dichloroethene
Concen: 0.24 ppb
RT: 7.30 min Scan# 1475
Delta R.T. -0.01 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 61 Resp: 10470

Ion	Ratio	Lower	Upper
61	100		
96	91.2	66.5	106.5
98	54.7	37.7	77.7

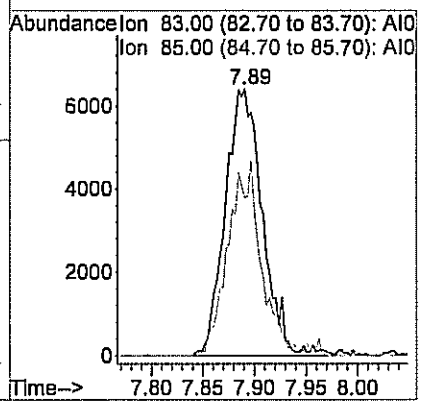


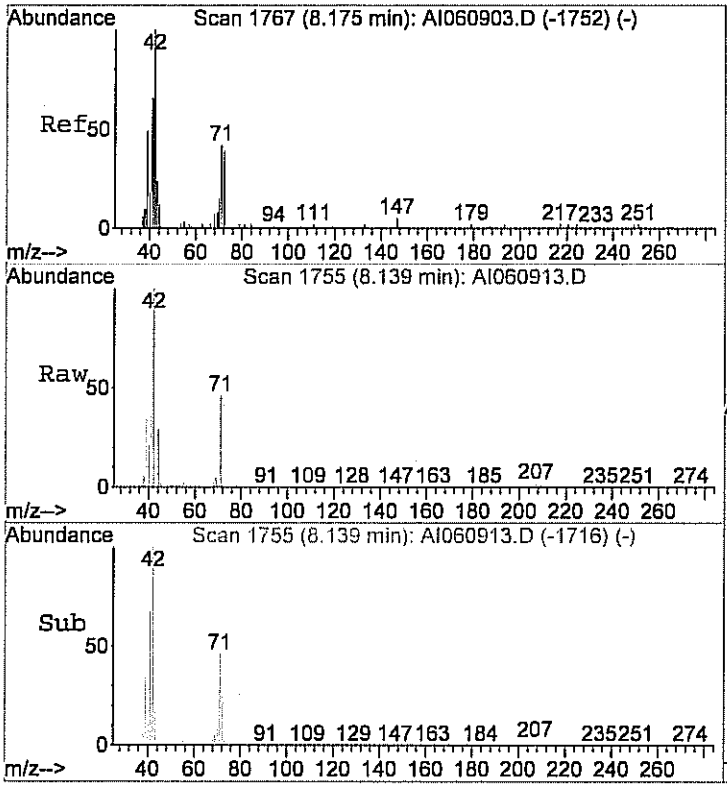


#29
Chloroform
Concen: 0.15 ppb
RT: 7.89 min Scan# 1672
Delta R.T. -0.01 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 83 Resp: 16014

Ion	Ratio	Lower	Upper
83	100		
85	66.2	46.1	86.1

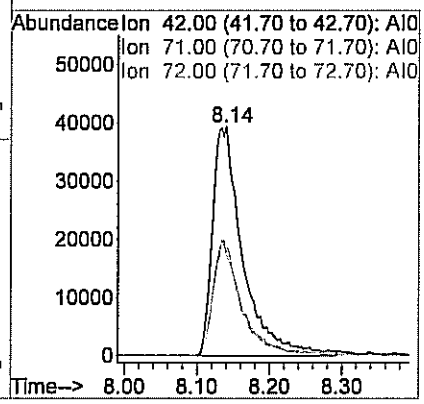


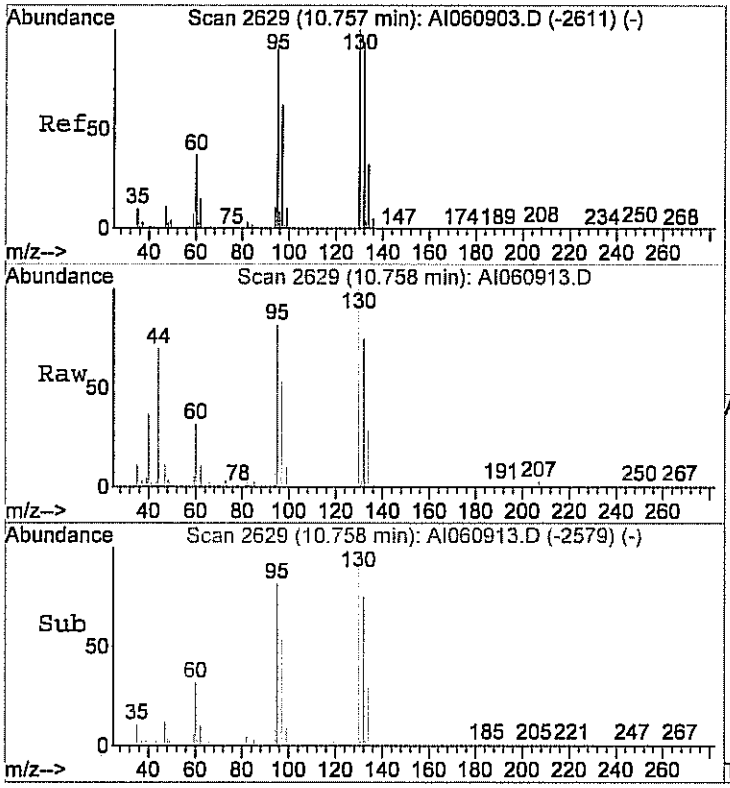


#30
Tetrahydrofuran
Concen: 6.23 ppb
RT: 8.14 min Scan# 1755
Delta R.T. -0.03 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 42 Resp: 113839

Ion	Ratio	Lower	Upper
42	100		
71	48.3	22.3	62.3
72	46.8	19.9	59.9

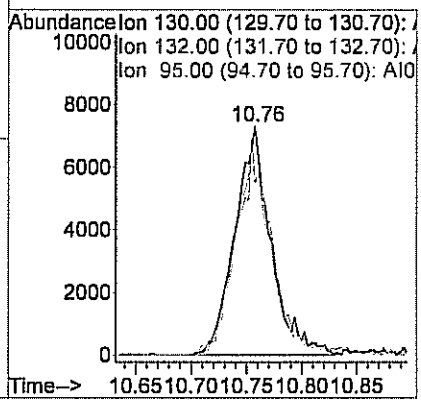


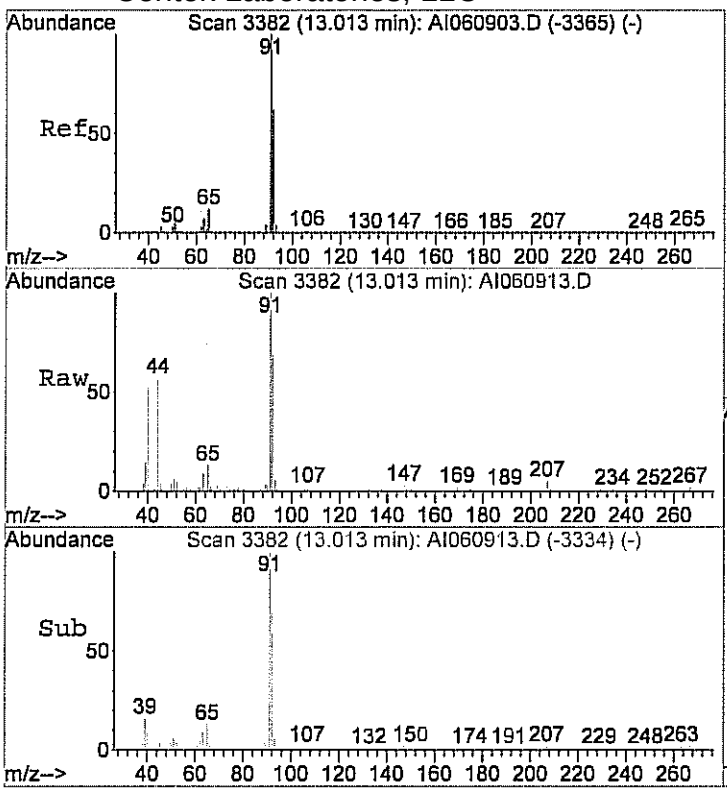


#41
Trichloroethene
Concen: 0.23 ppb
RT: 10.76 min Scan# 2629
Delta R.T. 0.00 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion:130 Resp: 16573

Ion	Ratio	Lower	Upper
130	100		
132	94.9	76.9	116.9
95	94.8	73.2	113.2

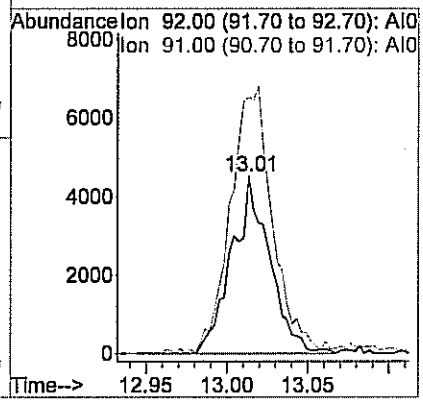


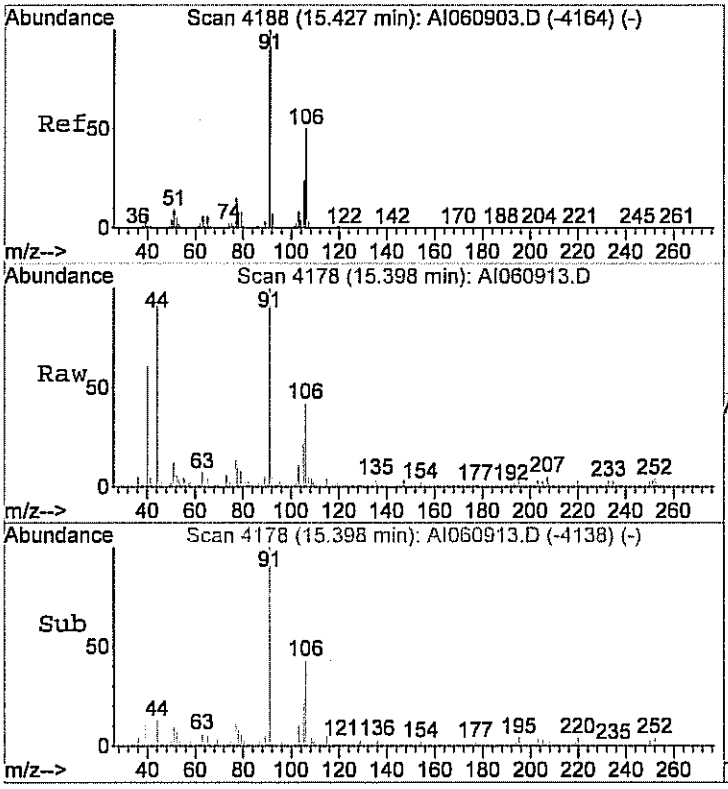


#48
Toluene
Concen: 0.12 ppb
RT: 13.01 min Scan# 3382
Delta R.T. -0.01 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 92 Resp: 7390

Ion	Ratio	Lower	Upper
92	100		
91	173.1	155.3	195.3

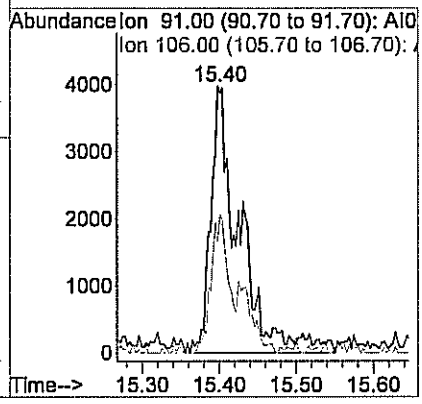


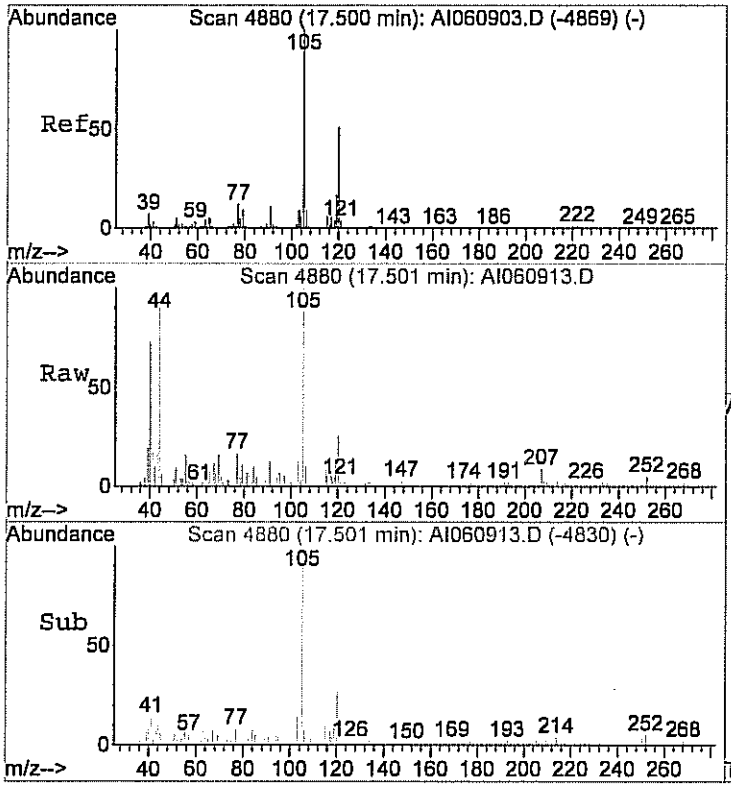


#56
m&p-xylene
Concen: 0.12 ppb
RT: 15.40 min Scan# 4178
Delta R.T. -0.03 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion: 91 Resp: 10326

Ion	Ratio	Lower	Upper
91	100		
106	45.2	30.5	70.5

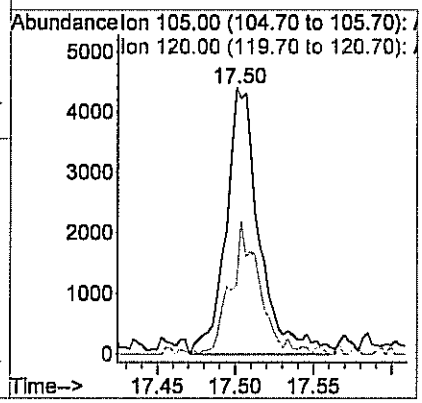




#65
1,2,4-trimethylbenzene
Concen: 0.11 ppb
RT: 17.50 min Scan# 4880
Delta R.T. 0.00 min
Lab File: AI060913.D
Acq: 9 Jun 2011 7:26 pm

Tgt Ion:105 Resp: 6536

Ion	Ratio	Lower	Upper
105	100		
120	43.1	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060918.D Vial: 34
Acq On : 9 Jun 2011 10:40 pm Operator: RJP
Sample : C1106007-002A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 23:01:23 2011 Quant Results File: A606_1UG.RES

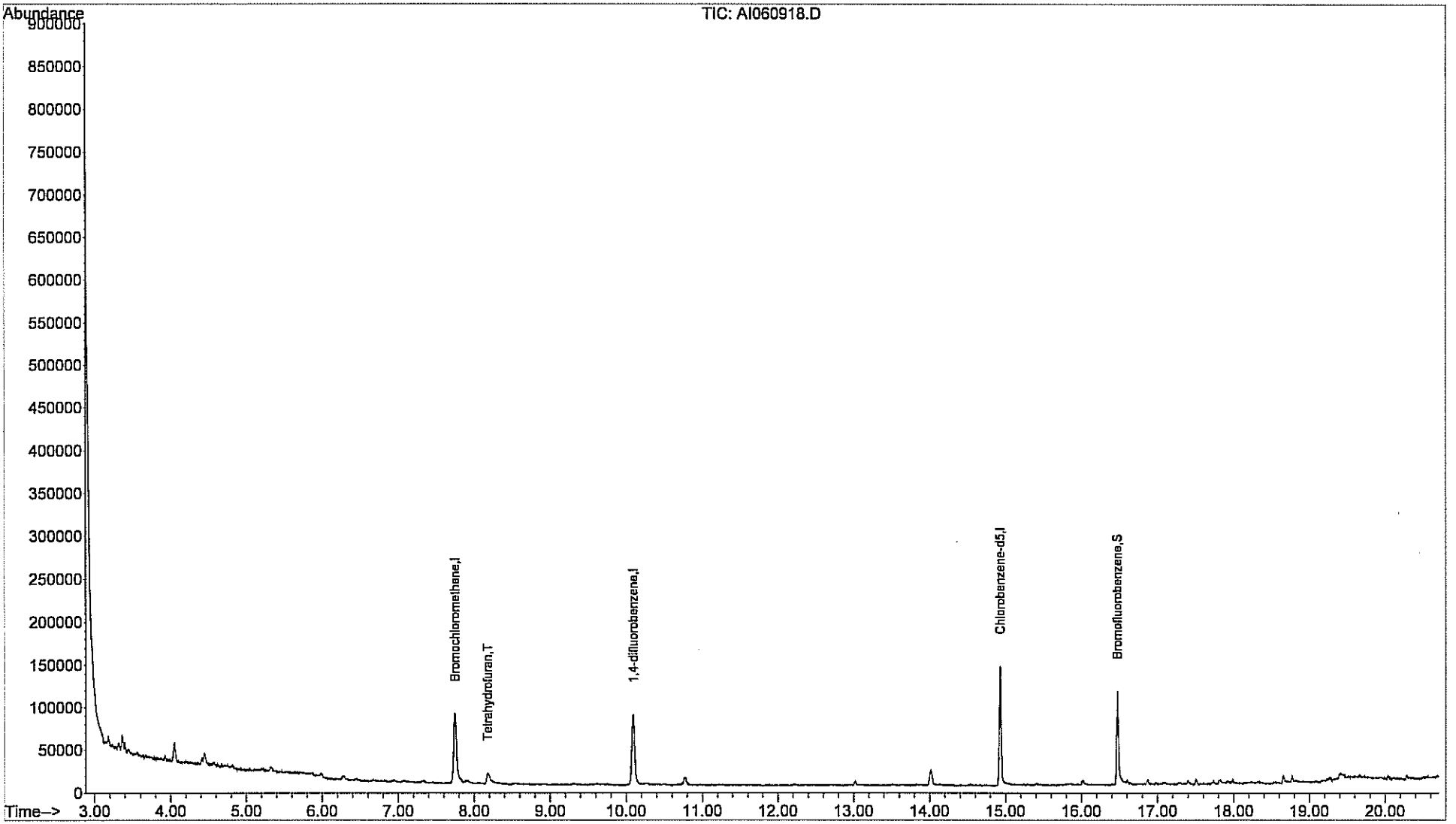
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	35651	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	91150	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	84242	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	36348	1.01	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%			
Target Compounds						Qvalue
30) Tetrahydrofuran	8.18	42	9352	0.63	ppb	97

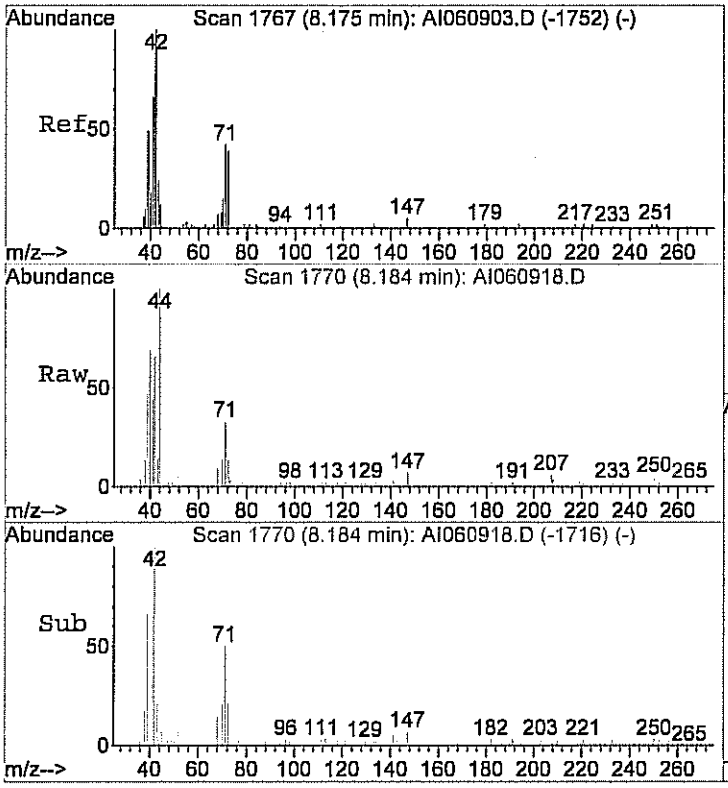
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060918.D Vial: 34
Acq On : 9 Jun 2011 10:40 pm Operator: RJP
Sample : C1106007-002A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:31 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



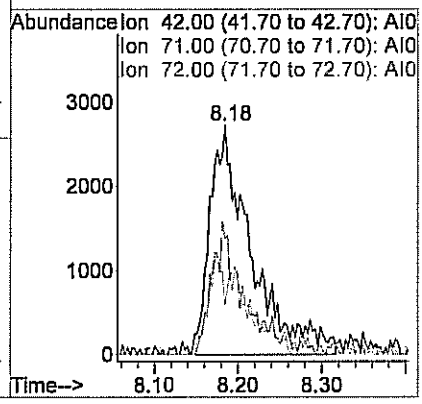
Centek Laboratories, LLC



#30
Tetrahydrofuran
Concen: 0.63 ppb
RT: 8.18 min Scan# 1770
Delta R.T. 0.01 min
Lab File: AI060918.D
Acq: 9 Jun 2011 10:40 pm

Tgt Ion: 42 Resp: 9352

Ion	Ratio	Lower	Upper
42	100		
71	44.5	22.3	62.3
72	38.3	19.9	59.9



Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:01:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:01:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 6:01:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:01:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 6:01:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060911.D Vial: 27
Acq On : 9 Jun 2011 6:01 pm Operator: RJP
Sample : C1106007-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 18:22:09 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

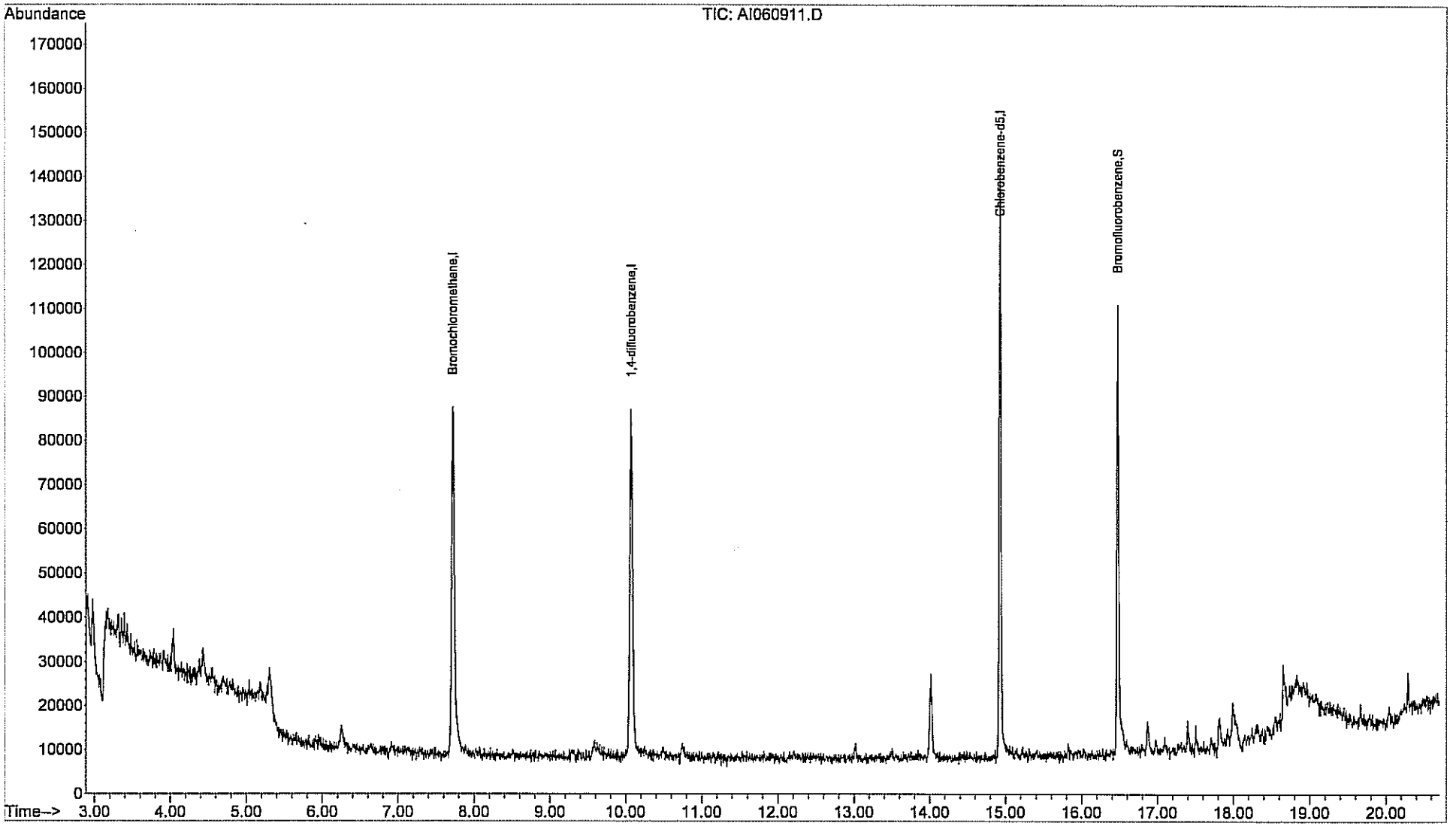
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	34098	1.00	ppb	-0.02
32) 1,4-difluorobenzene	10.07	114	90271	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	81811	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	32609	0.93	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060911.D
Acq On : 9 Jun 2011 6:01 pm
Sample : C1106007-003A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:23 2011

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI060604.D 0.10 =AI060615.D 0.15 =AI060612.D
0.30 =AI060611.D 0.50 =AI060610.D 0.75 =AI060609.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.737	0.656	0.565	0.573	0.592	13.15
3)	T	Freon 12			3.884	3.757	3.413	3.371	3.420	8.84
4)	T	Chloromethane			1.028	0.897	0.847	0.780	0.831	12.67
5)	T	Freon 114			2.790	2.513	2.358	2.406	2.391	8.83
6)	T	Vinyl Chloride	1.122	0.641	0.783	0.751	0.661	0.678	0.727	21.73
7)	T	1,3-butadiene			0.778	0.434	0.477	0.437	0.488	26.50
8)	T	Bromomethane			1.065	0.885	0.838	0.826	0.860	11.10
9)	T	Ethanol			0.201	0.230	0.279	0.196	0.223	12.22
10)	T	Acrolein			0.188	0.138	0.151	0.156	0.155	10.28
11)	T	Chloroethane			0.348	0.306	0.283	0.279	0.279	13.56
12)	T	Vinyl Bromide			0.969	0.896	0.798	0.829	0.842	8.36
13)	T	Freon 11			2.790	2.509	2.335	2.266	2.338	10.27
14)	T	Acetone				0.294	0.239	0.228	0.240	11.99
15)	T	Isopropyl alcoh			0.876	0.703	0.662	0.649	0.679	14.27
16)	T	1,1-dichloroeth			0.950	0.746	0.732	0.716	0.733	14.08
17)	T	Freon 113			1.966	1.718	1.619	1.644	1.641	10.11
18)	T	Methylene chlor			0.677	0.812	0.635	0.700	0.755	12.35
19)	T	Allyl chloride			0.828	0.772	0.634	0.659	0.711	12.73
20)	T	Carbon disulfid			2.911	2.488	2.509	2.348	2.520	15.46
21)	T	trans-1,2-dichl			1.338	1.249	1.180	1.188	1.190	6.84
22)	T	methyl tert-but			1.522	1.421	1.366	1.460	1.475	4.60
23)	T	1,1-dichloroeth			1.980	1.839	1.747	1.695	1.751	6.92
24)	T	Vinyl acetate			0.971	0.859	0.884	0.922	0.931	5.55
25)	T	Methyl Ethyl Ke			0.257	0.221	0.205	0.211	0.227	7.66
26)	T	cis-1,2-dichlor			1.028	1.047	0.991	1.016	1.009	2.26
27)	T	Hexane			0.708	0.655	0.648	0.685	0.687	4.85
28)	T	Ethyl acetate			1.075	0.941	0.970	1.020	1.004	4.29
29)	T	Chloroform			2.763	2.560	2.441	2.445	2.473	6.26
30)	T	Tetrahydrofuran			0.421	0.424	0.375	0.391	0.414	6.37
31)	T	1,2-dichloroeth			1.627	1.411	1.342	1.398	1.390	8.04
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			1.276	1.097	1.055	1.035	1.049	10.90
34)	T	Cyclohexane			0.308	0.264	0.261	0.287	0.292	8.41
35)	T	Carbon tetrachl	2.185	1.252	1.451	1.252	1.212	1.201	1.324	25.59
36)	T	Benzene			1.060	0.992	0.935	0.968	0.965	5.00
37)	T	Methyl methacry			0.180	0.152	0.153	0.153	0.156	10.72
38)	T	1,4-dioxane				0.077	0.058	0.075	0.076	12.71
39)	T	2,2,4-trimethyl			1.005	0.918	0.912	0.966	0.967	4.71
40)	T	Heptane			0.306	0.298	0.280	0.302	0.310	7.79
41)	T	Trichloroethene	0.962	0.495	0.583	0.516	0.517	0.539	0.580	25.06
42)	T	1,2-dichloropro			0.395	0.353	0.359	0.359	0.361	4.59
43)	T	Bromodichlorome			1.078	0.949	0.929	0.921	0.934	7.38
44)	T	cis-1,3-dichlor			0.394	0.366	0.366	0.366	0.377	3.52
45)	T	trans-1,3-dichl			0.325	0.288	0.286	0.300	0.299	4.85
46)	T	1,1,2-trichloro			0.523	0.470	0.469	0.487	0.481	4.29
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.488	0.425	0.426	0.480	0.494	12.25
49)	T	Methyl Isobutyl			0.369	0.284	0.263	0.284	0.318	12.71
50)	T	Dibromochlorome			1.130	1.011	0.933	0.967	0.979	7.61
51)	T	Methyl Butyl Ke			0.174	0.228	0.189	0.174	0.189	11.56

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI060604.D 0.10 =AI060615.D 0.15 =AI060612.D
0.30 =AI060611.D 0.50 =AI060610.D 0.75 =AI060609.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52)	T	1,2-dibromoetha			0.735	0.692	0.643	0.675	0.680	4.15
53)	T	Tetrachloroethy			0.720	0.625	0.579	0.598	0.619	7.64
54)	T	Chlorobenzene			0.881	0.831	0.815	0.819	0.837	2.62
55)	T	Ethylbenzene			0.756	0.744	0.723	0.789	0.823	13.15
56)	T	m&p-xylene			0.612	0.547	0.578	0.657	0.696	19.81
57)	T	Styrene			0.386	0.361	0.351	0.378	0.398	11.57
58)	T	Bromoform			0.907	0.849	0.830	0.862	0.863	2.71
59)	T	o-xylene			0.812	0.608	0.836	0.719	0.851	22.57
60)	S	Bromofluorobenz	0.399	0.407	0.409	0.414	0.415	0.438	0.428	7.30
61)	T	1,1,2,2-tetrach			0.869	0.796	0.783	0.752	0.771	6.72
62)	T	2-Chlorotoluene			0.752	0.700	0.712	0.752	0.802	15.76
63)	T	4-ethyltoluene			0.530	0.499	0.511	0.577	0.626	22.78
64)	T	1,3,5-trimethyl			0.659	0.579	0.551	0.650	0.721	22.37
65)	T	1,2,4-trimethyl			0.437	0.404	0.419	0.469	0.490	18.35
66)	T	1,3-dichloroben			0.619	0.517	0.509	0.580	0.585	9.67
67)	T	benzyl chloride			0.417	0.333	0.361	0.393	0.399	11.82
68)	T	1,4-dichloroben			0.510	0.460	0.436	0.528	0.520	12.05
69)	T	1,2-dichloroben			0.562	0.516	0.481	0.556	0.552	7.89
70)	T	1,2,4-trichloro			0.273	0.217	0.215	0.242	0.239	9.62
71)	T	Naphthalene			0.394	0.270	0.223	0.275	0.299	18.59
72)	T	Hexachloro-1,3-			0.789	0.599	0.564	0.627	0.616	13.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060604.D Vial: 31
Acq On : 6 Jun 2011 3:20 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:29:46 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	32974	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	82728	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	76686	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30562	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.29	62	1480m	0.07	ppb	
35) Carbon tetrachloride	9.32	117	7230	0.08	ppb	98
41) Trichloroethene	10.75	130	3185	0.07	ppb	92

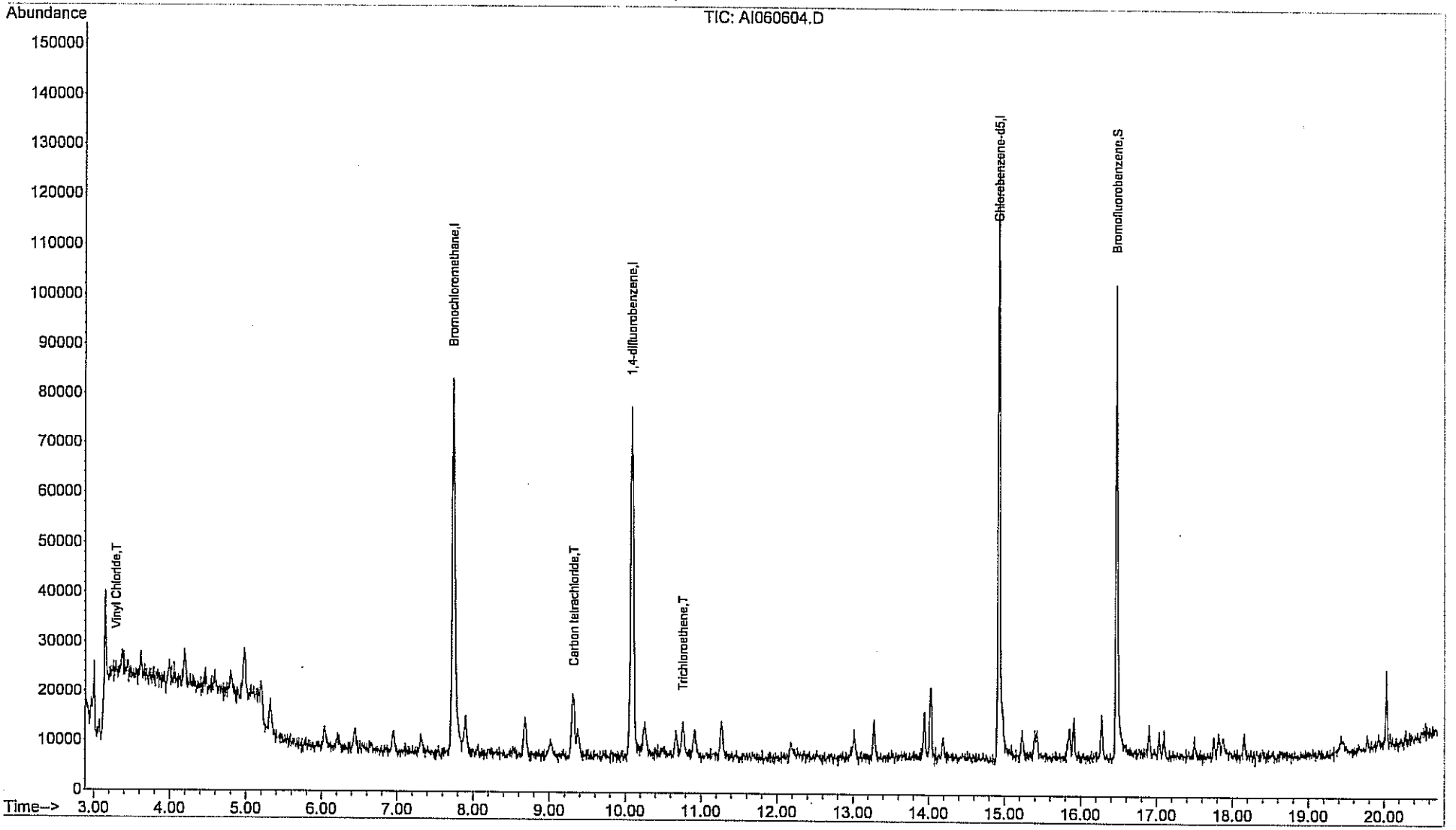
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060604.D
Acq On : 6 Jun 2011 3:20 pm
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:24 2011

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060604.D A606_1UG.M Wed Jul 06 17:31:02 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060605.D Vial: 32
Acq On : 6 Jun 2011 3:56 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:09:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34879	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	89058	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	89625	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	42492	1.16	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 116.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	35656	1.81	ppb		93
3) Freon 12	3.00	85	213635	1.84	ppb		99
4) Chloromethane	3.15	50	49855	1.79	ppb		98
5) Freon 114	3.15	85	151263	1.88	ppb		100
6) Vinyl Chloride	3.29	62	43694	1.89	ppb		99
7) 1,3-butadiene	3.36	39	29106	1.89	ppb		85
8) Bromomethane	3.61	94	54784	1.92	ppb		96
9) Ethanol	3.92	45	15307m	2.12	ppb		
10) Acrolein	4.36	56	9977	1.81	ppb		96
11) Chloroethane	3.74	64	16966	1.96	ppb		99
12) Vinyl Bromide	3.98	106	55085	1.85	ppb		97
13) Freon 11	4.19	101	148186	1.90	ppb		99
14) Acetone	4.44	58	15226	1.79	ppb		96
15) Isopropyl alcohol	4.57	45	39158	1.74	ppb		87
16) 1,1-dichloroethene	4.80	96	44528	1.83	ppb		99
17) Freon 113	4.97	101	102706	1.88	ppb		98
18) Methylene chloride	5.19	84	58328	1.86	ppb		94
19) Allyl chloride	5.19	41	51914	1.92	ppb		92
20) Carbon disulfide	5.31	76	185506	1.80	ppb		95
21) trans-1,2-dichloroethene	6.04	61	76200	1.90	ppb		98
22) methyl tert-butyl ether	6.19	73	108561	2.11	ppb		94
23) 1,1-dichloroethane	6.43	63	113881	1.91	ppb		100
24) Vinyl acetate	6.53	43	68185	2.14	ppb		100
25) Methyl Ethyl Ketone	7.04	72	15967	2.04	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	69122	1.96	ppb		96
27) Hexane	6.94	57	50805	2.19	ppb		96
28) Ethyl acetate	7.60	43	70377	2.03	ppb		96
29) Chloroform	7.89	83	161922	1.87	ppb		99
30) Tetrahydrofuran	8.16	42	31396	2.10	ppb		92
31) 1,2-dichloroethane	8.99	62	92092	1.98	ppb		97
33) 1,1,1-trichloroethane	8.68	97	171049	1.97	ppb		100
34) Cyclohexane	9.37	56	58766	2.29	ppb		97
35) Carbon tetrachloride	9.31	117	197068	1.91	ppb		99
36) Benzene	9.29	78	166223	1.99	ppb		99
37) Methyl methacrylate	11.14	41	26145m	2.23	ppb		
38) 1,4-dioxane	11.43	88	13754	1.93	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	182094	2.18	ppb		97
40) Heptane	10.66	43	62870	2.37	ppb		99
41) Trichloroethene	10.75	130	97073	2.01	ppb		98
42) 1,2-dichloropropane	10.89	63	64501	2.04	ppb		99
43) Bromodichloromethane	11.26	83	158842	1.98	ppb		98
44) cis-1,3-dichloropropene	12.17	75	70640	2.13	ppb		98
45) trans-1,3-dichloropropene	12.97	75	55083	2.16	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060605.D Vial: 32
Acq On : 6 Jun 2011 3:56 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:09:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

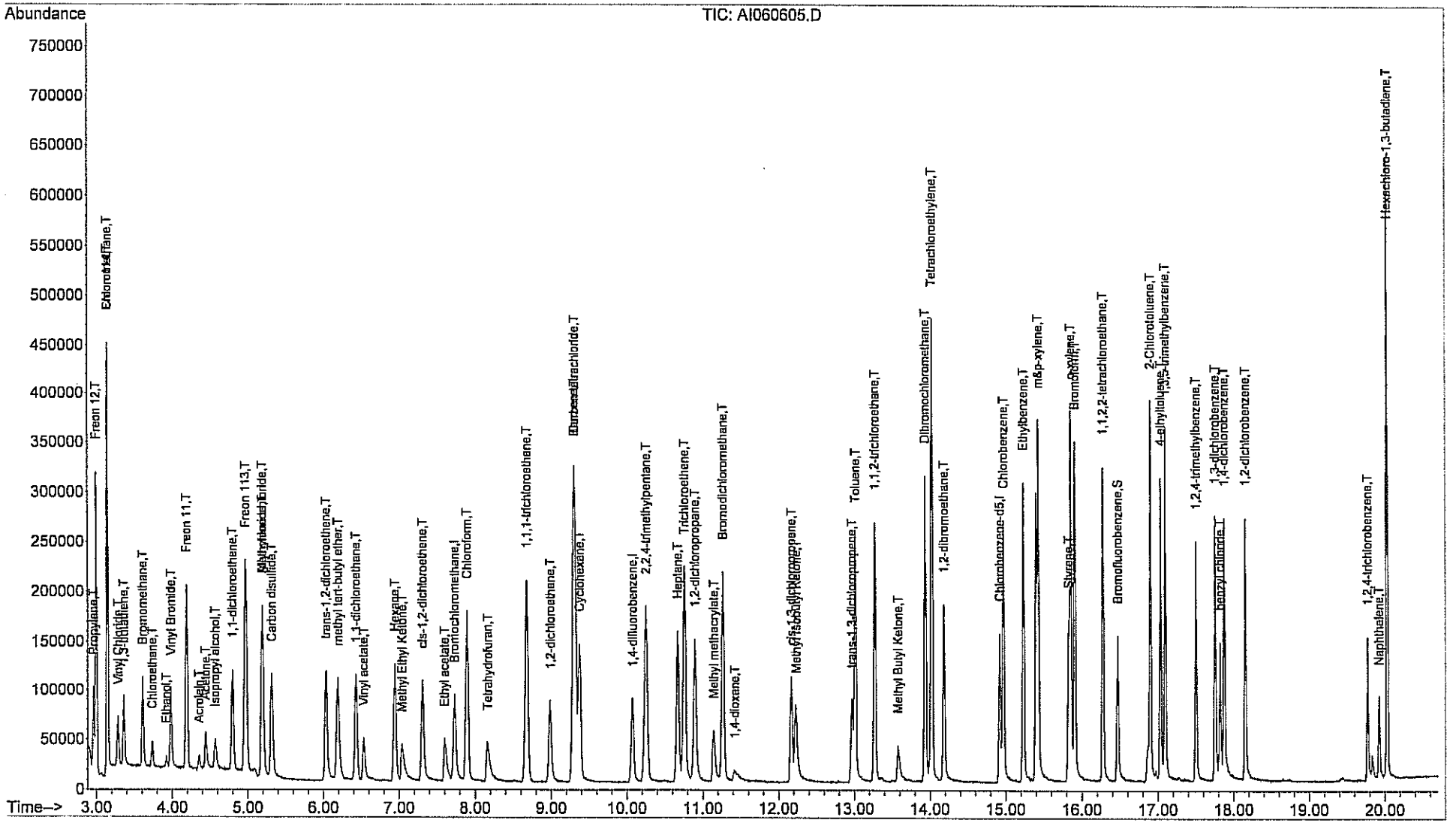
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	84940	1.98	ppb	100
48)	Toluene	13.01	92	106430	2.36	ppb	100
49)	Methyl Isobutyl Ketone	12.23	43	61779	2.08	ppb	99
50)	Dibromochloromethane	13.93	129	164678	1.89	ppb	98
51)	Methyl Butyl Ketone	13.58	43	31744	2.08	ppb	90
52)	1,2-dibromoethane	14.18	107	119929	1.98	ppb	99
53)	Tetrachloroethylene	14.02	164	106512	1.92	ppb	97
54)	Chlorobenzene	14.97	112	151540	2.02	ppb	99
55)	Ethylbenzene	15.23	91	182393	2.53	ppb	100
56)	m&p-xylene	15.42	91	329789	5.05	ppb	99
57)	Styrene	15.82	104	84865	2.47	ppb	99
58)	Bromoform	15.90	173	155020	1.99	ppb	99
59)	o-xylene	15.85	91	216853	2.99	ppb	90
61)	1,1,2,2-tetrachloroethane	16.27	83	128562	1.98	ppb	99
62)	2-Chlorotoluene	16.90	91	184183	2.79	ppb	97
63)	4-ethyltoluene	17.03	105	151422	2.76	ppb	99
64)	1,3,5-trimethylbenzene	17.09	105	169753	2.63	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	112266	2.67	ppb	99
66)	1,3-dichlorobenzene	17.75	146	114683	2.21	ppb	99
67)	benzyl chloride	17.82	91	81679	2.42	ppb	99
68)	1,4-dichlorobenzene	17.88	146	107512	2.37	ppb	98
69)	1,2-dichlorobenzene	18.15	146	106084	2.15	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	42763	2.13	ppb	99
71)	Naphthalene	19.93	128	58035	2.36	ppb	98
72)	Hexachloro-1,3-butadiene	20.03	225	100096	2.03	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060605.D Vial: 32
Acq On : 6 Jun 2011 3:56 pm Operator: RJP
Sample : AlUG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:24 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060605.D A606_1UG.M Wed Jul 06 17:31:05 2011 MSD1 Page 3

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060606.D Vial: 33
Acq On : 6 Jun 2011 4:30 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:08:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34812	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	91605	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	89633	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	43421	1.19	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 119.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	28249	1.44	ppb		88
3) Freon 12	3.00	85	164251	1.42	ppb		100
4) Chloromethane	3.14	50	39425	1.41	ppb		100
5) Freon 114	3.15	85	115390	1.44	ppb		99
6) Vinyl Chloride	3.29	62	32455	1.40	ppb		98
7) 1,3-butadiene	3.36	39	22596m	1.47	ppb		
8) Bromomethane	3.61	94	42355	1.49	ppb		94
9) Ethanol	3.92	45	11614m	1.62	ppb		
10) Acrolein	4.35	56	8004	1.45	ppb		91
11) Chloroethane	3.73	64	13074	1.51	ppb		96
12) Vinyl Bromide	3.98	106	39982	1.35	ppb		98
13) Freon 11	4.19	101	110576	1.42	ppb		100
14) Acetone	4.45	58	11275	1.33	ppb		94
15) Isopropyl alcohol	4.57	45	34401	1.53	ppb		80
16) 1,1-dichloroethene	4.80	96	34352	1.42	ppb		96
17) Freon 113	4.97	101	78656	1.44	ppb		100
18) Methylene chloride	5.20	84	38169m	1.22	ppb		
19) Allyl chloride	5.19	41	29974	1.11	ppb		95
20) Carbon disulfide	5.32	76	93376	0.91	ppb		95
21) trans-1,2-dichloroethene	6.04	61	59880	1.50	ppb		99
22) methyl tert-butyl ether	6.20	73	80243	1.56	ppb		95
23) 1,1-dichloroethane	6.43	63	86704	1.45	ppb		99
24) Vinyl acetate	6.54	43	52026	1.64	ppb		100
25) Methyl Ethyl Ketone	7.05	72	12527	1.60	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	51428	1.46	ppb		98
27) Hexane	6.94	57	37732	1.63	ppb		94
28) Ethyl acetate	7.61	43	53600	1.55	ppb		98
29) Chloroform	7.89	83	120575	1.39	ppb		100
30) Tetrahydrofuran	8.16	42	22789	1.53	ppb		94
31) 1,2-dichloroethane	8.99	62	68290	1.47	ppb		99
33) 1,1,1-trichloroethane	8.68	97	129537	1.45	ppb		99
34) Cyclohexane	9.37	56	41708	1.58	ppb		98
35) Carbon tetrachloride	9.31	117	151116	1.42	ppb		99
36) Benzene	9.29	78	126925	1.48	ppb		100
37) Methyl methacrylate	11.14	41	24135	2.00	ppb		93
38) 1,4-dioxane	11.44	88	11659	1.59	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	138313	1.61	ppb		99
40) Heptane	10.66	43	45369	1.66	ppb		99
41) Trichloroethene	10.75	130	71747	1.44	ppb		97
42) 1,2-dichloropropane	10.90	63	46893	1.44	ppb		98
43) Bromodichloromethane	11.26	83	119112	1.44	ppb		99
44) cis-1,3-dichloropropene	12.17	75	52145	1.53	ppb		99
45) trans-1,3-dichloropropene	12.97	75	41042	1.56	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060606.D Vial: 33
Acq On : 6 Jun 2011 4:30 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:08:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	63093	1.43	ppb	100
48)	Toluene	13.01	92	72790	1.61	ppb	99
49)	Methyl Isobutyl Ketone	12.23	43	47079	1.59	ppb	99
50)	Dibromochloromethane	13.94	129	123751	1.42	ppb	99
51)	Methyl Butyl Ketone	13.58	43	27921	1.83	ppb	88
52)	1,2-dibromoethane	14.18	107	90314	1.49	ppb	100
53)	Tetrachloroethylene	14.02	164	80359	1.45	ppb	96
54)	Chlorobenzene	14.97	112	111940	1.49	ppb	97
55)	Ethylbenzene	15.23	91	124238	1.72	ppb	100
56)	m&p-xylene	15.42	91	223427	3.42	ppb	99
57)	Styrene	15.82	104	60531	1.76	ppb	98
58)	Bromoform	15.91	173	115301	1.48	ppb	98
59)	o-xylene	15.85	91	129606	1.79	ppb	100
61)	1,1,2,2-tetrachloroethane	16.27	83	101245	1.56	ppb	99
62)	2-Chlorotoluene	16.90	91	125465	1.90	ppb	97
63)	4-ethyltoluene	17.03	105	108709	1.98	ppb	97
64)	1,3,5-trimethylbenzene	17.09	105	126071	1.95	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	81711	1.95	ppb	99
66)	1,3-dichlorobenzene	17.75	146	87745	1.69	ppb	99
67)	benzyl chloride	17.82	91	61490	1.82	ppb	100
68)	1,4-dichlorobenzene	17.88	146	80475	1.77	ppb	97
69)	1,2-dichlorobenzene	18.15	146	82010	1.66	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	35662	1.78	ppb	99
71)	Naphthalene	19.92	128	44530	1.81	ppb	95
72)	Hexachloro-1,3-butadiene	20.03	225	84350	1.71	ppb	98

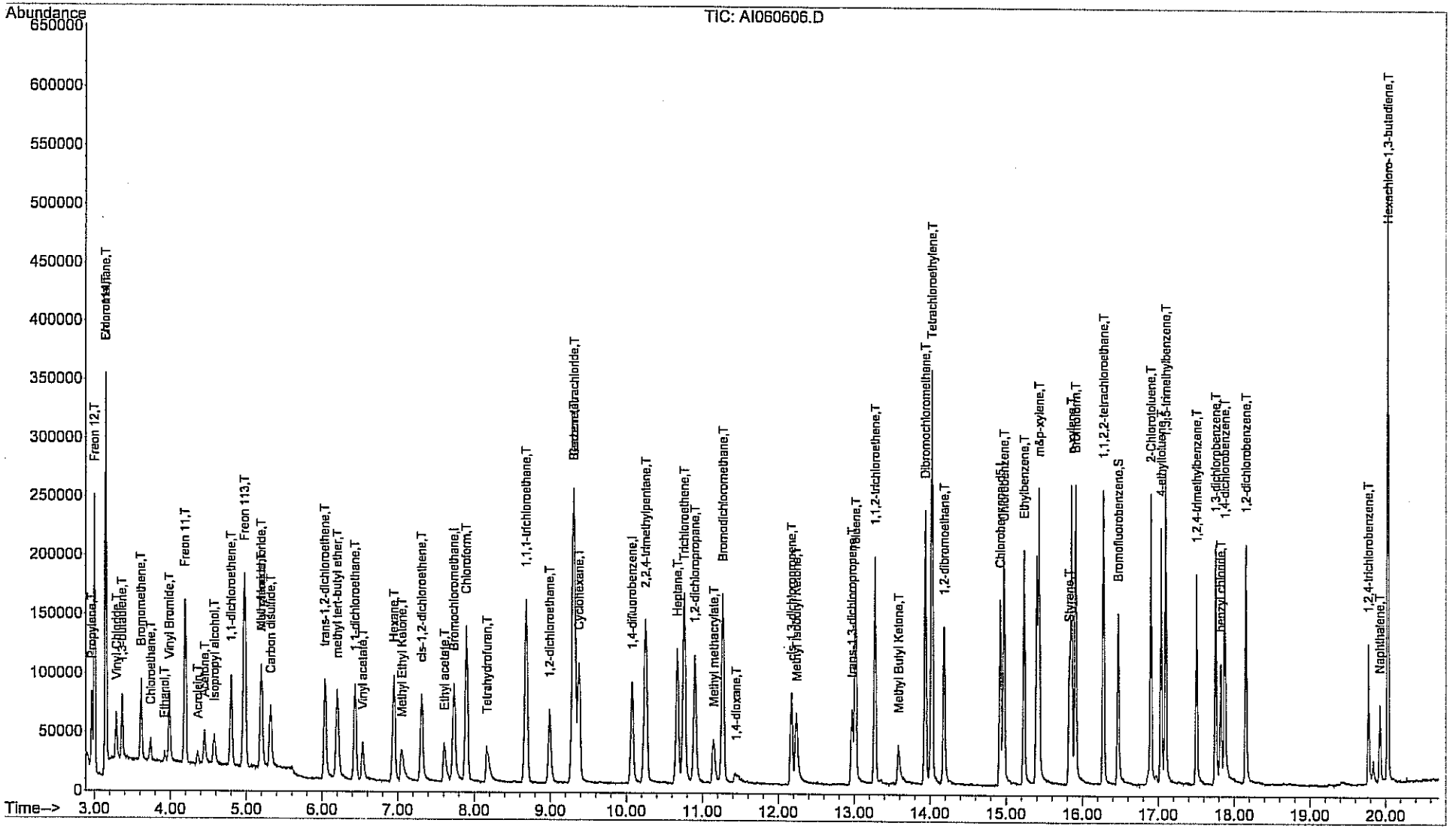
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060606.D
Acq On : 6 Jun 2011 4:30 pm
Sample : A1UG_1.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:25 2011

Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060606.D A606_1UG.M Wed Jul 06 17:31:08 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060608.D Vial: 35
Acq On : 6 Jun 2011 5:41 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:07:54 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34050	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	88312	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	85862	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	35116	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	19150	0.99	ppb		89
3) Freon 12	3.00	85	112570	0.99	ppb		99
4) Chloromethane	3.15	50	27114	0.99	ppb		99
5) Freon 114	3.15	85	78049	0.99	ppb		99
6) Vinyl Chloride	3.29	62	22502	0.99	ppb		99
7) 1,3-butadiene	3.36	39	14958	0.99	ppb		85
8) Bromomethane	3.61	94	27650	0.99	ppb		85
9) Ethanol	3.92	45	7306m	1.04	ppb		
10) Acrolein	4.35	56	5360	0.99	ppb		85
11) Chloroethane	3.74	64	8399	0.99	ppb		71
12) Vinyl Bromide	3.99	106	28872	0.99	ppb		97
13) Freon 11	4.19	101	75786	0.99	ppb		100
14) Acetone	4.44	58	8253	0.99	ppb		93
15) Isopropyl alcohol	4.57	45	21858	0.99	ppb		90
16) 1,1-dichloroethene	4.80	96	23584	0.99	ppb		98
17) Freon 113	4.97	101	53152	0.99	ppb		98
18) Methylene chloride	5.19	84	30322	0.99	ppb		96
19) Allyl chloride	5.19	41	26152	0.99	ppb		91
20) Carbon disulfide	5.32	76	99908	0.99	ppb		94
21) trans-1,2-dichloroethene	6.03	61	38695	0.99	ppb		98
22) methyl tert-butyl ether	6.20	73	49922	0.99	ppb		92
23) 1,1-dichloroethane	6.43	63	57969	0.99	ppb		100
24) Vinyl acetate	6.54	43	30946	0.99	ppb		98
25) Methyl Ethyl Ketone	7.06	72	7649	1.00	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	34256	0.99	ppb		96
27) Hexane	6.95	57	22473	0.99	ppb		97
28) Ethyl acetate	7.61	43	33661	0.99	ppb		98
29) Chloroform	7.90	83	84134	0.99	ppb		99
30) Tetrahydrofuran	8.17	42	13667	0.94	ppb		97
31) 1,2-dichloroethane	8.99	62	45134	0.99	ppb		100
33) 1,1,1-trichloroethane	8.68	97	86223	1.00	ppb		100
34) Cyclohexane	9.37	56	25494	1.00	ppb		99
35) Carbon tetrachloride	9.31	117	102517	1.00	ppb		100
36) Benzene	9.30	78	83003	1.00	ppb		98
37) Methyl methacrylate	11.15	41	11641	1.00	ppb	#	86
38) 1,4-dioxane	11.43	88	7330m	1.04	ppb		
39) 2,2,4-trimethylpentane	10.25	57	82751	1.00	ppb		99
40) Heptane	10.67	43	26290	1.00	ppb		98
41) Trichloroethene	10.76	130	48004	1.00	ppb		98
42) 1,2-dichloropropane	10.90	63	31325	1.00	ppb		99
43) Bromodichloromethane	11.27	83	79482	1.00	ppb		98
44) cis-1,3-dichloropropene	12.17	75	32851	1.00	ppb		100
45) trans-1,3-dichloropropene	12.97	75	25206	1.00	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060608.D Vial: 35
Acq On : 6 Jun 2011 5:41 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:07:54 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	42489	1.00	ppb	100
48)	Toluene	13.02	92	43256	1.00	ppb	96
49)	Methyl Isobutyl Ketone	12.23	43	28447	1.00	ppb	96
50)	Dibromochloromethane	13.94	129	83514	1.00	ppb	100
51)	Methyl Butyl Ketone	13.58	43	14606	1.00	ppb	89
52)	1,2-dibromoethane	14.18	107	57888	1.00	ppb	99
53)	Tetrachloroethylene	14.03	164	53053	1.00	ppb	95
54)	Chlorobenzene	14.97	112	71980	1.00	ppb	99
55)	Ethylbenzene	15.23	91	69132	1.00	ppb	98
56)	m&p-xylene	15.43	91	125124	2.00	ppb	100
57)	Styrene	15.83	104	32916	1.00	ppb	100
58)	Bromoform	15.91	173	74600	1.00	ppb	99
59)	o-xylene	15.85	91	69526	1.00	ppb	99
61)	1,1,2,2-tetrachloroethane	16.27	83	62260	1.00	ppb	99
62)	2-Chlorotoluene	16.90	91	63238	1.00	ppb	99
63)	4-ethyltoluene	17.03	105	52541	1.00	ppb	100
64)	1,3,5-trimethylbenzene	17.09	105	61786	1.00	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	40216	1.00	ppb	95
66)	1,3-dichlorobenzene	17.75	146	49649	1.00	ppb	99
67)	benzyl chloride	17.82	91	32306	1.00	ppb	98
68)	1,4-dichlorobenzene	17.87	146	43432	1.00	ppb	98
69)	1,2-dichlorobenzene	18.15	146	47104	1.00	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	19194	1.00	ppb	97
71)	Naphthalene	19.92	128	23556	1.00	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	47170	1.00	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

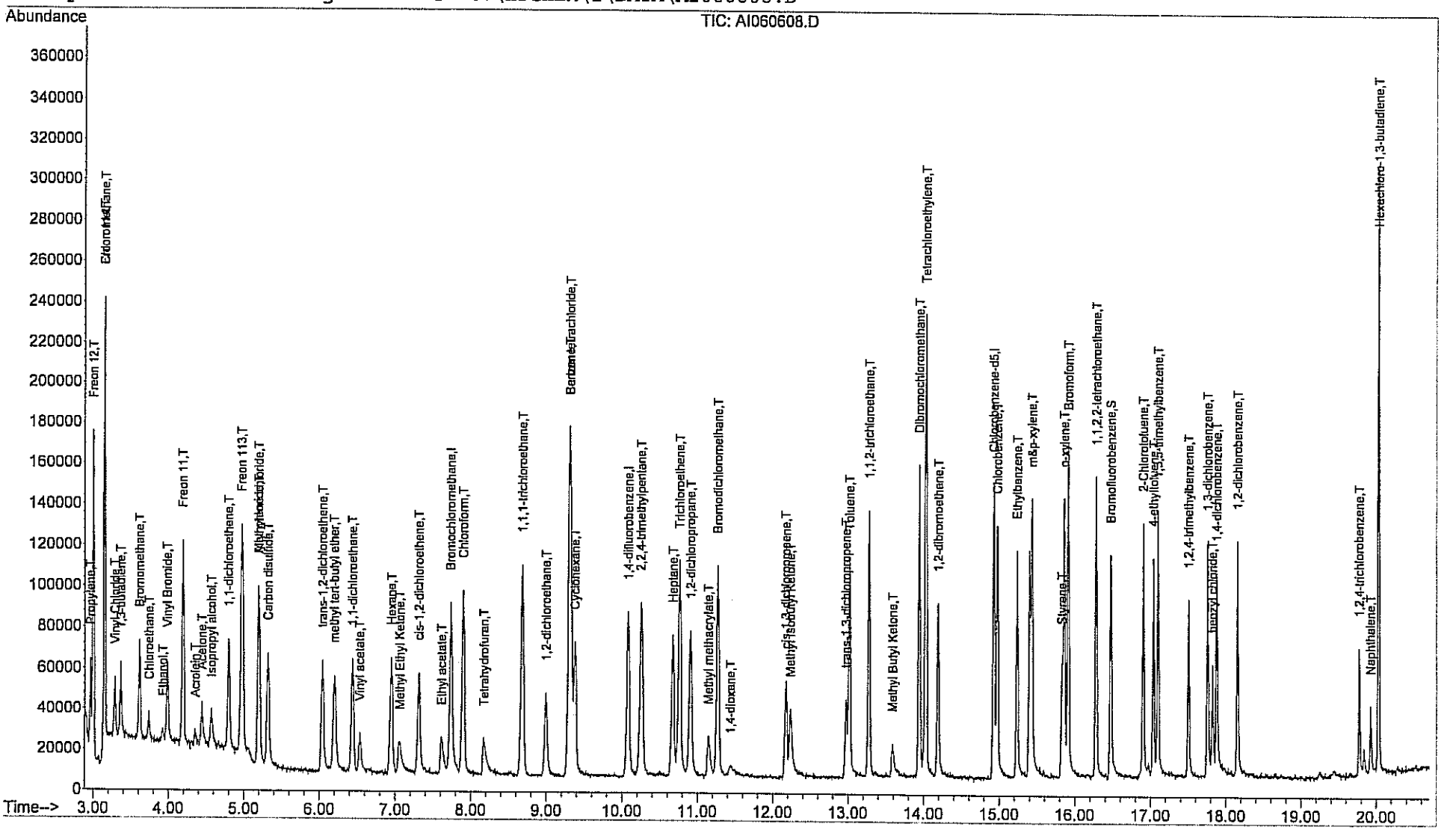
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060608.D
Acq On : 6 Jun 2011 5:41 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:26 2011

Vial: 35
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060608.D A606_1UG.M Wed Jul 06 17:31:11 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060609.D Vial: 36
Acq On : 6 Jun 2011 6:17 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:10:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	33400	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	86029	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	84893	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	37206	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	14344	0.76	ppb		95
3) Freon 12	3.00	85	84435	0.76	ppb		99
4) Chloromethane	3.15	50	19548	0.73	ppb		95
5) Freon 114	3.15	85	60258	0.78	ppb		100
6) Vinyl Chloride	3.28	62	16988	0.77	ppb		96
7) 1,3-butadiene	3.36	39	10936	0.74	ppb		96
8) Bromomethane	3.61	94	20681	0.76	ppb		86
9) Ethanol	3.92	45	4908m	0.71	ppb		
10) Acrolein	4.35	56	3903	0.74	ppb		79
11) Chloroethane	3.74	64	6978	0.84	ppb		95
12) Vinyl Bromide	3.99	106	20773	0.73	ppb		98
13) Freon 11	4.19	101	56754	0.76	ppb		99
14) Acetone	4.45	58	5720	0.70	ppb	#	83
15) Isopropyl alcohol	4.57	45	16250	0.75	ppb		75
16) 1,1-dichloroethene	4.80	96	17925	0.77	ppb		98
17) Freon 113	4.97	101	41172	0.79	ppb		98
18) Methylene chloride	5.20	84	17537m	0.58	ppb		
19) Allyl chloride	5.19	41	16504	0.64	ppb		94
20) Carbon disulfide	5.32	76	58811m	0.60	ppb		
21) trans-1,2-dichloroethene	6.04	61	29766	0.78	ppb		98
22) methyl tert-butyl ether	6.21	73	36566	0.74	ppb		94
23) 1,1-dichloroethane	6.44	63	42464	0.74	ppb		98
24) Vinyl acetate	6.53	43	23101	0.76	ppb		99
25) Methyl Ethyl Ketone	7.05	72	5287	0.71	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	25451	0.75	ppb		98
27) Hexane	6.94	57	17166	0.77	ppb		96
28) Ethyl acetate	7.62	43	25551m	0.77	ppb		
29) Chloroform	7.90	83	61242	0.74	ppb		99
30) Tetrahydrofuran	8.18	42	9797	0.68	ppb		99
31) 1,2-dichloroethane	9.00	62	35022	0.78	ppb		97
33) 1,1,1-trichloroethane	8.68	97	66809	0.80	ppb		98
34) Cyclohexane	9.37	56	18519	0.75	ppb		96
35) Carbon tetrachloride	9.31	117	77517	0.78	ppb		98
36) Benzene	9.29	78	62452	0.77	ppb		96
37) Methyl methacrylate	11.15	41	9867	0.87	ppb		96
38) 1,4-dioxane	11.45	88	4867m	0.71	ppb		
39) 2,2,4-trimethylpentane	10.25	57	62298	0.77	ppb		98
40) Heptane	10.67	43	19509	0.76	ppb		99
41) Trichloroethene	10.76	130	34775	0.74	ppb		98
42) 1,2-dichloropropane	10.90	63	23194	0.76	ppb		98
43) Bromodichloromethane	11.27	83	59439	0.77	ppb		97
44) cis-1,3-dichloropropene	12.18	75	23647	0.74	ppb		99
45) trans-1,3-dichloropropene	12.97	75	19373	0.79	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060609.D Vial: 36
Acq On : 6 Jun 2011 6:17 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:10:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

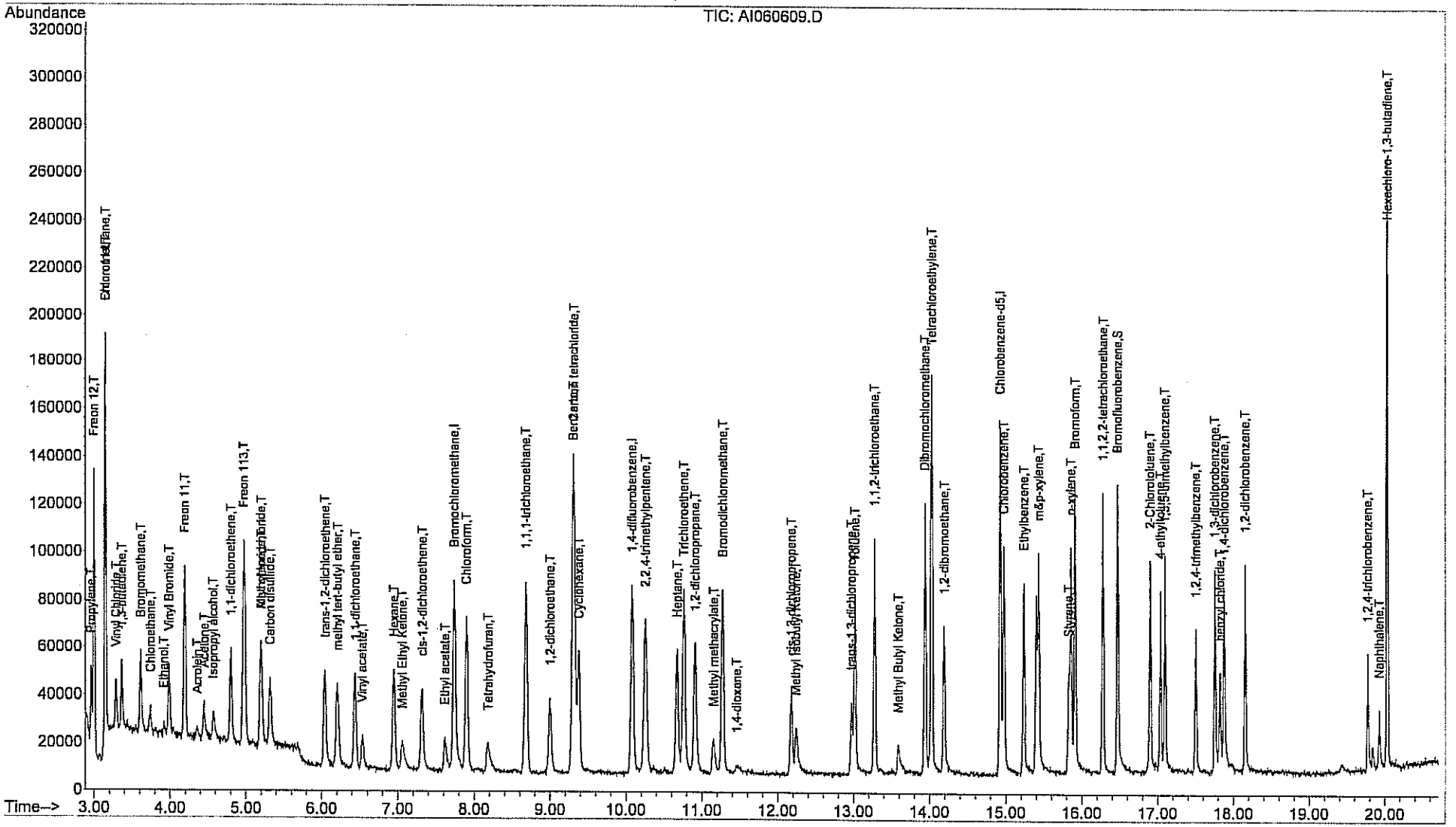
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	31417	0.76	ppb	98
48)	Toluene	13.02	92	30551	0.71	ppb	97
49)	Methyl Isobutyl Ketone	12.24	43	18062m	0.64	ppb	
50)	Dibromochloromethane	13.94	129	61565	0.75	ppb	100
51)	Methyl Butyl Ketone	13.59	43	11048	0.76	ppb	91
52)	1,2-dibromoethane	14.18	107	43001	0.75	ppb	97
53)	Tetrachloroethylene	14.02	164	38043	0.73	ppb	95
54)	Chlorobenzene	14.97	112	52119	0.73	ppb	96
55)	Ethylbenzene	15.23	91	50216	0.73	ppb	99
56)	m&p-xylene	15.43	91	83725	1.35	ppb	99
57)	Styrene	15.83	104	24079	0.74	ppb	99
58)	Bromoform	15.91	173	54908	0.74	ppb	98
59)	o-xylene	15.85	91	45760	0.67	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	47884	0.78	ppb	99
62)	2-Chlorotoluene	16.90	91	47893	0.77	ppb	94
63)	4-ethyltoluene	17.03	105	36761	0.71	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	41373	0.68	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	29869	0.75	ppb	98
66)	1,3-dichlorobenzene	17.75	146	36942	0.75	ppb	98
67)	benzyl chloride	17.82	91	24995	0.78	ppb	96
68)	1,4-dichlorobenzene	17.88	146	33649	0.78	ppb	98
69)	1,2-dichlorobenzene	18.15	146	35372	0.76	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	15438	0.81	ppb	99
71)	Naphthalene	19.93	128	17530	0.75	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	39924	0.86	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060609.D
Acq On : 6 Jun 2011 6:17 pm
Sample : A1UG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:28 2011

Vial: 36
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060610.D Vial: 37
Acq On : 6 Jun 2011 6:52 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:11:05 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	33292	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	82848	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	83580	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	34695	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	9405	0.50	ppb		99
3) Freon 12	3.00	85	56819	0.51	ppb		99
4) Chloromethane	3.15	50	14104	0.53	ppb		96
5) Freon 114	3.15	85	39251	0.51	ppb		100
6) Vinyl Chloride	3.29	62	10997	0.50	ppb		92
7) 1,3-butadiene	3.36	39	7932	0.54	ppb		88
8) Bromomethane	3.61	94	13957	0.51	ppb		88
9) Ethanol	3.92	45	4637	0.67	ppb		81
10) Acrolein	4.36	56	2518	0.48	ppb		79
11) Chloroethane	3.74	64	4715	0.57	ppb		90
12) Vinyl Bromide	3.99	106	13282	0.47	ppb		99
13) Freon 11	4.19	101	38876	0.52	ppb		99
14) Acetone	4.44	58	3978	0.49	ppb		90
15) Isopropyl alcohol	4.57	45	11017	0.51	ppb		83
16) 1,1-dichloroethene	4.79	96	12186	0.53	ppb		96
17) Freon 113	4.97	101	26942	0.52	ppb		98
18) Methylene chloride	5.20	84	10577m	0.35	ppb		
19) Allyl chloride	5.19	41	10549	0.41	ppb		95
20) Carbon disulfide	5.31	76	41771m	0.42	ppb		
21) trans-1,2-dichloroethene	6.04	61	19639	0.51	ppb		98
22) methyl tert-butyl ether	6.20	73	22742	0.46	ppb		85
23) 1,1-dichloroethane	6.43	63	29074	0.51	ppb		99
24) Vinyl acetate	6.53	43	14715	0.48	ppb		99
25) Methyl Ethyl Ketone	7.05	72	3420	0.46	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	16490	0.49	ppb		91
27) Hexane	6.95	57	10791	0.49	ppb		97
28) Ethyl acetate	7.61	43	16139	0.49	ppb		99
29) Chloroform	7.90	83	40626	0.49	ppb		99
30) Tetrahydrofuran	8.17	42	6237	0.44	ppb		98
31) 1,2-dichloroethane	9.00	62	22338	0.50	ppb		98
33) 1,1,1-trichloroethane	8.68	97	43703	0.54	ppb		99
34) Cyclohexane	9.38	56	10806	0.45	ppb	#	69
35) Carbon tetrachloride	9.31	117	50221	0.52	ppb		99
36) Benzene	9.30	78	38740	0.50	ppb		95
37) Methyl methacrylate	11.15	41	6342	0.58	ppb		97
38) 1,4-dioxane	11.45	88	2390	0.36	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	37759	0.49	ppb		94
40) Heptane	10.67	43	11609	0.47	ppb		95
41) Trichloroethene	10.76	130	21416	0.48	ppb		96
42) 1,2-dichloropropane	10.91	63	14876	0.51	ppb		97
43) Bromodichloromethane	11.27	83	38464	0.52	ppb		100
44) cis-1,3-dichloropropene	12.17	75	15157	0.49	ppb		99
45) trans-1,3-dichloropropene	12.97	75	11835	0.50	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060610.D Vial: 37
Acq On : 6 Jun 2011 6:52 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:11:05 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	19417	0.49	ppb	100
48)	Toluene	13.01	92	17789	0.42	ppb	96
49)	Methyl Isobutyl Ketone	12.24	43	11003m	0.40	ppb	
50)	Dibromochloromethane	13.94	129	38983	0.48	ppb	99
51)	Methyl Butyl Ketone	13.59	43	7912m	0.56	ppb	
52)	1,2-dibromoethane	14.18	107	26855	0.48	ppb	97
53)	Tetrachloroethylene	14.02	164	24210	0.47	ppb	99
54)	Chlorobenzene	14.97	112	34070	0.49	ppb	99
55)	Ethylbenzene	15.23	91	30215	0.45	ppb	100
56)	m&p-xylene	15.43	91	48283	0.79	ppb	98
57)	Styrene	15.82	104	14682	0.46	ppb	99
58)	Bromoform	15.91	173	34699	0.48	ppb	99
59)	o-xylene	15.85	91	34938m	0.52	ppb	
61)	1,1,2,2-tetrachloroethane	16.27	83	32732	0.54	ppb	96
62)	2-Chlorotoluene	16.90	91	29738	0.48	ppb	95
63)	4-ethyltoluene	17.03	105	21366	0.42	ppb	99
64)	1,3,5-trimethylbenzene	17.09	105	23046	0.38	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	17514	0.45	ppb	99
66)	1,3-dichlorobenzene	17.76	146	21261	0.44	ppb	98
67)	benzyl chloride	17.82	91	15076	0.48	ppb	95
68)	1,4-dichlorobenzene	17.87	146	18236	0.43	ppb	98
69)	1,2-dichlorobenzene	18.15	146	20101	0.44	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	8992	0.48	ppb	97
71)	Naphthalene	19.92	128	9327	0.41	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	23570	0.51	ppb	98

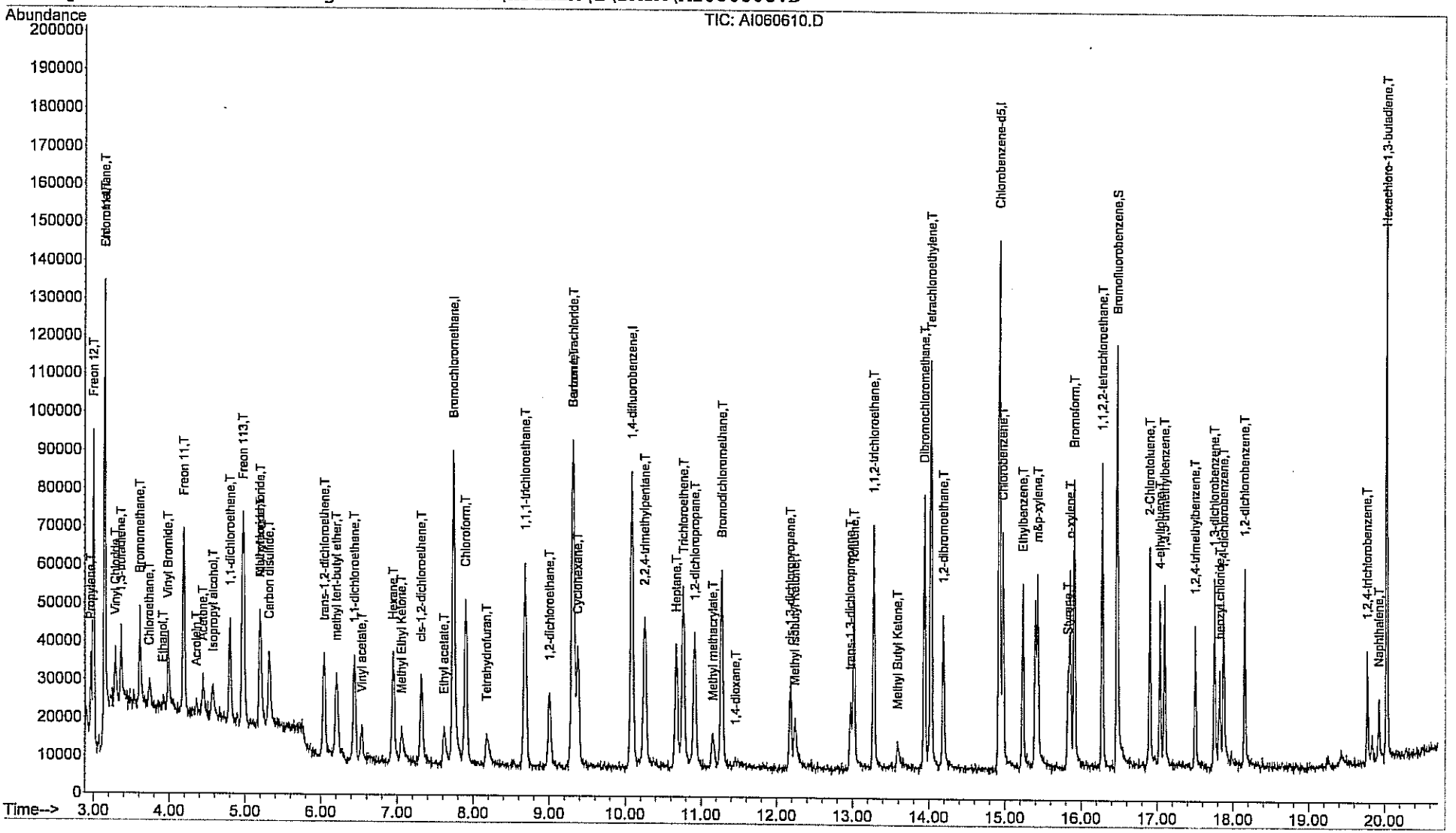
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060610.D
Acq On : 6 Jun 2011 6:52 pm
Sample : AlUG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:30 2011

Vial: 37
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060610.D A606_1UG.M Wed Jul 06 17:31:17 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060611.D Vial: 38
Acq On : 6 Jun 2011 7:27 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:27:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	33776	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	86209	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	82640	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	34216	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	6651	0.35	ppb		96
3) Freon 12	3.00	85	38072	0.34	ppb		100
4) Chloromethane	3.15	50	9088	0.34	ppb		82
5) Freon 114	3.15	85	25460	0.33	ppb		98
6) Vinyl Chloride	3.28	62	7612	0.34	ppb		91
7) 1,3-butadiene	3.36	39	4402	0.30	ppb		93
8) Bromomethane	3.61	94	8963	0.33	ppb		81
9) Ethanol	3.93	45	2335m	0.33	ppb		
10) Acrolein	4.36	56	1397	0.26	ppb		78
11) Chloroethane	3.74	64	3100	0.37	ppb		92
12) Vinyl Bromide	3.99	106	9075	0.32	ppb		94
13) Freon 11	4.19	101	25428	0.34	ppb		96
14) Acetone	4.45	58	2981	0.36	ppb	#	55
15) Isopropyl alcohol	4.57	45	7124	0.33	ppb		69
16) 1,1-dichloroethene	4.80	96	7556	0.32	ppb		98
17) Freon 113	4.98	101	17406	0.33	ppb		98
18) Methylene chloride	5.20	84	8228m	0.27	ppb		
19) Allyl chloride	5.20	41	7827m	0.30	ppb		
20) Carbon disulfide	5.32	76	25211	0.25	ppb		89
21) trans-1,2-dichloroethene	6.04	61	12657	0.33	ppb		97
22) methyl tert-butyl ether	6.21	73	14403	0.29	ppb		87
23) 1,1-dichloroethane	6.44	63	18635	0.32	ppb		98
24) Vinyl acetate	6.53	43	8701	0.28	ppb		84
25) Methyl Ethyl Ketone	7.06	72	2238	0.30	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	10610	0.31	ppb		96
27) Hexane	6.94	57	6637	0.30	ppb		93
28) Ethyl acetate	7.63	43	9537	0.28	ppb		95
29) Chloroform	7.90	83	25943	0.31	ppb		98
30) Tetrahydrofuran	8.20	42	4293m	0.30	ppb		
31) 1,2-dichloroethane	9.00	62	14300	0.32	ppb		98
33) 1,1,1-trichloroethane	8.68	97	28370	0.34	ppb		100
34) Cyclohexane	9.37	56	6832	0.27	ppb		87
35) Carbon tetrachloride	9.31	117	32382	0.32	ppb		100
36) Benzene	9.30	78	25651	0.32	ppb		94
37) Methyl methacrylate	11.15	41	3932	0.35	ppb		96
38) 1,4-dioxane	11.46	88	1998m	0.29	ppb		
39) 2,2,4-trimethylpentane	10.25	57	23750	0.29	ppb		93
40) Heptane	10.67	43	7717	0.30	ppb		93
41) Trichloroethene	10.76	130	13344	0.28	ppb		94
42) 1,2-dichloropropane	10.92	63	9126	0.30	ppb		98
43) Bromodichloromethane	11.27	83	24549	0.32	ppb		98
44) cis-1,3-dichloropropene	12.18	75	9466	0.30	ppb		98
45) trans-1,3-dichloropropene	12.97	75	7442	0.30	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060611.D Vial: 38
Acq On : 6 Jun 2011 7:27 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:27:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	12162	0.29	ppb	95
48)	Toluene	13.01	92	10533	0.25	ppb	94
49)	Methyl Isobutyl Ketone	12.24	43	7047m	0.26	ppb	
50)	Dibromochloromethane	13.94	129	25073	0.31	ppb	100
51)	Methyl Butyl Ketone	13.60	43	5663m	0.40	ppb	
52)	1,2-dibromoethane	14.19	107	17164	0.31	ppb	97
53)	Tetrachloroethylene	14.02	164	15494	0.30	ppb	99
54)	Chlorobenzene	14.97	112	20592	0.30	ppb	96
55)	Ethylbenzene	15.23	91	18450	0.28	ppb	99
56)	m&p-xylene	15.42	91	27121	0.45	ppb	98
57)	Styrene	15.83	104	8953	0.28	ppb	92
58)	Bromoform	15.91	173	21052	0.29	ppb	99
59)	o-xylene	15.85	91	15078	0.23	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	19745	0.33	ppb	94
62)	2-Chlorotoluene	16.90	91	17359	0.29	ppb	98
63)	4-ethyltoluene	17.03	105	12379	0.24	ppb	98
64)	1,3,5-trimethylbenzene	17.09	105	14346m	0.24	ppb	
65)	1,2,4-trimethylbenzene	17.49	105	10017	0.26	ppb	91
66)	1,3-dichlorobenzene	17.75	146	12821	0.27	ppb	99
67)	benzyl chloride	17.82	91	8250	0.26	ppb	97
68)	1,4-dichlorobenzene	17.87	146	11396	0.27	ppb	98
69)	1,2-dichlorobenzene	18.15	146	12802	0.28	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	5372	0.29	ppb	91
71)	Naphthalene	19.92	128	6686	0.29	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	14855	0.33	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

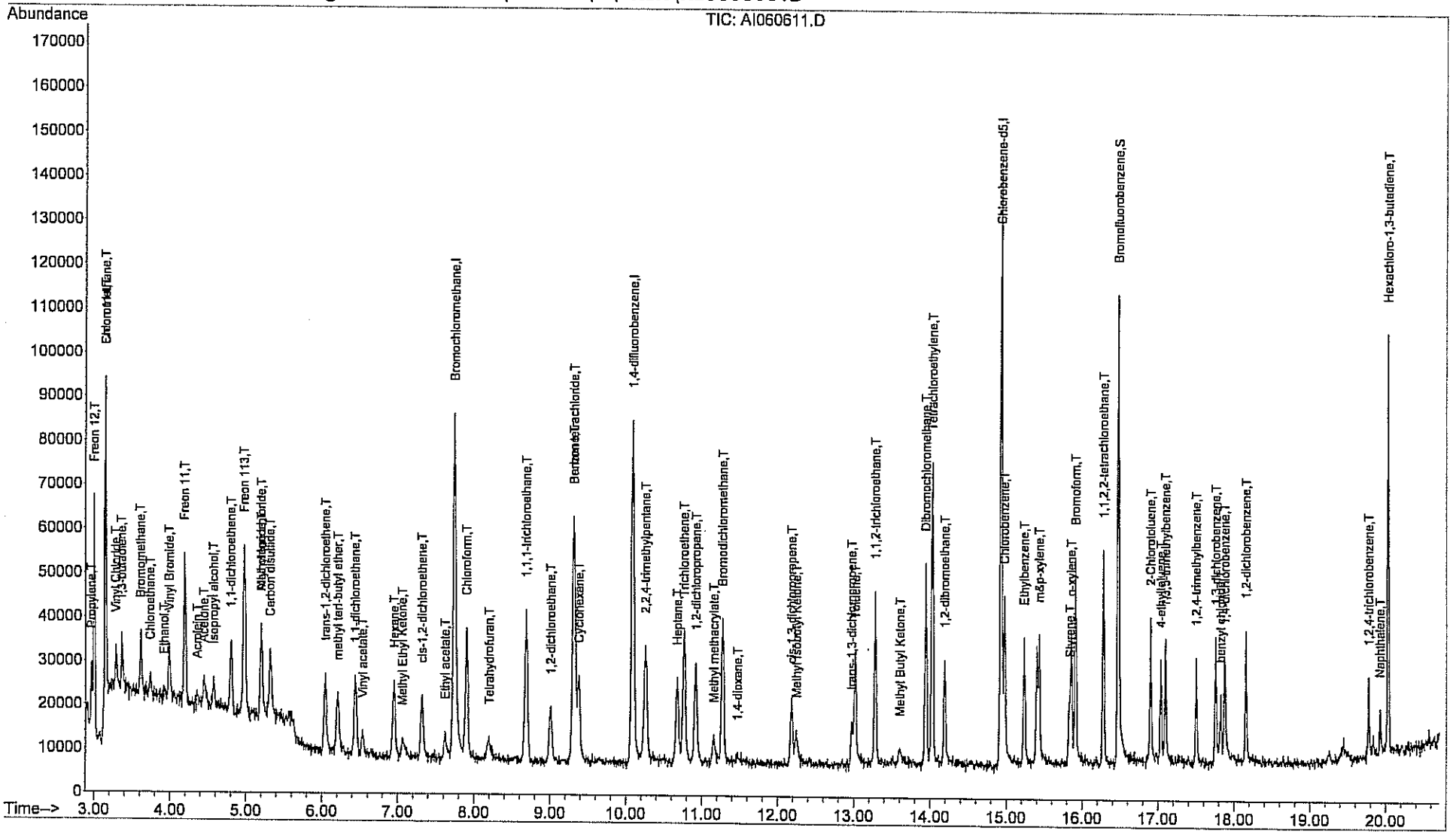
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060611.D
Acq On : 6 Jun 2011 7:27 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:32 2011

Vial: 38
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060611.D A606_1UG.M Wed Jul 06 17:31:20 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060612.D Vial: 39
Acq On : 6 Jun 2011 8:02 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:28:22 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	32861	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	80755	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	76870	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	31467	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	3635	0.20	ppb		99
3) Freon 12	3.00	85	19147	0.18	ppb		96
4) Chloromethane	3.15	50	5068	0.19	ppb		63
5) Freon 114	3.15	85	13753	0.18	ppb		99
6) Vinyl Chloride	3.29	62	3858	0.18	ppb		90
7) 1,3-butadiene	3.36	39	3836	0.26	ppb		76
8) Bromomethane	3.62	94	5252	0.20	ppb		83
9) Ethanol	3.81	45	989m	0.15	ppb		
10) Acrolein	4.36	56	925	0.18	ppb		89
11) Chloroethane	3.74	64	1714	0.21	ppb		72
12) Vinyl Bromide	3.99	106	4777	0.17	ppb		100
13) Freon 11	4.19	101	13754	0.19	ppb		99
14) Acetone	4.45	58	1958	0.24	ppb	#	79
15) Isopropyl alcohol	4.57	45	4319m	0.20	ppb		
16) 1,1-dichloroethene	4.81	96	4684	0.20	ppb		89
17) Freon 113	4.98	101	9692	0.19	ppb		96
18) Methylene chloride	5.20	84	3339	0.11	ppb		91
19) Allyl chloride	5.19	41	4079	0.16	ppb		86
20) Carbon disulfide	5.32	76	14349	0.15	ppb		93
21) trans-1,2-dichloroethene	6.04	61	6594	0.17	ppb		96
22) methyl tert-butyl ether	6.20	73	7501	0.15	ppb	#	48
23) 1,1-dichloroethane	6.44	63	9762	0.17	ppb		94
24) Vinyl acetate	6.53	43	4786	0.16	ppb		90
25) Methyl Ethyl Ketone	7.08	72	1265	0.17	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	5068	0.15	ppb		89
27) Hexane	6.94	57	3488	0.16	ppb		96
28) Ethyl acetate	7.62	43	5297	0.16	ppb		89
29) Chloroform	7.90	83	13621	0.17	ppb		96
30) Tetrahydrofuran	8.19	42	2077	0.15	ppb		91
31) 1,2-dichloroethane	9.01	62	8021	0.18	ppb		96
33) 1,1,1-trichloroethane	8.68	97	15454	0.20	ppb		99
34) Cyclohexane	9.37	56	3733	0.16	ppb	#	63
35) Carbon tetrachloride	9.31	117	17572	0.19	ppb		98
36) Benzene	9.31	78	12838	0.17	ppb		97
37) Methyl methacrylate	11.15	41	2184	0.21	ppb		99
39) 2,2,4-trimethylpentane	10.25	57	12174	0.16	ppb		92
40) Heptane	10.67	43	3710	0.15	ppb		95
41) Trichloroethene	10.77	130	7057	0.16	ppb		95
42) 1,2-dichloropropane	10.92	63	4783	0.17	ppb		96
43) Bromodichloromethane	11.27	83	13053	0.18	ppb		100
44) cis-1,3-dichloropropene	12.18	75	4772	0.16	ppb		97
45) trans-1,3-dichloropropene	12.97	75	3934	0.17	ppb		94
46) 1,1,2-trichloroethane	13.27	97	6334	0.16	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060612.D Vial: 39
Acq On : 6 Jun 2011 8:02 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:28:22 2011 Quant Results File: A606_1UG.RES

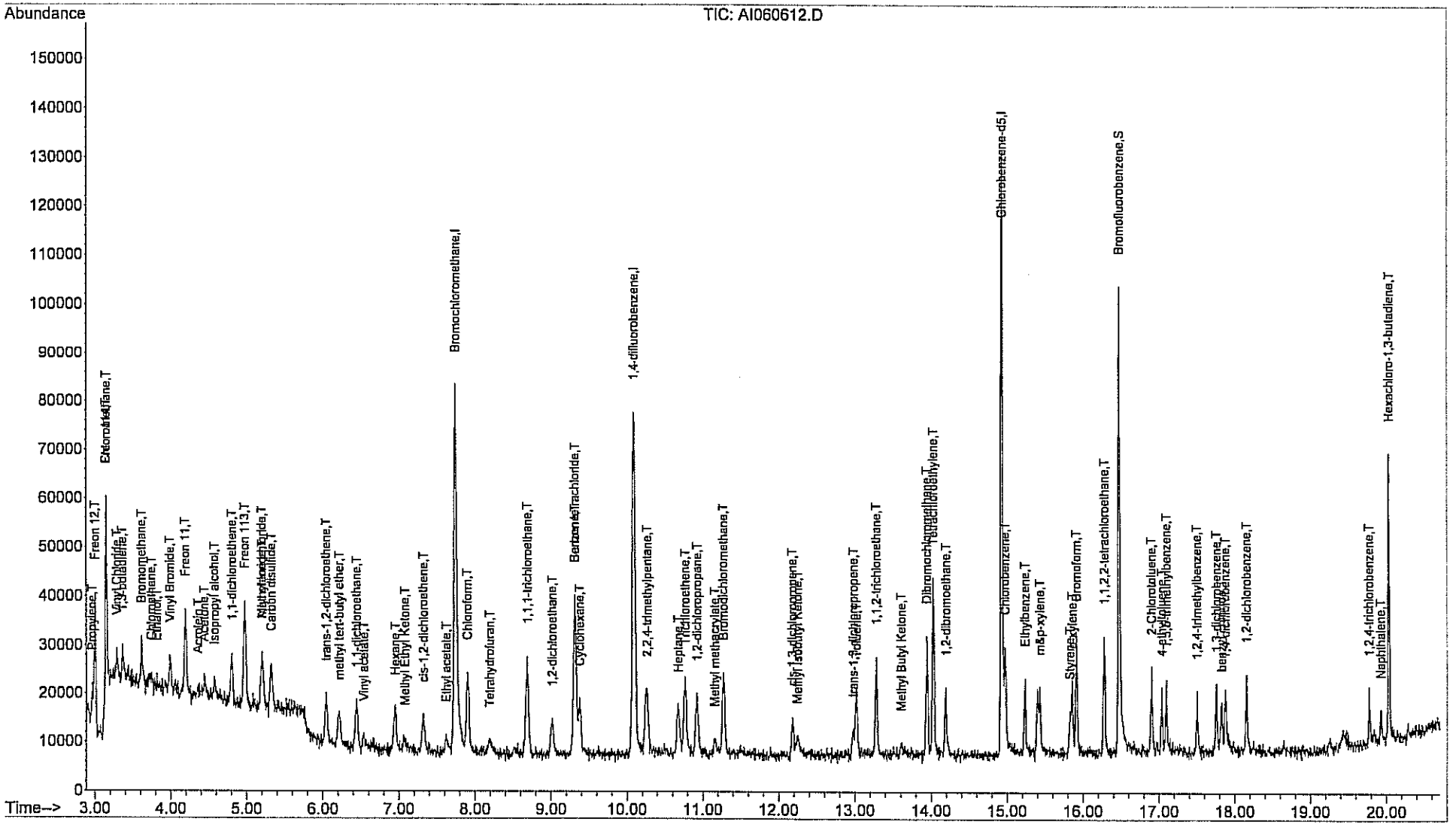
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48) Toluene	13.01	92	5629	0.15	ppb	95
49) Methyl Isobutyl Ketone	12.25	43	4251m	0.17	ppb	
50) Dibromochloromethane	13.94	129	13034	0.17	ppb	100
51) Methyl Butyl Ketone	13.61	43	2011m	0.15	ppb	
52) 1,2-dibromoethane	14.18	107	8470	0.16	ppb	96
53) Tetrachloroethylene	14.03	164	8306	0.17	ppb	91
54) Chlorobenzene	14.97	112	10159	0.16	ppb	93
55) Ethylbenzene	15.23	91	8716	0.14	ppb	99
56) m&p-xylene	15.43	91	14110	0.25	ppb	97
57) Styrene	15.83	104	4455	0.15	ppb	98
58) Bromoform	15.91	173	10462	0.16	ppb	99
59) o-xylene	15.85	91	9363m	0.15	ppb	
61) 1,1,2,2-tetrachloroethane	16.27	83	10020	0.18	ppb	100
62) 2-Chlorotoluene	16.90	91	8675	0.15	ppb	100
63) 4-ethyltoluene	17.03	105	6115	0.13	ppb	94
64) 1,3,5-trimethylbenzene	17.09	105	7602m	0.14	ppb	
65) 1,2,4-trimethylbenzene	17.50	105	5039	0.14	ppb	98
66) 1,3-dichlorobenzene	17.76	146	7138	0.16	ppb	94
67) benzyl chloride	17.82	91	4803	0.17	ppb	85
68) 1,4-dichlorobenzene	17.87	146	5880	0.15	ppb	94
69) 1,2-dichlorobenzene	18.15	146	6478	0.15	ppb	98
70) 1,2,4-trichlorobenzene	19.77	180	3151	0.18	ppb	93
71) Naphthalene	19.93	128	4547	0.22	ppb	97
72) Hexachloro-1,3-butadiene	20.03	225	9092	0.22	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060612.D Vial: 39
Acq On : 6 Jun 2011 8:02 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:49 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060615.D Vial: 42
Acq On : 6 Jun 2011 9:47 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 22:07:59 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

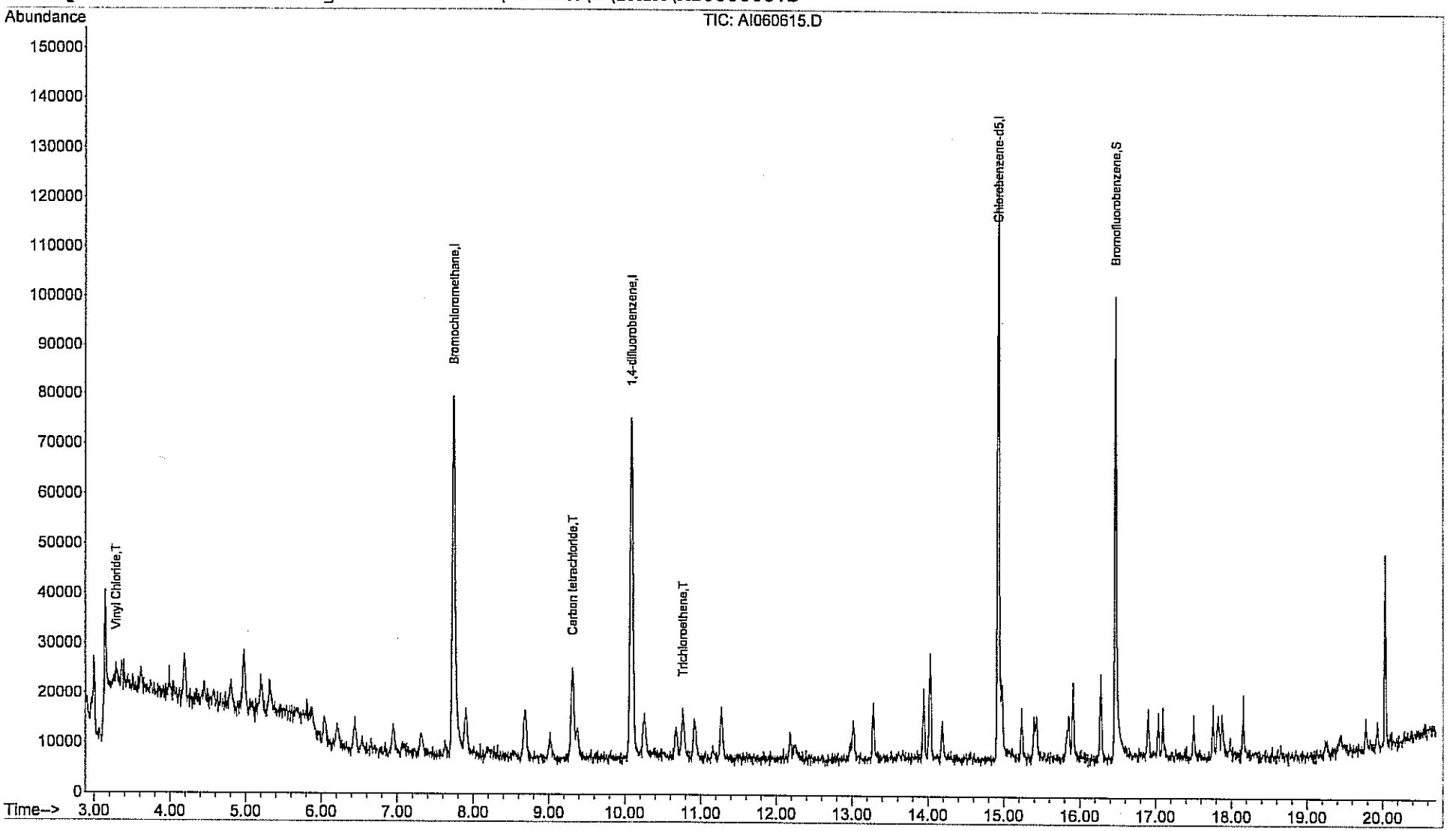
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	32358	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	78830	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	74469	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30316	1.00	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.29	62	2073	0.10	ppb	88
35) Carbon tetrachloride	9.31	117	9867	0.11	ppb	95
41) Trichloroethene	10.76	130	3900	0.09	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060615.D
Acq On : 6 Jun 2011 9:47 pm
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:35 2011

Vial: 42
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060615.D A606_1UG.M Wed Jul 06 17:31:26 2011 MSD1

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	107	0.00
2	T	Propylene	0.592	0.611	-3.2	117	0.00
3	T	Freon 12	3.420	3.438	-0.5	112	0.00
4	T	Chloromethane	0.831	0.810	2.5	109	0.00
5	T	Freon 114	2.391	2.440	-2.0	114	0.00
6	T	Vinyl Chloride	0.727	0.692	4.8	112	0.00
7	T	1,3-butadiene	0.488	0.423	13.3	103	0.00
8	T	Bromomethane	0.860	0.853	0.8	113	0.00
9	T	Ethanol	0.223	0.243	-9.0	122	0.00
10	T	Acrolein	0.155	0.176	-13.5	120	0.00
11	T	Chloroethane	0.279	0.289	-3.6	126	0.00
12	T	Vinyl Bromide	0.842	0.858	-1.9	109	0.00
13	T	Freon 11	2.338	2.299	1.7	111	0.00
14	T	Acetone	0.240	0.237	1.3	105	0.00
15	T	Isopropyl alcohol	0.679	0.770	-13.4	129	0.00
16	T	1,1-dichloroethene	0.733	0.718	2.0	111	0.00
17	T	Freon 113	1.641	1.628	0.8	112	0.00
18	T	Methylene chloride	0.755	0.598	20.8	72	0.00
19	T	Allyl chloride	0.711	0.606	14.8	85	0.00
20	T	Carbon disulfide	2.520	2.061	18.2	75	0.00
21	T	trans-1,2-dichloroethene	1.190	0.946	20.5	89	0.00
22	T	methyl tert-butyl ether	1.475	1.732	-17.4	127	0.00
23	T	1,1-dichloroethane	1.751	1.746	0.3	110	0.00
24	T	Vinyl acetate	0.931	1.006	-8.1	119	0.00
25	T	Methyl Ethyl Ketone	0.227	0.250	-10.1	119	0.00
26	T	cis-1,2-dichloroethene	1.009	1.094	-8.4	117	0.00
27	T	Hexane	0.687	0.767	-11.6	125	0.00
28	T	Ethyl acetate	1.004	1.063	-5.9	116	0.00
29	T	Chloroform	2.473	2.493	-0.8	108	0.00
30	T	Tetrahydrofuran	0.414	0.446	-7.7	119	0.00
31	T	1,2-dichloroethane	1.390	1.416	-1.9	115	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	114	0.00
33	T	1,1,1-trichloroethane	1.049	0.976	7.0	114	0.00
34	T	Cyclohexane	0.292	0.306	-4.8	121	0.00
35	T	Carbon tetrachloride	1.324	1.117	15.6	109	0.00
36	T	Benzene	0.965	0.970	-0.5	117	0.00
37	T	Methyl methacrylate	0.156	0.164	-5.1	141	0.00
38	T	1,4-dioxane	0.076	0.071	6.6	97	0.00
39	T	2,2,4-trimethylpentane	0.967	0.996	-3.0	121	0.00
40	T	Heptane	0.310	0.319	-2.9	122	0.00
41	T	Trichloroethene	0.580	0.527	9.1	110	0.00
42	T	1,2-dichloropropane	0.361	0.350	3.0	112	0.00
43	T	Bromodichloromethane	0.934	0.886	5.1	112	0.00
44	T	cis-1,3-dichloropropene	0.377	0.379	-0.5	116	0.00
45	T	trans-1,3-dichloropropene	0.299	0.301	-0.7	120	0.00
46	T	1,1,2-trichloroethane	0.481	0.475	1.2	112	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00
48	T	Toluene	0.494	0.535	-8.3	121	0.00
49	T	Methyl Isobutyl Ketone	0.318	0.261	17.9	90	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	0.979	0.919	6.1	108	0.00
51	T	Methyl Butyl Ketone	0.189	0.152	19.6	102	0.00
52	T	1,2-dibromoethane	0.680	0.660	2.9	111	0.00
53	T	Tetrachloroethylene	0.619	0.588	5.0	108	0.00
54	T	Chlorobenzene	0.837	0.856	-2.3	116	0.00
55	T	Ethylbenzene	0.823	0.819	0.5	116	0.00
56	T	m&p-xylene	0.696	0.752	-8.0	117	0.00
57	T	Styrene	0.398	0.400	-0.5	119	0.00
58	T	Bromoform	0.863	0.819	5.1	107	0.00
59	T	o-xylene	0.851	0.974	-14.5	137	0.00
60	S	Bromofluorobenzene	0.428	0.472	-10.3	131	0.00
61	T	1,1,2,2-tetrachloroethane	0.771	0.750	2.7	118	0.00
62	T	2-Chlorotoluene	0.802	0.838	-4.5	130	0.00
63	T	4-ethyltoluene	0.626	0.673	-7.5	125	0.00
64	T	1,3,5-trimethylbenzene	0.721	0.814	-12.9	129	0.00
65	T	1,2,4-trimethylbenzene	0.490	0.528	-7.8	128	0.00
66	T	1,3-dichlorobenzene	0.585	0.597	-2.1	117	0.00
67	T	benzyl chloride	0.399	0.465	-16.5	141	0.00
68	T	1,4-dichlorobenzene	0.520	0.557	-7.1	125	0.00
69	T	1,2-dichlorobenzene	0.552	0.571	-3.4	118	0.00
70	T	1,2,4-trichlorobenzene	0.239	0.281	-17.6	143	0.00
71	T	Naphthalene	0.299	0.354	-18.4	147	0.00
72	T	Hexachloro-1,3-butadiene	0.616	0.605	1.8	125	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 11:50:53 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	36570	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	100404	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	97689	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	46074	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	22353	1.03	ppb		91
3) Freon 12	3.00	85	125737	1.01	ppb		99
4) Chloromethane	3.15	50	29636	0.97	ppb		84
5) Freon 114	3.15	85	89239	1.02	ppb		100
6) Vinyl Chloride	3.29	62	25297	0.95	ppb		100
7) 1,3-butadiene	3.36	39	15453	0.87	ppb		98
8) Bromomethane	3.61	94	31200	0.99	ppb		96
9) Ethanol	3.92	45	8898	1.09	ppb	#	33
10) Acrolein	4.35	56	6426	1.13	ppb		83
11) Chloroethane	3.74	64	10560	1.03	ppb		93
12) Vinyl Bromide	3.99	106	31371	1.02	ppb		99
13) Freon 11	4.19	101	84067	0.98	ppb		99
14) Acetone	4.45	58	8661	0.99	ppb		85
15) Isopropyl alcohol	4.57	45	28163	1.13	ppb		92
16) 1,1-dichloroethene	4.80	96	26257	0.98	ppb		96
17) Freon 113	4.97	101	59552	0.99	ppb		99
18) Methylene chloride	5.20	84	21880	0.79	ppb		99
19) Allyl chloride	5.19	41	22169	0.85	ppb		94
20) Carbon disulfide	5.32	76	75387	0.82	ppb		97
21) trans-1,2-dichloroethene	6.03	61	34598	0.79	ppb		97
22) methyl tert-butyl ether	6.20	73	63357	1.17	ppb		99
23) 1,1-dichloroethane	6.43	63	63864	1.00	ppb		100
24) Vinyl acetate	6.53	43	36776	1.08	ppb		98
25) Methyl Ethyl Ketone	7.04	72	9139	1.10	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	39990	1.08	ppb		97
27) Hexane	6.94	57	28067	1.12	ppb		98
28) Ethyl acetate	7.61	43	38885	1.06	ppb		98
29) Chloroform	7.90	83	91166	1.01	ppb		100
30) Tetrahydrofuran	8.18	42	16309	1.08	ppb		97
31) 1,2-dichloroethane	8.99	62	51769	1.02	ppb		100
33) 1,1,1-trichloroethane	8.68	97	98005	0.93	ppb		99
34) Cyclohexane	9.37	56	30759	1.05	ppb		98
35) Carbon tetrachloride	9.31	117	112187	0.84	ppb		100
36) Benzene	9.29	78	97442	1.01	ppb		100
37) Methyl methacrylate	11.15	41	16465	1.05	ppb		93
38) 1,4-dioxane	11.47	88	7142m M	0.94	ppb		
39) 2,2,4-trimethylpentane	10.25	57	100031	1.03	ppb		99
40) Heptane	10.67	43	32044	1.03	ppb		99
41) Trichloroethene	10.76	130	52901	0.91	ppb		97
42) 1,2-dichloropropane	10.90	63	35152	0.97	ppb		99
43) Bromodichloromethane	11.27	83	88930	0.95	ppb		99
44) cis-1,3-dichloropropene	12.17	75	38020	1.00	ppb		98
45) trans-1,3-dichloropropene	12.97	75	30216	1.01	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 11:50:53 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	47741	0.99	ppb	99
48)	Toluene	13.01	92	52222	1.08	ppb	98
49)	Methyl Isobutyl Ketone	12.24	43	25542	0.82	ppb	98
50)	Dibromochloromethane	13.94	129	89806	0.94	ppb	100
51)	Methyl Butyl Ketone	13.59	43	14843	0.81	ppb	100
52)	1,2-dibromoethane	14.19	107	64513	0.97	ppb	97
53)	Tetrachloroethylene	14.02	164	57468	0.95	ppb	98
54)	Chlorobenzene	14.97	112	83620	1.02	ppb	100
55)	Ethylbenzene	15.23	91	79973	1.00	ppb	99
56)	m&p-xylene	15.43	91	147011	2.16	ppb	98
57)	Styrene	15.83	104	39115	1.01	ppb	99
58)	Bromoform	15.91	173	80034	0.95	ppb	99
59)	o-xylene	15.85	91	95138	1.14	ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	73233	0.97	ppb	99
62)	2-Chlorotoluene	16.90	91	81904	1.05	ppb	98
63)	4-ethyltoluene	17.03	105	65723	1.07	ppb	96
64)	1,3,5-trimethylbenzene	17.09	105	79533	1.13	ppb	96
65)	1,2,4-trimethylbenzene	17.50	105	51551	1.08	ppb	97
66)	1,3-dichlorobenzene	17.75	146	58321	1.02	ppb	99
67)	benzyl chloride	17.82	91	45412	1.17	ppb	95
68)	1,4-dichlorobenzene	17.88	146	54433	1.07	ppb	99
69)	1,2-dichlorobenzene	18.16	146	55818	1.03	ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	27493	1.18	ppb	99
71)	Naphthalene	19.93	128	34555	1.18	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	59081	0.98	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

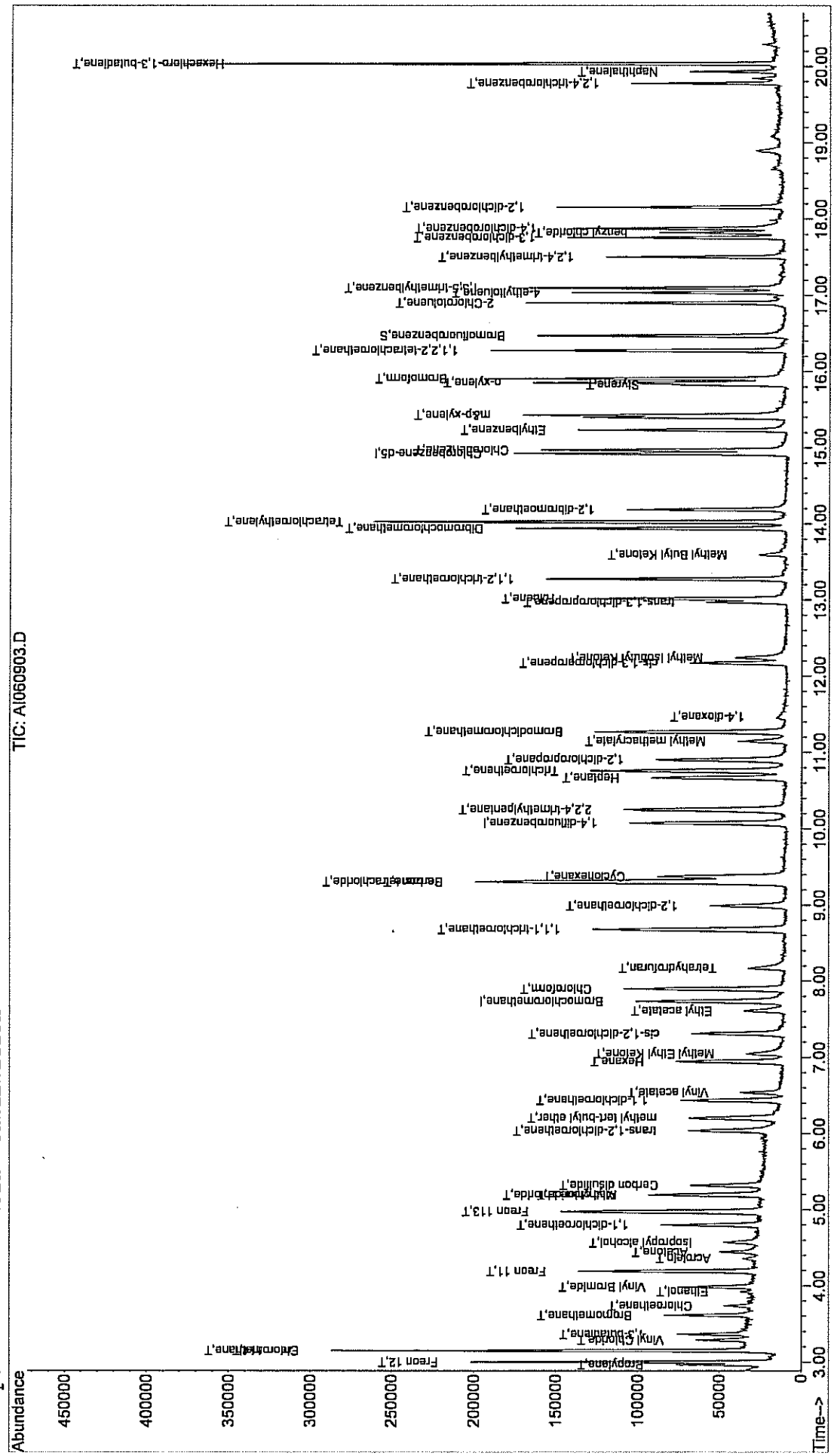
Data File : C:\HPCHEM\1\DATA\AI060903.D
Acq On : 9 Jun 2011 11:30 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 9 12:09 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration

TIC: AI060903.D



AI060903.D A606_1UG.M Wed Jul 06 17:36:39 2011 MSD1

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2	T	Propylene	0.592	0.642	-8.4	116	0.00
3	T	Freon 12	3.420	3.614	-5.7	111	0.00
4	T	Chloromethane	0.831	0.914	-10.0	117	0.00
5	T	Freon 114	2.391	2.588	-8.2	115	0.00
6	T	Vinyl Chloride	0.727	0.730	-0.4	112	0.00
7	T	1,3-butadiene	0.488	0.467	4.3	108	0.00
8	T	Bromomethane	0.860	0.920	-7.0	115	0.00
9	T	Ethanol	0.223	0.230	-3.1	109	0.00
10	T	Acrolein	0.155	0.177	-14.2	114	0.00
11	T	Chloroethane	0.279	0.293	-5.0	121	0.00
12	T	Vinyl Bromide	0.842	0.916	-8.8	110	0.00
13	T	Freon 11	2.338	2.442	-4.4	112	0.00
14	T	Acetone	0.240	0.285	-18.7	120	0.00
15	T	Isopropyl alcohol	0.679	0.814	-19.9	129	0.00
16	T	1,1-dichloroethene	0.733	0.760	-3.7	112	0.00
17	T	Freon 113	1.641	1.717	-4.6	112	0.00
18	T	Methylene chloride	0.755	0.639	15.4	73	0.00
19	T	Allyl chloride	0.711	0.650	8.6	86	0.00
20	T	Carbon disulfide	2.520	2.186	13.3	76	0.00
21	T	trans-1,2-dichloroethene	1.190	1.340	-12.6	120	0.00
22	T	methyl tert-butyl ether	1.475	1.884	-27.7	131	0.00
23	T	1,1-dichloroethane	1.751	1.940	-10.8	116	0.00
24	T	Vinyl acetate	0.931	1.132	-21.6	127	0.00
25	T	Methyl Ethyl Ketone	0.227	0.246	-8.4	111	0.00
26	T	cis-1,2-dichloroethene	1.009	1.188	-17.7	120	0.00
27	T	Hexane	0.687	0.850	-23.7	131	0.00
28	T	Ethyl acetate	1.004	1.251	-24.6	129	0.00
29	T	Chloroform	2.473	2.645	-7.0	109	0.00
30	T	Tetrahydrofuran	0.414	0.515	-24.4	131	0.00
31	T	1,2-dichloroethane	1.390	1.546	-11.2	119	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	113	0.00
33	T	1,1,1-trichloroethane	1.049	0.998	4.9	116	0.00
34	T	Cyclohexane	0.292	0.313	-7.2	123	0.00
35	T	Carbon tetrachloride	1.324	1.146	13.4	112	0.00
36	T	Benzene	0.965	0.987	-2.3	119	0.00
37	T	Methyl methacrylate	0.156	0.184	-17.9	159#	0.00
38	T	1,4-dioxane	0.076	0.067	11.8	92	0.02
39	T	2,2,4-trimethylpentane	0.967	0.996	-3.0	120	0.00
40	T	Heptane	0.310	0.323	-4.2	123	0.00
41	T	Trichloroethene	0.580	0.541	6.7	113	0.00
42	T	1,2-dichloropropane	0.361	0.357	1.1	114	0.00
43	T	Bromodichloromethane	0.934	0.887	5.0	112	0.00
44	T	cis-1,3-dichloropropene	0.377	0.399	-5.8	122	0.00
45	T	trans-1,3-dichloropropene	0.299	0.310	-3.7	123	0.00
46	T	1,1,2-trichloroethane	0.481	0.478	0.6	113	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
48	T	Toluene	0.494	0.541	-9.5	125	0.00
49	T	Methyl Isobutyl Ketone	0.318	0.236	25.8	83	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	0.979	0.896	8.5	107	0.00
51	T	Methyl Butyl Ketone	0.189	0.204	-7.9	140	0.00
52	T	1,2-dibromoethane	0.680	0.659	3.1	114	0.00
53	T	Tetrachloroethylene	0.619	0.590	4.7	111	0.00
54	T	Chlorobenzene	0.837	0.854	-2.0	119	0.00
55	T	Ethylbenzene	0.823	0.908	-10.3	131	0.00
56	T	m&p-xylene	0.696	0.791	-13.6	126	0.00
57	T	Styrene	0.398	0.434	-9.0	132	0.00
58	T	Bromoform	0.863	0.810	6.1	109	0.00
59	T	o-xylene	0.851	0.856	-0.6	123	0.00
60	S	Bromofluorobenzene	0.428	0.479	-11.9	136	0.00
61	T	1,1,2,2-tetrachloroethane	0.771	0.733	4.9	118	0.00
62	T	2-Chlorotoluene	0.802	0.869	-8.4	137	0.00
63	T	4-ethyltoluene	0.626	0.683	-9.1	130	0.00
64	T	1,3,5-trimethylbenzene	0.721	0.836	-16.0	135	0.00
65	T	1,2,4-trimethylbenzene	0.490	0.539	-10.0	134	0.00
66	T	1,3-dichlorobenzene	0.585	0.622	-6.3	125	0.00
67	T	benzyl chloride	0.399	0.365	8.5	113	0.00
68	T	1,4-dichlorobenzene	0.520	0.588	-13.1	135	0.00
69	T	1,2-dichlorobenzene	0.552	0.577	-4.5	123	0.00
70	T	1,2,4-trichlorobenzene	0.239	0.293	-22.6	152#	0.00
71	T	Naphthalene	0.299	0.357	-19.4	151#	0.00
72	T	Hexachloro-1,3-butadiene	0.616	0.600	2.6	127	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 10:50:42 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34653	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	100100	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	99980	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	47914	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	22256	1.08	ppb		95
3) Freon 12	3.00	85	125252	1.06	ppb		99
4) Chloromethane	3.15	50	31679	1.10	ppb		96
5) Freon 114	3.15	85	89678	1.08	ppb		99
6) Vinyl Chloride	3.28	62	25288	1.00	ppb		100
7) 1,3-butadiene	3.36	39	16199	0.96	ppb		92
8) Bromomethane	3.61	94	31889	1.07	ppb		97
9) Ethanol	3.92	45	7966	1.03	ppb	#	1
10) Acrolein	4.35	56	6128	1.14	ppb		95
11) Chloroethane	3.74	64	10147	1.05	ppb		89
12) Vinyl Bromide	3.98	106	31746	1.09	ppb		99
13) Freon 11	4.19	101	84626	1.04	ppb		99
14) Acetone	4.44	58	9867m	1.19	ppb		
15) Isopropyl alcohol	4.57	45	28199	1.20	ppb	#	50
16) 1,1-dichloroethene	4.80	96	26344	1.04	ppb		99
17) Freon 113	4.97	101	59498	1.05	ppb		100
18) Methylene chloride	5.19	84	22157	0.85	ppb		94
19) Allyl chloride	5.19	41	22524	0.91	ppb		93
20) Carbon disulfide	5.32	76	75750	0.87	ppb		95
21) trans-1,2-dichloroethene	6.04	61	46452	1.13	ppb		97
22) methyl tert-butyl ether	6.20	73	65275	1.28	ppb		97
23) 1,1-dichloroethane	6.43	63	67236	1.11	ppb		99
24) Vinyl acetate	6.54	43	39235	1.22	ppb		99
25) Methyl Ethyl Ketone	7.05	72	8515m	1.08	ppb		
26) cis-1,2-dichloroethene	7.31	61	41185	1.18	ppb		95
27) Hexane	6.94	57	29454	1.24	ppb		97
28) Ethyl acetate	7.60	43	43351	1.25	ppb		96
29) Chloroform	7.90	83	91643	1.07	ppb		99
30) Tetrahydrofuran	8.18	42	17841	1.24	ppb		94
31) 1,2-dichloroethane	8.99	62	53563	1.11	ppb		99
33) 1,1,1-trichloroethane	8.68	97	99882	0.95	ppb		99
34) Cyclohexane	9.37	56	31364	1.07	ppb		99
35) Carbon tetrachloride	9.31	117	114734	0.87	ppb		98
36) Benzene	9.29	78	98776	1.02	ppb		96
37) Methyl methacrylate	11.14	41	18459	1.18	ppb		91
38) 1,4-dioxane	11.48	88	6753m	0.89	ppb		
39) 2,2,4-trimethylpentane	10.25	57	99696	1.03	ppb		99
40) Heptane	10.66	43	32381	1.04	ppb		98
41) Trichloroethene	10.76	130	54185	0.93	ppb		98
42) 1,2-dichloropropane	10.90	63	35713	0.99	ppb		95
43) Bromodichloromethane	11.26	83	88831	0.95	ppb		99
44) cis-1,3-dichloropropene	12.17	75	39924	1.06	ppb		99
45) trans-1,3-dichloropropene	12.97	75	31021	1.04	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 10:50:42 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	47861	0.99	ppb	98
48)	Toluene	13.01	92	54045	1.09	ppb	97
49)	Methyl Isobutyl Ketone	12.25	43	23578m	0.74	ppb	
50)	Dibromochloromethane	13.94	129	89623	0.92	ppb	99
51)	Methyl Butyl Ketone	13.59	43	20437m	1.08	ppb	
52)	1,2-dibromoethane	14.19	107	65898	0.97	ppb	100
53)	Tetrachloroethylene	14.02	164	58995	0.95	ppb	97
54)	Chlorobenzene	14.97	112	85405	1.02	ppb	99
55)	Ethylbenzene	15.23	91	90828	1.10	ppb	98
56)	m&p-xylene	15.43	91	158100	2.27	ppb	97
57)	Styrene	15.83	104	43384	1.09	ppb	98
58)	Bromoform	15.91	173	81033	0.94	ppb	98
59)	o-xylene	15.86	91	85623	1.01	ppb	100
61)	1,1,2,2-tetrachloroethane	16.28	83	73335	0.95	ppb	98
62)	2-Chlorotoluene	16.90	91	86930	1.08	ppb	97
63)	4-ethyltoluene	17.04	105	68246	1.09	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	83578	1.16	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	53861	1.10	ppb	96
66)	1,3-dichlorobenzene	17.76	146	62143	1.06	ppb	99
67)	benzyl chloride	17.82	91	36497	0.92	ppb	97
68)	1,4-dichlorobenzene	17.88	146	58816	1.13	ppb	98
69)	1,2-dichlorobenzene	18.16	146	57720	1.05	ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	29262	1.22	ppb	98
71)	Naphthalene	19.93	128	35643	1.19	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	59986	0.97	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

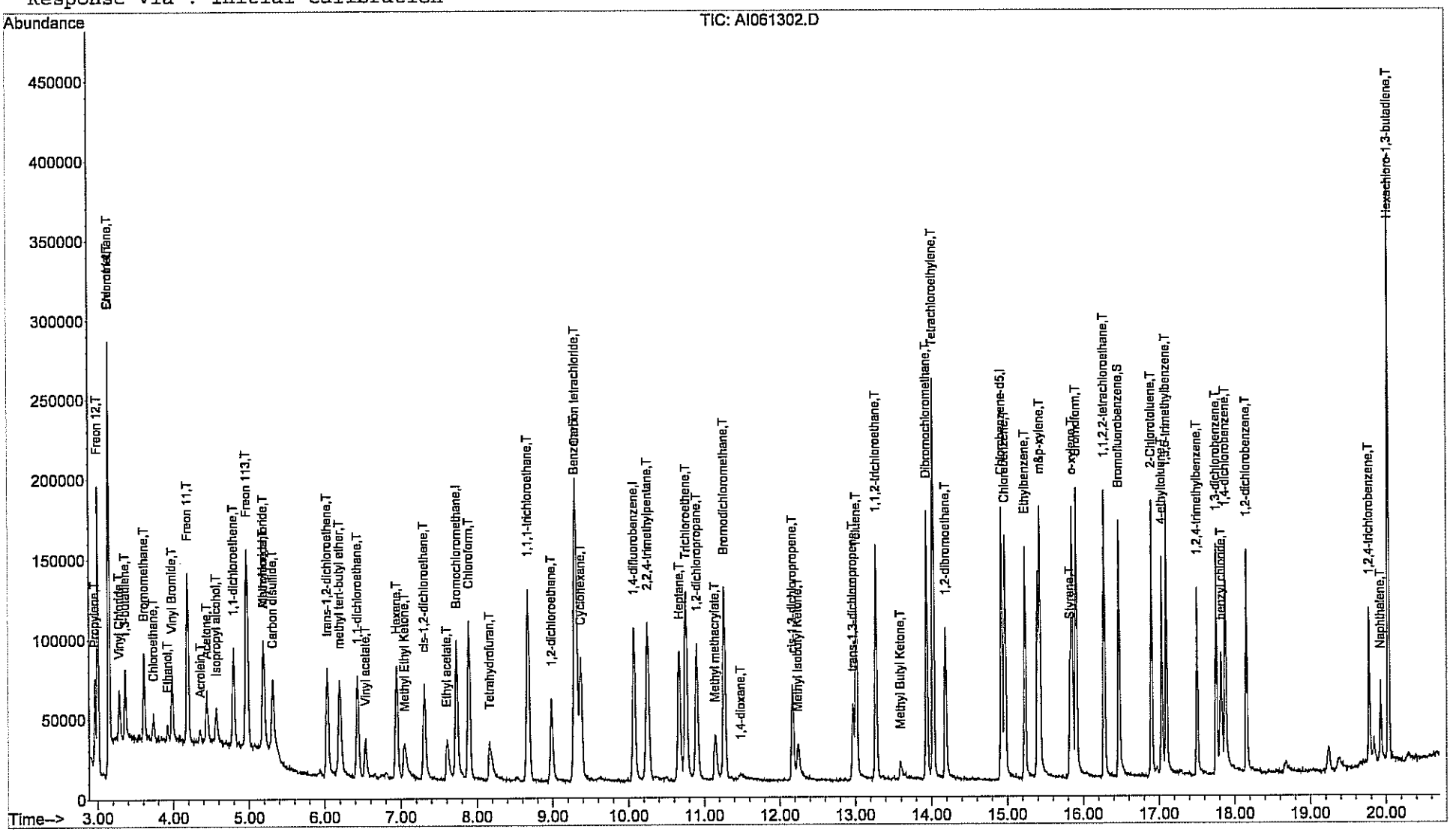
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D
Acq On : 13 Jun 2011 10:29 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jul 6 17:44 2011

Vial: 43
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

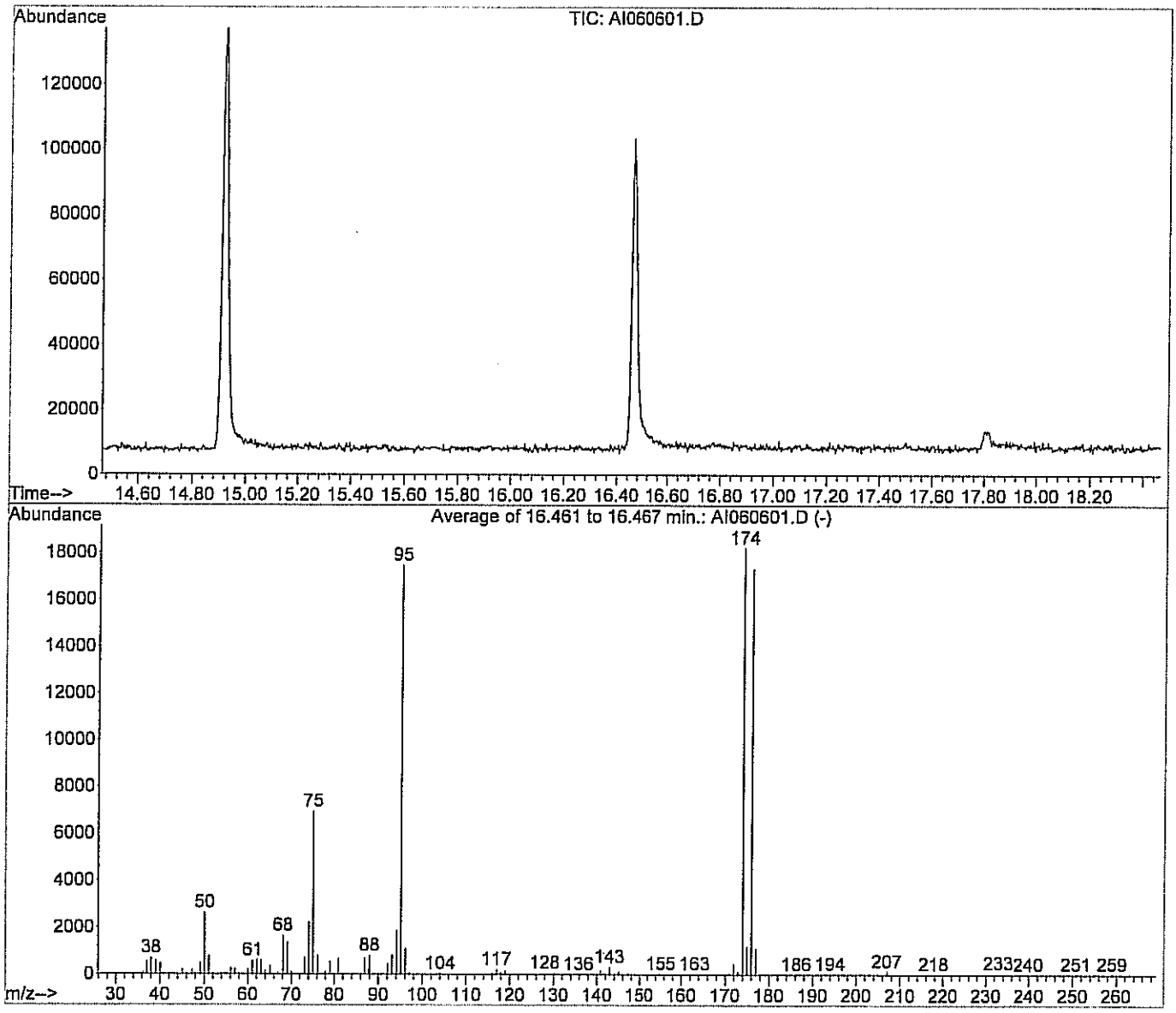
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI060601.D
Acq On : 6 Jun 2011 1:28 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.461 to 16.467 min.

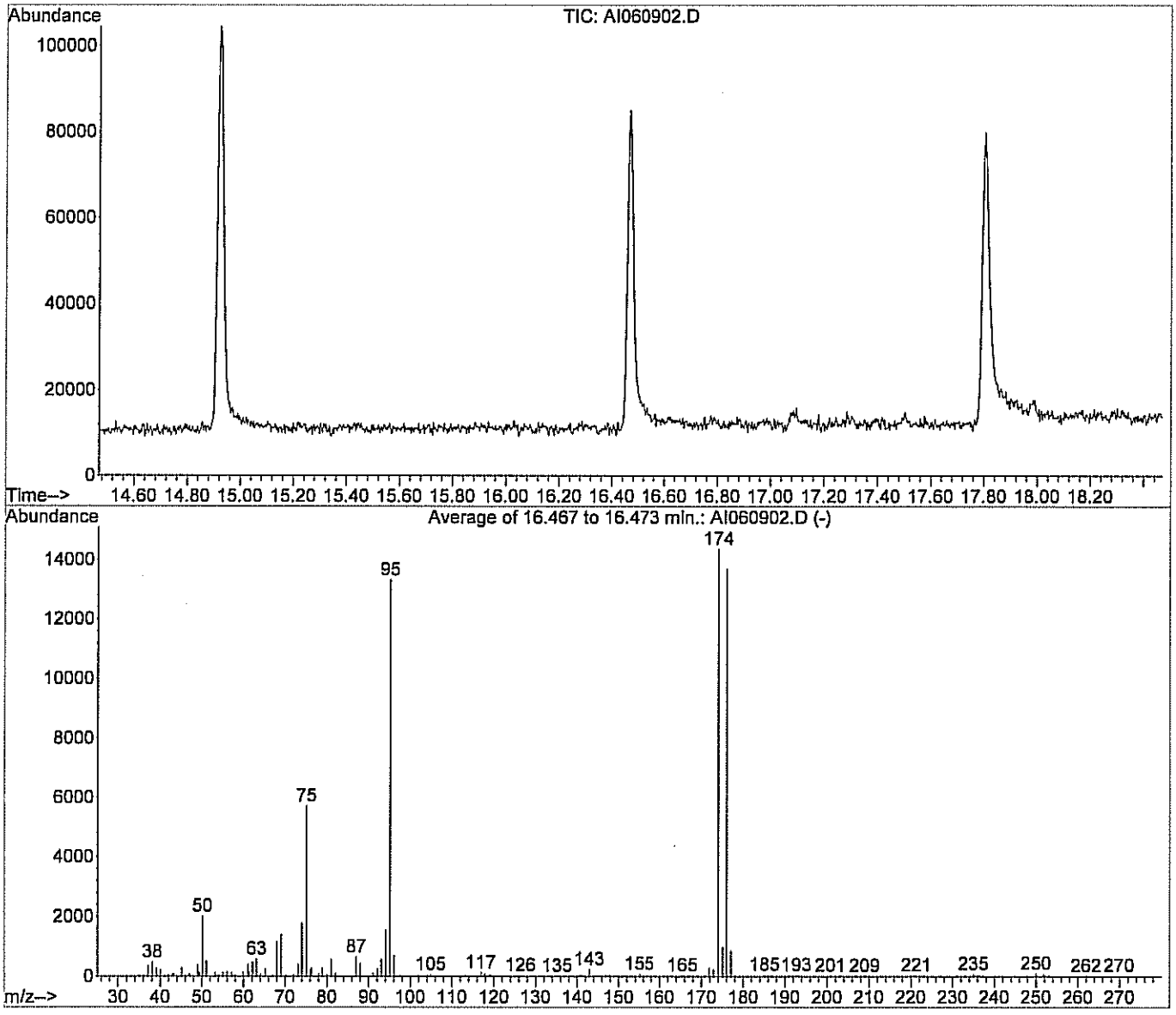
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	2641	PASS
75	95	30	66	39.8	6958	PASS
95	95	100	100	100.0	17487	PASS
96	95	5	9	6.4	1127	PASS
173	174	0.00	2	0.7	133	PASS
174	95	50	120	104.3	18235	PASS
175	174	4	9	6.6	1206	PASS
176	174	95	101	95.1	17333	PASS
177	176	5	9	6.4	1115	PASS

AI060601.D A606_1UG.M Wed Jul 06 17:30:11 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI060902.D
Acq On : 9 Jun 2011 8:46 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.467 to 16.473 min.

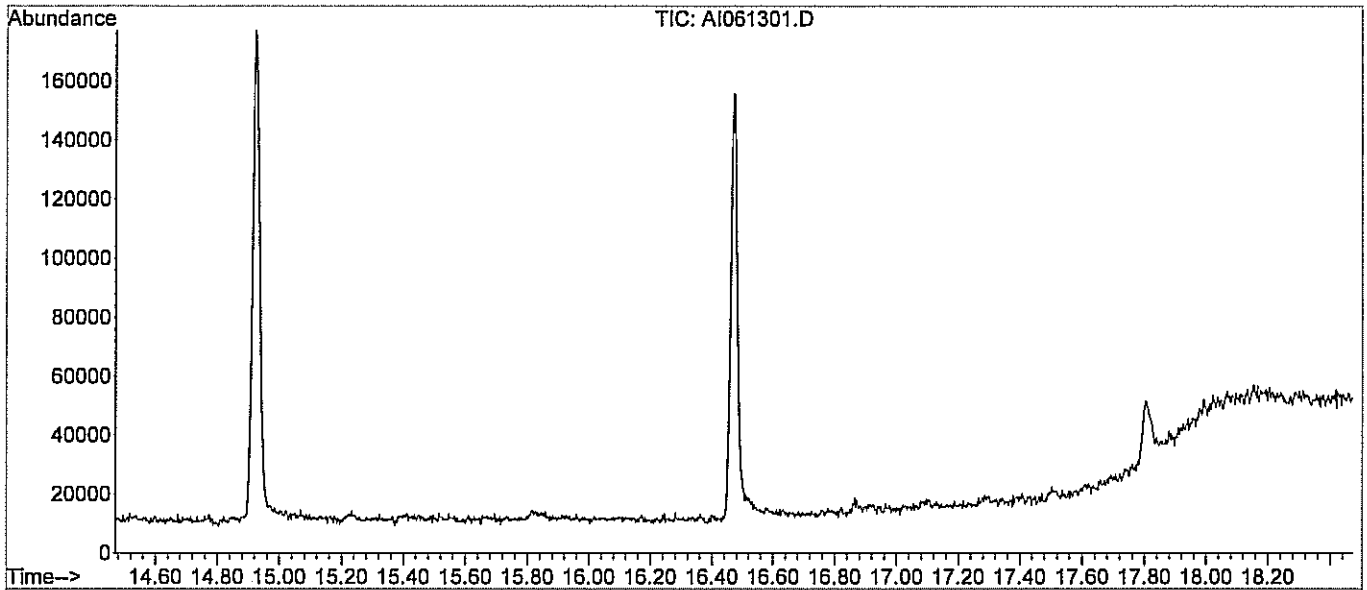
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	2016	PASS
75	95	30	66	42.9	5726	PASS
95	95	100	100	100.0	13332	PASS
96	95	5	9	5.3	711	PASS
173	174	0.00	2	1.7	243	PASS
174	95	50	120	107.9	14379	PASS
175	174	4	9	6.8	984	PASS
176	174	95	101	95.3	13697	PASS
177	176	5	9	6.3	865	PASS

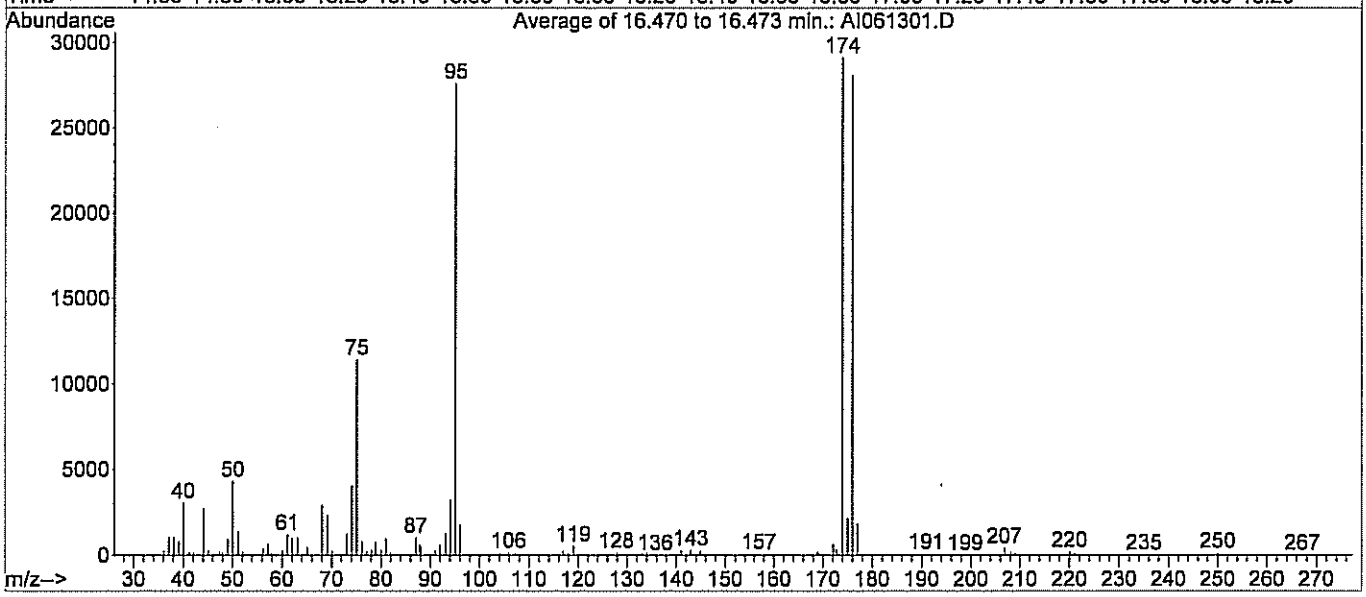
AI060902.D A606_1UG.M Wed Jul 06 17:36:27 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI061301.D
Acq On : 13 Jun 2011 9:47 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 42
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.470 to 16.473 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.6	4311	PASS
75	95	30	66	41.4	11424	PASS
95	95	100	100	100.0	27600	PASS
96	95	5	9	6.4	1766	PASS
173	174	0.00	2	1.2	345	PASS
174	95	50	120	105.5	29128	PASS
175	174	4	9	7.5	2173	PASS
176	174	95	101	96.4	28080	PASS
177	176	5	9	6.5	1832	PASS

AI061301.D A606_1UG.M Wed Jul 06 17:43:09 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-060911	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4611
Client ID:	ZZZZZ	Batch ID:	R4611	TestNo:	TO-15			Analysis Date:	6/9/2011	SeqNo:	54985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-060911** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4611**
Client ID: **ZZZZZ** Batch ID: **R4611** TestNo: **TO-15** Analysis Date: **6/9/2011** SeqNo: **54985**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-060911	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4611
Client ID:	ZZZZZ	Batch ID:	R4611	TestNo:	TO-15			Analysis Date:	6/9/2011	SeqNo:	54985

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID	AMB1UG-061311	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4612
Client ID:	ZZZZZ	Batch ID:	R4612	TestNo:	TO-15			Analysis Date:	6/13/2011	SeqNo:	54994

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-061311	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4612
Client ID:	ZZZZZ	Batch ID:	R4612	TestNo:	TO-15			Analysis Date:	6/13/2011	SeqNo:	54994

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-061311	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4612
Client ID:	ZZZZZ	Batch ID:	R4612	TestNo:	TO-15			Analysis Date:	6/13/2011	SeqNo:	54994

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060905.D Vial: 6
Acq On : 9 Jun 2011 12:42 pm Operator: RJP
Sample : AMB1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 13:03:27 2011 Quant Results File: A606_1UG.RES

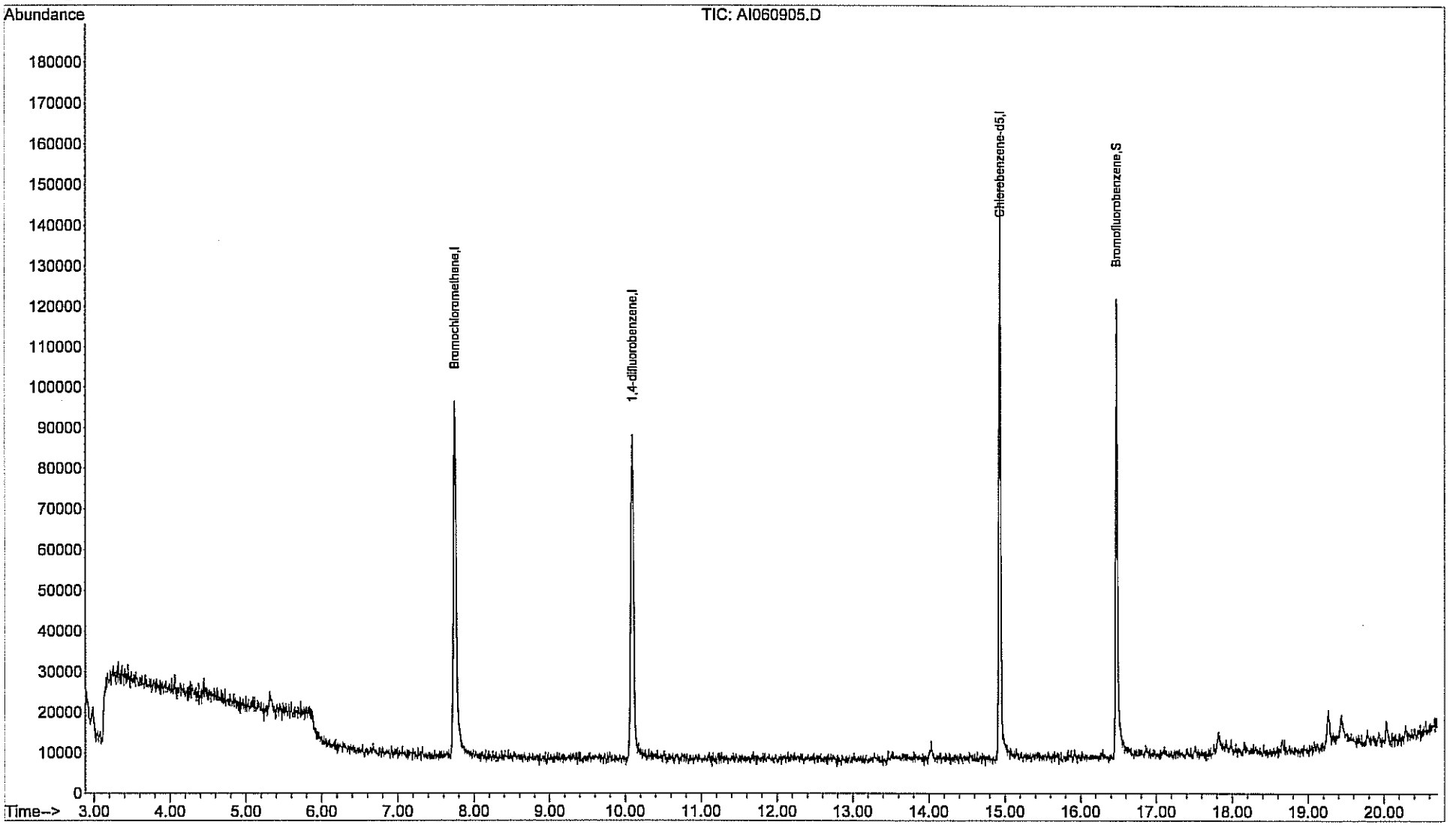
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.75	128	36521	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.09	114	94114	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	88931	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	36640	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060905.D A606_1UG.M Wed Jul 06 17:36:01 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI060905.D Vial: 6
Acq On : 9 Jun 2011 12:42 pm Operator: RJP
Sample : AMB1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 16:11 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061304.D Vial: 45
Acq On : 13 Jun 2011 11:44 am Operator: RJP
Sample : AMB1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 12:05:12 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	34780	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	81235	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	78190	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30636	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue

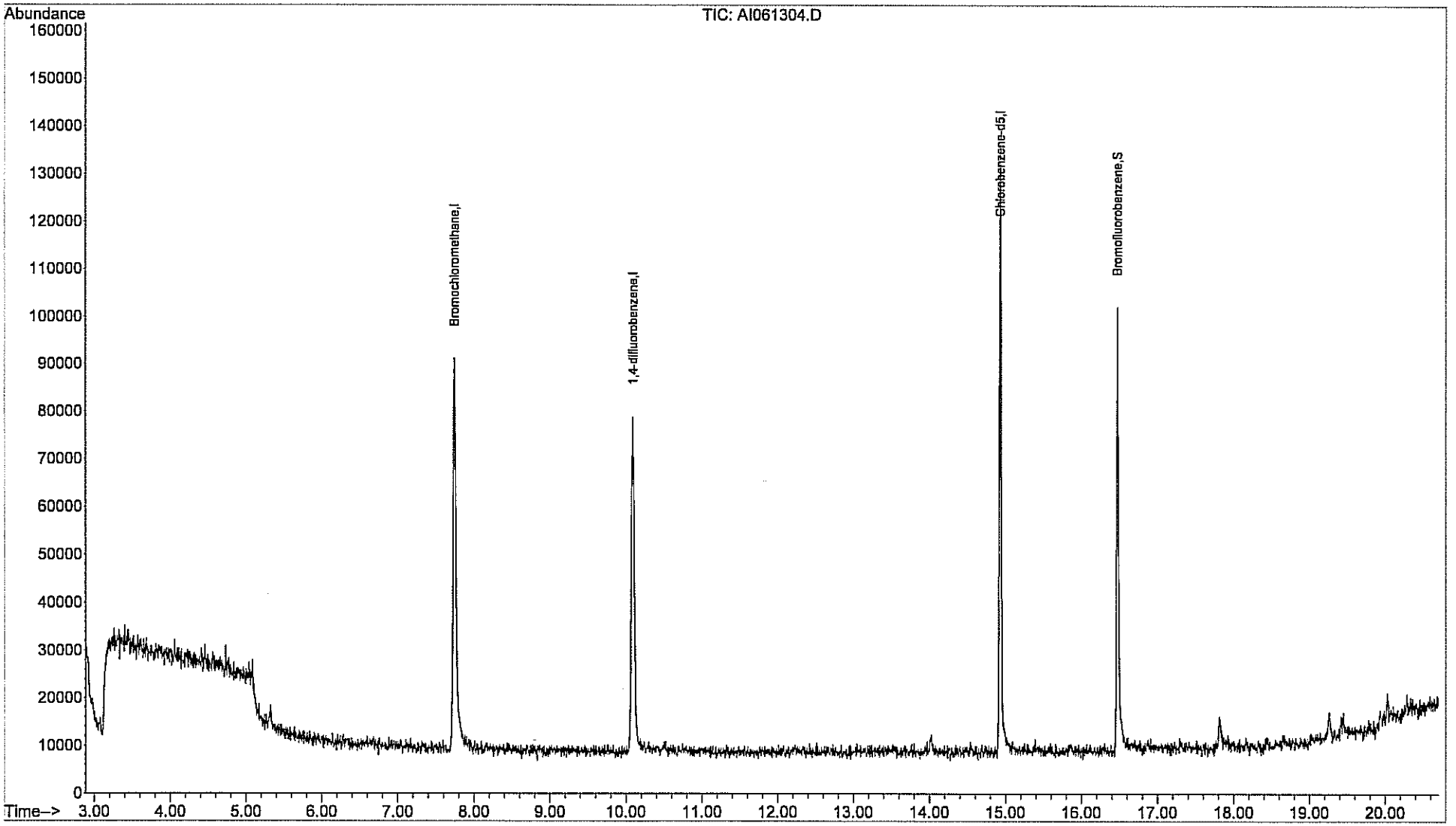
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061304.D
Acq On : 13 Jun 2011 11:44 am
Sample : AMB1UG-061311
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:33 2011

Vial: 45
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Date: *06-Jul-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4611
Client ID: ZZZZZ Batch ID: R4611 TestNo: TO-15 Analysis Date: 6/9/2011 SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.060	0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	70	130				
1,2,4-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130				
1,3,5-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,3-butadiene	1.160	0.15	1	0	116	70	130				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.200	0.15	1	0	120	70	130				
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	0.8900	0.15	1	0	89.0	70	130				
Benzene	1.110	0.15	1	0	111	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	1.040	0.15	1	0	104	70	130				
Bromoform	1.050	0.15	1	0	105	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-060911 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4611
Client ID: ZZZZZ Batch ID: R4611 TestNo: TO-15 Analysis Date: 6/9/2011 SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130				
Carbon tetrachloride	0.9500	0.15	1	0	95.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.060	0.15	1	0	106	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	1.190	0.15	1	0	119	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	1.090	0.25	1	0	109	70	130				
Ethylbenzene	1.090	0.15	1	0	109	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	1.080	0.15	1	0	108	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	1.130	0.15	1	0	113	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.190	0.15	1	0	119	70	130				
Isopropyl alcohol	1.180	0.15	1	0	118	70	130				
m&p-Xylene	2.390	0.30	2	0	120	70	130				
Methyl Butyl Ketone	0.8000	0.30	1	0	80.0	70	130				
Methyl Ethyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	1.120	0.15	1	0	112	70	130				
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	1.270	0.15	1	0	127	70	130				
Propylene	1.110	0.15	1	0	111	70	130				
Styrene	1.100	0.15	1	0	110	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.050	0.15	1	0	105	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4611
Client ID: ZZZZZ	Batch ID: R4611	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 54986

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.110	0.15	1	0	111	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.030	0.15	1	0	103	70	130				

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4612
Client ID: ZZZZZ	Batch ID: R4612	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	70	130				
1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	0.9200	0.15	1	0	92.0	70	130				
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene	0.8400	0.15	1	0	84.0	70	130				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4612
Client ID: ZZZZZ	Batch ID: R4612	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.010	0.30	1	0	101	70	130				
Allyl chloride	0.9200	0.15	1	0	92.0	70	130				
Benzene	0.9500	0.15	1	0	95.0	70	130				
Benzyl chloride	1.020	0.15	1	0	102	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.000	0.15	1	0	100	70	130				
Carbon disulfide	1.190	0.15	1	0	119	70	130				
Carbon tetrachloride	0.8200	0.15	1	0	82.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.9500	0.15	1	0	95.0	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8700	0.15	1	0	87.0	70	130				
Ethyl acetate	1.080	0.25	1	0	108	70	130				
Ethylbenzene	0.9500	0.15	1	0	95.0	70	130				
Freon 11	0.9700	0.15	1	0	97.0	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9500	0.15	1	0	95.0	70	130				
Hexachloro-1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
Hexane	1.090	0.15	1	0	109	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.940	0.30	2	0	97.0	70	130				
Methyl Butyl Ketone	0.8200	0.30	1	0	82.0	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106007
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4612
Client ID: ZZZZZ	Batch ID: R4612	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 54995

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.050	0.15	1	0	105	70	130				
Methylene chloride	0.9300	0.15	1	0	93.0	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9900	0.15	1	0	99.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8900	0.15	1	0	89.0	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
trans-1,3-Dichloropropene	0.8600	0.15	1	0	86.0	70	130				
Trichloroethene	0.8600	0.15	1	0	86.0	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	0.9800	0.15	1	0	98.0	70	130				
Vinyl chloride	0.9500	0.15	1	0	95.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 12:26:44 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	35439	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	93734	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	92053	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	44592	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	23196	1.11	ppb		93
3) Freon 12	3.00	85	129841	1.07	ppb		99
4) Chloromethane	3.15	50	31263	1.06	ppb		91
5) Freon 114	3.15	85	93904	1.11	ppb		99
6) Vinyl Chloride	3.29	62	26451	1.03	ppb		99
7) 1,3-butadiene	3.36	39	20117	1.16	ppb		81
8) Bromomethane	3.61	94	32510	1.07	ppb		87
9) Ethanol	3.92	45	6783	0.86	ppb	#	11
10) Acrolein	4.36	56	5839	1.06	ppb		81
11) Chloroethane	3.74	64	10951	1.11	ppb		97
12) Vinyl Bromide	3.99	106	32386	1.09	ppb		97
13) Freon 11	4.19	101	89468	1.08	ppb		98
14) Acetone	4.45	58	9543	1.12	ppb	#	71
15) Isopropyl alcohol	4.57	45	28269	1.18	ppb	#	50
16) 1,1-dichloroethene	4.80	96	27670	1.06	ppb		96
17) Freon 113	4.98	101	62956	1.08	ppb		98
18) Methylene chloride	5.20	84	21634	0.81	ppb		96
19) Allyl chloride	5.19	41	22400	0.89	ppb		95
20) Carbon disulfide	5.32	76	77801	0.87	ppb		92
21) trans-1,2-dichloroethene	6.04	61	46967	1.11	ppb		99
22) methyl tert-butyl ether	6.20	73	58329	1.12	ppb		97
23) 1,1-dichloroethane	6.43	63	67888	1.09	ppb		100
24) Vinyl acetate	6.54	43	36493	1.11	ppb		99
25) Methyl Ethyl Ketone	7.06	72	9422	1.17	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	39603	1.11	ppb		97
27) Hexane	6.95	57	28929	1.19	ppb		96
28) Ethyl acetate	7.62	43	38729	1.09	ppb		96
29) Chloroform	7.90	83	94723	1.08	ppb		99
30) Tetrahydrofuran	8.17	42	15440	1.05	ppb		91
31) 1,2-dichloroethane	8.99	62	53752	1.09	ppb		99
33) 1,1,1-trichloroethane	8.68	97	101570	1.03	ppb		99
34) Cyclohexane	9.37	56	32557	1.19	ppb		96
35) Carbon tetrachloride	9.31	117	117768	0.95	ppb		100
36) Benzene	9.29	78	100084	1.11	ppb		96
37) Methyl methacrylate	11.15	41	17255	1.18	ppb		96
38) 1,4-dioxane	11.46	88	6770	0.95	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	101964	1.13	ppb		99
40) Heptane	10.67	43	32926	1.13	ppb		100
41) Trichloroethene	10.76	130	55070	1.01	ppb		99
42) 1,2-dichloropropane	10.90	63	36006	1.07	ppb		98
43) Bromodichloromethane	11.27	83	91229	1.04	ppb		100
44) cis-1,3-dichloropropene	12.17	75	39237	1.11	ppb		99
45) trans-1,3-dichloropropene	12.97	75	30567	1.09	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 12:26:44 2011 Quant Results File: A606_1UG.RES

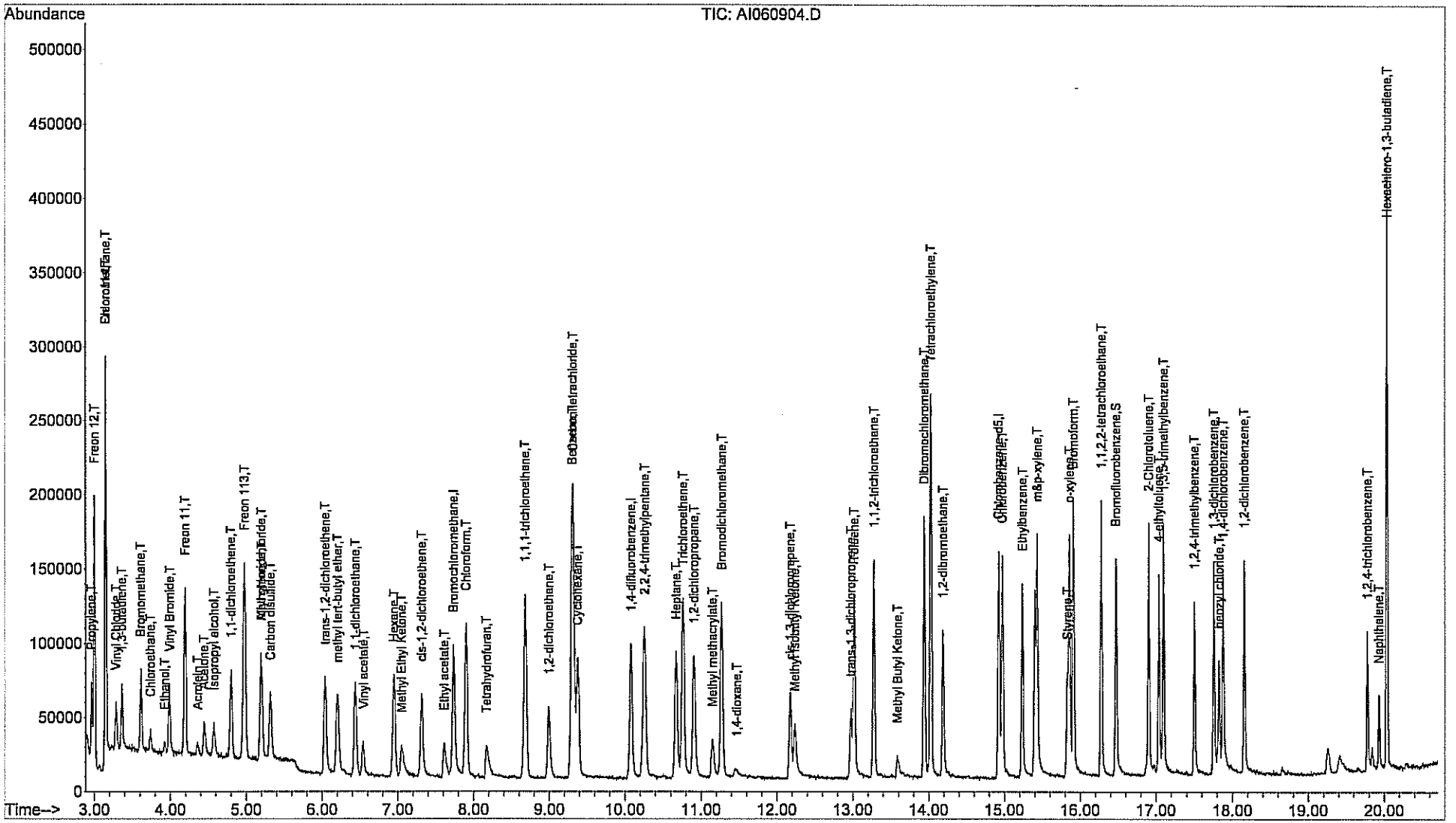
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	47605	1.06 ppb	99
48)	Toluene	13.02	92	53139	1.17 ppb	100
49)	Methyl Isobutyl Ketone	12.23	43	29272	1.00 ppb	98
50)	Dibromochloromethane	13.94	129	92426	1.03 ppb	98
51)	Methyl Butyl Ketone	13.59	43	13852	0.80 ppb	96
52)	1,2-dibromoethane	14.19	107	66350	1.06 ppb	98
53)	Tetrachloroethylene	14.02	164	60085	1.05 ppb	97
54)	Chlorobenzene	14.97	112	83325	1.08 ppb	98
55)	Ethylbenzene	15.23	91	82258	1.09 ppb	98
56)	m&p-xylene	15.43	91	152904	2.39 ppb	98
57)	Styrene	15.83	104	40328	1.10 ppb	99
58)	Bromoform	15.91	173	83683	1.05 ppb	98
59)	o-xylene	15.86	91	99519	1.27 ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	74957	1.06 ppb	100
62)	2-Chlorotoluene	16.90	91	84922	1.15 ppb	98
63)	4-ethyltoluene	17.04	105	68909	1.20 ppb	97
64)	1,3,5-trimethylbenzene	17.10	105	81885	1.23 ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	55371	1.23 ppb	99
66)	1,3-dichlorobenzene	17.76	146	62123	1.15 ppb	99
67)	benzyl chloride	17.82	91	45644	1.24 ppb	97
68)	1,4-dichlorobenzene	17.88	146	55851	1.17 ppb	98
69)	1,2-dichlorobenzene	18.15	146	59627	1.17 ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	28128	1.28 ppb	99
71)	Naphthalene	19.93	128	36538	1.33 ppb	98
72)	Hexachloro-1,3-butadiene	20.03	225	67130	1.18 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 12:26 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 11:31:10 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	36093	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	103158	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	98686	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	46772	1.11	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	21234	0.99	ppb		91
3) Freon 12	3.00	85	121680	0.99	ppb		100
4) Chloromethane	3.15	50	30446	1.01	ppb		99
5) Freon 114	3.15	85	87489	1.01	ppb		99
6) Vinyl Chloride	3.29	62	24805	0.95	ppb		97
7) 1,3-butadiene	3.36	39	14808	0.84	ppb		98
8) Bromomethane	3.61	94	30991	1.00	ppb		94
9) Ethanol	3.92	45	5973	0.74	ppb	#	32
10) Acrolein	4.36	56	5346	0.95	ppb		92
11) Chloroethane	3.73	64	9539	0.95	ppb		96
12) Vinyl Bromide	3.99	106	29806	0.98	ppb		98
13) Freon 11	4.19	101	81747	0.97	ppb		100
14) Acetone	4.44	58	8754	1.01	ppb	#	71
15) Isopropyl alcohol	4.57	45	26255	1.07	ppb		92
16) 1,1-dichloroethene	4.80	96	25593	0.97	ppb		97
17) Freon 113	4.97	101	58230	0.98	ppb		99
18) Methylene chloride	5.20	84	25435	0.93	ppb		93
19) Allyl chloride	5.19	41	23709	0.92	ppb		91
20) Carbon disulfide	5.32	76	108644	1.19	ppb		94
21) trans-1,2-dichloroethene	6.03	61	44279	1.03	ppb		95
22) methyl tert-butyl ether	6.21	73	56018	1.05	ppb		95
23) 1,1-dichloroethane	6.43	63	65114	1.03	ppb		99
24) Vinyl acetate	6.54	43	35675	1.06	ppb		100
25) Methyl Ethyl Ketone	7.07	72	8877	1.08	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	38131	1.05	ppb		96
27) Hexane	6.95	57	27024	1.09	ppb		95
28) Ethyl acetate	7.61	43	39324	1.08	ppb		97
29) Chloroform	7.90	83	88930	1.00	ppb		100
30) Tetrahydrofuran	8.18	42	15406	1.03	ppb		96
31) 1,2-dichloroethane	8.99	62	51147	1.02	ppb		98
33) 1,1,1-trichloroethane	8.68	97	97486	0.90	ppb		99
34) Cyclohexane	9.37	56	29465	0.98	ppb		98
35) Carbon tetrachloride	9.31	117	112660	0.82	ppb		98
36) Benzene	9.29	78	94734	0.95	ppb		100
37) Methyl methacrylate	11.15	41	15843	0.98	ppb		93
38) 1,4-dioxane	11.49	88	7207m	0.92	ppb		
39) 2,2,4-trimethylpentane	10.25	57	95457	0.96	ppb		99
40) Heptane	10.67	43	30299	0.95	ppb		98
41) Trichloroethene	10.76	130	51409	0.86	ppb		98
42) 1,2-dichloropropane	10.90	63	34174	0.92	ppb		96
43) Bromodichloromethane	11.27	83	85015	0.88	ppb		98
44) cis-1,3-dichloropropene	12.17	75	37232	0.96	ppb		98
45) trans-1,3-dichloropropene	12.98	75	26604	0.86	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 11:31:10 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

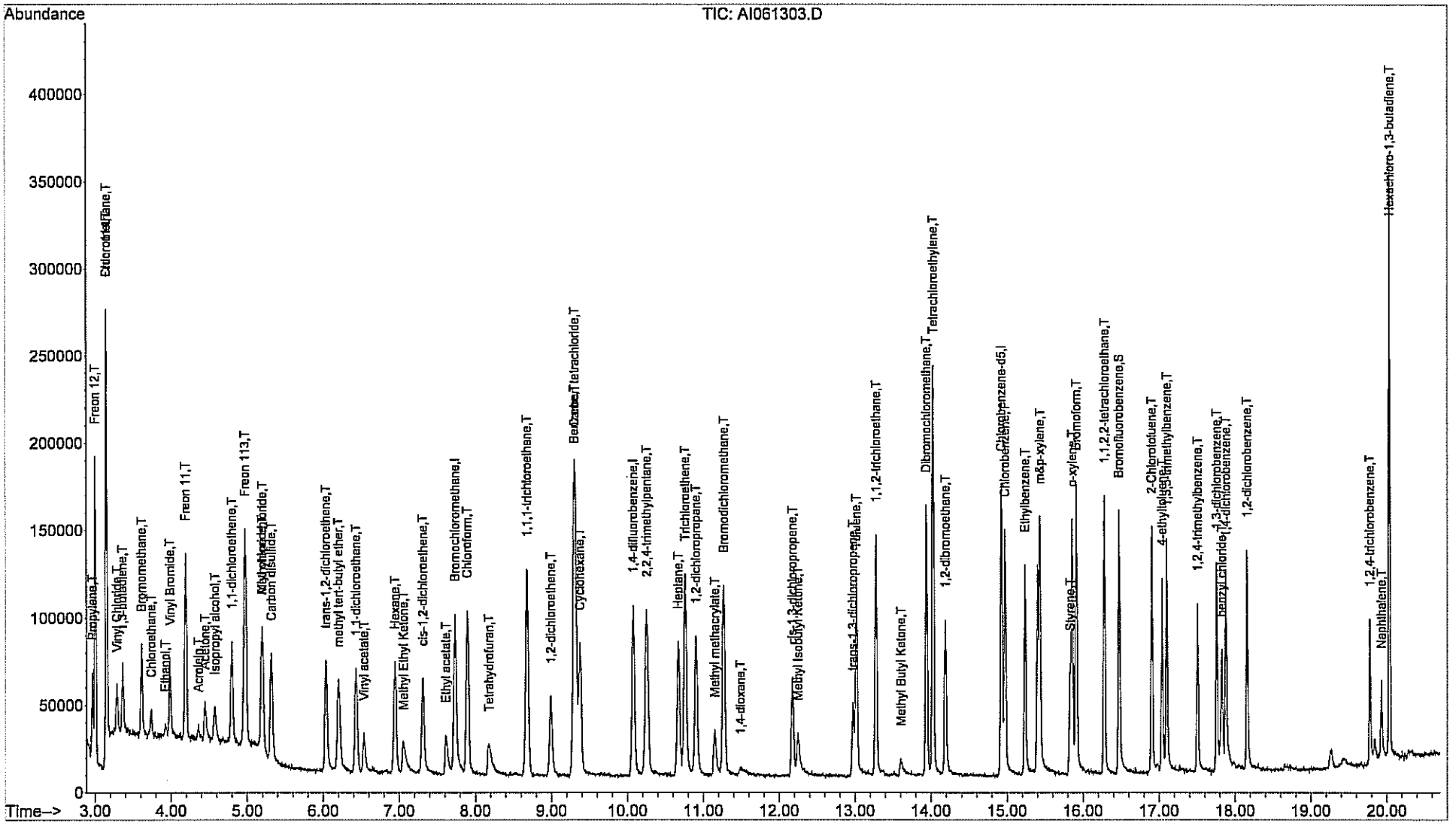
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	44669	0.90	ppb	99
48)	Toluene	13.02	92	47804	0.98	ppb	98
49)	Methyl Isobutyl Ketone	12.25	43	21933m	0.70	ppb	
50)	Dibromochloromethane	13.94	129	84067	0.87	ppb	99
51)	Methyl Butyl Ketone	13.60	43	15209m	0.82	ppb	
52)	1,2-dibromoethane	14.19	107	60960	0.91	ppb	99
53)	Tetrachloroethylene	14.03	164	54642	0.89	ppb	99
54)	Chlorobenzene	14.97	112	79150	0.96	ppb	98
55)	Ethylbenzene	15.24	91	76835	0.95	ppb	100
56)	m&p-xylene	15.43	91	133128	1.94	ppb	99
57)	Styrene	15.83	104	37094	0.95	ppb	97
58)	Bromoform	15.91	173	76282	0.90	ppb	98
59)	o-xylene	15.86	91	72682	0.87	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	65417	0.86	ppb	97
62)	2-Chlorotoluene	16.90	91	72951	0.92	ppb	98
63)	4-ethyltoluene	17.04	105	57258	0.93	ppb	99
64)	1,3,5-trimethylbenzene	17.10	105	64142	0.90	ppb	99
65)	1,2,4-trimethylbenzene	17.51	105	46026	0.95	ppb	98
66)	1,3-dichlorobenzene	17.76	146	52628	0.91	ppb	98
67)	benzyl chloride	17.83	91	40258	1.02	ppb	97
68)	1,4-dichlorobenzene	17.88	146	48593	0.95	ppb	100
69)	1,2-dichlorobenzene	18.16	146	52026	0.95	ppb	98
70)	1,2,4-trichlorobenzene	19.78	180	25131	1.06	ppb	99
71)	Naphthalene	19.93	128	31431	1.07	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	54770	0.90	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:33 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 03:22:14 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	36425	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	89985	1.00	ppb		0.00
47) Chlorobenzene-d5	14.93	117	89708	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	43562	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	18969	0.88	ppb		94
3) Freon 12	3.00	85	114306	0.92	ppb		99
4) Chloromethane	3.15	50	27413	0.91	ppb		96
5) Freon 114	3.15	85	81830	0.94	ppb		99
6) Vinyl Chloride	3.29	62	23538	0.89	ppb		98
7) 1,3-butadiene	3.36	39	14120	0.79	ppb		90
8) Bromomethane	3.61	94	29543	0.94	ppb		91
9) Ethanol	3.93	45	6991m	0.86	ppb		
10) Acrolein	4.36	56	5331	0.94	ppb		86
11) Chloroethane	3.74	64	9190	0.90	ppb		91
12) Vinyl Bromide	3.99	106	28261	0.92	ppb		98
13) Freon 11	4.19	101	79885	0.94	ppb		99
14) Acetone	4.45	58	9119	1.04	ppb		95
15) Isopropyl alcohol	4.56	45	21156	0.86	ppb		82
16) 1,1-dichloroethene	4.81	96	23415	0.88	ppb		97
17) Freon 113	4.98	101	55762	0.93	ppb		98
18) Methylene chloride	5.21	84	21078m	0.77	ppb		
19) Allyl chloride	5.19	41	20507	0.79	ppb		96
20) Carbon disulfide	5.32	76	66228	0.72	ppb		100
21) trans-1,2-dichloroethene	6.05	61	39438	0.91	ppb		96
22) methyl tert-butyl ether	6.20	73	48168	0.90	ppb		92
23) 1,1-dichloroethane	6.44	63	59459	0.93	ppb		99
24) Vinyl acetate	6.54	43	29900	0.88	ppb		97
25) Methyl Ethyl Ketone	7.05	72	6711	0.81	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	32738	0.89	ppb		95
27) Hexane	6.95	57	23205	0.93	ppb		96
28) Ethyl acetate	7.61	43	31447	0.86	ppb		95
29) Chloroform	7.91	83	82247	0.91	ppb		100
30) Tetrahydrofuran	8.18	42	12938	0.86	ppb		95
31) 1,2-dichloroethane	9.00	62	47157	0.93	ppb		97
33) 1,1,1-trichloroethane	8.69	97	90601	0.96	ppb		99
34) Cyclohexane	9.39	56	24429	0.93	ppb		95
35) Carbon tetrachloride	9.32	117	105533	0.89	ppb		99
36) Benzene	9.30	78	82962	0.96	ppb		99
37) Methyl methacrylate	11.16	41	11549	0.82	ppb		89
38) 1,4-dioxane	11.46	88	5112m	0.75	ppb		
39) 2,2,4-trimethylpentane	10.27	57	82719	0.95	ppb		98
40) Heptane	10.68	43	25526	0.92	ppb		96
41) Trichloroethene	10.77	130	46572	0.89	ppb		98
42) 1,2-dichloropropane	10.91	63	30345	0.94	ppb		100
43) Bromodichloromethane	11.28	83	80307	0.96	ppb		99
44) cis-1,3-dichloropropene	12.18	75	30842	0.91	ppb		99
45) trans-1,3-dichloropropene	12.97	75	23868	0.89	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 03:22:14 2011 Quant Results File: A606_1UG.RES

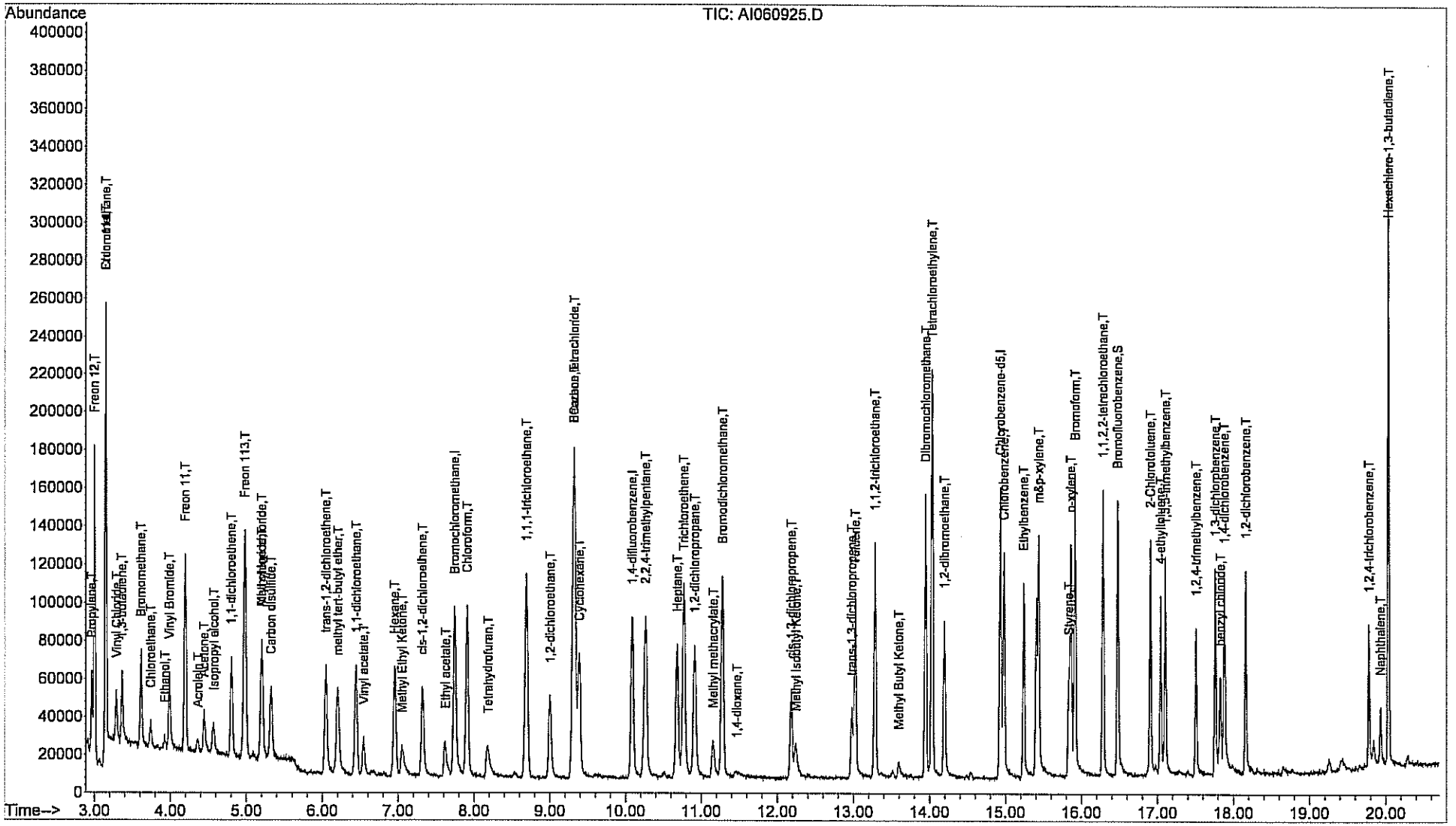
Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	39761	0.92	ppb	99
48)	Toluene	13.02	92	40011	0.90	ppb	99
49)	Methyl Isobutyl Ketone	12.24	43	21353m	0.75	ppb	
50)	Dibromochloromethane	13.94	129	79038	0.90	ppb	98
51)	Methyl Butyl Ketone	13.59	43	16237m	0.96	ppb	
52)	1,2-dibromoethane	14.19	107	55006	0.90	ppb	98
53)	Tetrachloroethylene	14.03	164	49695	0.90	ppb	98
54)	Chlorobenzene	14.98	112	67582	0.90	ppb	100
55)	Ethylbenzene	15.24	91	62802	0.85	ppb	100
56)	m&p-xylene	15.43	91	109796	1.76	ppb	99
57)	Styrene	15.83	104	31004	0.87	ppb	99
58)	Bromoform	15.91	173	71460	0.92	ppb	99
59)	o-xylene	15.86	91	73477	0.96	ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	62899	0.91	ppb	99
62)	2-Chlorotoluene	16.90	91	63130	0.88	ppb	97
63)	4-ethyltoluene	17.04	105	45305	0.81	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	53795	0.83	ppb	97
65)	1,2,4-trimethylbenzene	17.51	105	35050	0.80	ppb	99
66)	1,3-dichlorobenzene	17.76	146	46599	0.89	ppb	99
67)	benzyl chloride	17.82	91	30104	0.84	ppb	95
68)	1,4-dichlorobenzene	17.88	146	41703	0.89	ppb	97
69)	1,2-dichlorobenzene	18.16	146	42545	0.86	ppb	97
70)	1,2,4-trichlorobenzene	19.78	180	21772	1.01	ppb	97
71)	Naphthalene	19.93	128	20043	0.75	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	50726	0.92	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 16 11:05 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:52 2011
Response via : Initial Calibration



AI060925.D A606_1UG.M Wed Jul 06 17:36:05 2011 MSD1 Page 3

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8526
Standard Stock #(s) 8527
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	A=060601	-		A606.1UG		6/6/11	1328		
	A1U6-0.04	04	-							
	2.0	05	-							
	1.5	06	-							
	1.0	08	-							
	0.75	09	-							
	0.50	10	-							
	0.30	11	-							
	0.15	12	-							
	0.10	15	-					2147		
	BLK	16	-							

Analyzed by: _____

Page No: 65

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8526
Standard Stock #(s) 8527
LCS Stock #(s) 8528
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIU6	AI060902	-	-	A606-1U6		6/9/11	0846		
	AIU6-1.0	03	-	200						
	ALCSIU6-060911	04	-							
	AMBIU6	05	-							
	C1106016-001	06	-							
	002	07	-							
	001 DL	08	10	20						
	002	09	"	"						
	" "	10	40	5						
	C1106007-003	11	-	200						
	001	12	-							
	002	13	-							
	C1106012-003	14	-							
	002	15	-							
	001	16	-							
	C1106007-001 DL	17	10	20						
	002	18	"	"						
	001	19	40	5						
	C1106012-002	21	10	20			6/10/11	0031		
	001	27	40	5						
	ALCSIU6A-060911	25	-	200				0301		
	BLK	26	-	-						

Analyzed by: [signature]

Page No: 66

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8547
Standard Stock #(s) 8548
LCS Stock #(s) 8549
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	AJ061301	-	-	A606_1U6		6/13/11	0947		
	AIUG_1.0	02	-	200						
	ALCSIU6-061311	03	-	↓						
	AMBIUL ↓	04	-							
	C1106012-001A	05	10	20						
	002 ↓	06	90	20(9)*						
	C1106007-001 ↓	07	180	10 ↓						
	WAC061311A	08	-	200						
	B	09	-							
	C	10	-							
	D	11	-						2	
	E	12	-						2	
	F	13	-							
	G	14	-							
	H	15	-							
	I	16	-	↓			↓	2015		
	BLK	17	-	-						

Analyzed by: LW

*DL ON CAN

Page No: 67

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by	
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.		
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.		
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.		
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓		
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.		
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.		
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.		
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.		RECERT. ON 3/11 EXP 3/12
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓		
7619	1/25/10	1/25/11	FIXED GASES	105940 216304	% VARIES	1L	MATHESON TRI-GAS		mb		
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.		
7621	↓	↓	↓ STD(A)	7617/7618 7384	↓	↓	↓	↓	↓		
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓		
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.		
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓		
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓		
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8314	2/14/11	2/21/11	TO15/UG LCS	8307	50ppb	0.9psig	45psia	1ppb	MD	
8315	↓	↓	IS B	8305	↓	↓	↓	↓	↓	
8316	↓	↓	STD B	8306	↓	↓	↓	↓	↓	
8317	2/14/11	2/14/12	TO15 IS	AB 100371	1ppm	LINDE GAS			MD	
8318	2/15/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8319	2/16/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8320	2/17/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8321	2/21/11	2/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	MD	
8322	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	
8323			LCS	7743AM						
8324			4PCH	7384						
8325			FORM	7068	36.5%	1.1UG	50psia	10ppm		
8326			FORM STD	8305/325	10ppm	0.23psig	45psia	50ppb		
8327			SUL/GAL	6194	1ppm	1.5psig	30psia	50ppb		
8328			TO15/UG IS A	8321	50ppb	0.9psig	45psia	1ppb		
8329			STD A	8322						
8330			LCS	8323						
8331			IS B	8321						
8332	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8333	3/1/11	3/7/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	MD	
8334	↓	↓	STD	7617/18	↓	↓	↓	↓		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743A+B	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 LL IS A	8339	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD D	8339	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46						
8349			LCS	~~8346~~ 7617/15	↓	↓	↓	↓		
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SIL/SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 LL IS A	8347	50 ppb	0.9 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Page # 3

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8522	5/31/11	6/6/11	TO15 10G LCS	8515	50ppb	0.9psig	45psia	1ppb	M	
8523	6/1/11	6/6/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8524	↓	↓	TO15 10G IS (B)	8523	50ppb	0.9psig	45psia	1ppb	↓	
8525	↓	↓	↓ STD (B)	8514	↓	↓	↓	↓	↓	
8526	6/2/11	6/6/11	TO15 10G IS A	8323	50ppb	0.9psig	45psia	1ppb	M	
8527	↓	↓	↓ STD A	8324	↓	↓	↓	↓	↓	
8528	↓	↓	↓ LCS	8328	↓	↓	↓	↓	↓	
8529	6/5/11	6/13/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	M	
8530	↓	↓	↓ STD	8345/46	↓	↓	↓	↓	↓	
8531	↓	↓	↓ LCS	7617/18	↓	↓	↓	↓	↓	
8532	↓	↓	↓ 4PCH	7354	↓	↓	↓	↓	↓	
8533	↓	↓	↓ FORM	7068	36.5%	1.1µg	50psig	10ppm	↓	
8534	↓	↓	↓ 50	8333	10ppm	0.23psig	45psia	50ppb	↓	
8535	↓	↓	↓ 61LX/5UL	6154/7046	1ppm	1.5psig	30psia	↓	↓	
8536	↓	↓	TO15 10G IS	8529	50ppb	0.9psig	45psia	1ppb	↓	
8537	↓	↓	↓ STD	8530	↓	↓	↓	↓	↓	
8538	↓	↓	↓ LCS	8531	↓	↓	↓	↓	↓	
8539	6/8/11	6/13/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8540	6/13/11	6/20/11	TO15 IS	8317	↓	↓	↓	↓	I.L.	
8541	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8542	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8543	6/13/11	6/20/11	TO15 4PCH	7384	1ppm	1.5psiG	30psiA	50ppb	Z.L.	
8544	↓	↓	FORM	7068	36.5%	1.1ul	50psiG	10ppm	↓	
8545			FORM50	8544	10ppm	0.23psiG	45psiA	50ppb		
8546			SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb		
8547			TO15 IUG IS (CA)	8540	50ppb	0.9psiG	45psiA	1ppb		
8548			STD (CA)	8541	↓	↓	↓	↓		
8549	↓	↓	LCS (CA)	8542	↓	↓	↓	↓	↓	
8550	6/17/11	6/20/11	TO15 IS	8317	1ppm	1.5psiG	30psiA	50ppb	Z.L.	
8551	6/20/11	6/27/11	TO15 IS	8345/8317	1ppm	1.5psiG	30psiA	50ppb	Z.L.	
8552	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8553			LCS	7617/7614						
8554			4PCH	7384	↓	↓	↓	↓		
8555			FORM	7068	36.5%	1.1ul	50psiG	10ppm		
8556			FORM50	8555	10ppm	0.23psiG	45psiA	50ppb		
8557	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb		
8558	6/20/11	6/27/11	TO15 IUG IS (CA)	8551	50ppb	0.9psiG	45psiA	1ppb		
8559	↓	↓	STD (CA)	8552	↓	↓	↓	↓	↓	
8560	↓	↓	LCS	8553	↓	↓	↓	↓		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
162	85	30	4-19-11	WAC041911A	1ug/m³ ±0.25	+ 30	+ 30
354						+	+
136						+	+
422						+	+
85						+	+
464	101			WAC041911B		+	+
220						+	+
355						+	+
544						+	+
101						+	+
568	285			WAC041911C		+	+
87						+	+
245						+	+
335						+	+
285						+	+
476	95			WAC041911D		+	+
463						+	+
128						+	+
287						+	+
95						+	+
192	467			WAC041911E		+	+
421						+	+
315						+	+
496						+	+
467						+	+

Cleaned by: T.L.

Page # 199

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
243	364	30	4-19-11	WAC 041911 F	1 ug/m3 +0.25	+ 30	+ 30
234	↓			↓	↓	+ ↓	+ ↓
202						+	+
359						+	+
364						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: I. L.

Page # 200

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
554	324	25	04/26/11	WAC042611A	1ug/m³ +0.25	+ 30	+ 30
430	↓	↓	↓	↓	TCE, CT, VNCL	+ ↓	+ ↓
336	↓	↓	↓	↓	↓	+ ↓	+ ↓
367	↓	↓	↓	↓	↓	+ ↓	+ ↓
324	↓	↓	↓	↓	↓	+ ↓	+ ↓
242	351	↓	↓	WAC042611B	↓	+ ↓	+ ↓
83	↓	↓	↓	↓	↓	+ ↓	+ ↓
457	↓	↓	↓	↓	↓	+ ↓	+ ↓
139	↓	↓	↓	↓	↓	+ ↓	+ ↓
351	↓	↓	↓	↓	↓	+ ↓	+ ↓
429	325	↓	↓	WAC042611C	↓	+ ↓	+ ↓
556	↓	↓	↓	↓	↓	+ ↓	+ ↓
94	↓	↓	↓	↓	↓	+ ↓	+ ↓
92	↓	↓	↓	↓	↓	+ ↓	+ ↓
325	↓	↓	↓	↓	↓	+ ↓	+ ↓
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L.

Page # 202

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041909.D Vial: 5
Acq On : 19 Apr 2011 3:20 pm Operator: RJP
Sample : WAC041911A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 15:40:57 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

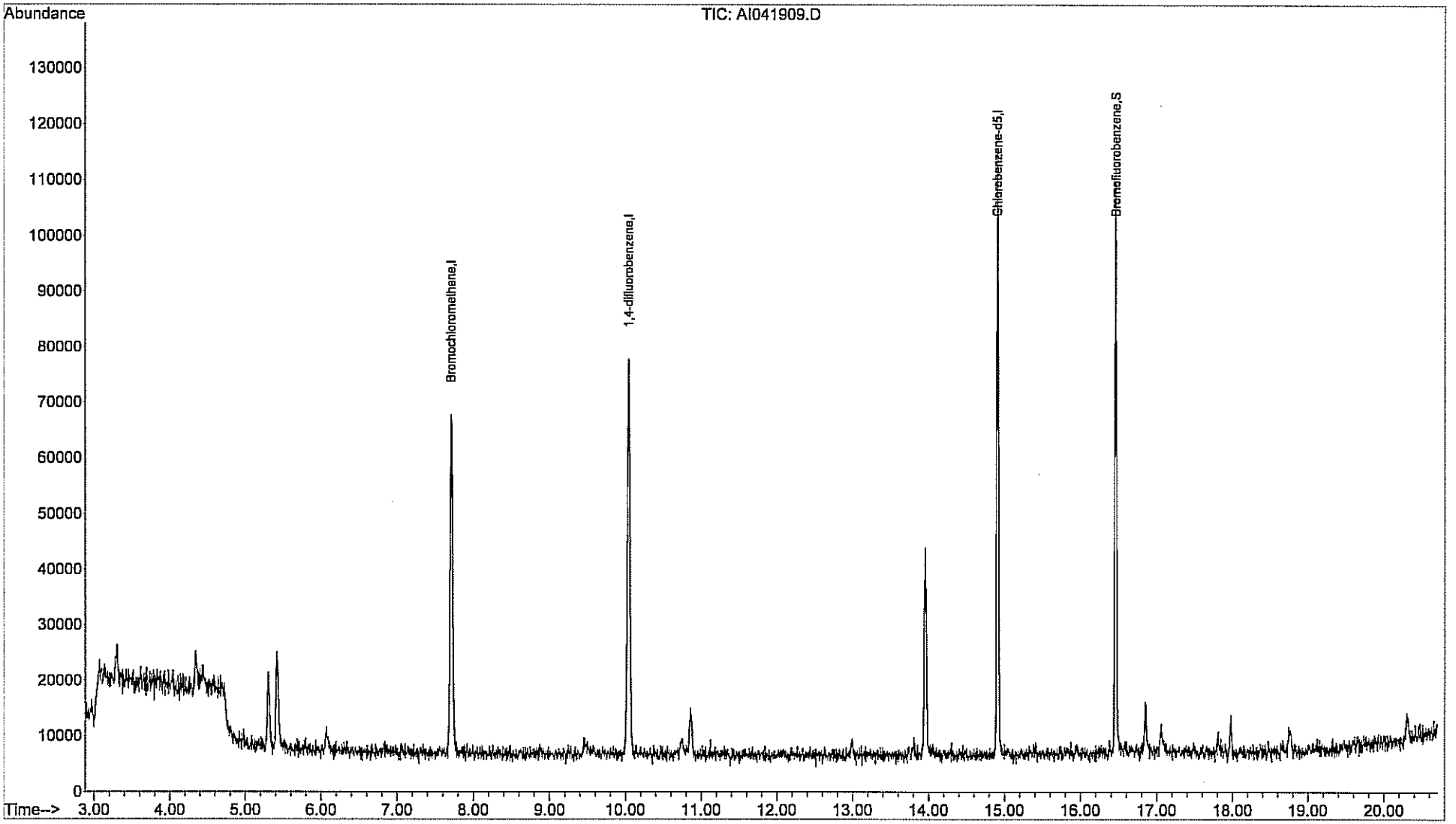
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	23852	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	71225	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	60971	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	28411	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041909.D A325_1UG.M Thu Jul 21 10:48:34 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041909.D Vial: 5
Acq On : 19 Apr 2011 3:20 pm Operator: RJP
Sample : WAC041911A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:26 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041910.D Vial: 6
Acq On : 19 Apr 2011 3:51 pm Operator: RJP
Sample : WAC041911B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 16:12:19 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

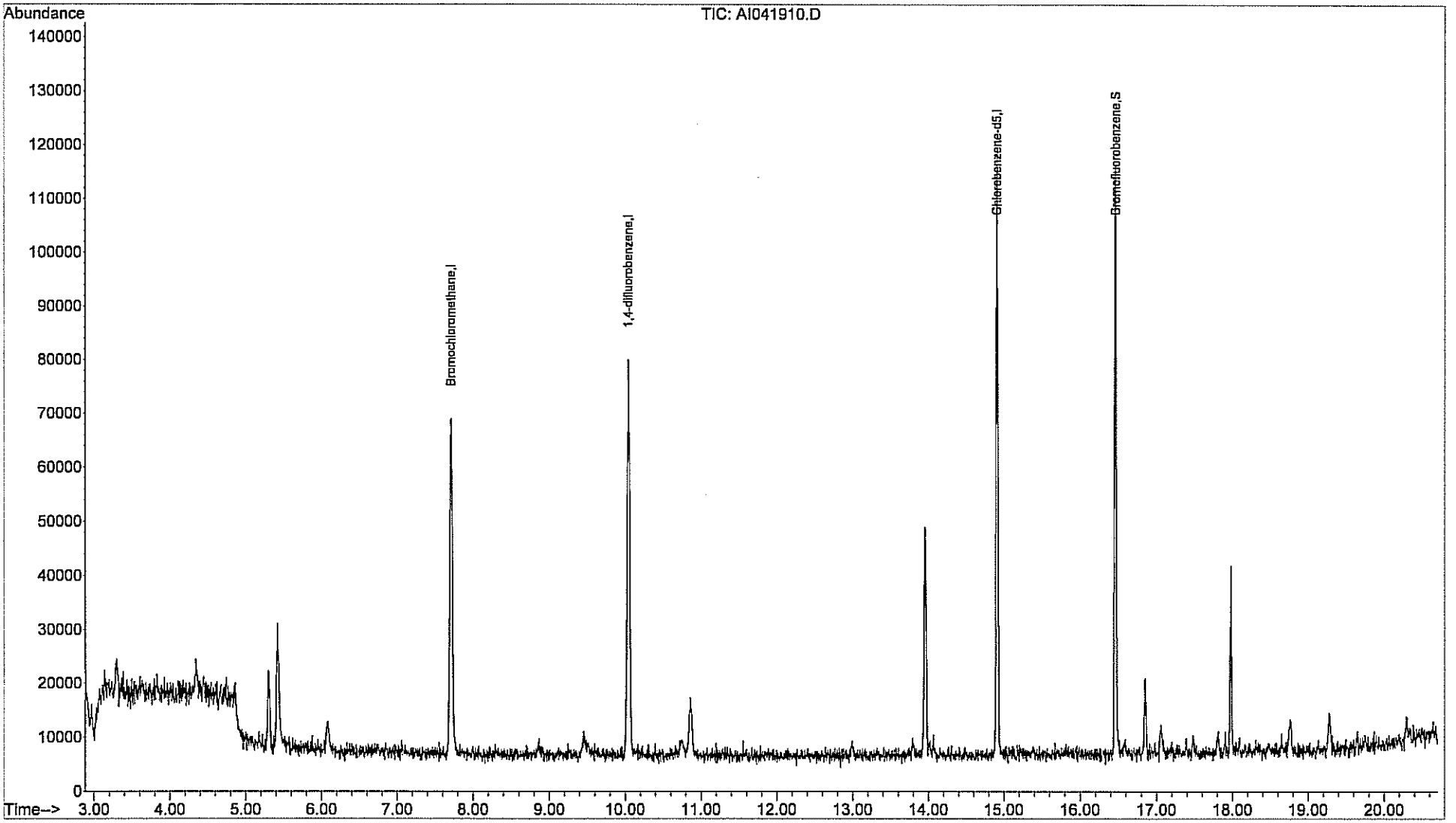
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	23749	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	73761	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	62794	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	30052	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041910.D A325_1UG.M Thu Jul 21 10:48:37 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041910.D Vial: 6
Acq On : 19 Apr 2011 3:51 pm Operator: RJP
Sample : WAC041911B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:26 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041911.D Vial: 7
Acq On : 19 Apr 2011 4:24 pm Operator: RJP
Sample : WAC041911C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 16:44:54 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

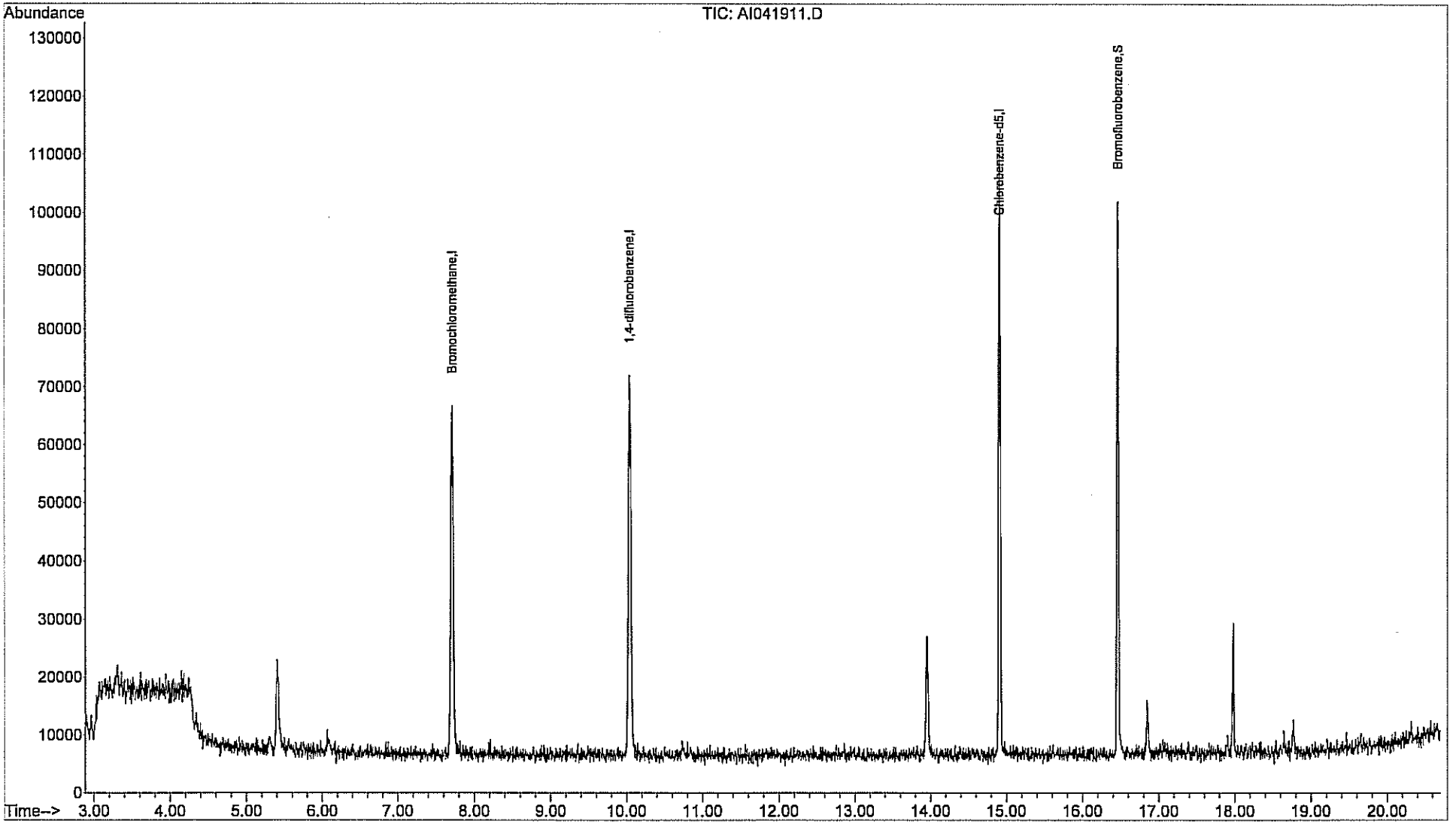
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	22803	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	69245	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	60217	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	27287	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041911.D A325_1UG.M Thu Jul 21 10:48:39 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041911.D Vial: 7
Acq On : 19 Apr 2011 4:24 pm Operator: RJP
Sample : WAC041911C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:27 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041912.D Vial: 8
Acq On : 19 Apr 2011 4:56 pm Operator: RJP
Sample : WAC041911D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 17:17:22 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

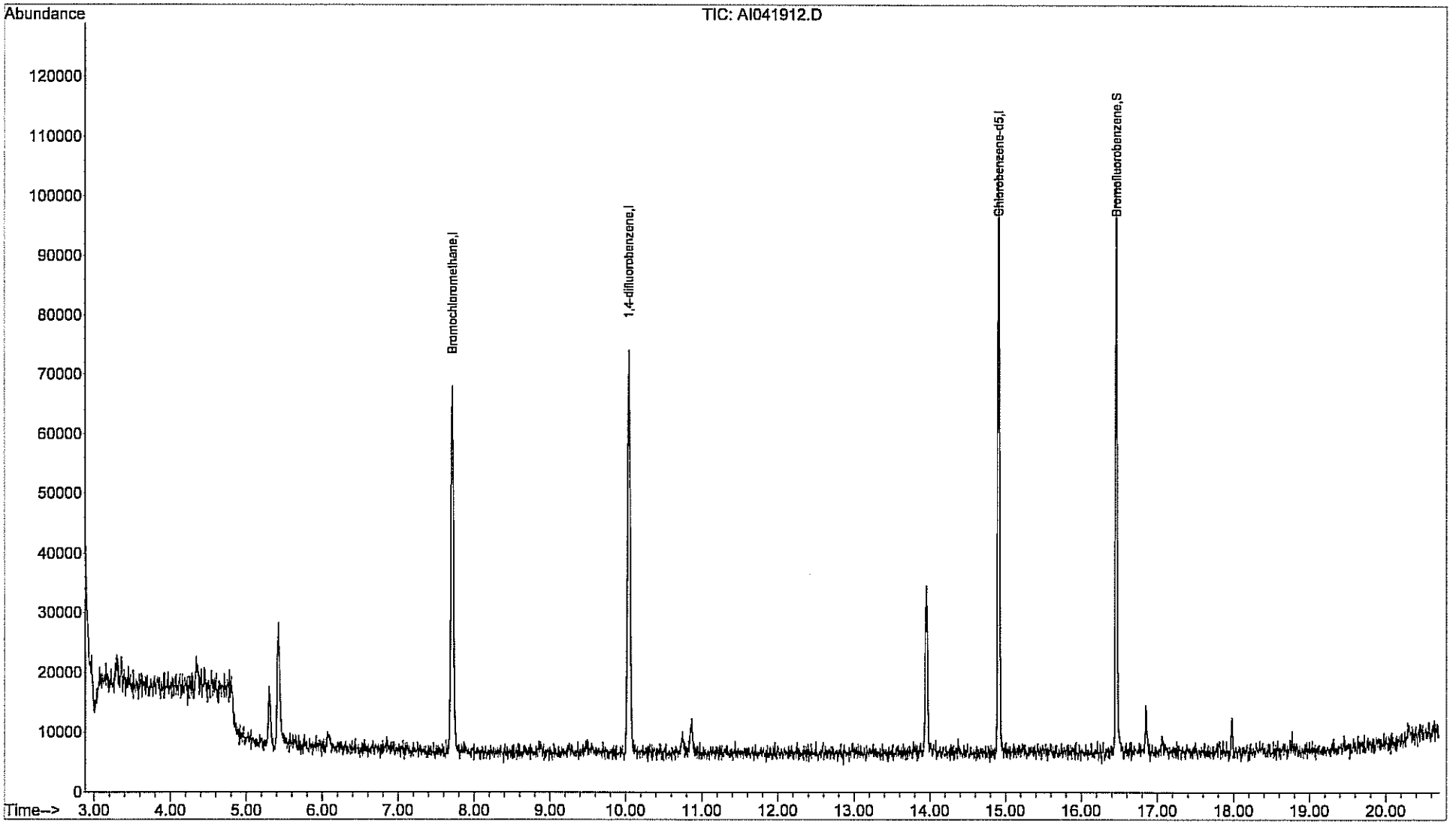
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	23151	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	70411	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	57860	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	27179	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041912.D A325_1UG.M Thu Jul 21 10:48:42 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041912.D Vial: 8
Acq On : 19 Apr 2011 4:56 pm Operator: RJP
Sample : WAC041911D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:27 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041913.D Vial: 9
Acq On : 19 Apr 2011 5:30 pm Operator: RJP
Sample : WAC041911E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 17:50:54 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

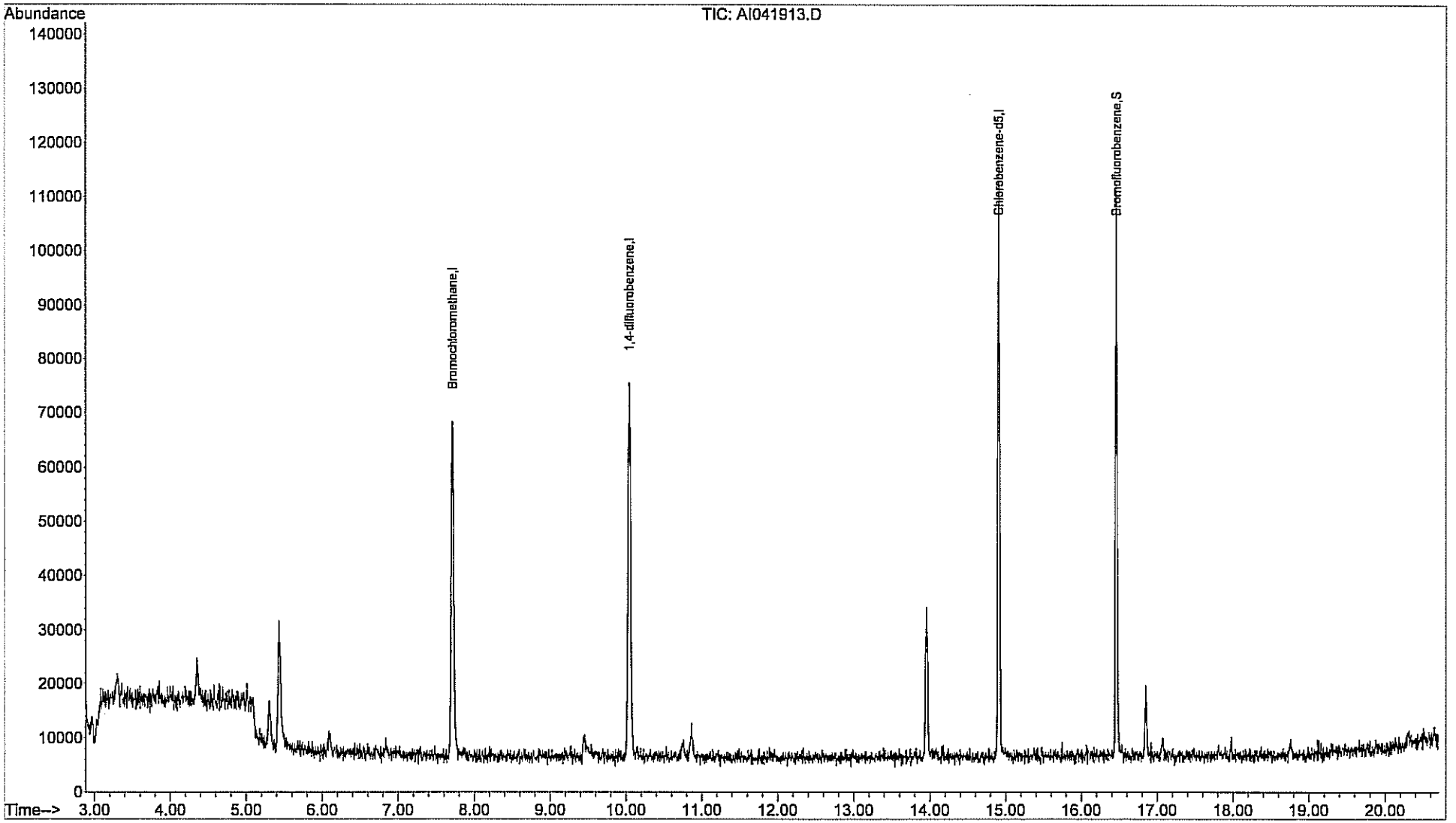
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	23424	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	73200	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	62007	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	29810	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041913.D Vial: 9
Acq On : 19 Apr 2011 5:30 pm Operator: RJP
Sample : WAC041911E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:27 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041914.D Vial: 10
Acq On : 19 Apr 2011 6:02 pm Operator: RJP
Sample : WAC041911F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 19 18:22:53 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

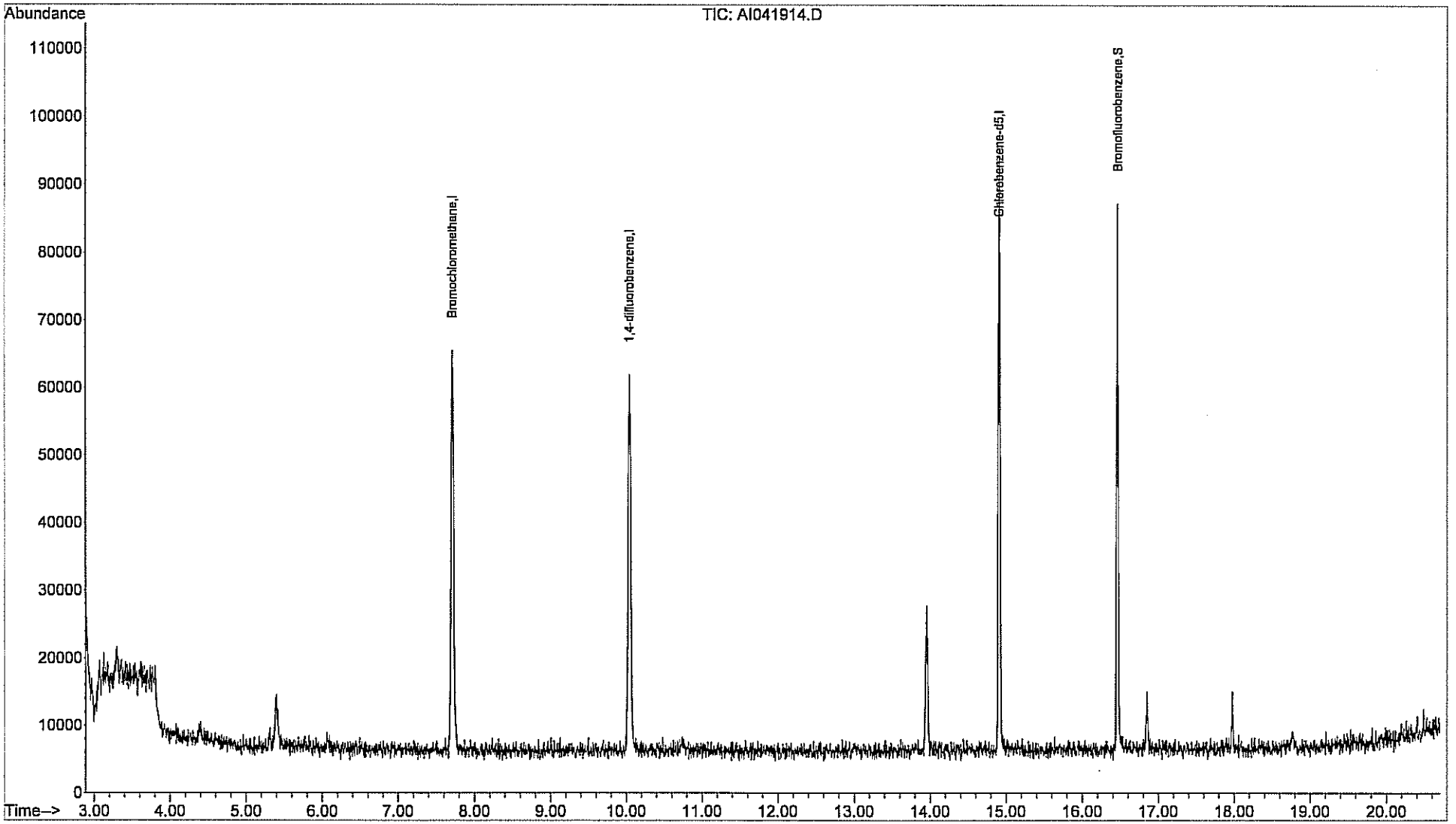
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	21951	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	59875	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	49960	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	21489	0.78	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 78.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI041914.D A325_1UG.M Thu Jul 21 10:48:48 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI041914.D Vial: 10
Acq On : 19 Apr 2011 6:02 pm Operator: RJP
Sample : WAC041911F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 6 17:27 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI042607.D Vial: 21
Acq On : 26 Apr 2011 2:33 pm Operator: RJP
Sample : WAC042611A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Apr 26 14:54:10 2011 Quant Results File: A325_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Apr 18 13:18:25 2011
Response via : Initial Calibration
DataAcq Meth : A325_1UG

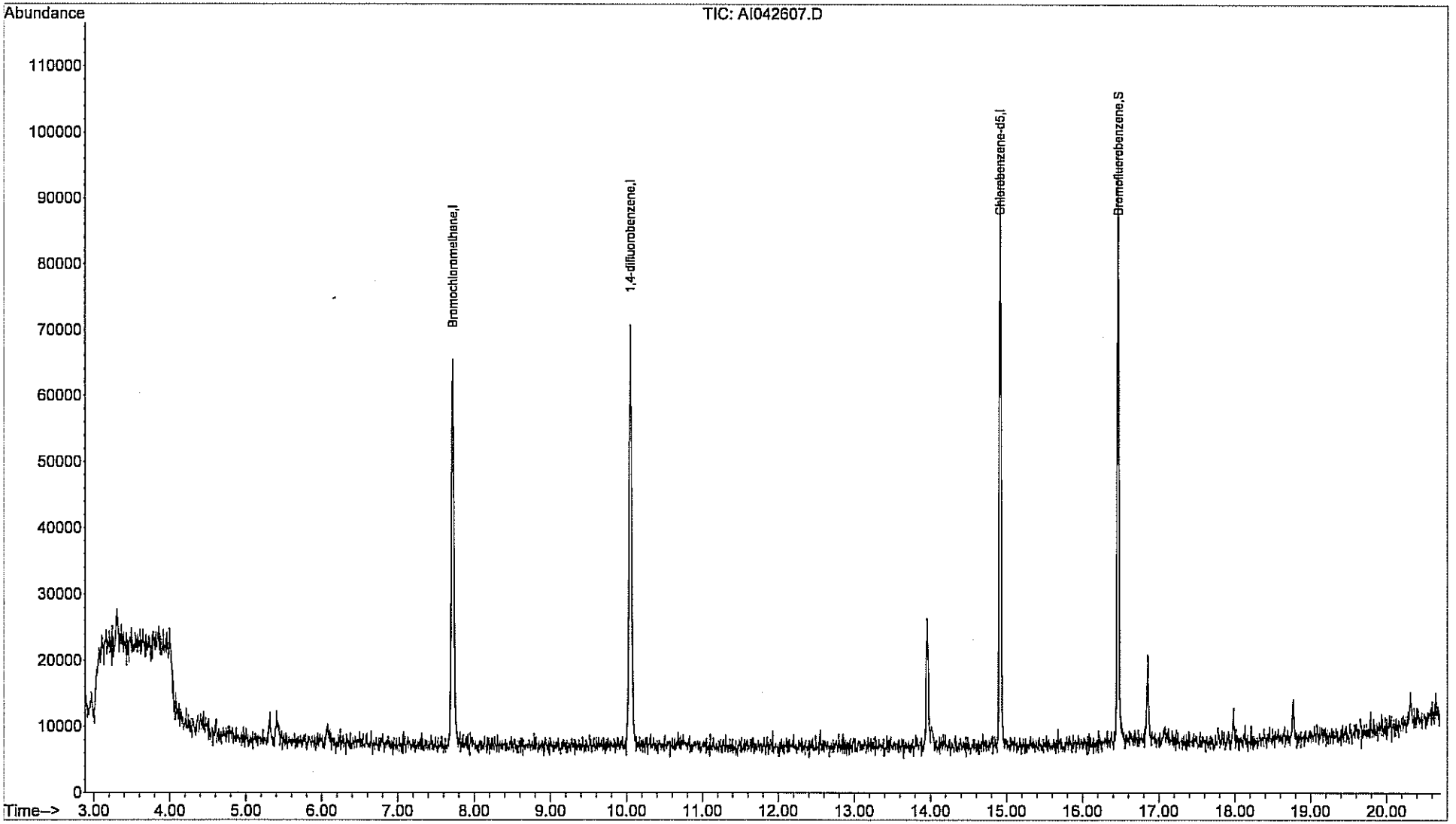
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.72	128	21507	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.05	114	63755	1.00	ppb	0.00
47) Chlorobenzene-d5	14.91	117	51001	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	25213	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI042607.D A325_1UG.M Thu Jul 21 10:48:50 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2011APR\AI042607.D Vial: 21
Acq On : 26 Apr 2011 2:33 pm Operator: RJP
Sample : WAC042611A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 17 11:50 2011 Quant Results File: A325_1UG.RES

Method : C:\HPCHEM\1\METHODS\A325_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jun 04 13:59:16 2011
Response via : Initial Calibration



Centek Laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Group Project: B774/B776 SSUM SDG: C1106012

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: NO MS/MSD
* SEE CASE NARRATIVE

Sample Raw Data	Present and Complete			
	Spectra present for all samples			

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B774/B776 SSVM SDG: C1106012

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete			✓

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: _____ Date: 7/21/11

QC Supervisor: _____ Date: 7/21/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Thursday, June 16, 2011
Order No.: C1106012

RE: B774/B776 SSVM

Dear Katrina Mattice:

Centek Laboratories, LLC received 3 sample(s) on 6/7/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *21-Jul-11*

CLIENT: FPM Group
Project: B774/B776 SSVM
Lab Order: C1106012

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2235] LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 09-Jun-11 **Corrective Action Report ID:** 2235

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-060911 did not meet criteria for RPD and % recoveries for several compounds. The LCSD did not reproduce. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 09-Jun-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 11-Jun-12

QA Officer Approval: Nick Scala **QA Date:** 11-Jun-12

Last Updated BY russ2 Updated: 21-Jul-2011 11:42 AM Reported: 21-Jul-2011 11:42 A

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B774 / B776 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: K. Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
774776CA01AA	774776-Influent	6/6	1415	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 350, PID = 3791 ppb
774776CA02AA	774776-Effluent	6/6	1420	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 357, PID = 0 ppb
060611TB	Trip Blank	6/6	1425	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 552

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1106012

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 6/6/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1700	Company Name:	Time:
#1 Received by: (Sig) Mike Grifasi	Date: 6/6/11	#2 Received by: (Sig) Jan Loola	Date: 6/7/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 0830	Company Name:	Time: 1000	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: **FPM-ROME** Date and Time Received **6/7/2011**

Work Order Number **C1106012** Received by: JDS

Checklist completed by Signature 6/7/11 Date Reviewed by Initials 6/7/11 Date

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section bel

Client contacted: _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

CENTEK LABORATORIES, LLC

Date: *21-Jul-11*

CLIENT: FPM Group
Project: B774/B776 SSVM
Lab Order: C1106012

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1106012-001A	774776CA01AA	350,	6/6/2011	6/7/2011
C1106012-002A	774776CA02AA	357	6/6/2011	6/7/2011
C1106012-003A	TRIP BLANK	552	6/6/2011	6/7/2011

Centek Laboratories, LLC *21-Jul-11*

Lab Order: C1106012
Client: FPM Group
Project: B774/B776 SSVM

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1106012-001A	774776CA01AA	6/6/2011	Air	1ug/M3 by Method TO15			6/13/2011
				1ug/M3 by Method TO15			6/10/2011
				1ug/M3 by Method TO15			6/9/2011
C1106012-002A	774776CA02AA			1ug/M3 by Method TO15			6/13/2011
				1ug/M3 by Method TO15			6/10/2011
				1ug/M3 by Method TO15			6/9/2011
C1106012-003A	TRIP BLANK			1ug/M3 by Method TO15			6/9/2011

Centek Laboratories, LLC

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1106012-001A	Login	6/7/2011 1:44:26 PM	jans	Sample Log In
C1106012-003A	Login	6/7/2011 1:46:47 PM	jans	Sample Log In
C1106012-002A	Login	6/7/2011 1:46:47 PM	jans	Sample Log In
C1106012-001A	Transfer	6/9/2011 11:43:47 AM	ADM	GC/MS Lab
C1106012-002A	Transfer	6/9/2011 11:43:47 AM	ADM	GC/MS Lab
C1106012-003A	Transfer	6/9/2011 11:43:47 AM	ADM	GC/MS Lab
C1106012-001A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed
C1106012-002A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed
C1106012-003A	Mark as Consumed	6/14/2011 1:23:12 PM	ADM	Consumed

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2380

21-Jul-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 6/6/2011
VIA:
Due Date:

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	3

Can / Reg ID	Description
350	1L Mini-Can - 1272
357	1L Mini-Can - 1306
801	Shipping Cooler S
352	1L Mini-Can - 1301

Comments: 2 (1L) w QG + ITB WAC 051711 AA- AC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	1.9	1.5		ppbV	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	6/9/2011 9:24:00 PM
Acetone	21	3.0		ppbV	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Benzene	0.14	0.15	J	ppbV	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroform	3.0	1.5		ppbV	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	0.44	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.14	0.15	J	ppbV	1	6/9/2011 9:24:00 PM
Freon 11	8.8	1.5		ppbV	10	6/13/2011 12:30:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 12	0.74	0.15		ppbV	1	6/9/2011 9:24:00 PM
Heptane	0.20	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
m&p-Xylene	0.29	0.30	J	ppbV	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	4.8	3.0		ppbV	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Methylene chloride	0.63	0.15		ppbV	1	6/9/2011 9:24:00 PM
o-Xylene	0.19	0.15		ppbV	1	6/9/2011 9:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	0.50	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	41	6.0		ppbV	40	6/10/2011 2:23:00 AM
Toluene	0.48	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Trichloroethene	94	6.0		ppbV	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.6	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	9.5	7.5		ug/m3	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	4.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 9:24:00 PM
4-ethyltoluene	6.9	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Acetone	50	7.2		ug/m3	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 9:24:00 PM
Benzene	0.45	0.49	J	ug/m3	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.73	0.47		ug/m3	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 9:24:00 PM
Chloroform	15	7.4		ug/m3	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	1.8	0.60		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
Ethylbenzene	0.62	0.66	J	ug/m3	1	6/9/2011 9:24:00 PM
Freon 11	50	8.6		ug/m3	10	6/13/2011 12:30:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Heptane	0.83	0.62		ug/m3	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 9:24:00 PM
m&p-Xylene	1.3	1.3	J	ug/m3	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	14	9.0		ug/m3	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 9:24:00 PM
Methylene chloride	2.2	0.53		ug/m3	1	6/9/2011 9:24:00 PM
o-Xylene	0.84	0.66		ug/m3	1	6/9/2011 9:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 9:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	3.4	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	120	18		ug/m3	40	6/10/2011 2:23:00 AM
Toluene	1.8	0.57		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Trichloroethene	510	33		ug/m3	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	6.2	1.5		ppbV	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	1.9	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.14	0.15	J	ppbV	1	6/9/2011 8:46:00 PM
4-ethyltoluene	2.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Acetone	64	27		ppbV	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroform	0.39	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	1.2	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.72	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 11	0.32	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Heptane	1.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
m&p-Xylene	0.93	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	1.2	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	8.6	3.0		ppbV	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Methylene chloride	7.0	1.5		ppbV	10	6/10/2011 12:31:00 AM
o-Xylene	0.58	0.15		ppbV	1	6/9/2011 8:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Toluene	3.8	1.5		ppbV	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Trichloroethene	8.6	1.5		ppbV	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Surr: Bromofluorobenzene	129	70-130		%REC	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	31	7.5		ug/m3	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	9.4	0.75		ug/m3	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.66	0.71	J	ug/m3	1	6/9/2011 8:46:00 PM
4-ethyltoluene	11	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Acetone	150	65		ug/m3	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:46:00 PM
Benzene	0.71	0.49		ug/m3	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:46:00 PM
Chloroform	1.9	0.74		ug/m3	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	4.8	0.60		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Freon 11	1.8	0.86		ug/m3	1	6/9/2011 8:46:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Heptane	4.4	0.62		ug/m3	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:46:00 PM
m&p-Xylene	4.1	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	5.0	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	26	9.0		ug/m3	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:46:00 PM
Methylene chloride	25	5.3		ug/m3	10	6/10/2011 12:31:00 AM
o-Xylene	2.6	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	1.5	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:46:00 PM
Toluene	15	5.7		ug/m3	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Trichloroethene	47	8.2		ug/m3	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:07:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.32	0.47	J	ug/m3	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:07:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 06-Jul-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-060911	113							
ALCS1UG-061311	111							
ALCS1UGD-060911	114							
AMB1UG-060911	96.0							
AMB1UG-061311	92.0							
C1106012-001A	117							
C1106012-002A	129							
C1106012-003A	97.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\HPCHEM\1\DATA\AI060903.D
Tune Time : 9 Jun 2011 11:30 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI060903.D

			(BFB)	(IS1)	(IS2)	(IS3)
				36570	100404	97689
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI060904.D	ALCS1UG-060911		113	35439	93734	92053
AI060905.D	AMB1UG-060911		96	36521	94114	88931
AI060914.D	C1106012-003A		97	33477	84202	81323
AI060915.D	C1106012-002A		129	36497	94346	106846
AI060916.D	C1106012-001A		117	36434	106923	97532
AI060921.D	C1106012-002A	10x	106	35231	86170	82537
AI060924.D	C1106012-001A	40x	98	33537	76272	74560
AI060925.D	ALCS1UGD-060911		114	36425	89985	89708

t - fails 24hr time check * - fails criteria

Created: Wed Jul 06 18:20:45 2011 MSD #1/

Centek Laboratories, LLC

Tune File : C:\HPCHEM\1\DATA\AI061302.D
Tune Time : 13 Jun 2011 10:29 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI061302.D

			(BFB)	(IS1)	(IS2)	(IS3)
				34653	100100	99980
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI061303.D	ALCS1UG-061311		111	36093	103158	98686
AI061304.D	AMB1UG-061311		92	34780	81235	78190
AI061305.D	C1106012-001A	10X	105	34215	90143	82429
AI061306.D	C1106012-002A	90X	96	33392	76048	74650

t - fails 24hr time check * - fails criteria

Created: Wed Jul 06 18:22:41 2011 MSD #1/

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-060911** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4622**
Client ID: **ZZZZZ** Batch ID: **R4622** TestNo: **TO-15** Analysis Date: **6/9/2011** SeqNo: **55152**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.060	0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	70	130				
1,2,4-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130				
1,3,5-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,3-butadiene	1.160	0.15	1	0	116	70	130				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.200	0.15	1	0	120	70	130				
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	0.8900	0.15	1	0	89.0	70	130				
Benzene	1.110	0.15	1	0	111	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	1.040	0.15	1	0	104	70	130				
Bromoform	1.050	0.15	1	0	105	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130				
Carbon tetrachloride	0.9500	0.15	1	0	95.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.060	0.15	1	0	106	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	1.190	0.15	1	0	119	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	1.090	0.25	1	0	109	70	130				
Ethylbenzene	1.090	0.15	1	0	109	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	1.080	0.15	1	0	108	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	1.130	0.15	1	0	113	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.190	0.15	1	0	119	70	130				
Isopropyl alcohol	1.180	0.15	1	0	118	70	130				
m&p-Xylene	2.390	0.30	2	0	120	70	130				
Methyl Butyl Ketone	0.8000	0.30	1	0	80.0	70	130				
Methyl Ethyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	1.120	0.15	1	0	112	70	130				
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	1.270	0.15	1	0	127	70	130				
Propylene	1.110	0.15	1	0	111	70	130				
Styrene	1.100	0.15	1	0	110	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.050	0.15	1	0	105	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.110	0.15	1	0	111	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.030	0.15	1	0	103	70	130				

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	70	130				
1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	0.9200	0.15	1	0	92.0	70	130				
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene	0.8400	0.15	1	0	84.0	70	130				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-061311 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4623
Client ID: ZZZZZ Batch ID: R4623 TestNo: TO-15 Analysis Date: 6/13/2011 SeqNo: 55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.010	0.30	1	0	101	70	130				
Allyl chloride	0.9200	0.15	1	0	92.0	70	130				
Benzene	0.9500	0.15	1	0	95.0	70	130				
Benzyl chloride	1.020	0.15	1	0	102	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.000	0.15	1	0	100	70	130				
Carbon disulfide	1.190	0.15	1	0	119	70	130				
Carbon tetrachloride	0.8200	0.15	1	0	82.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.9500	0.15	1	0	95.0	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8700	0.15	1	0	87.0	70	130				
Ethyl acetate	1.080	0.25	1	0	108	70	130				
Ethylbenzene	0.9500	0.15	1	0	95.0	70	130				
Freon 11	0.9700	0.15	1	0	97.0	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9500	0.15	1	0	95.0	70	130				
Hexachloro-1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
Hexane	1.090	0.15	1	0	109	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.940	0.30	2	0	97.0	70	130				
Methyl Butyl Ketone	0.8200	0.30	1	0	82.0	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-061311 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4623
Client ID: ZZZZZ Batch ID: R4623 TestNo: TO-15 Analysis Date: 6/13/2011 SeqNo: 55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.050	0.15	1	0	105	70	130				
Methylene chloride	0.9300	0.15	1	0	93.0	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9900	0.15	1	0	99.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8900	0.15	1	0	89.0	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
trans-1,3-Dichloropropene	0.8600	0.15	1	0	86.0	70	130				
Trichloroethene	0.8600	0.15	1	0	86.0	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	0.9800	0.15	1	0	98.0	70	130				
Vinyl chloride	0.9500	0.15	1	0	95.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-060911	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/10/2011	SeqNo: 55153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9600	0.15	1	0	96.0	70	130	1.03	7.04	30	
1,1,2,2-Tetrachloroethane	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130	1.06	14.1	30	
1,1-Dichloroethane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	30	
1,1-Dichloroethene	0.8800	0.15	1	0	88.0	70	130	1.06	18.6	30	
1,2,4-Trichlorobenzene	1.010	0.15	1	0	101	70	130	1.28	23.6	30	
1,2,4-Trimethylbenzene	0.8000	0.15	1	0	80.0	70	130	1.23	42.4	30	R
1,2-Dibromoethane	0.9000	0.15	1	0	90.0	70	130	1.06	16.3	30	
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	1.17	30.5	30	R
1,2-Dichloroethane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	30	
1,2-Dichloropropane	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	1.23	38.8	30	R
1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	1.16	37.9	30	R
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	1.15	25.5	30	
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	1.17	27.2	30	
1,4-Dioxane	0.7500	0.30	1	0	75.0	70	130	0.95	23.5	30	
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130	1.13	17.3	30	
4-ethyltoluene	0.8100	0.15	1	0	81.0	70	130	1.2	38.8	30	R
Acetone	1.040	0.30	1	0	104	70	130	1.12	7.41	30	
Allyl chloride	0.7900	0.15	1	0	79.0	70	130	0.89	11.9	30	
Benzene	0.9600	0.15	1	0	96.0	70	130	1.11	14.5	30	
Benzyl chloride	0.8400	0.15	1	0	84.0	70	130	1.24	38.5	30	R
Bromodichloromethane	0.9600	0.15	1	0	96.0	70	130	1.04	8.00	30	
Bromoform	0.9200	0.15	1	0	92.0	70	130	1.05	13.2	30	
Bromomethane	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID: ALCS1UGD-060911	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/10/2011	SeqNo: 55153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130	0.87	18.9	30	
Carbon tetrachloride	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	30	
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130	1.08	18.2	30	
Chloroethane	0.9000	0.15	1	0	90.0	70	130	1.11	20.9	30	
Chloroform	0.9100	0.15	1	0	91.0	70	130	1.08	17.1	30	
Chloromethane	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
cis-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130	1.11	22.0	30	
cis-1,3-Dichloropropene	0.9100	0.15	1	0	91.0	70	130	1.11	19.8	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.19	24.5	30	
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130	1.03	13.5	30	
Ethyl acetate	0.8600	0.25	1	0	86.0	70	130	1.09	23.6	30	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	1.09	24.7	30	
Freon 11	0.9400	0.15	1	0	94.0	70	130	1.08	13.9	30	
Freon 113	0.9300	0.15	1	0	93.0	70	130	1.08	14.9	30	
Freon 114	0.9400	0.15	1	0	94.0	70	130	1.11	16.6	30	
Freon 12	0.9200	0.15	1	0	92.0	70	130	1.07	15.1	30	
Heptane	0.9200	0.15	1	0	92.0	70	130	1.13	20.5	30	
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130	1.18	24.8	30	
Hexane	0.9300	0.15	1	0	93.0	70	130	1.19	24.5	30	
Isopropyl alcohol	0.8600	0.15	1	0	86.0	70	130	1.18	31.4	30	R
m&p-Xylene	1.760	0.30	2	0	88.0	70	130	2.39	30.4	30	R
Methyl Butyl Ketone	0.9600	0.30	1	0	96.0	70	130	0.8	18.2	30	
Methyl Ethyl Ketone	0.8100	0.30	1	0	81.0	70	130	1.17	36.4	30	R
Methyl Isobutyl Ketone	0.7500	0.30	1	0	75.0	70	130	1	28.6	30	
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	70	130	1.12	21.8	30	
Methylene chloride	0.7700	0.15	1	0	77.0	70	130	0.81	5.06	30	
o-Xylene	0.9600	0.15	1	0	96.0	70	130	1.27	27.8	30	
Propylene	0.8800	0.15	1	0	88.0	70	130	1.11	23.1	30	
Styrene	0.8700	0.15	1	0	87.0	70	130	1.1	23.4	30	
Tetrachloroethylene	0.9000	0.15	1	0	90.0	70	130	1.05	15.4	30	
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130	1.05	19.9	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-060911	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4622
Client ID:	ZZZZZ	Batch ID:	R4622	TestNo:	TO-15			Analysis Date:	6/10/2011	SeqNo:	55153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9000	0.15	1	0	90.0	70	130	1.17	26.1	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.11	19.8	30	
trans-1,3-Dichloropropene	0.8900	0.15	1	0	89.0	70	130	1.09	20.2	30	
Trichloroethene	0.8900	0.15	1	0	89.0	70	130	1.01	12.6	30	
Vinyl acetate	0.8800	0.15	1	0	88.0	70	130	1.11	23.1	30	
Vinyl Bromide	0.9200	0.15	1	0	92.0	70	130	1.09	16.9	30	
Vinyl chloride	0.8900	0.15	1	0	89.0	70	130	1.03	14.6	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-060911	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-060911	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4622
Client ID:	ZZZZZ	Batch ID:	R4622	TestNo:	TO-15			Analysis Date:	6/9/2011	SeqNo:	55151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-060911	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek Laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek Laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	1.9	1.5		ppbV	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	6/9/2011 9:24:00 PM
Acetone	21	3.0		ppbV	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Benzene	0.14	0.15	J	ppbV	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroform	3.0	1.5		ppbV	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	0.44	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.14	0.15	J	ppbV	1	6/9/2011 9:24:00 PM
Freon 11	8.8	1.5		ppbV	10	6/13/2011 12:30:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 12	0.74	0.15		ppbV	1	6/9/2011 9:24:00 PM
Heptane	0.20	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
m&p-Xylene	0.29	0.30	J	ppbV	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	4.8	3.0		ppbV	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Methylene chloride	0.63	0.15		ppbV	1	6/9/2011 9:24:00 PM
o-Xylene	0.19	0.15		ppbV	1	6/9/2011 9:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	0.50	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	41	6.0		ppbV	40	6/10/2011 2:23:00 AM
Toluene	0.48	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Trichloroethene	94	6.0		ppbV	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.6	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	9.5	7.5		ug/m3	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	4.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 9:24:00 PM
4-ethyltoluene	6.9	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Acetone	50	7.2		ug/m3	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 9:24:00 PM
Benzene	0.45	0.49	J	ug/m3	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.73	0.47		ug/m3	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 9:24:00 PM
Chloroform	15	7.4		ug/m3	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	1.8	0.60		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
Ethylbenzene	0.62	0.66	J	ug/m3	1	6/9/2011 9:24:00 PM
Freon 11	50	8.6		ug/m3	10	6/13/2011 12:30:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Heptane	0.83	0.62		ug/m3	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 9:24:00 PM
m&p-Xylene	1.3	1.3	J	ug/m3	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	14	9.0		ug/m3	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 9:24:00 PM
Methylene chloride	2.2	0.53		ug/m3	1	6/9/2011 9:24:00 PM
o-Xylene	0.84	0.66		ug/m3	1	6/9/2011 9:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 9:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	3.4	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	120	18		ug/m3	40	6/10/2011 2:23:00 AM
Toluene	1.8	0.57		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Trichloroethene	510	33		ug/m3	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 9:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060916.D Vial: 32
Acq On : 9 Jun 2011 9:24 pm Operator: RJP
Sample : C1106012-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 21:45:38 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	36434	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	106923	1.00	ppb		0.00
47) Chlorobenzene-d5	14.93	117	97532	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.48	95	48994m	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
3) Freon 12	3.00	85	92077	0.74	ppb		99
13) Freon 11	4.19	101	694843	8.16	ppb		98
14) Acetone	4.42	58	160501	18.38	ppb	#	76
18) Methylene chloride	5.21	84	17410	0.63	ppb		96
20) Carbon disulfide	5.32	76	21563	0.23	ppb		93
25) Methyl Ethyl Ketone	7.00	72	34754	4.21	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	16004	0.44	ppb		98
29) Chloroform	7.91	83	252985	2.81	ppb		99
30) Tetrahydrofuran	8.10	42	1317907	87.35	ppb		87
33) 1,1,1-trichloroethane	8.69	97	133827	1.19	ppb		100
36) Benzene	9.30	78	14376	0.14	ppb		96
40) Heptane	10.69	43	6464	0.20	ppb	#	80
41) Trichloroethene	10.77	130	6063409	97.73	ppb		100
48) Toluene	13.02	92	23161	0.48	ppb		94
53) Tetrachloroethylene	14.03	164	30159	0.50	ppb		94
55) Ethylbenzene	15.24	91	10891	0.14	ppb		98
56) m&p-xylene	15.40	91	19509	0.29	ppb		99
59) o-xylene	15.86	91	15438	0.19	ppb		94
63) 4-ethyltoluene	17.04	105	85116	1.39	ppb		98
64) 1,3,5-trimethylbenzene	17.10	105	66817	0.95	ppb		94
65) 1,2,4-trimethylbenzene	17.50	105	134825	2.82	ppb		99

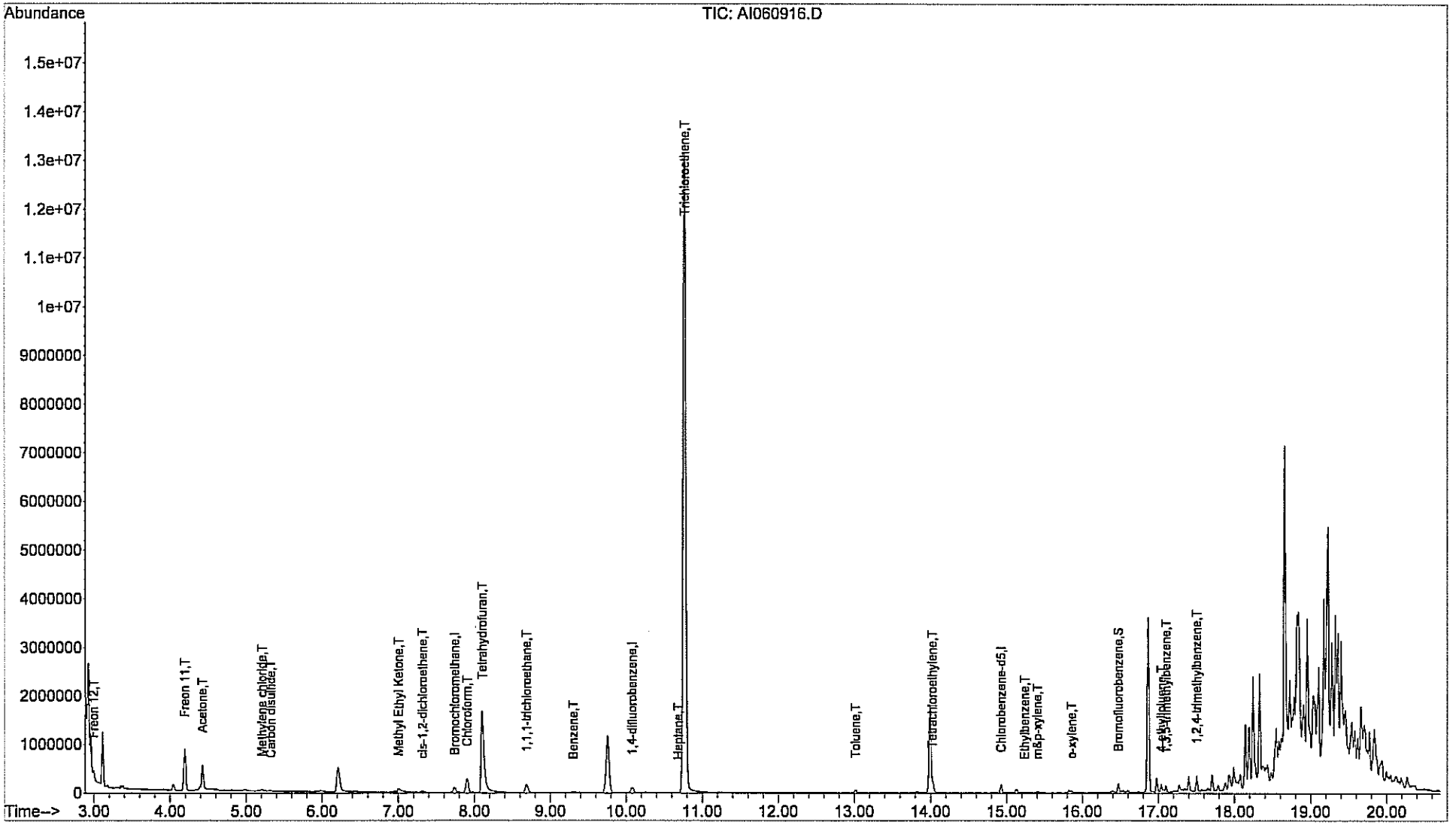
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

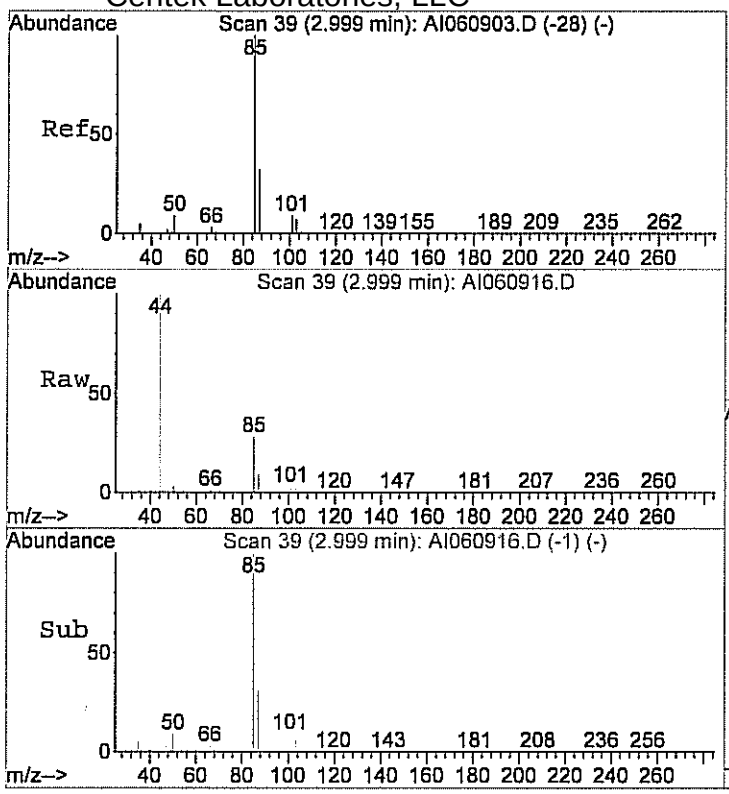
Data File : C:\HPCHEM\1\DATA\AI060916.D
Acq On : 9 Jun 2011 9:24 pm
Sample : C1106012-001A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 16 10:35 2011

Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



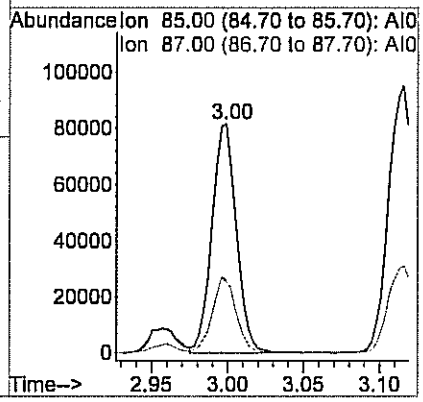
Centek Laboratories, LLC

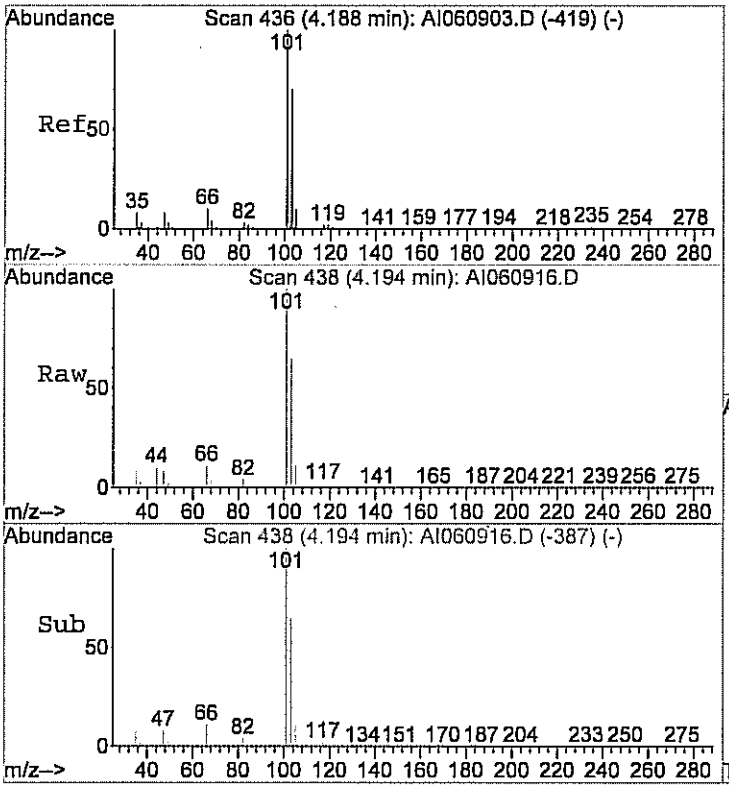


#3
Freon 12
Concen: 0.74 ppb
RT: 3.00 min Scan# 39
Delta R.T. -0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 85 Resp: 92077

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.5	52.5

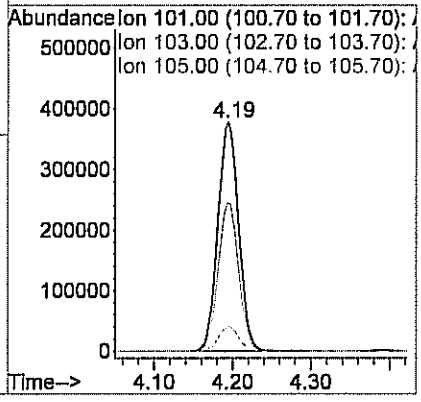


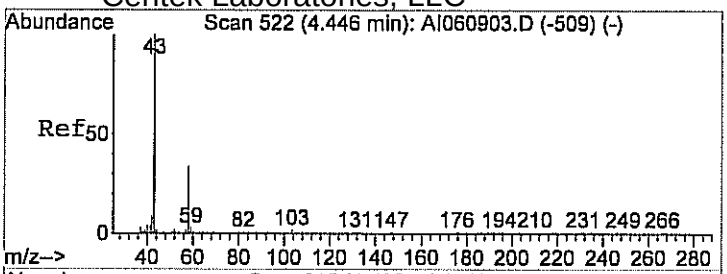


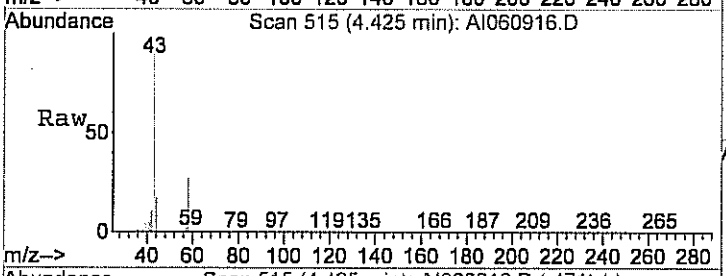
#13
Freon 11
Concen: 8.16 ppb
RT: 4.19 min Scan# 438
Delta R.T. 0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

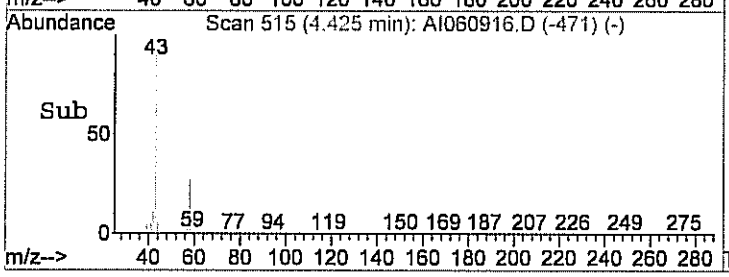
Tgt Ion:101 Resp: 694843

Ion	Ratio	Lower	Upper
101	100		
103	65.1	46.5	86.5
105	10.8	0.0	31.6





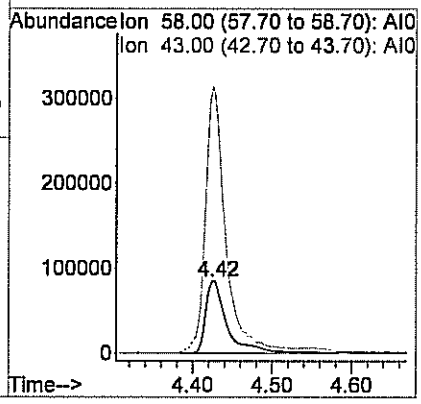


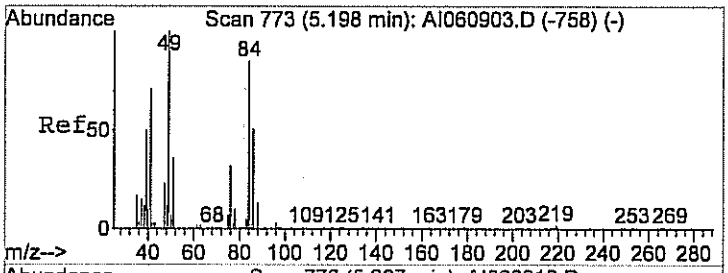


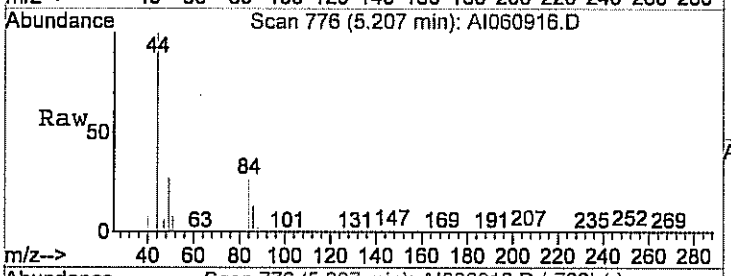
#14
Acetone
Concen: 18.38 ppb
RT: 4.42 min Scan# 515
Delta R.T. -0.02 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

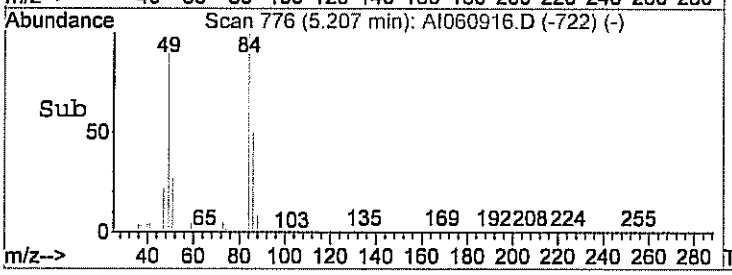
Tgt Ion: 58 Resp: 160501

Ion	Ratio	Lower	Upper
58	100		
43	360.3	282.0	342.0#





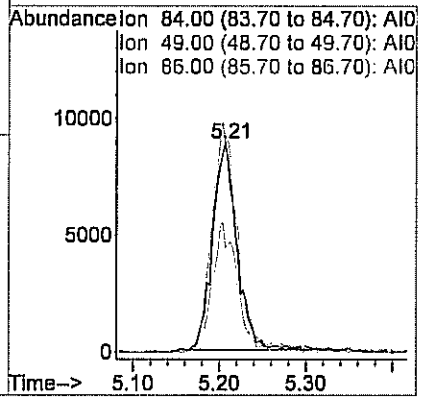


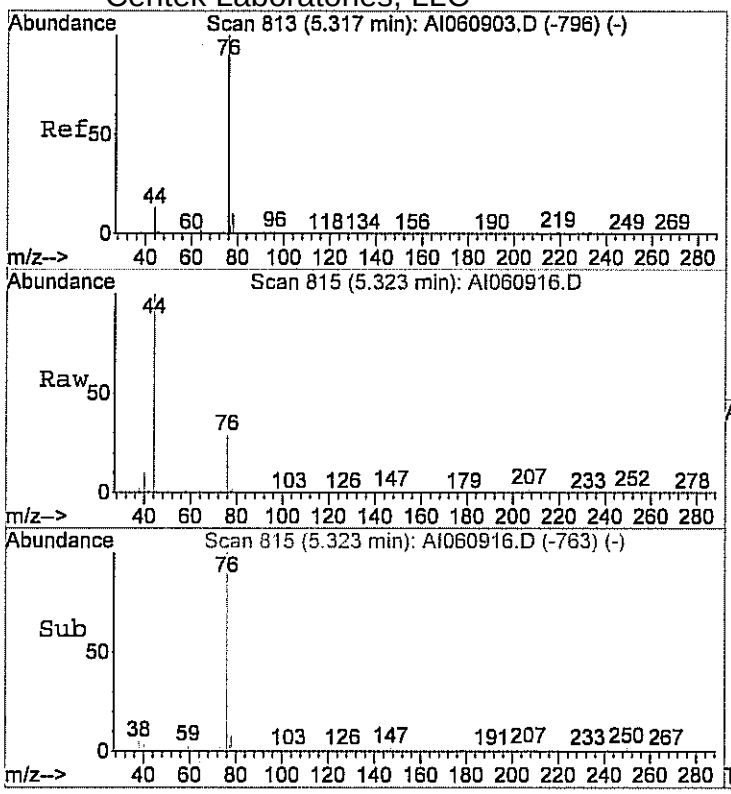


#18
Methylene chloride
Concen: 0.63 ppb
RT: 5.21 min Scan# 776
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 84 Resp: 17410

Ion	Ratio	Lower	Upper
84	100		
49	119.6	105.0	145.0
86	66.4	43.4	83.4

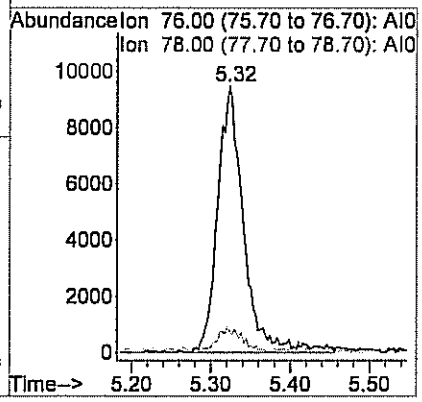


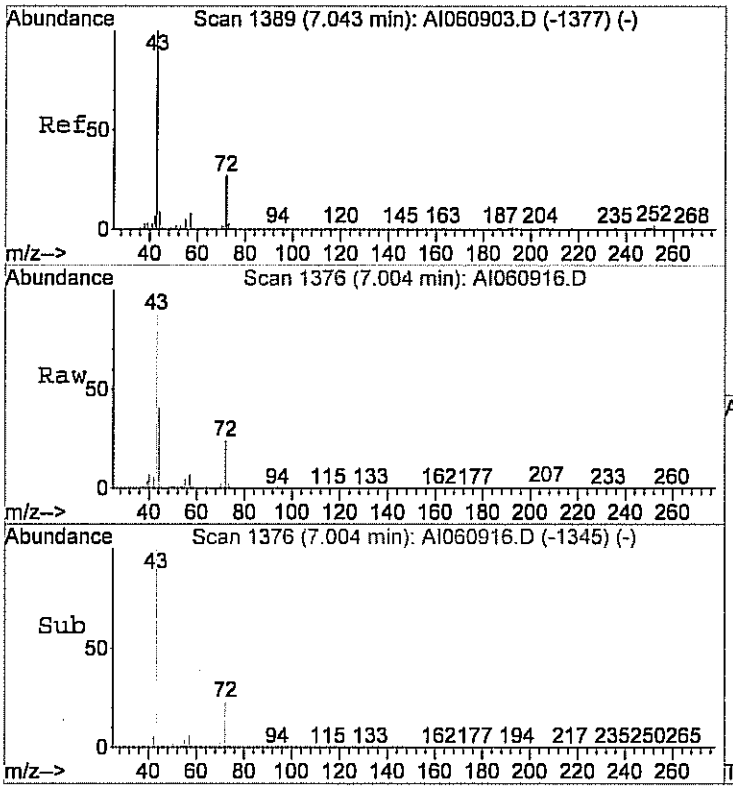


#20
Carbon disulfide
Concen: 0.23 ppb
RT: 5.32 min Scan# 815
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 76 Resp: 21563

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	31.9

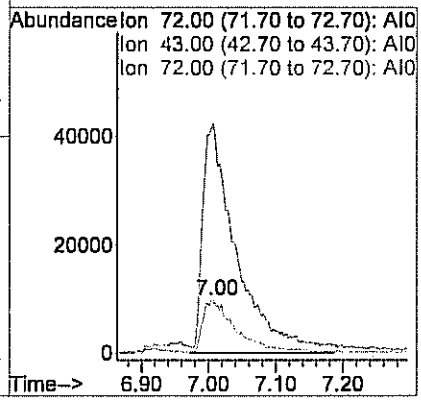


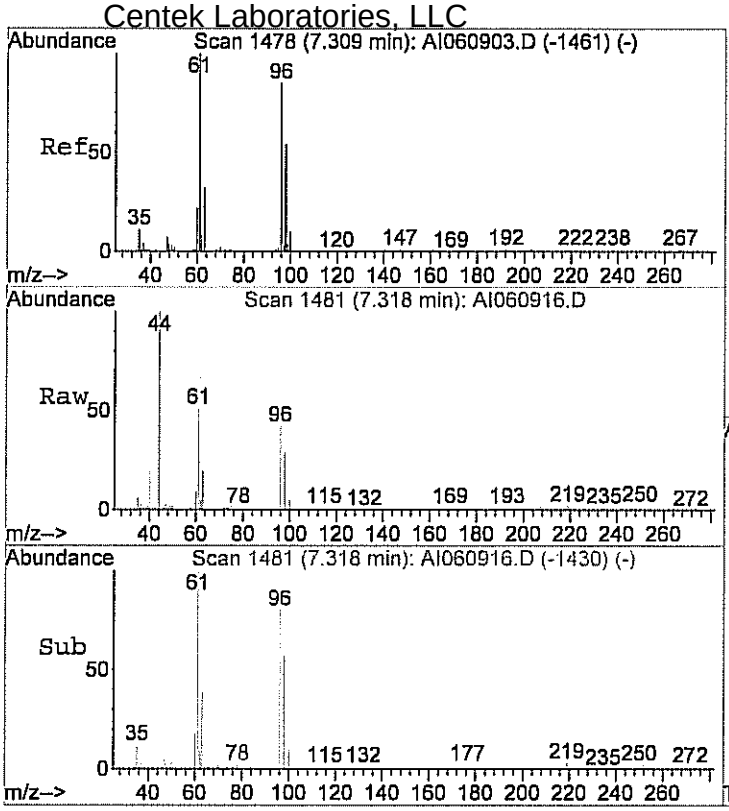


#25
Methyl Ethyl Ketone
Concen: 4.21 ppb
RT: 7.00 min Scan# 1376
Delta R.T. -0.06 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 72 Resp: 34754

Ion	Ratio	Lower	Upper
72	100		
43	394.9	0.0	20.0#
72	100.0	66.2	106.2

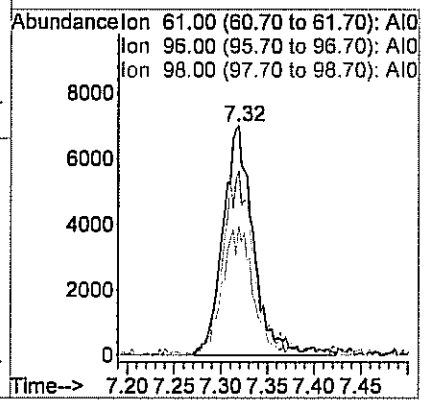


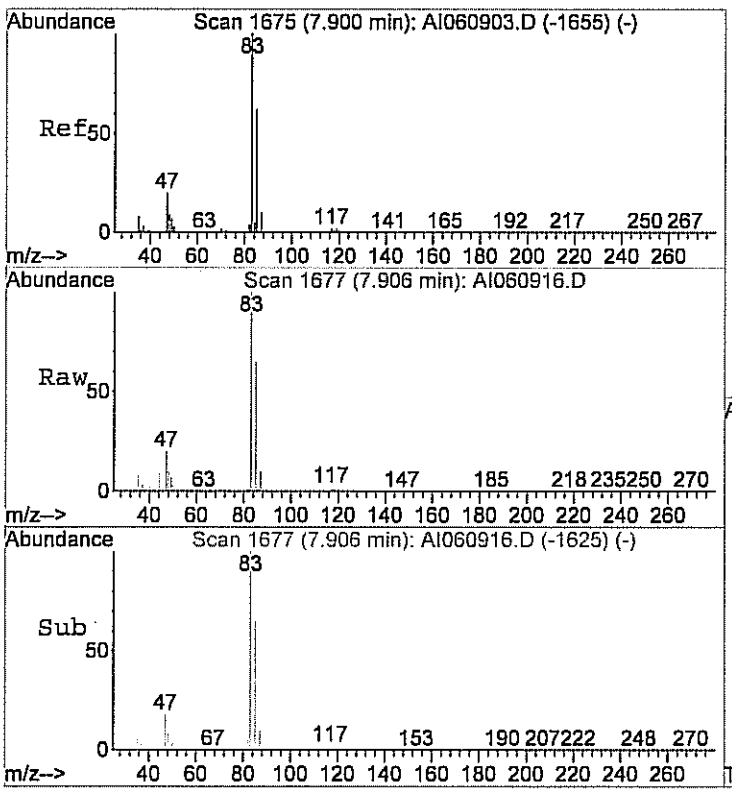


#26
cis-1,2-dichloroethene
Concen: 0.44 ppb
RT: 7.32 min Scan# 1481
Delta R.T. 0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 61 Resp: 16004

Ion	Ratio	Lower	Upper
61	100		
96	83.4	66.5	106.5
98	57.3	37.7	77.7

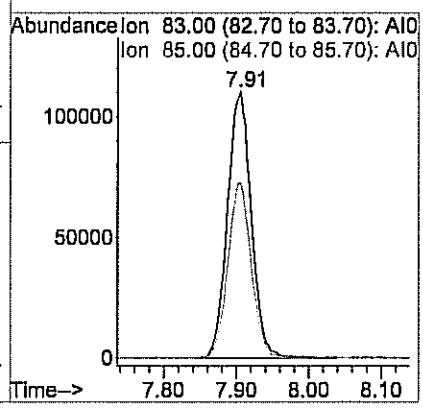


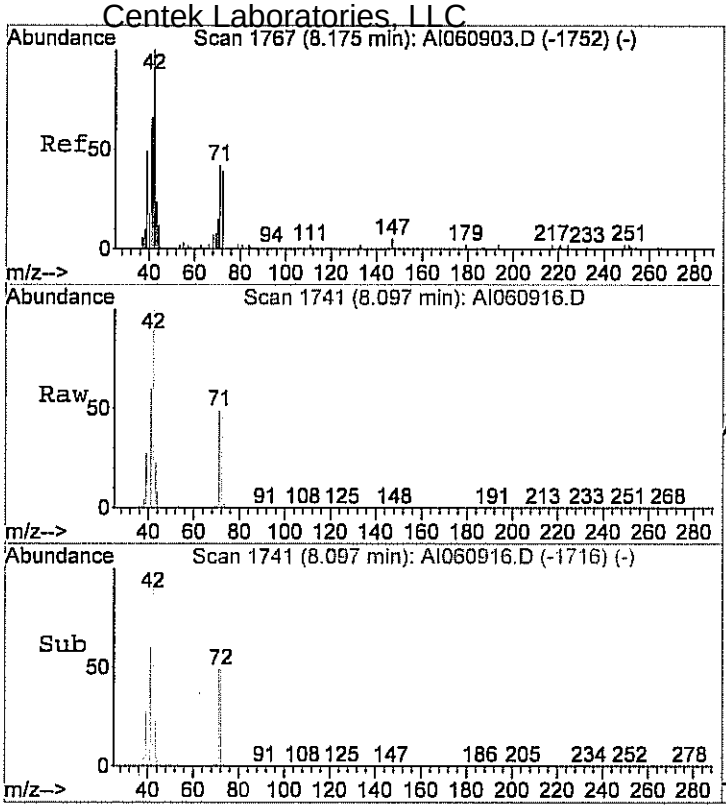


#29
Chloroform
Concen: 2.81 ppb
RT: 7.91 min Scan# 1677
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 83 Resp: 252985

Ion	Ratio	Lower	Upper
83	100		
85	65.2	46.1	86.1

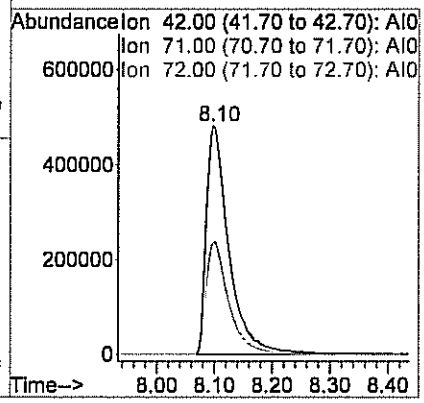


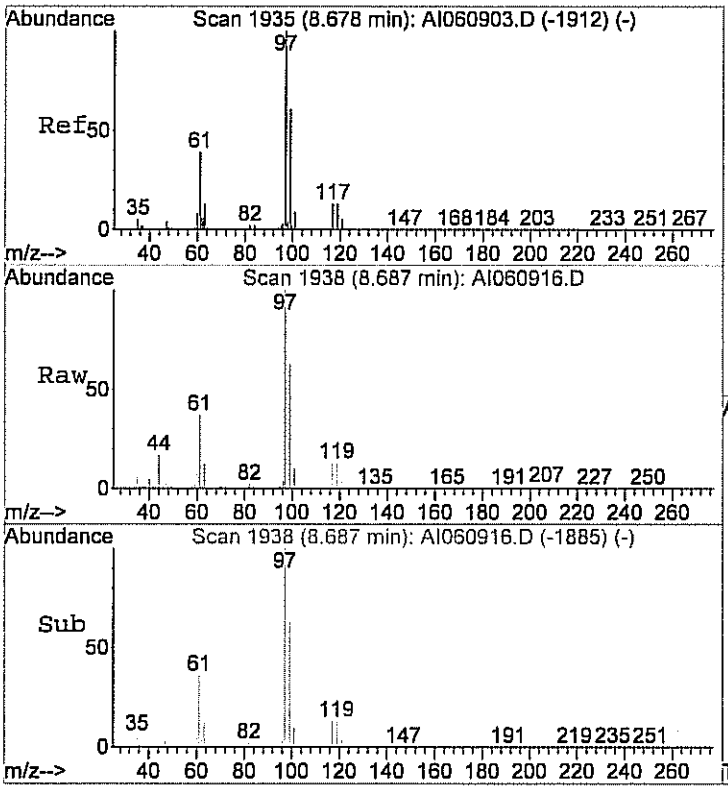


#30
Tetrahydrofuran
Concen: 87.35 ppb
RT: 8.10 min Scan# 1741
Delta R.T. -0.07 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 42 Resp: 1317907

Ion	Ratio	Lower	Upper
42	100		
71	49.9	22.3	62.3
72	48.7	19.9	59.9

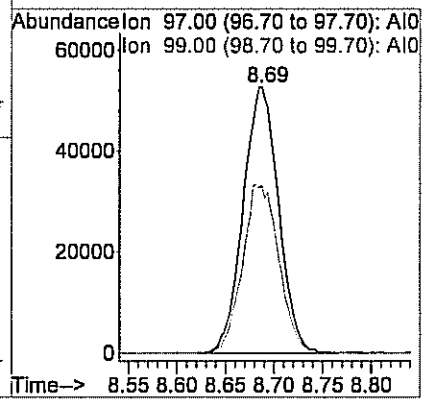


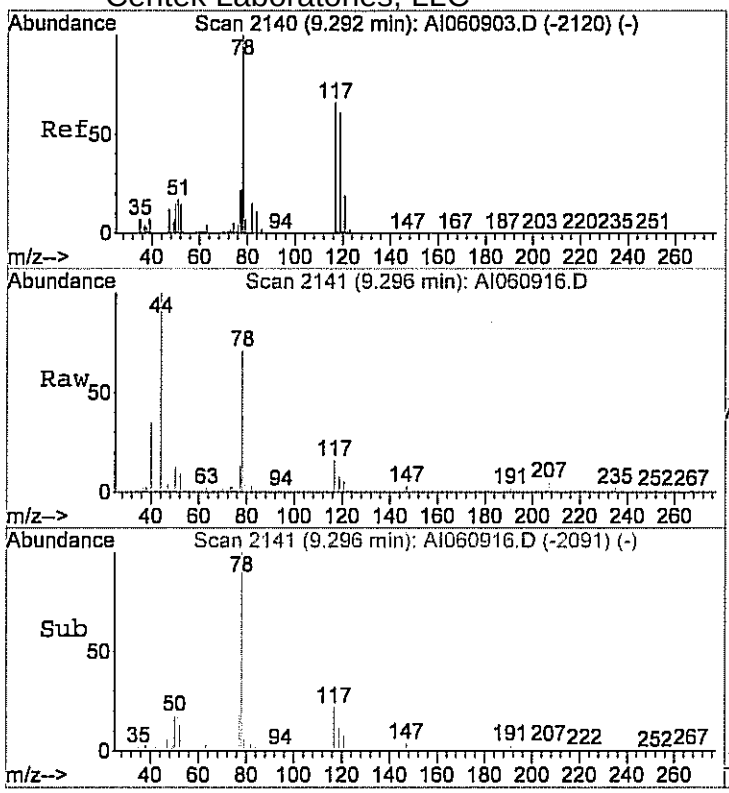


#33
1,1,1-trichloroethane
Concen: 1.19 ppb
RT: 8.69 min Scan# 1938
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 97 Resp: 133827

Ion	Ratio	Lower	Upper
97	100		
99	65.0	44.9	84.9

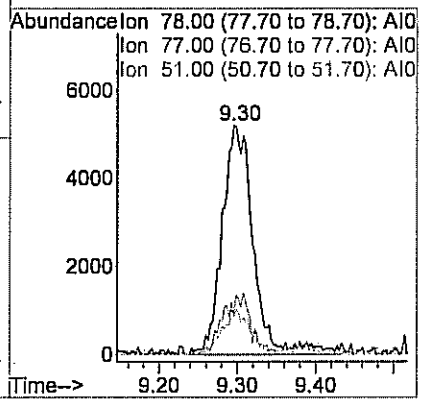


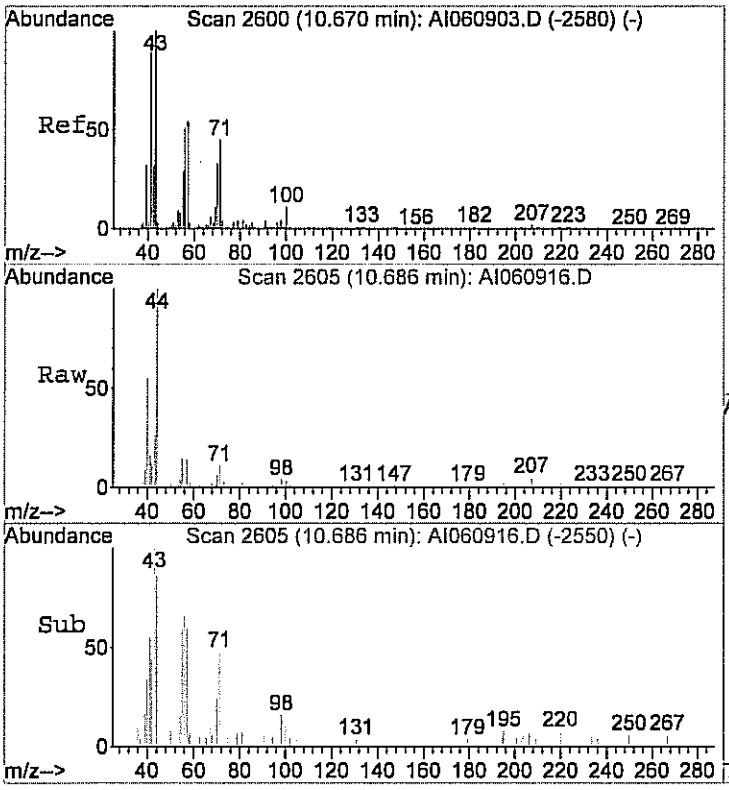


#36
Benzene
Concen: 0.14 ppb
RT: 9.30 min Scan# 2141
Delta R.T. -0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 78 Resp: 14376

Ion	Ratio	Lower	Upper
78	100		
77	23.9	6.0	46.0
51	18.1	0.0	39.4

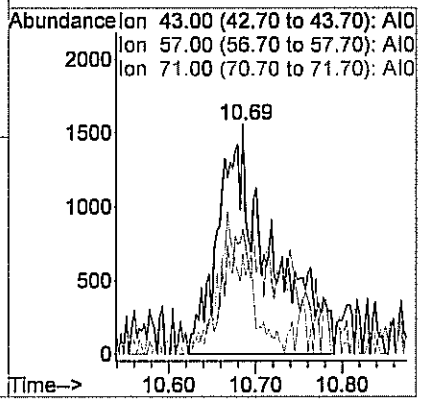


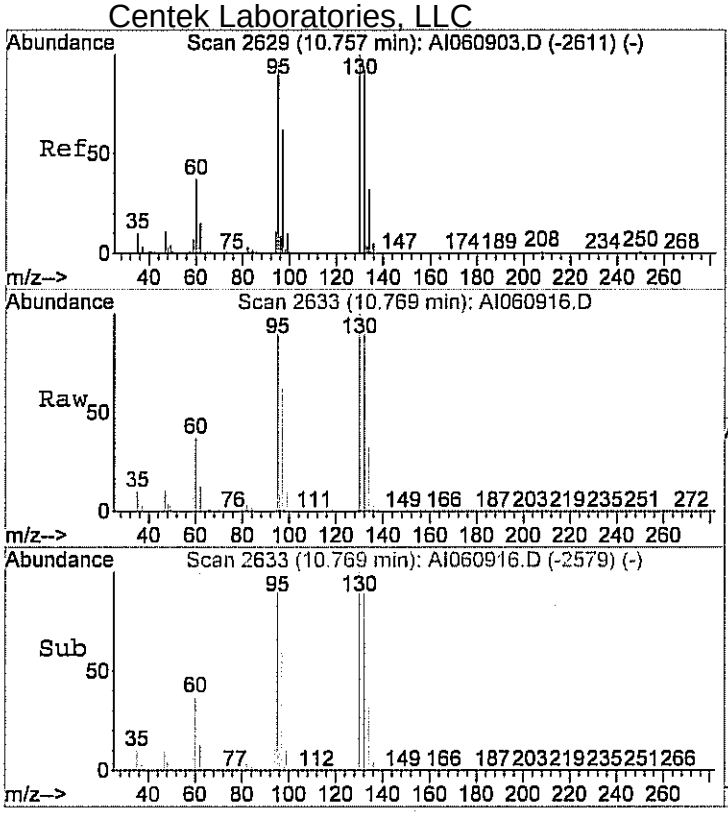


#40
Heptane
Concen: 0.20 ppb
RT: 10.69 min Scan# 2605
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 43 Resp: 6464

Ion	Ratio	Lower	Upper
43	100		
57	48.4	35.1	75.1
71	32.8	35.4	75.4#

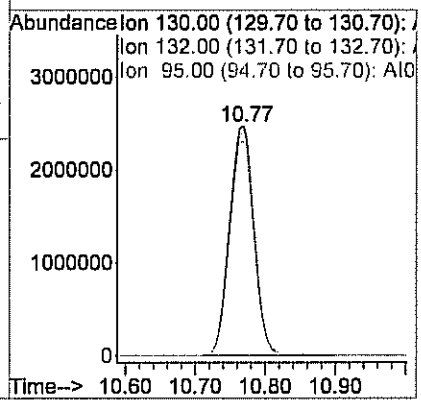


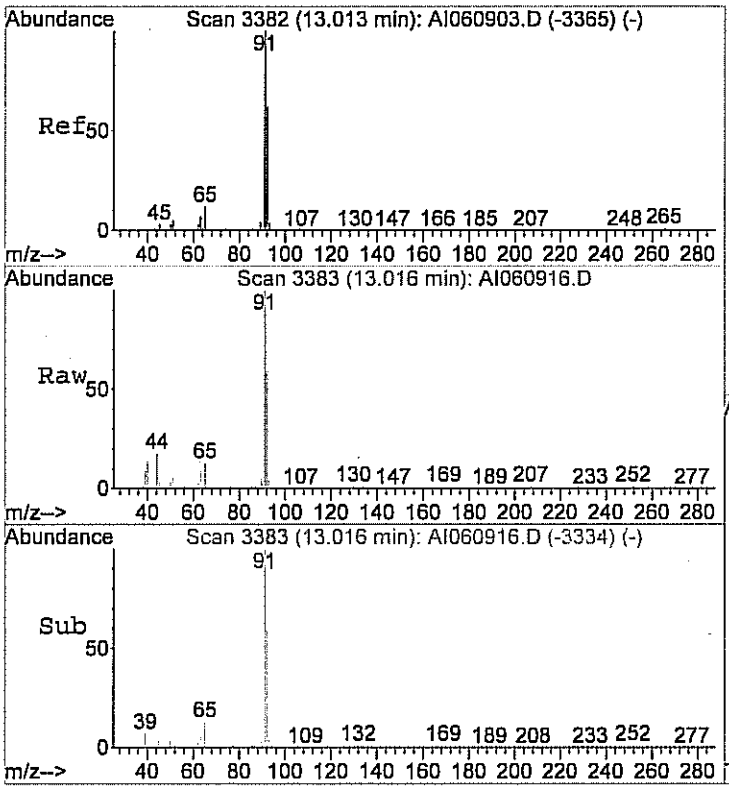


#41
Trichloroethene
Concen: 97.73 ppb
RT: 10.77 min Scan# 2633
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion:130 Resp: 6063409

Ion	Ratio	Lower	Upper
130	100		
132	97.0	76.9	116.9
95	93.7	73.2	113.2

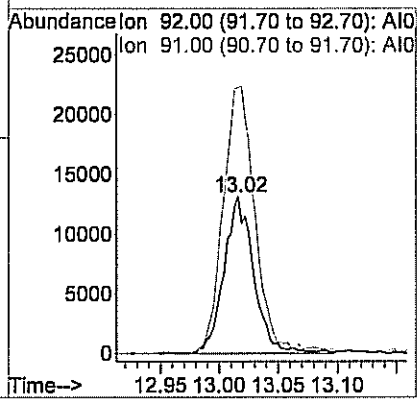


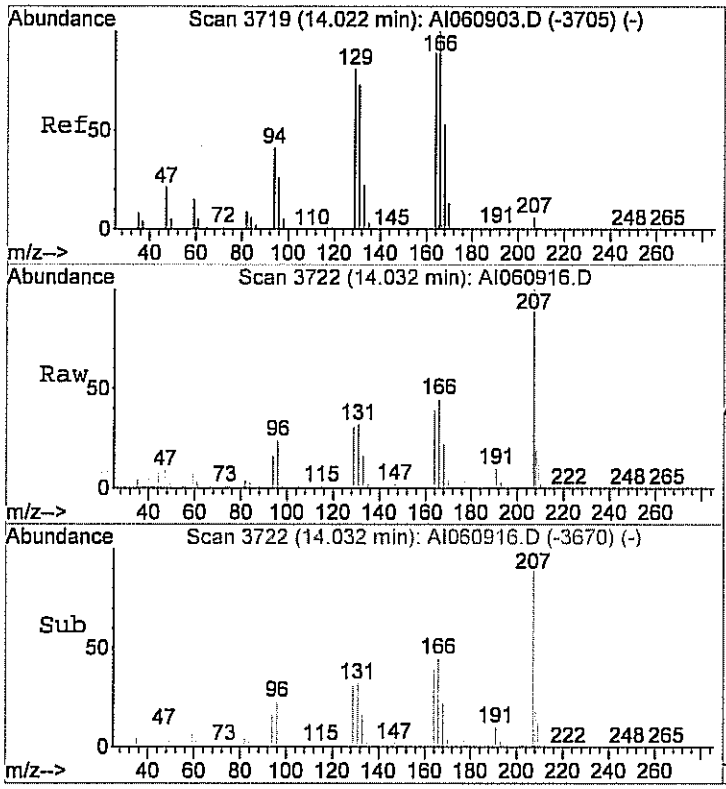


#48
Toluene
Concen: 0.48 ppb
RT: 13.02 min Scan# 3383
Delta R.T. -0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 92 Resp: 23161

Ion	Ratio	Lower	Upper
92	100		
91	183.6	155.3	195.3

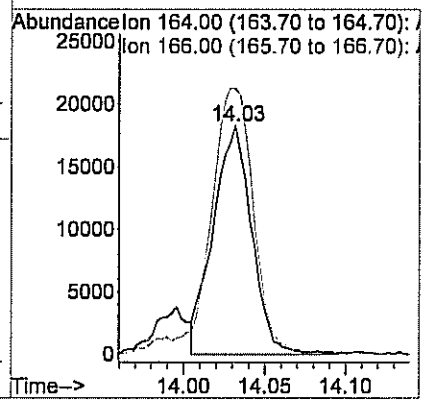


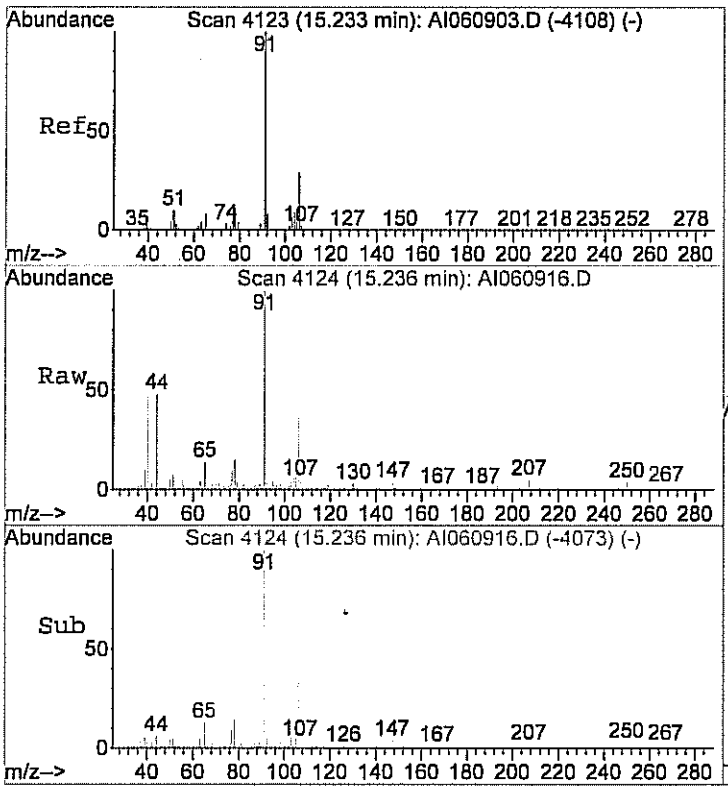


#53
Tetrachloroethylene
Concen: 0.50 ppb
RT: 14.03 min Scan# 3722
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion:164 Resp: 30159

Ion	Ratio	Lower	Upper
164	100		
166	124.5	111.1	151.1

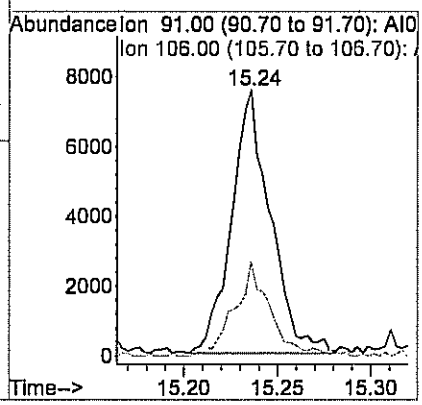


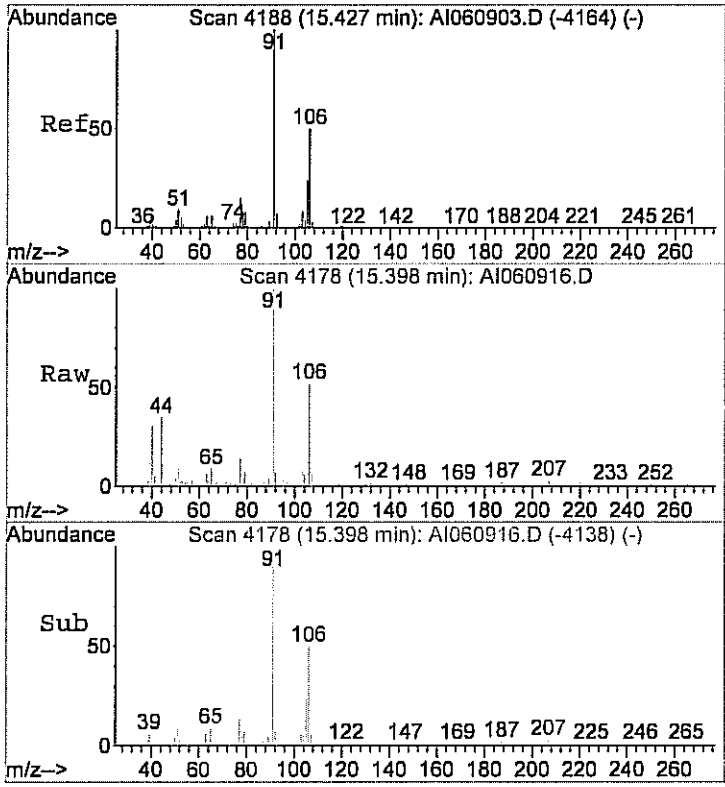


#55
Ethylbenzene
Concen: 0.14 ppb
RT: 15.24 min Scan# 4124
Delta R.T. 0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 91 Resp: 10891

Ion	Ratio	Lower	Upper
91	100		
106	33.1	12.0	52.0

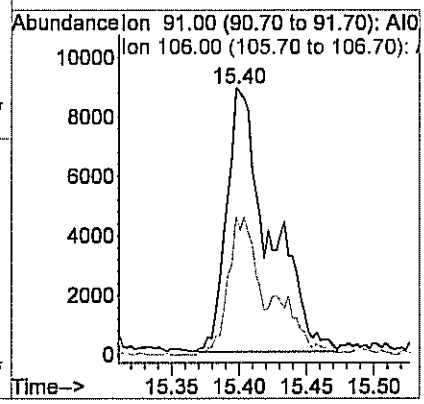


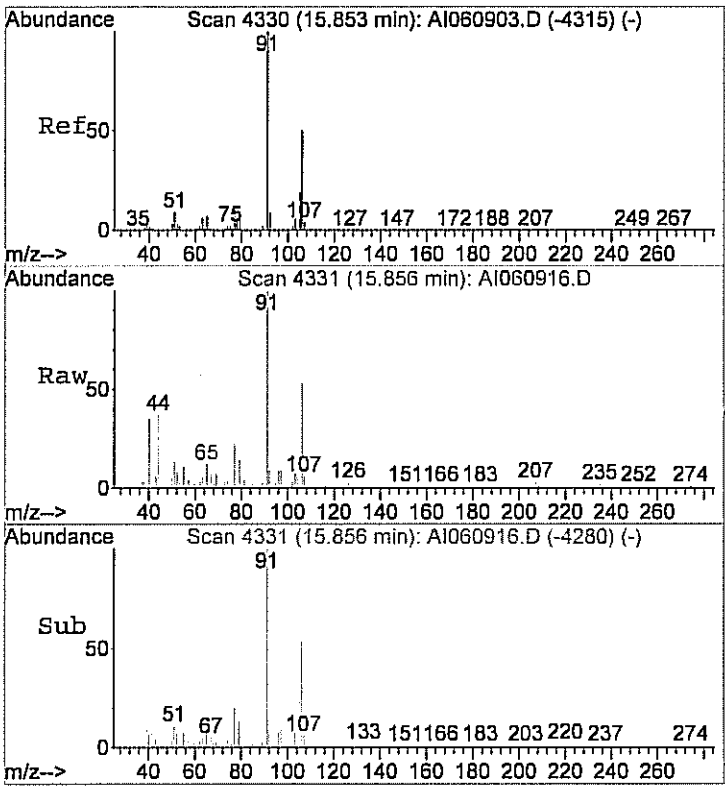


#56
m&p-xylene
Concen: 0.29 ppb
RT: 15.40 min Scan# 4178
Delta R.T. -0.03 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 91 Resp: 19509

Ion	Ratio	Lower	Upper
91	100		
106	49.8	30.5	70.5

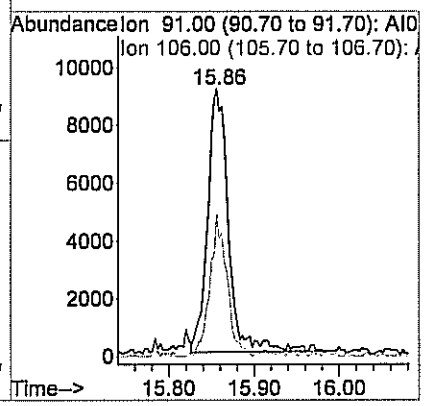


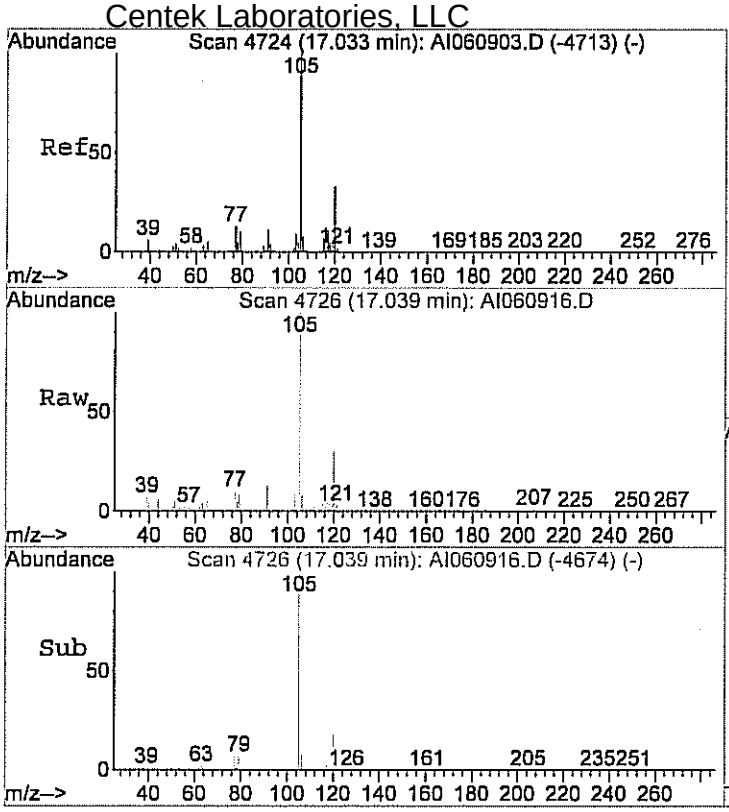


#59
o-xylene
Concen: 0.19 ppb
RT: 15.86 min Scan# 4331
Delta R.T. 0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion: 91 Resp: 15438

Ion	Ratio	Lower	Upper
91	100		
106	44.2	28.2	68.2

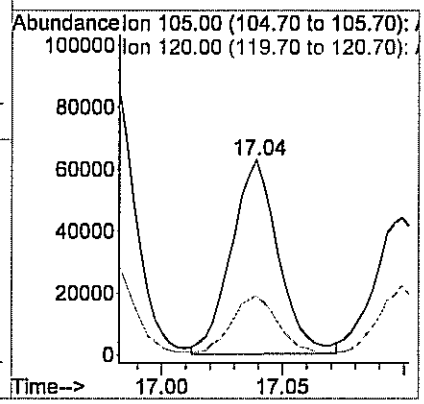


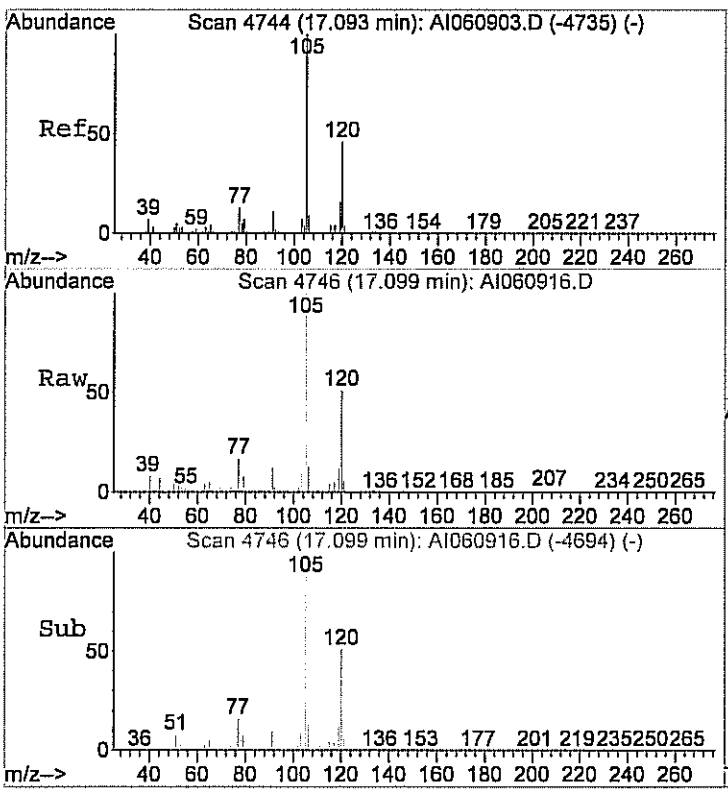


#63
4-ethyltoluene
Concen: 1.39 ppb
RT: 17.04 min Scan# 4726
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion:105 Resp: 85116

Ion	Ratio	Lower	Upper
105	100		
120	30.6	9.7	49.7

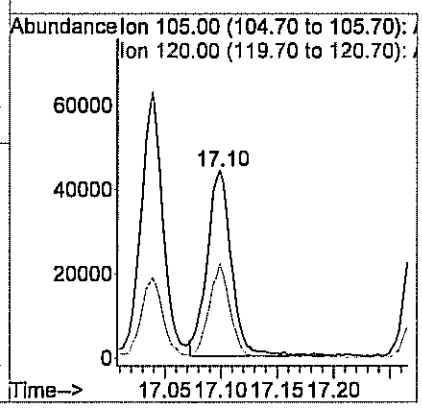


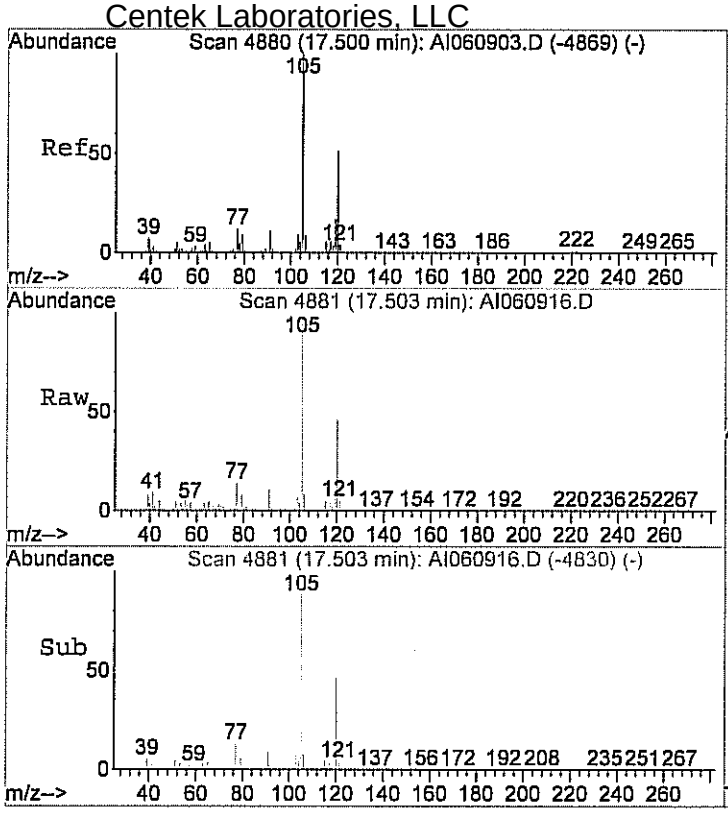


#64
1,3,5-trimethylbenzene
Concen: 0.95 ppb
RT: 17.10 min Scan# 4746
Delta R.T. 0.01 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion:105 Resp: 66817

Ion	Ratio	Lower	Upper
105	100		
120	45.5	29.4	69.4

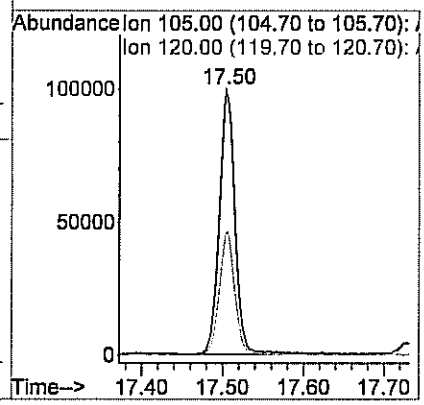




#65
1,2,4-trimethylbenzene
Concen: 2.82 ppb
RT: 17.50 min Scan# 4881
Delta R.T. 0.00 min
Lab File: AI060916.D
Acq: 9 Jun 2011 9:24 pm

Tgt Ion:105 Resp: 134825

Ion	Ratio	Lower	Upper
105	100		
120	46.2	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061305.D Vial: 46
Acq On : 13 Jun 2011 12:30 pm Operator: RJP
Sample : C1106012-001A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 12:51:46 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

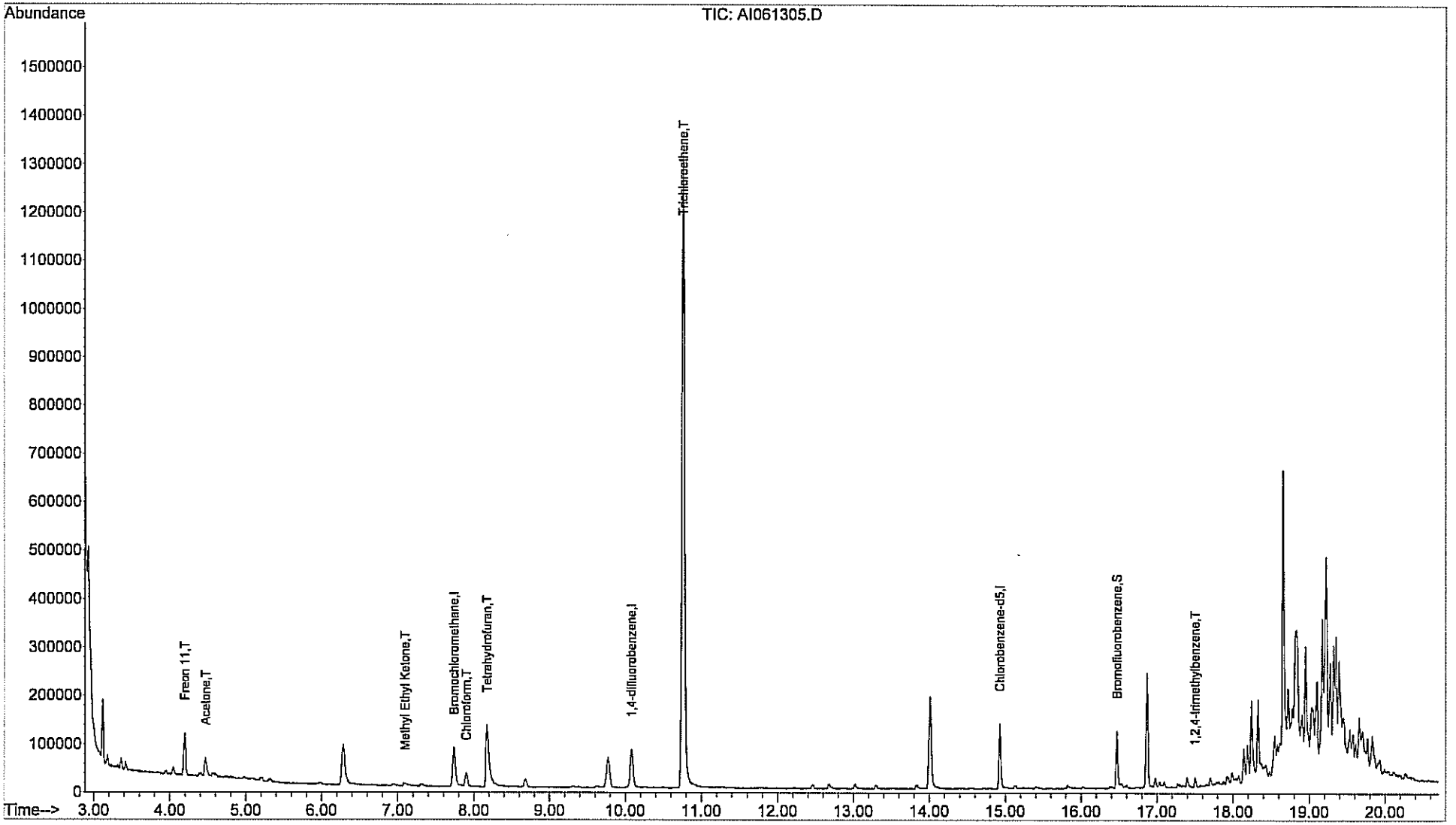
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	34215	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	90143	1.00	ppb	0.00
47) Chlorobenzene-d5	14.93	117	82429	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	36885	1.05	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%			
Target Compounds						Qvalue
13) Freon 11	4.20	101	70063	0.88	ppb	99
14) Acetone	4.47	58	16898	2.06	ppb	93
25) Methyl Ethyl Ketone	7.10	72	3740m	0.48	ppb	
29) Chloroform	7.90	83	25131	0.30	ppb	99
30) Tetrahydrofuran	8.17	42	94092	6.64	ppb	90
41) Trichloroethene	10.76	130	574982	10.99	ppb	99
65) 1,2,4-trimethylbenzene	17.50	105	7790	0.19	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI061305.D A606_1UG.M Wed Jul 06 18:18:32 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

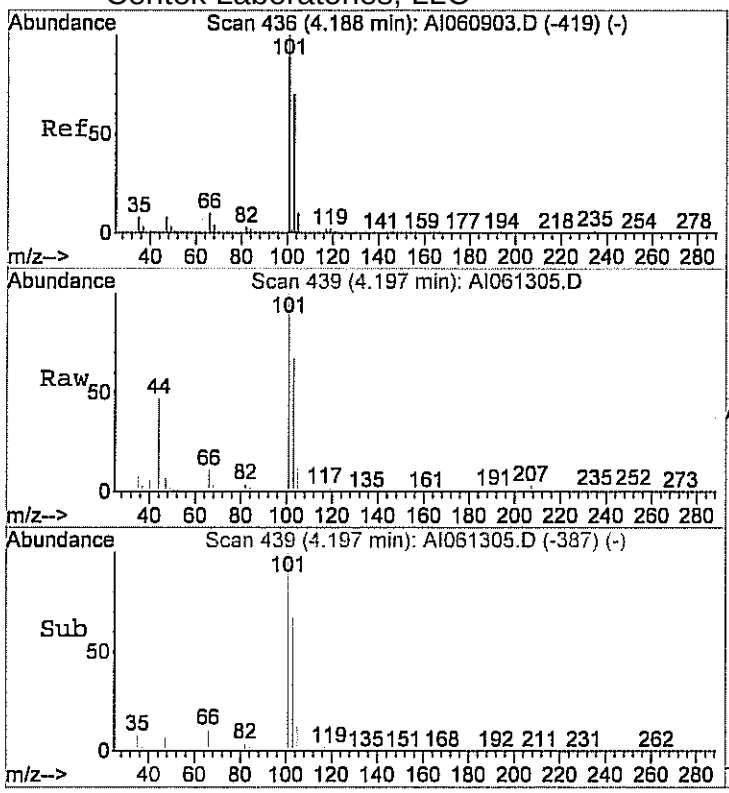
Data File : C:\HPCHEM\1\DATA\AI061305.D Vial: 46
Acq On : 13 Jun 2011 12:30 pm Operator: RJP
Sample : C1106012-001A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 16 10:56 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



AI061305.D A606_1UG.M Wed Jul 06 18:18:32 2011 MSD1 Page 2

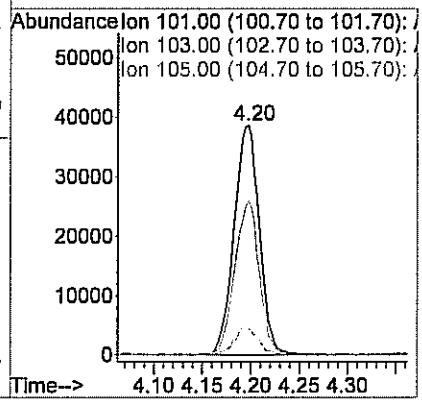
Centek Laboratories, LLC

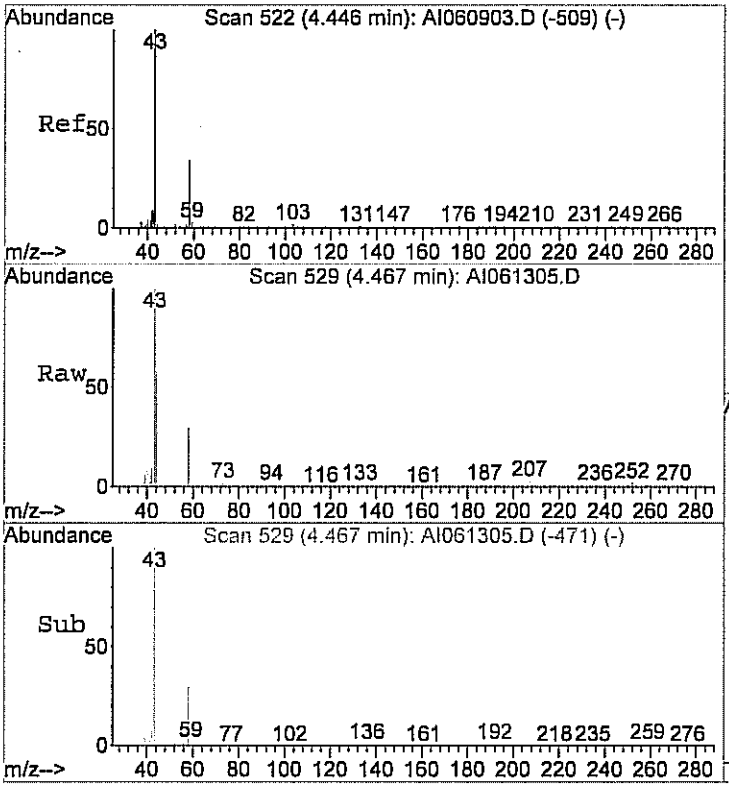


#13
Freon 11
Concen: 0.88 ppb
RT: 4.20 min Scan# 439
Delta R.T. 0.01 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion:101 Resp: 70063

Ion	Ratio	Lower	Upper
101	100		
103	65.5	46.5	86.5
105	11.6	0.0	31.6

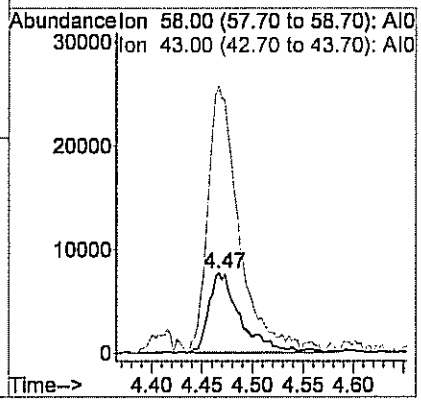


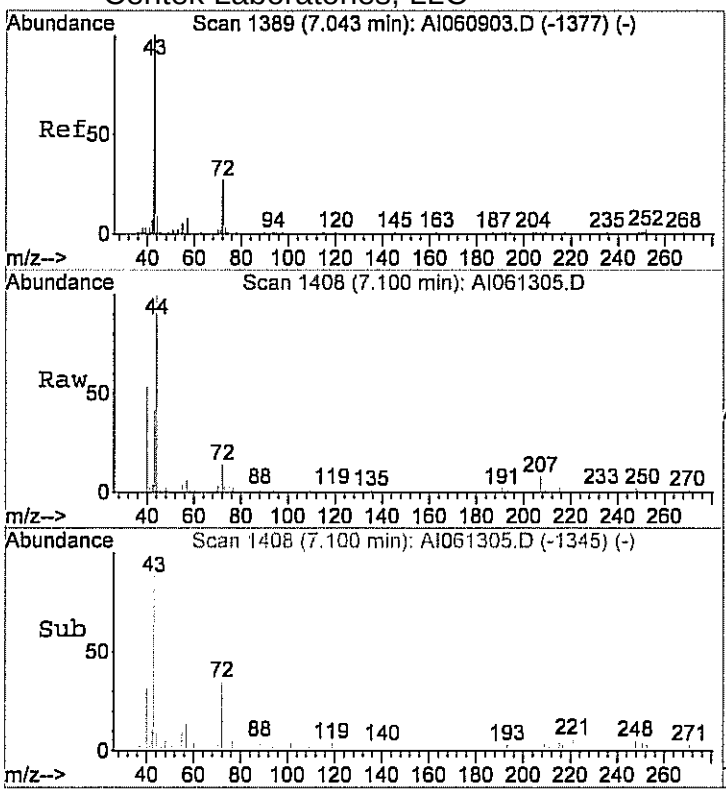


#14
Acetone
Concen: 2.06 ppb
RT: 4.47 min Scan# 529
Delta R.T. 0.02 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion: 58 Resp: 16898

Ion	Ratio	Lower	Upper
58	100		
43	325.9	282.0	342.0

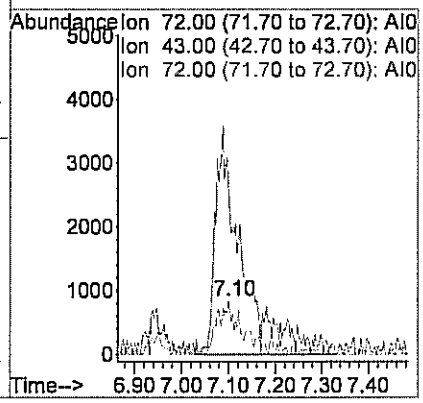


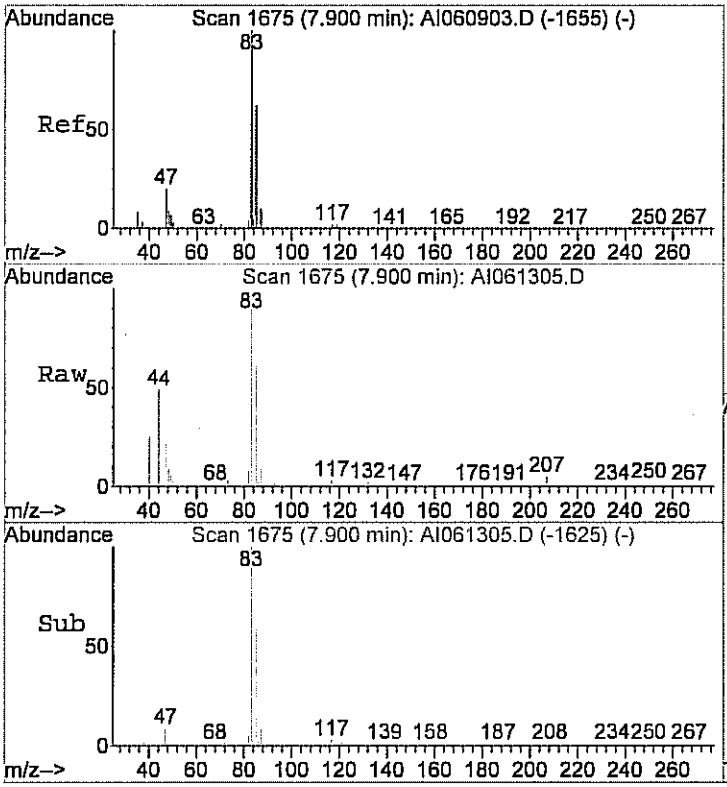


#25
Methyl Ethyl Ketone
Concen: 0.48 ppb m
RT: 7.10 min Scan# 1408
Delta R.T. 0.04 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion: 72 Resp: 3740

Ion	Ratio	Lower	Upper
72	100		
43	308.4	0.0	20.0#
72	71.6	66.2	106.2

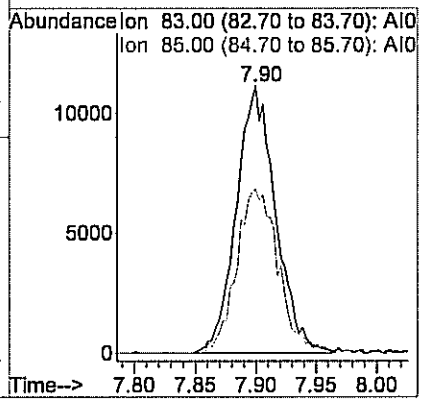


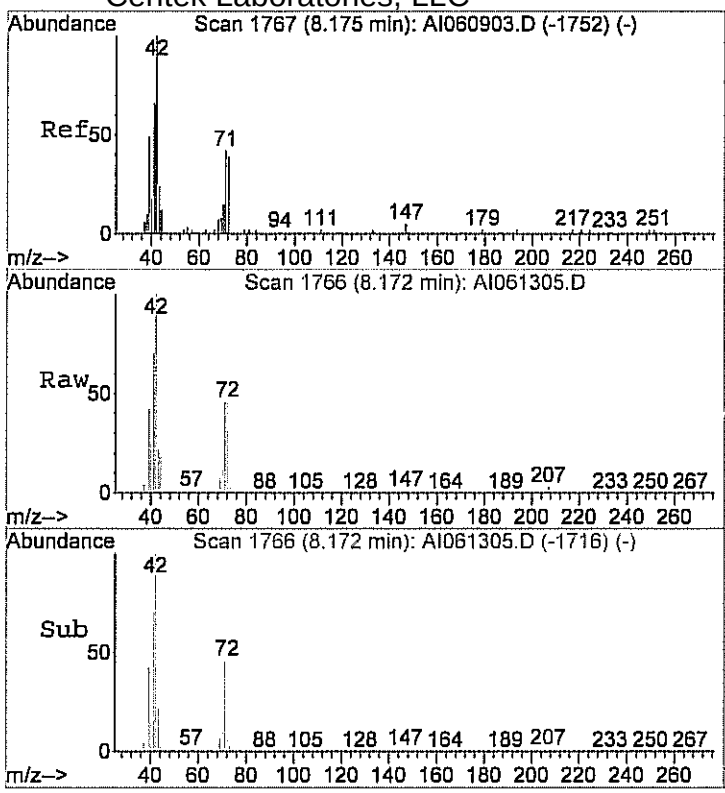


#29
Chloroform
Concen: 0.30 ppb
RT: 7.90 min Scan# 1675
Delta R.T. -0.00 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion: 83 Resp: 25131

Ion	Ratio	Lower	Upper
83	100		
85	65.5	46.1	86.1

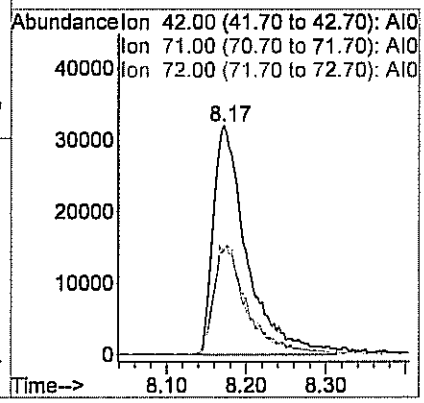


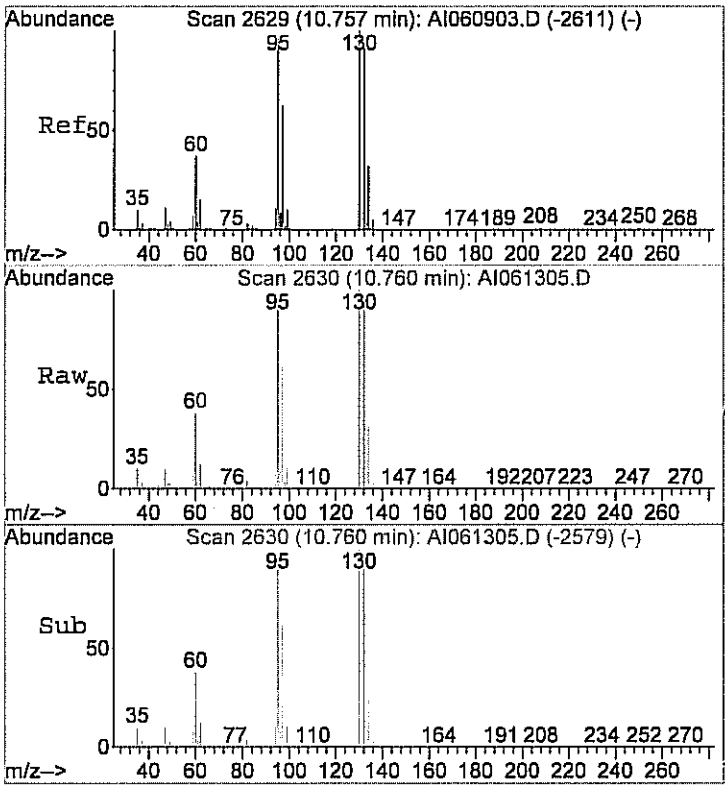


#30
Tetrahydrofuran
Concen: 6.64 ppb
RT: 8.17 min Scan# 1766
Delta R.T. -0.00 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion: 42 Resp: 94092

Ion	Ratio	Lower	Upper
42	100		
71	47.6	22.3	62.3
72	46.9	19.9	59.9

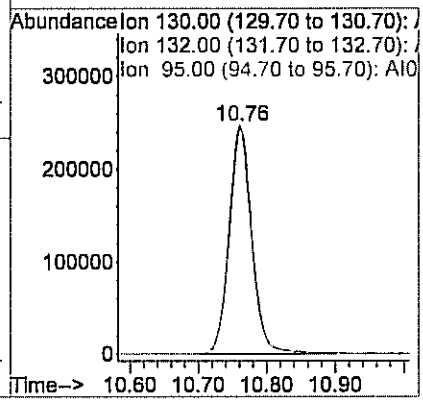


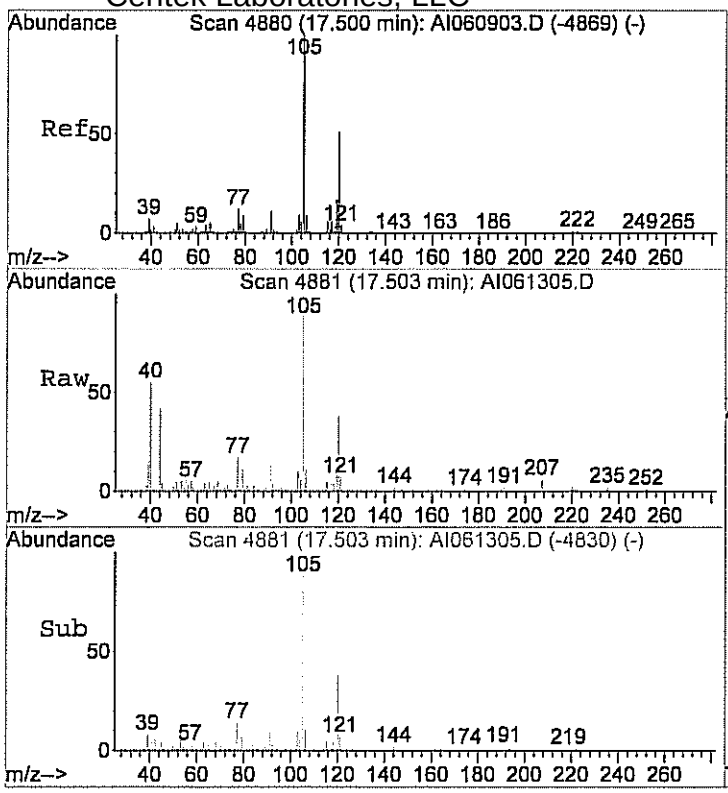


#41
Trichloroethene
Concen: 10.99 ppb
RT: 10.76 min Scan# 2630
Delta R.T. 0.00 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion:130 Resp: 574982

Ion	Ratio	Lower	Upper
130	100		
132	96.8	76.9	116.9
95	95.2	73.2	113.2

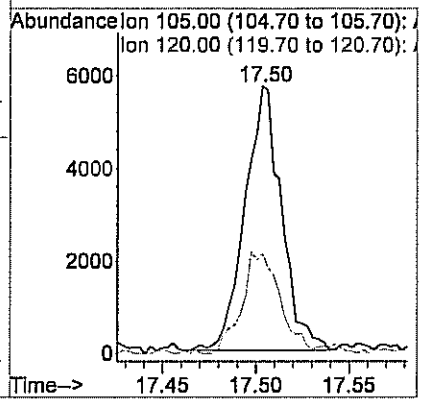




#65
1,2,4-trimethylbenzene
Concen: 0.19 ppb
RT: 17.50 min Scan# 4881
Delta R.T. 0.00 min
Lab File: AI061305.D
Acq: 13 Jun 2011 12:30 pm

Tgt Ion:105 Resp: 7790

Ion	Ratio	Lower	Upper
105	100		
120	42.3	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060924.D Vial: 40
Acq On : 10 Jun 2011 2:23 am Operator: RJP
Sample : C1106012-001A 40x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 02:43:55 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

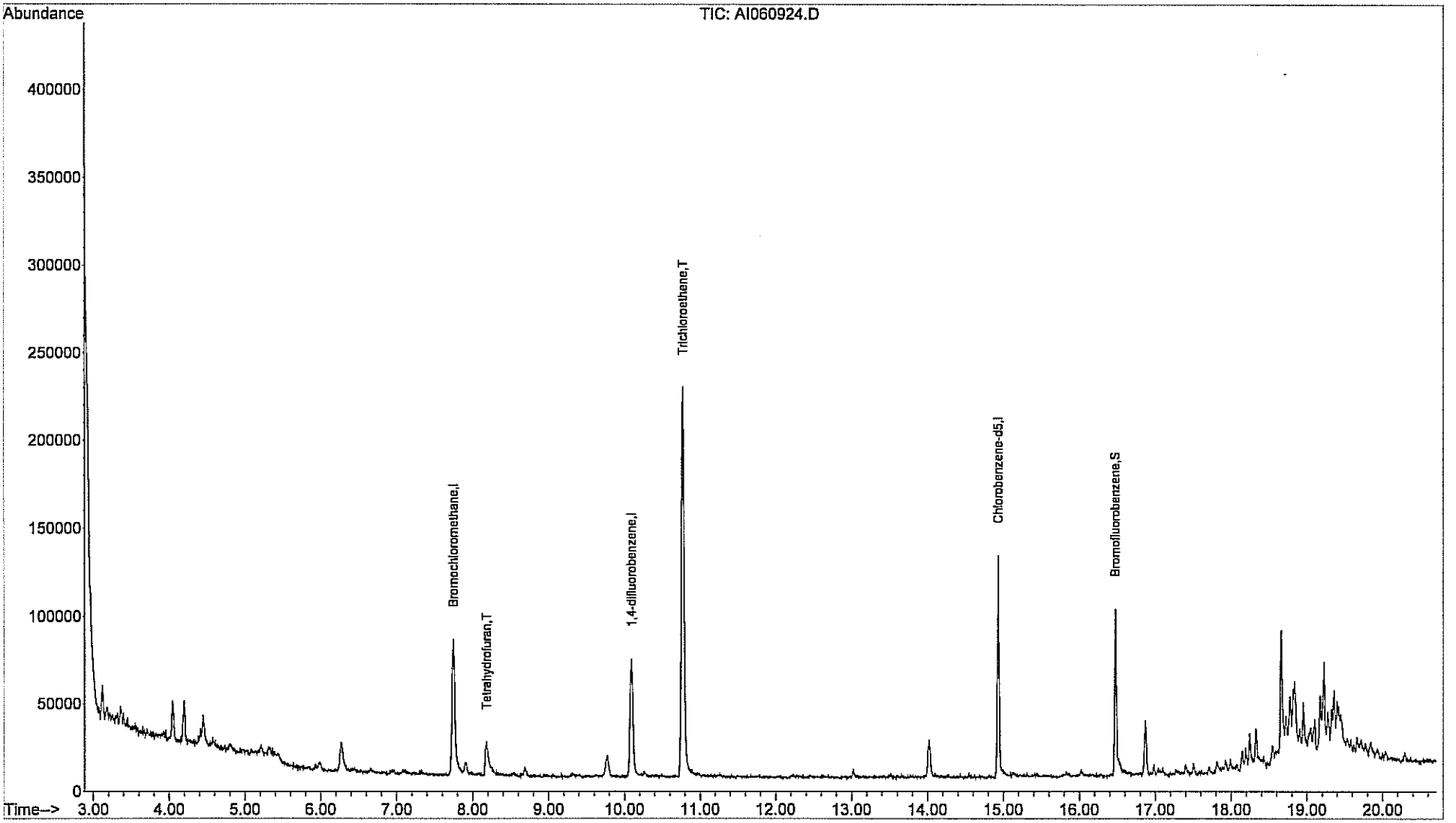
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	33537	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	76272	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	74560	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	31239	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
30) Tetrahydrofuran	8.18	42	14356	1.03	ppb	98
41) Trichloroethene	10.77	130	104035	2.35	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

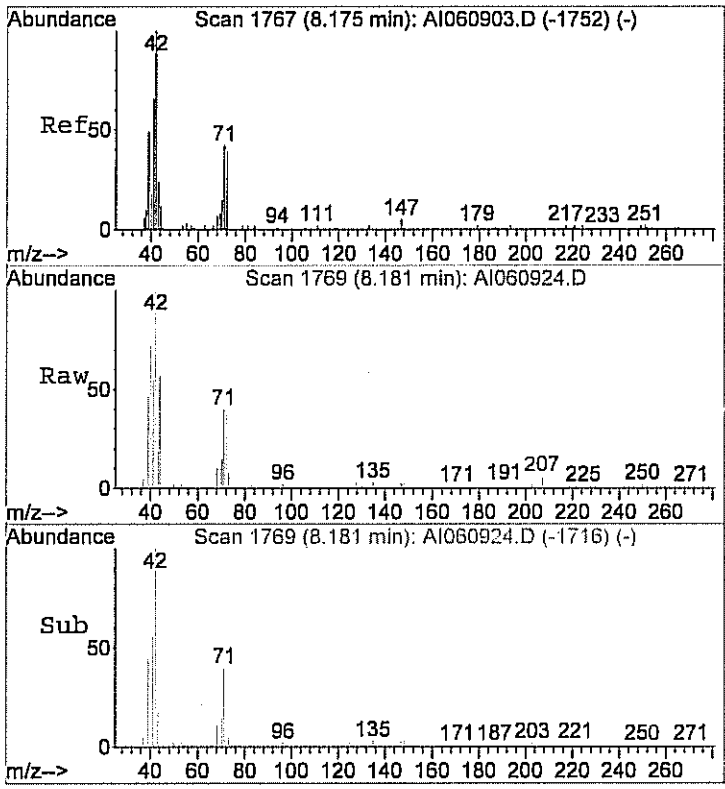
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060924.D Vial: 40
Acq On : 10 Jun 2011 2:23 am Operator: RJP
Sample : C1106012-001A 40x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 16 10:58 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



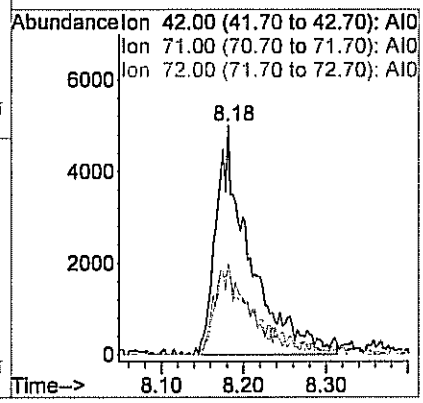
Centek Laboratories, LLC

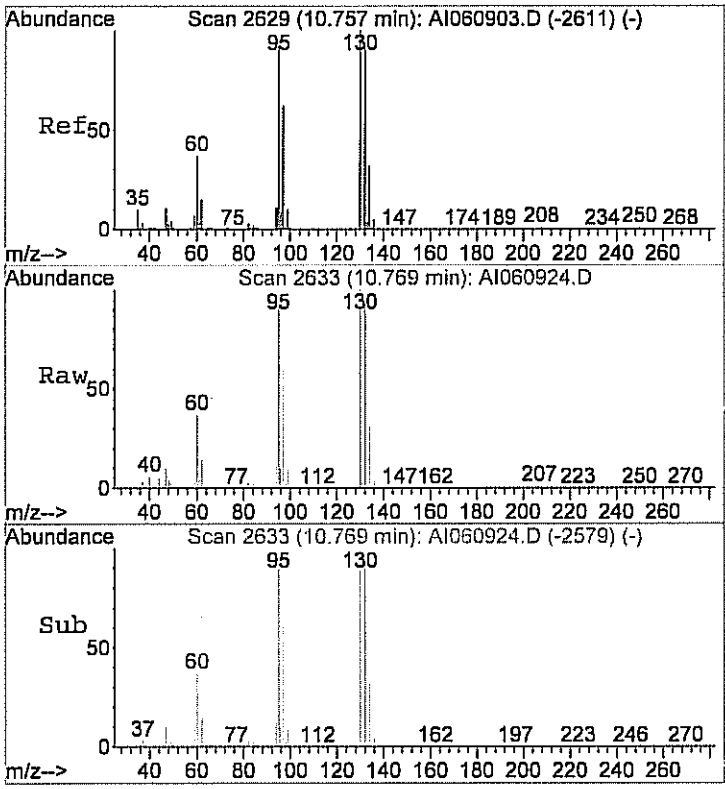


#30
Tetrahydrofuran
Concen: 1.03 ppb
RT: 8.18 min Scan# 1769
Delta R.T. 0.01 min
Lab File: AI060924.D
Acq: 10 Jun 2011 2:23 am

Tgt Ion: 42 Resp: 14356

Ion	Ratio	Lower	Upper
42	100		
71	41.9	22.3	62.3
72	41.5	19.9	59.9

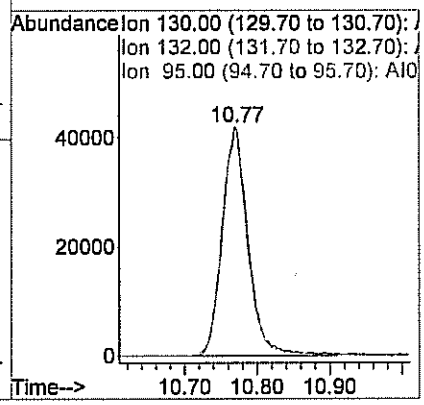




#41
Trichloroethene
Concen: 2.35 ppb
RT: 10.77 min Scan# 2633
Delta R.T. 0.01 min
Lab File: AI060924.D
Acq: 10 Jun 2011 2:23 am

Tgt Ion:130 Resp: 104035

Ion	Ratio	Lower	Upper
130	100		
132	98.7	76.9	116.9
95	96.8	73.2	113.2



Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	6.2	1.5		ppbV	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	1.9	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.14	0.15	J	ppbV	1	6/9/2011 8:46:00 PM
4-ethyltoluene	2.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Acetone	64	27		ppbV	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroform	0.39	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	1.2	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.72	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 11	0.32	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Heptane	1.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
m&p-Xylene	0.93	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	1.2	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	8.6	3.0		ppbV	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Methylene chloride	7.0	1.5		ppbV	10	6/10/2011 12:31:00 AM
o-Xylene	0.58	0.15		ppbV	1	6/9/2011 8:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Toluene	3.8	1.5		ppbV	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Trichloroethene	8.6	1.5		ppbV	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Surr: Bromofluorobenzene	129	70-130		%REC	1	6/9/2011 8:46:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	31	7.5		ug/m3	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	9.4	0.75		ug/m3	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.66	0.71	J	ug/m3	1	6/9/2011 8:46:00 PM
4-ethyltoluene	11	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Acetone	150	65		ug/m3	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:46:00 PM
Benzene	0.71	0.49		ug/m3	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:46:00 PM
Chloroform	1.9	0.74		ug/m3	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	4.8	0.60		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Freon 11	1.8	0.86		ug/m3	1	6/9/2011 8:46:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Heptane	4.4	0.62		ug/m3	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:46:00 PM
m&p-Xylene	4.1	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	5.0	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	26	9.0		ug/m3	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:46:00 PM
Methylene chloride	25	5.3		ug/m3	10	6/10/2011 12:31:00 AM
o-Xylene	2.6	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	1.5	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:46:00 PM
Toluene	15	5.7		ug/m3	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Trichloroethene	47	8.2		ug/m3	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060915.D Vial: 31
Acq On : 9 Jun 2011 8:46 pm Operator: RJP
Sample : C1106012-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 21:07:32 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	36497	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	94346	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	106846	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	58763m	1.29	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 129.00%				
Target Compounds							Qvalue
13) Freon 11	4.19	101	27144	0.32	ppb		100
14) Acetone	4.42	58	681512	77.91	ppb	#	79
18) Methylene chloride	5.21	84	134625	4.89	ppb		93
20) Carbon disulfide	5.32	76	23971	0.26	ppb		97
25) Methyl Ethyl Ketone	7.01	72	91508	11.06	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	43439	1.18	ppb		99
29) Chloroform	7.91	83	35019	0.39	ppb		100
36) Benzene	9.30	78	19655	0.22	ppb		95
39) 2,2,4-trimethylpentane	10.26	57	13117	0.14	ppb		88
40) Heptane	10.70	43	31087	1.06	ppb	#	1
41) Trichloroethene	10.77	130	179460	3.28	ppb		99
48) Toluene	13.01	92	168265	3.19	ppb		100
51) Methyl Butyl Ketone	13.58	43	24127	1.20	ppb		94
53) Tetrachloroethylene	14.03	164	14236	0.22	ppb		98
55) Ethylbenzene	15.24	91	63101	0.72	ppb		98
56) m&p-xylene	15.40	91	68979	0.93	ppb		98
59) o-xylene	15.86	91	52360	0.58	ppb		97
63) 4-ethyltoluene	17.04	105	142808	2.13	ppb		98
64) 1,3,5-trimethylbenzene	17.10	105	145734	1.89	ppb		95
65) 1,2,4-trimethylbenzene	17.50	105	352607	6.73	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

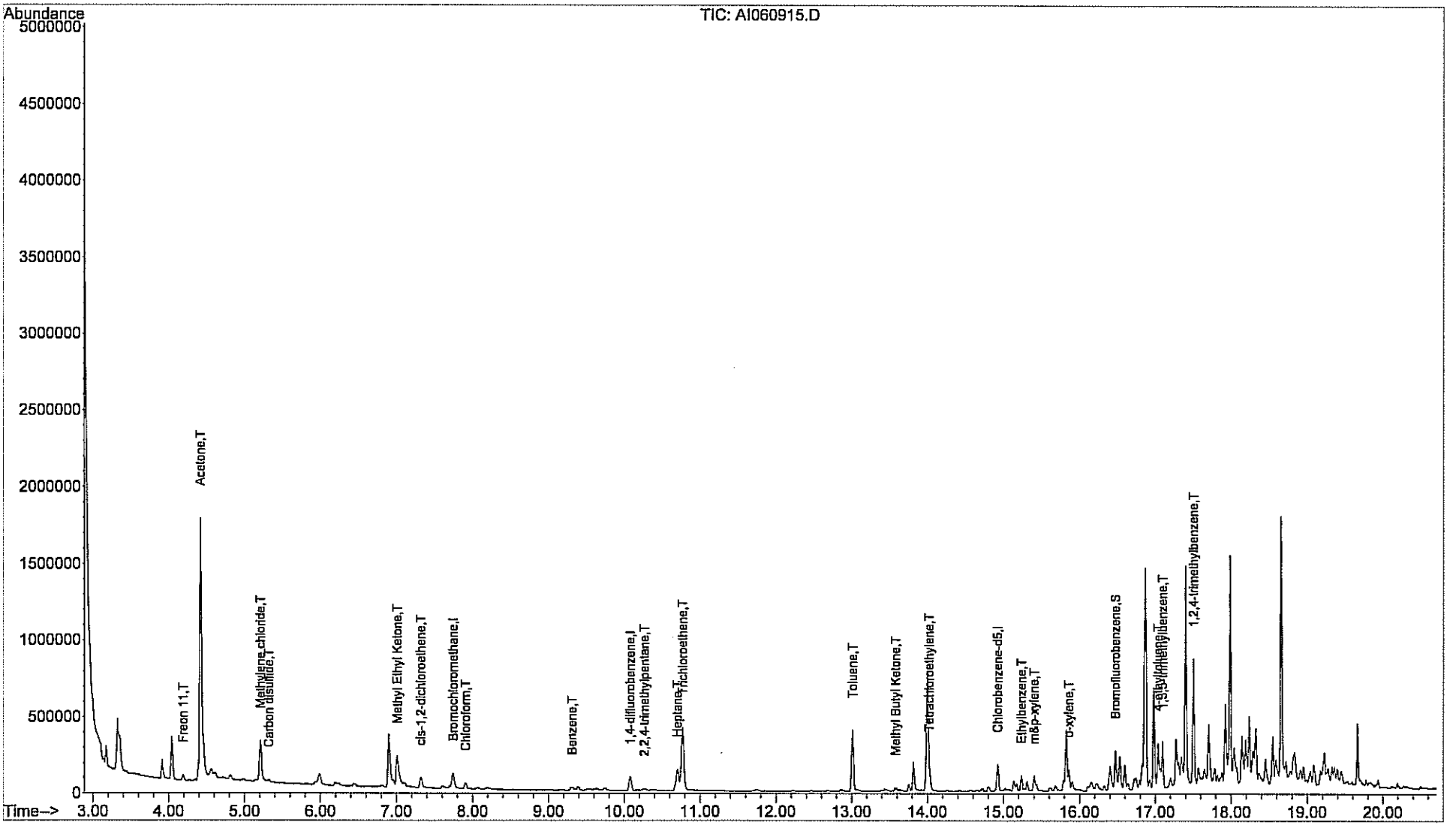
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060915.D
Acq On : 9 Jun 2011 8:46 pm
Sample : C1106012-002A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 16 10:33 2011

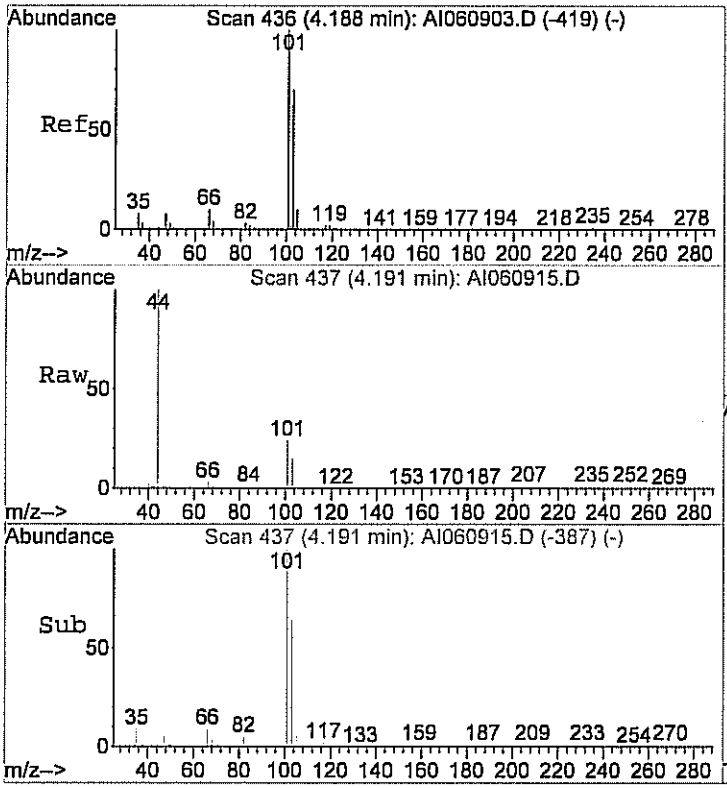
Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



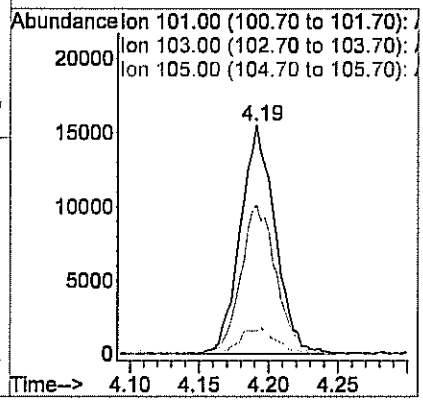
Centek Laboratories, LLC

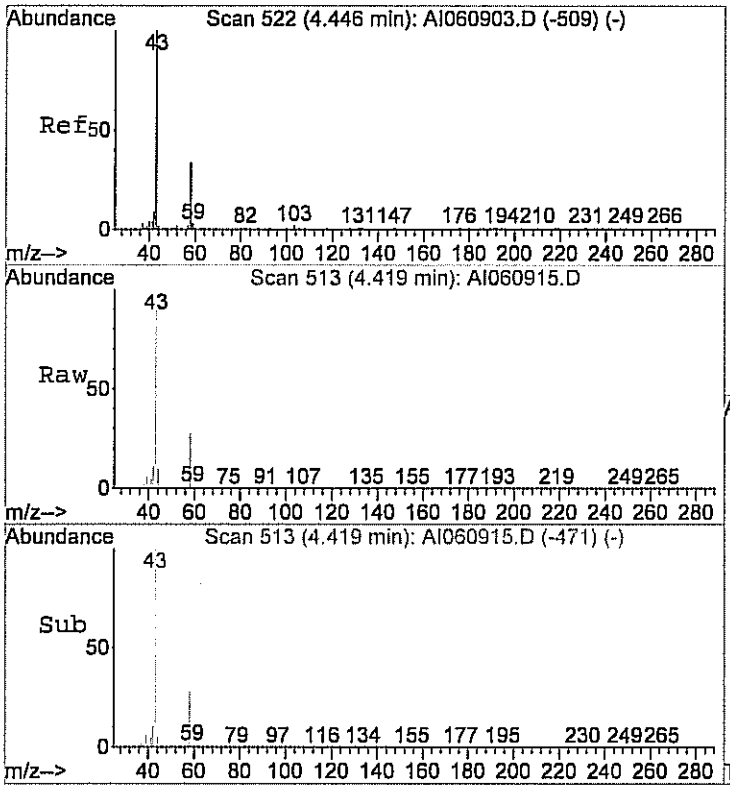


#13
Freon 11
Concen: 0.32 ppb
RT: 4.19 min Scan# 437
Delta R.T. -0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:101 Resp: 27144

Ion	Ratio	Lower	Upper
101	100		
103	66.8	46.5	86.5
105	11.9	0.0	31.6

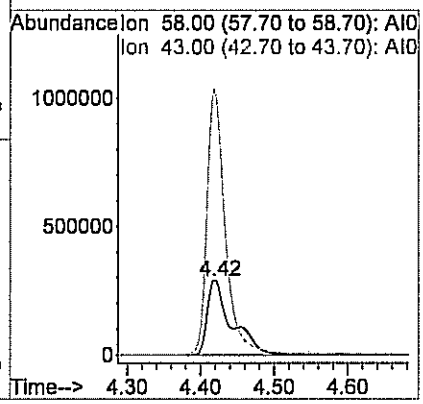


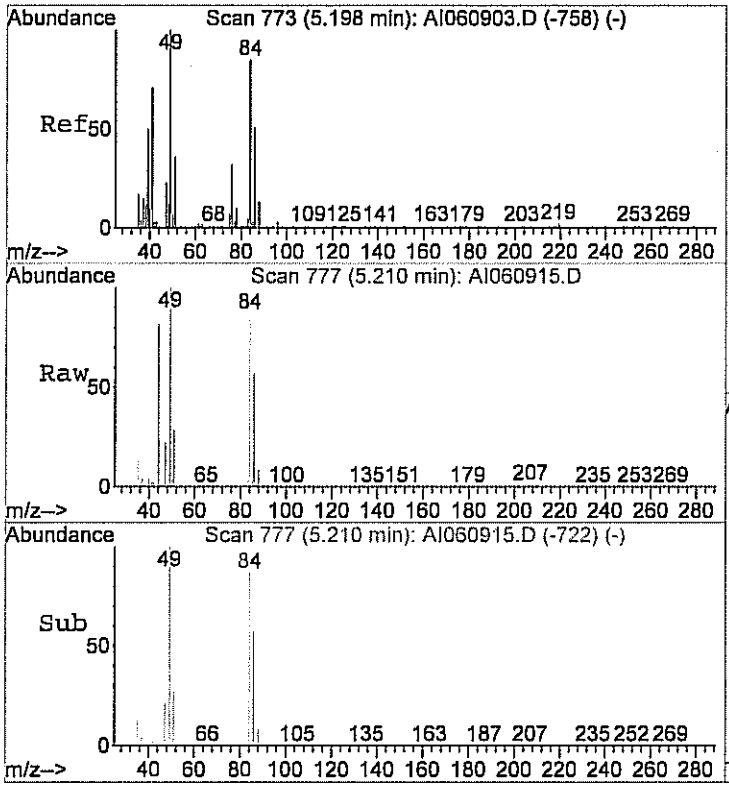


#14
Acetone
Concen: 77.91 ppb
RT: 4.42 min Scan# 513
Delta R.T. -0.02 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 58 Resp: 681512

Ion	Ratio	Lower	Upper
58	100		
43	270.2	282.0	342.0#

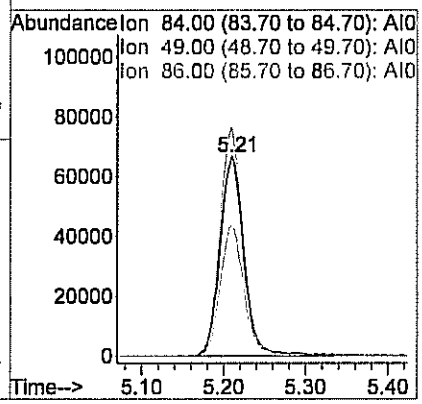


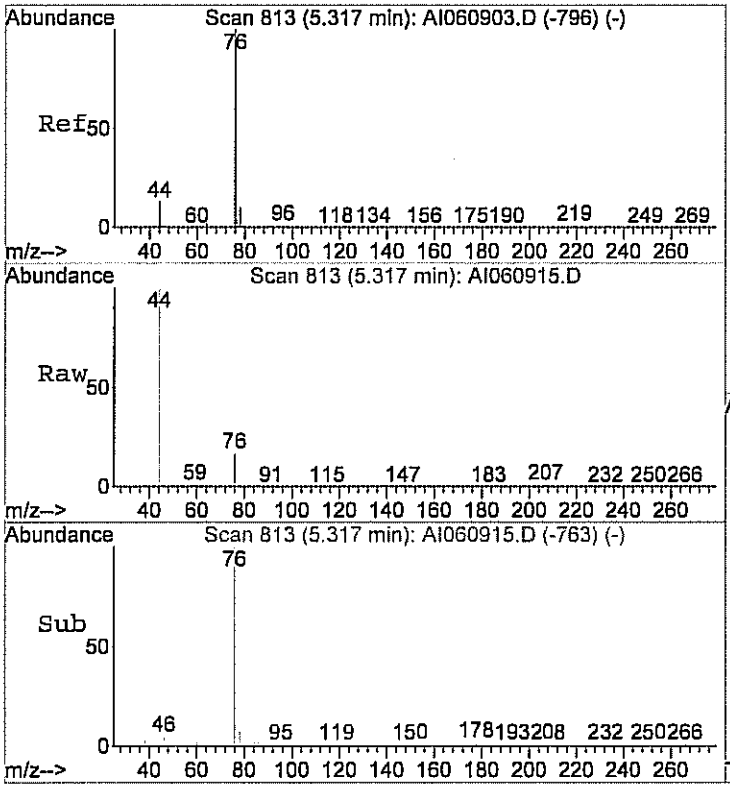


#18
Methylene chloride
Concen: 4.89 ppb
RT: 5.21 min Scan# 777
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 84 Resp: 134625

Ion	Ratio	Lower	Upper
84	100		
49	113.9	105.0	145.0
86	65.6	43.4	83.4

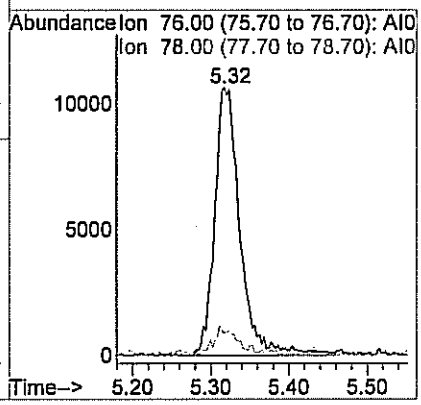


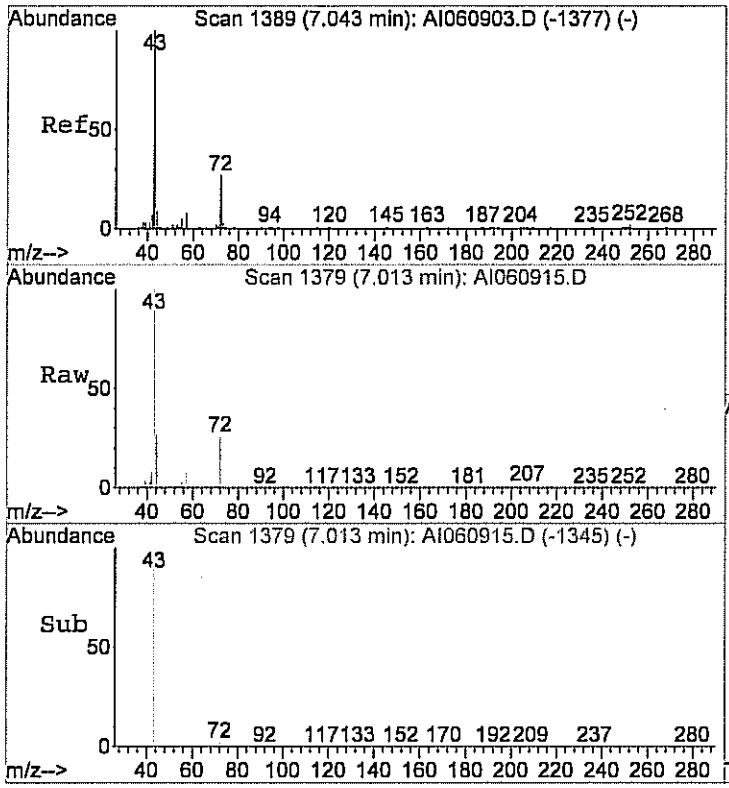


#20
Carbon disulfide
Concen: 0.26 ppb
RT: 5.32 min Scan# 813
Delta R.T. -0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 76 Resp: 23971

Ion	Ratio	Lower	Upper
76	100		
78	10.6	0.0	31.9

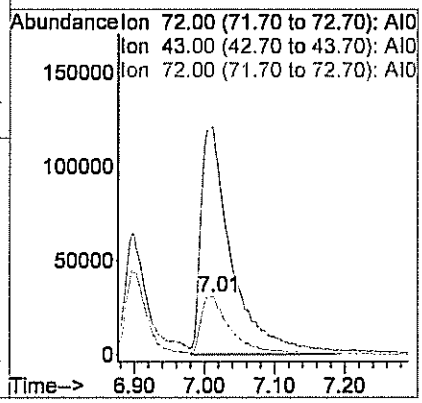


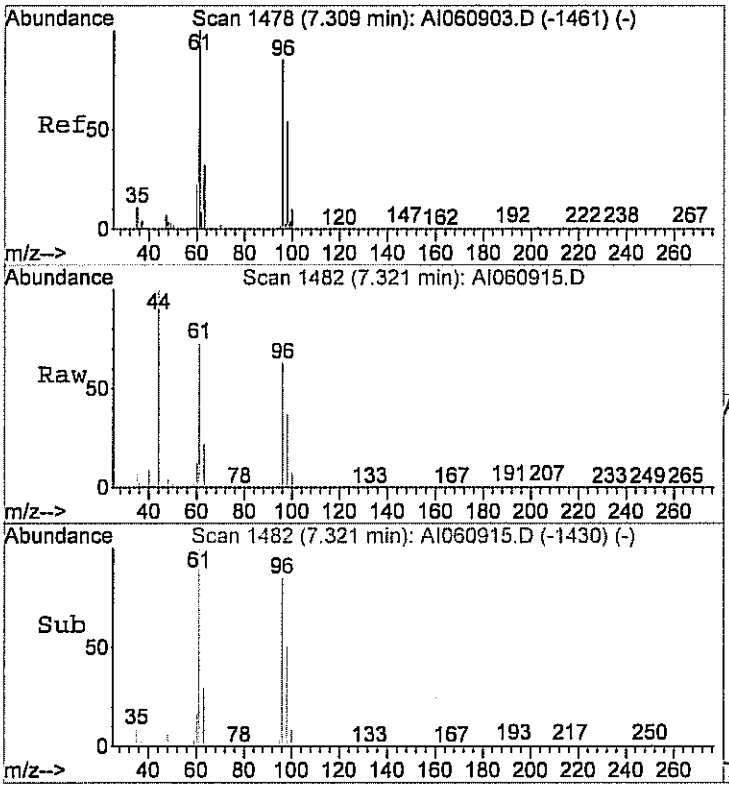


#25
Methyl Ethyl Ketone
Concen: 11.06 ppb
RT: 7.01 min Scan# 1379
Delta R.T. -0.05 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 72 Resp: 91508

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	66.2	106.2

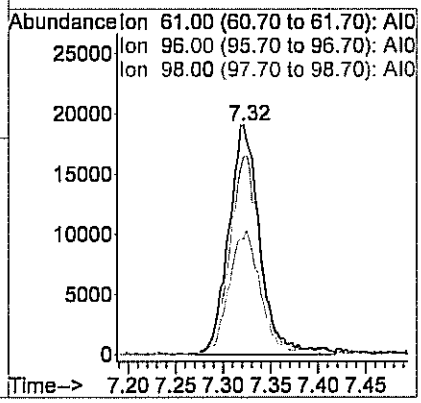


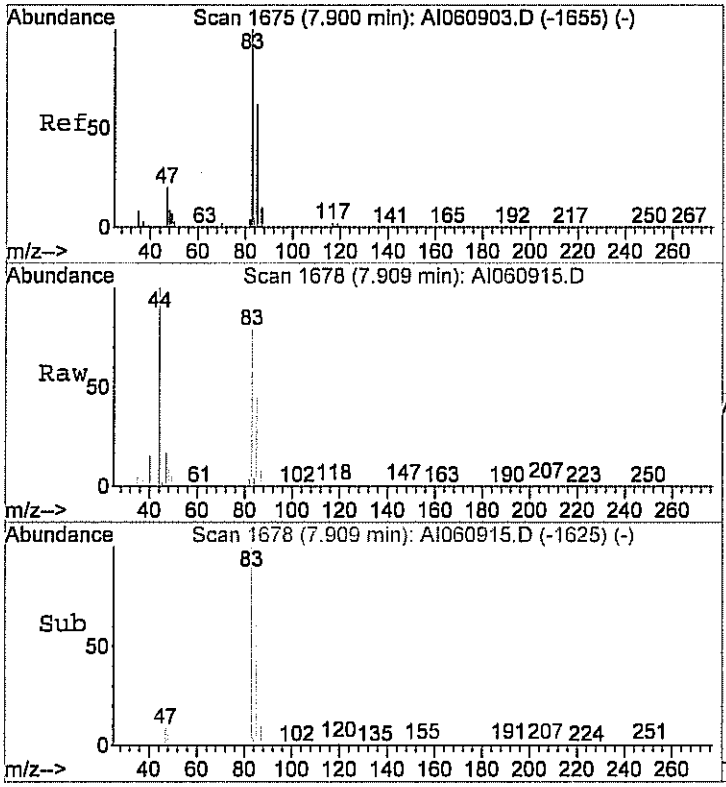


#26
cis-1,2-dichloroethene
Concen: 1.18 ppb
RT: 7.32 min Scan# 1482
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 61 Resp: 43439

Ion	Ratio	Lower	Upper
61	100		
96	85.9	66.5	106.5
98	55.9	37.7	77.7

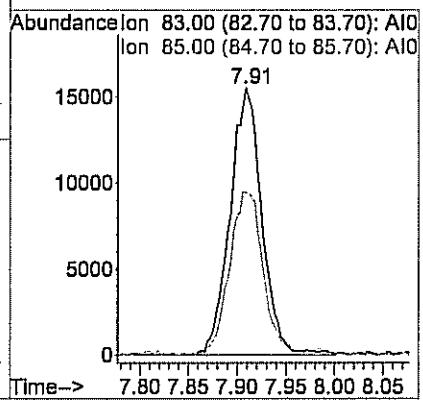


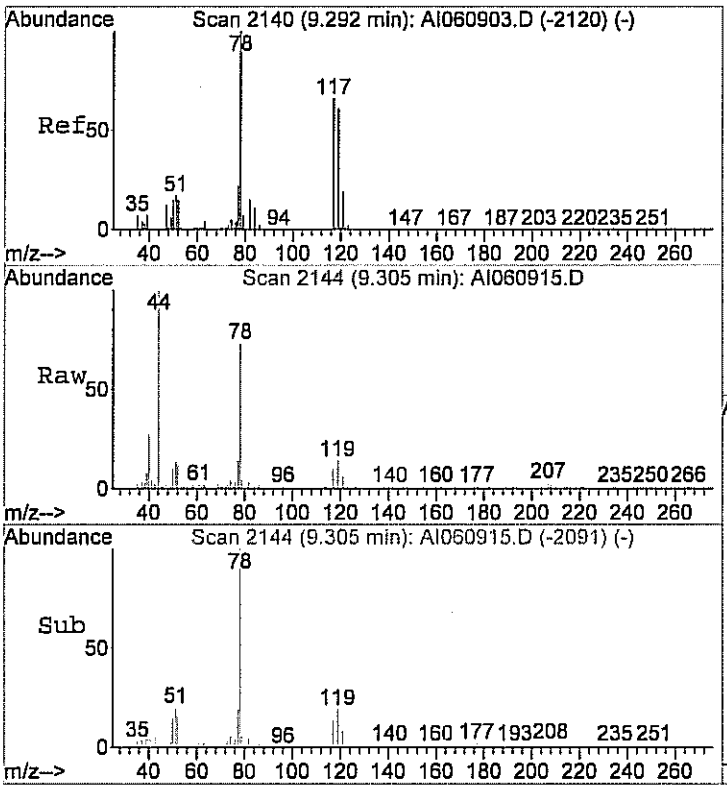


#29
Chloroform
Concen: 0.39 ppb
RT: 7.91 min Scan# 1678
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 83 Resp: 35019

Ion	Ratio	Lower	Upper
83	100		
85	65.9	46.1	86.1

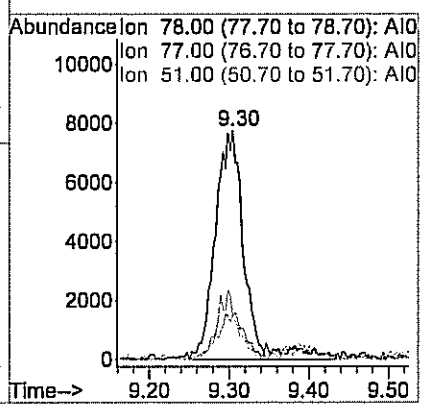


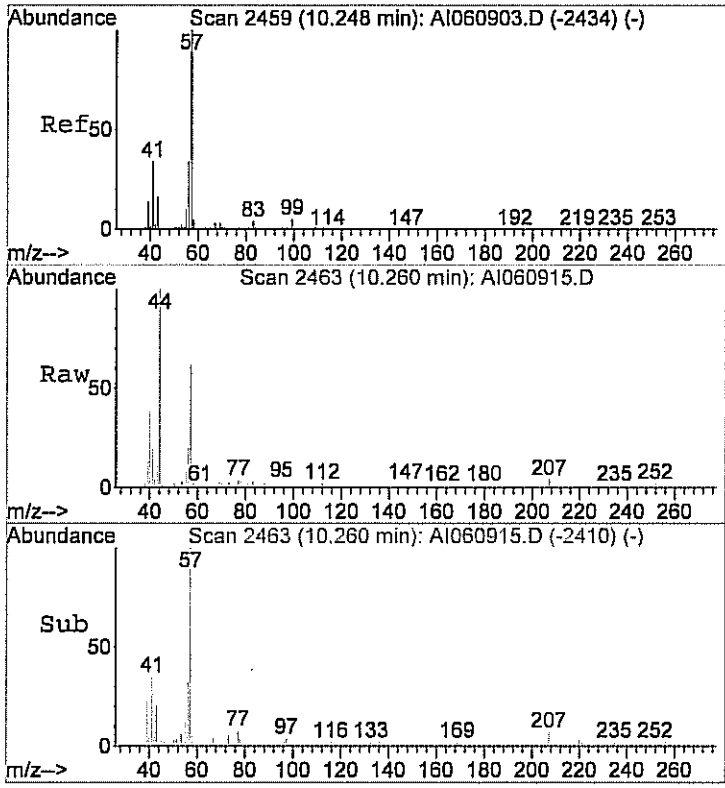


#36
Benzene
Concen: 0.22 ppb
RT: 9.30 min Scan# 2144
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 78 Resp: 19655

Ion	Ratio	Lower	Upper
78	100		
77	23.3	6.0	46.0
51	17.6	0.0	39.4

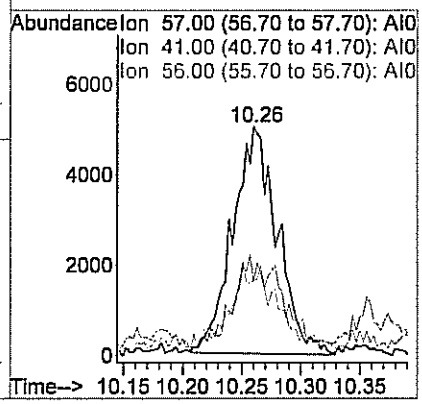


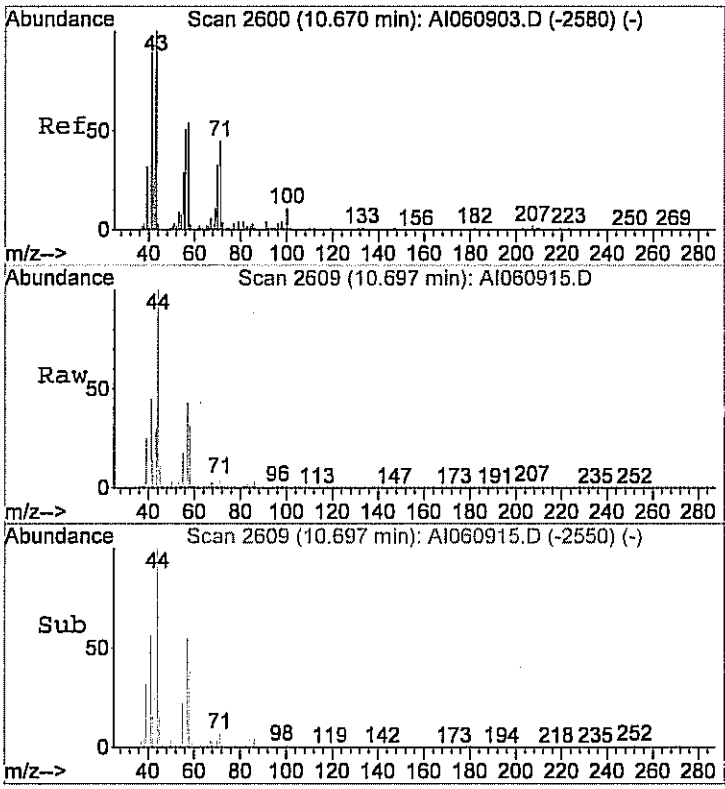


#39
2,2,4-trimethylpentane
Concen: 0.14 ppb
RT: 10.26 min Scan# 2463
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 57 Resp: 13117

Ion	Ratio	Lower	Upper
57	100		
41	46.1	18.5	58.5
56	30.5	16.9	56.9

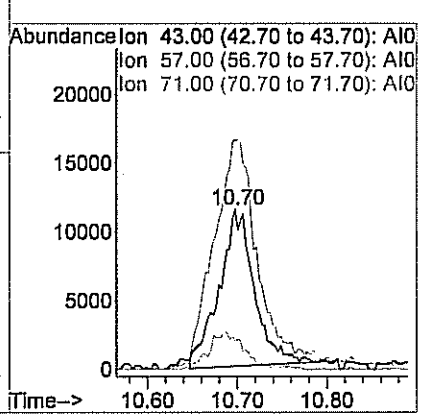


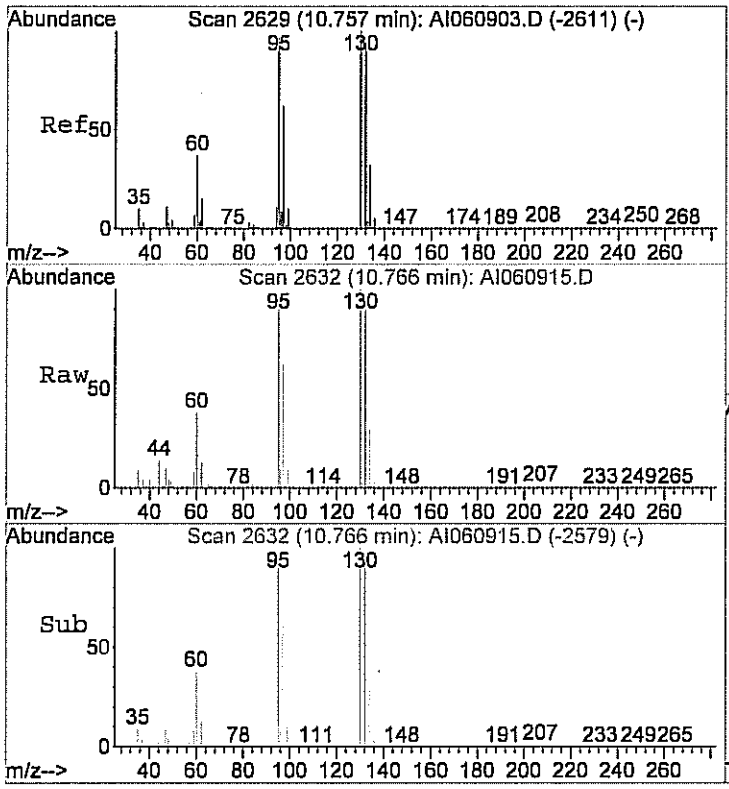


#40
Heptane
Concen: 1.06 ppb
RT: 10.70 min Scan# 2609
Delta R.T. 0.03 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 43 Resp: 31087

Ion	Ratio	Lower	Upper
43	100		
57	183.8	35.1	75.1#
71	25.1	35.4	75.4#

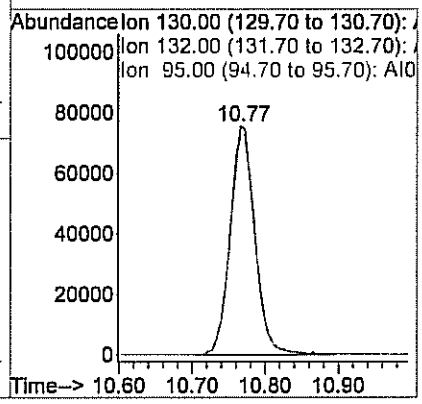


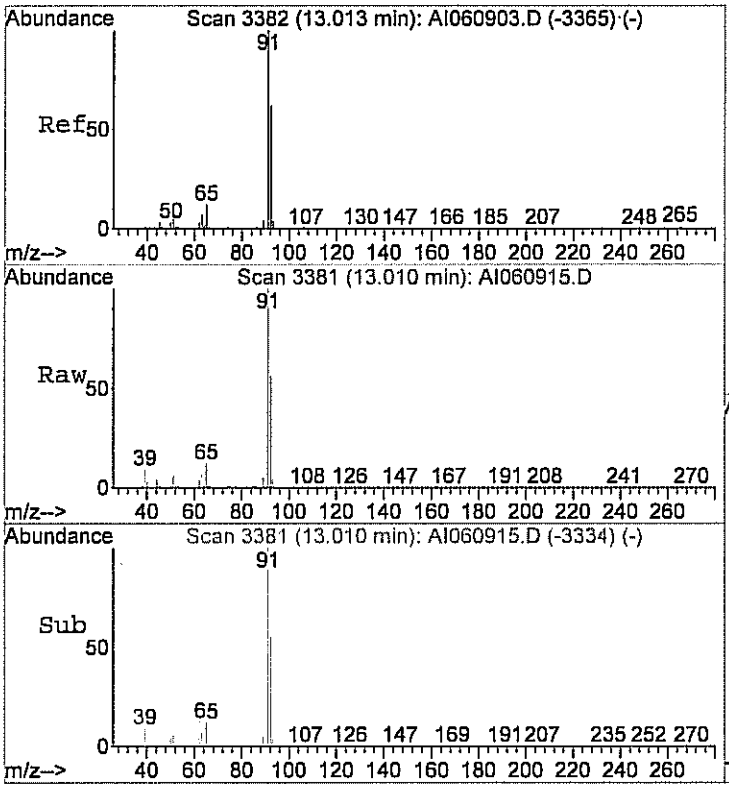


#41
Trichloroethene
Concen: 3.28 ppb
RT: 10.77 min Scan# 2632
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:130 Resp: 179460

Ion	Ratio	Lower	Upper
130	100		
132	97.2	76.9	116.9
95	95.6	73.2	113.2

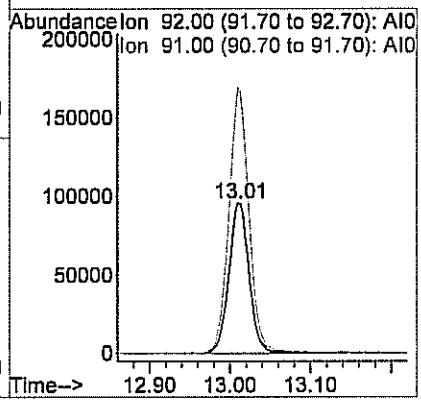


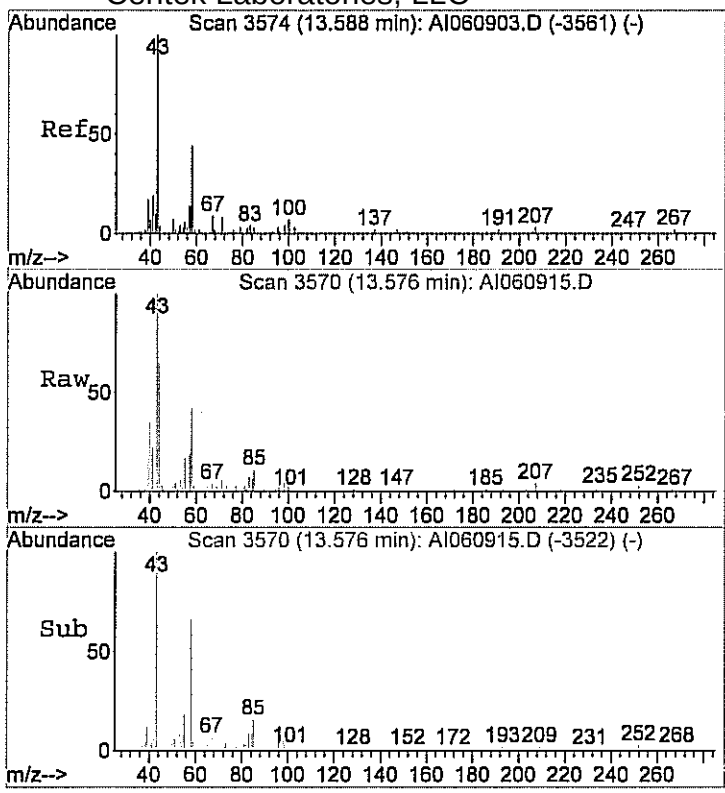


#48
Toluene
Concen: 3.19 ppb
RT: 13.01 min Scan# 3381
Delta R.T. -0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 92 Resp: 168265

Ion	Ratio	Lower	Upper
92	100		
91	174.9	155.3	195.3

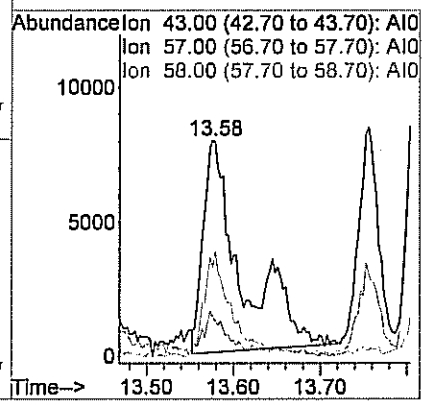


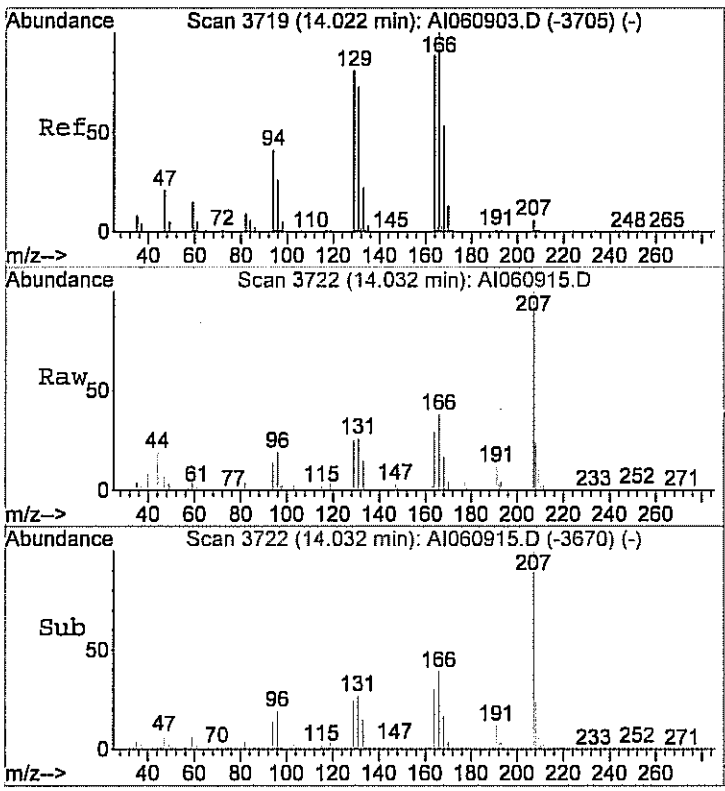


#51
Methyl Butyl Ketone
Concen: 1.20 ppb
RT: 13.58 min Scan# 3570
Delta R.T. -0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 43 Resp: 24127

Ion	Ratio	Lower	Upper
43	100		
57	17.4	0.0	31.7
58	35.3	16.9	56.9

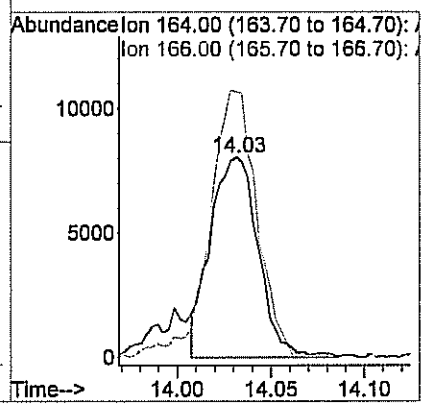


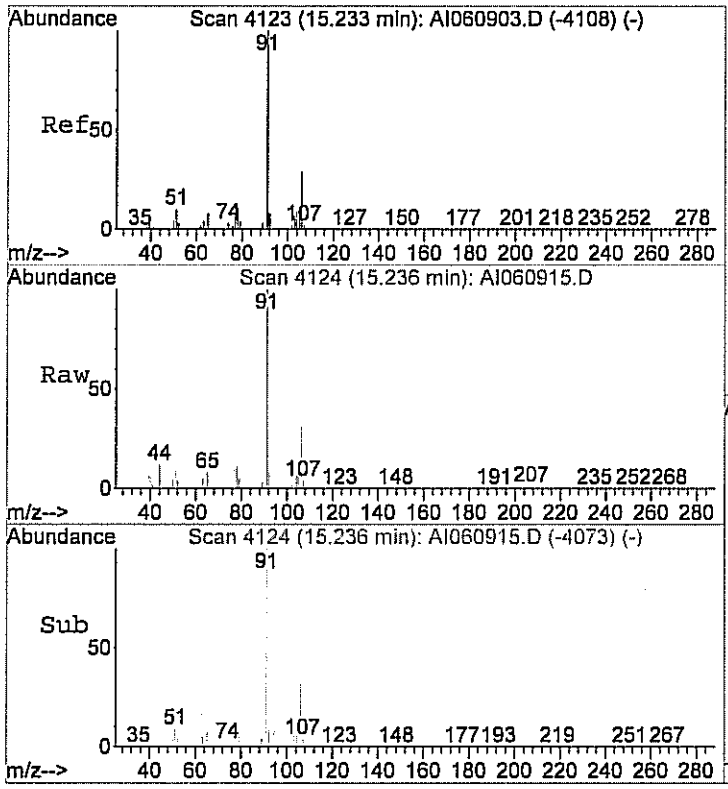


#53
Tetrachloroethylene
Concen: 0.22 ppb
RT: 14.03 min Scan# 3722
Delta R.T. 0.01 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:164 Resp: 14236

Ion	Ratio	Lower	Upper
164	100		
166	133.2	111.1	151.1

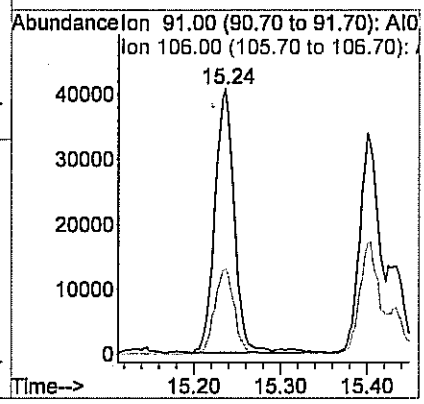


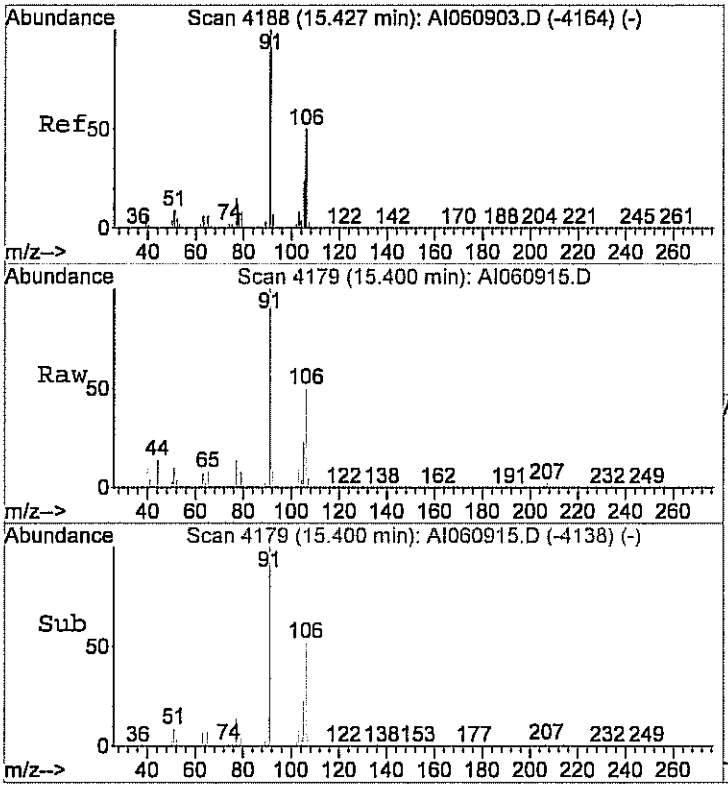


#55
Ethylbenzene
Concen: 0.72 ppb
RT: 15.24 min Scan# 4124
Delta R.T. 0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 91 Resp: 63101

Ion	Ratio	Lower	Upper
91	100		
106	33.4	12.0	52.0

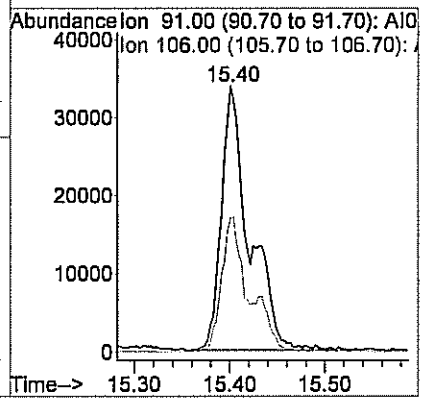


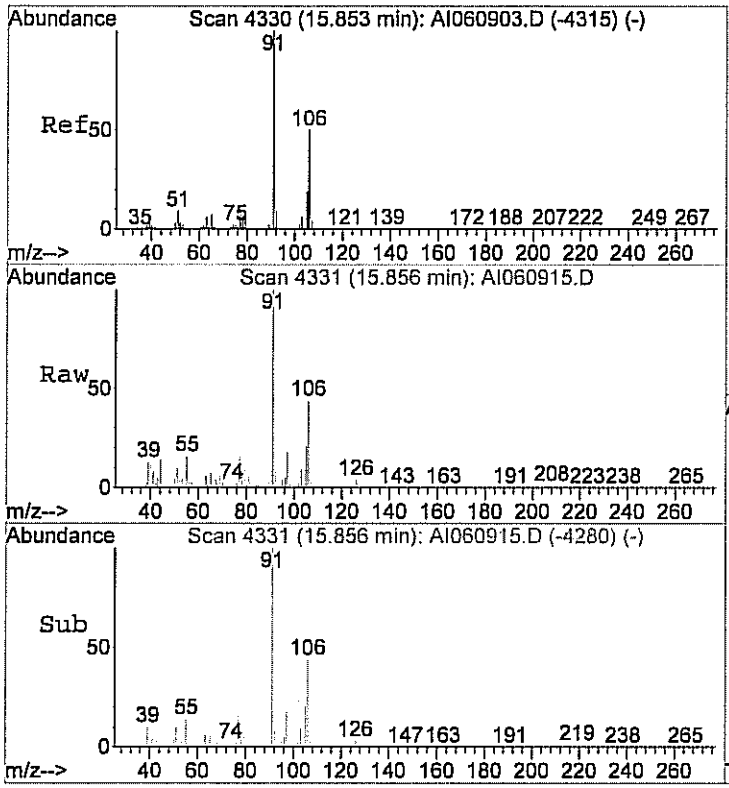


#56
m&p-xylene
Concen: 0.93 ppb
RT: 15.40 min Scan# 4179
Delta R.T. -0.03 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 91 Resp: 68979

Ion	Ratio	Lower	Upper
91	100		
106	52.0	30.5	70.5

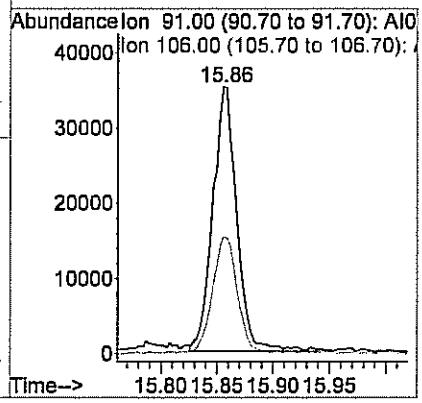


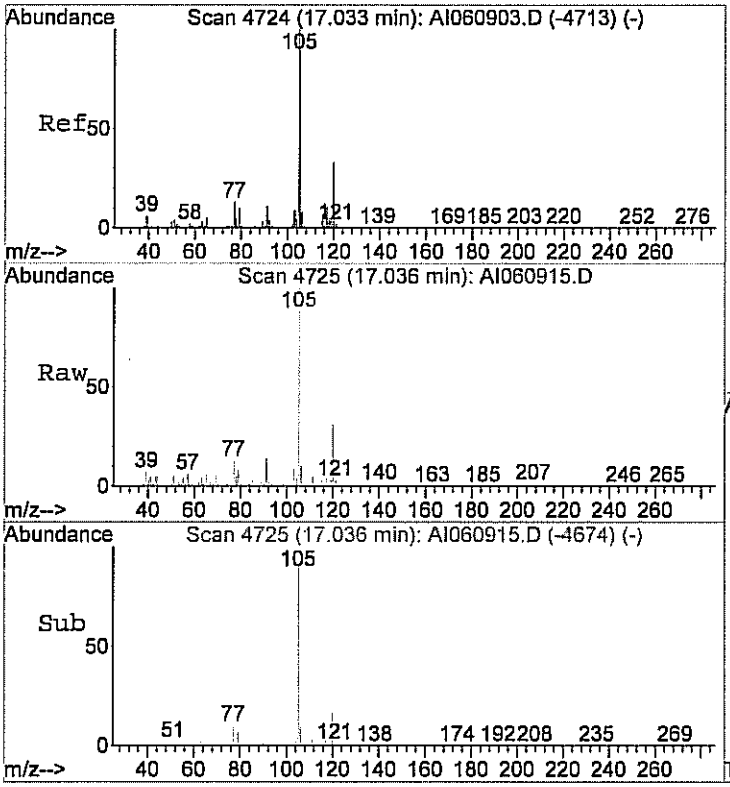


#59
o-xylene
Concen: 0.58 ppb
RT: 15.86 min Scan# 4331
Delta R.T. 0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion: 91 Resp: 52360

Ion	Ratio	Lower	Upper
91	100		
106	46.0	28.2	68.2

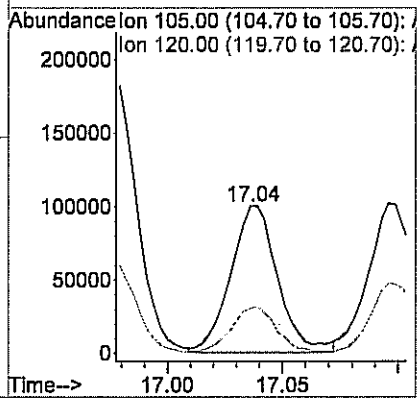


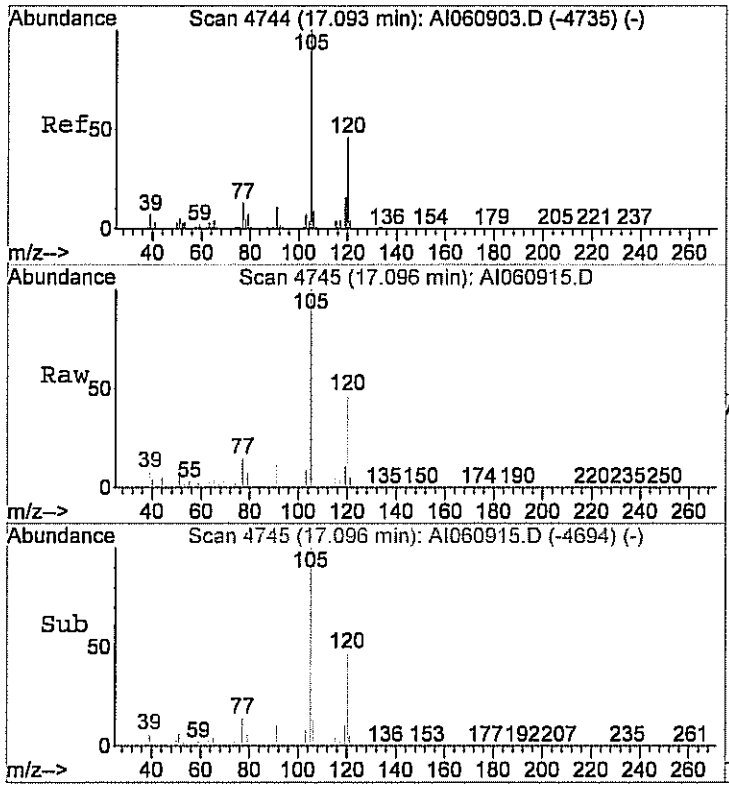


#63
4-ethyltoluene
Concen: 2.13 ppb
RT: 17.04 min Scan# 4725
Delta R.T. 0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:105 Resp: 142808

Ion	Ratio	Lower	Upper
105	100		
120	30.5	9.7	49.7

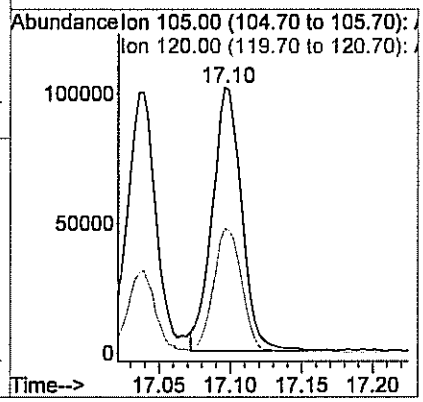


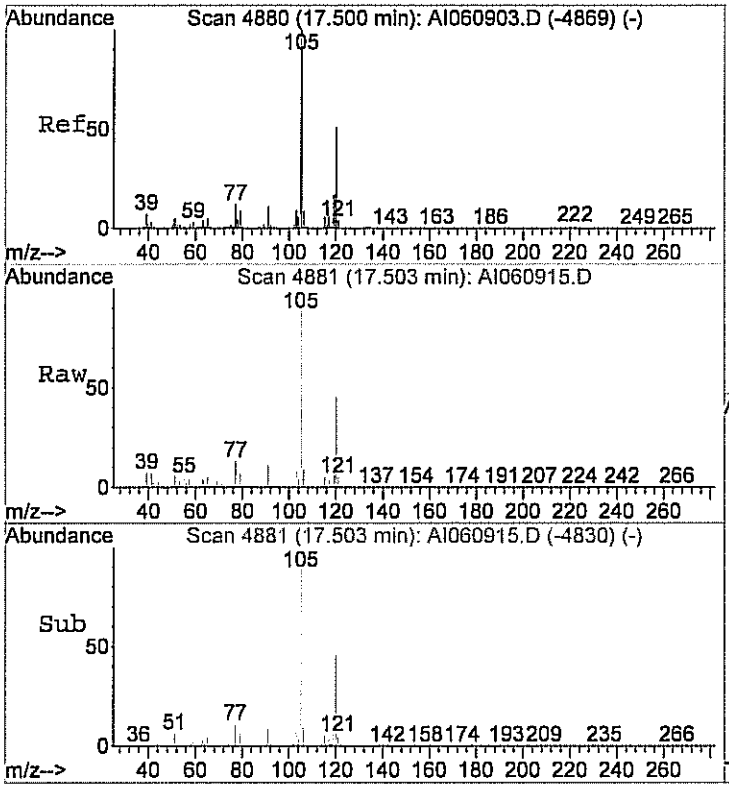


#64
1,3,5-trimethylbenzene
Concen: 1.89 ppb
RT: 17.10 min Scan# 4745
Delta R.T. 0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:105 Resp: 145734

Ion	Ratio	Lower	Upper
105	100		
120	46.1	29.4	69.4

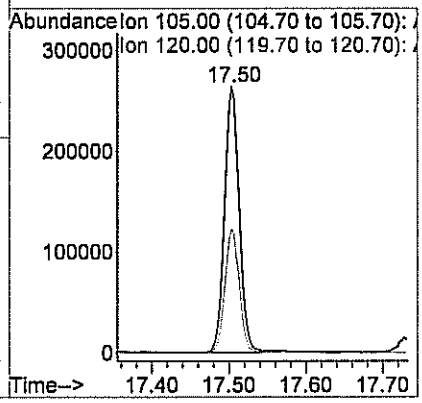




#65
1,2,4-trimethylbenzene
Concen: 6.73 ppb
RT: 17.50 min Scan# 4881
Delta R.T. 0.00 min
Lab File: AI060915.D
Acq: 9 Jun 2011 8:46 pm

Tgt Ion:105 Resp: 352607

Ion	Ratio	Lower	Upper
105	100		
120	46.3	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060921.D Vial: 37
Acq On : 10 Jun 2011 12:31 am Operator: RJP
Sample : C1106012-002A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 00:52:00 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	35231	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.09	114	86170	1.00	ppb		0.01
47) Chlorobenzene-d5	14.93	117	82537	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	37546	1.06	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 106.00%				
Target Compounds							Qvalue
14) Acetone	4.44	58	88720	10.51	ppb		91
18) Methylene chloride	5.20	84	18582	0.70	ppb		94
25) Methyl Ethyl Ketone	7.05	72	6843	0.86	ppb	#	85
41) Trichloroethene	10.76	130	43071	0.86	ppb		99
48) Toluene	13.02	92	15395	0.38	ppb		93
65) 1,2,4-trimethylbenzene	17.51	105	25008	0.62	ppb		98

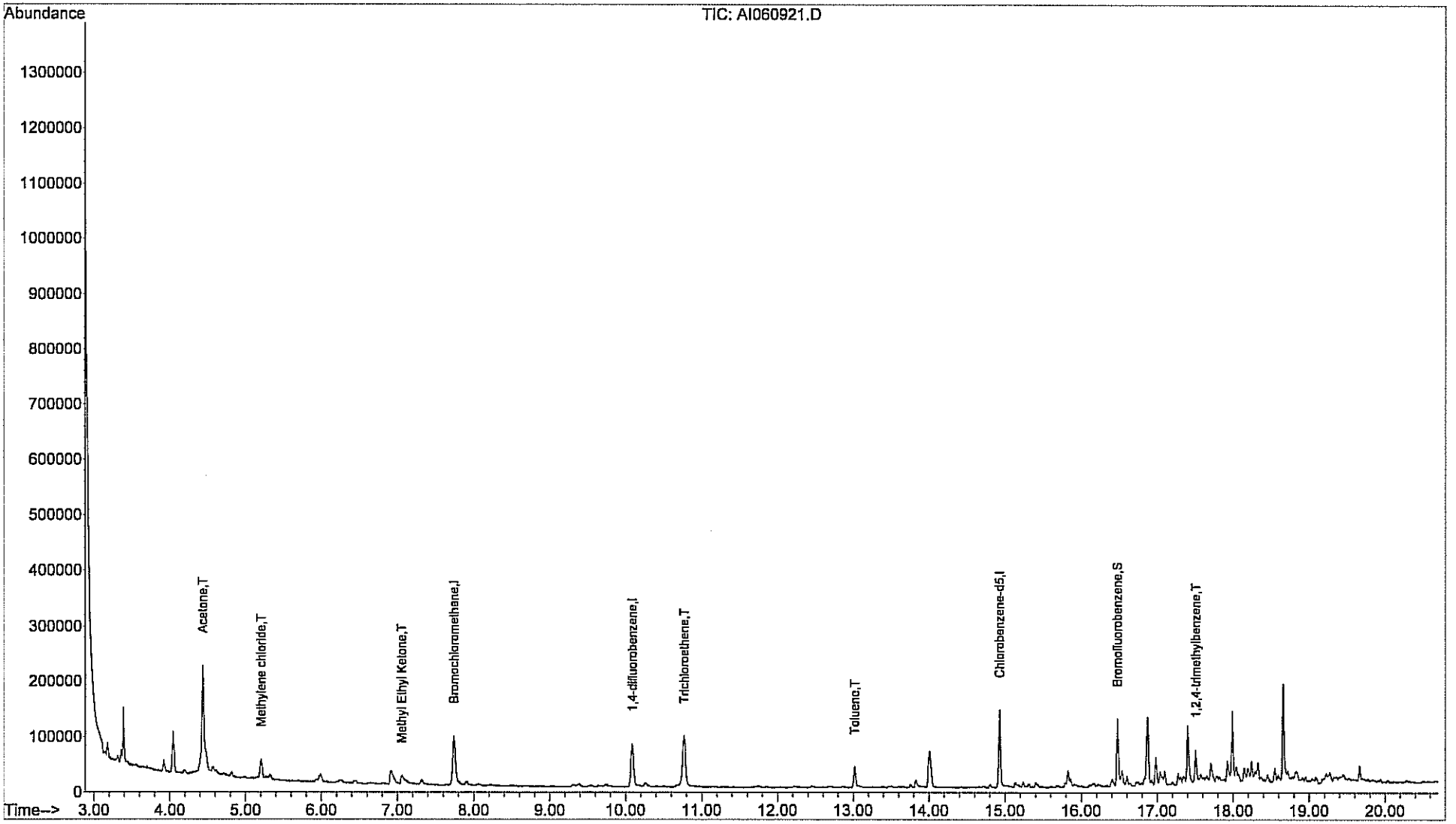
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060921.D A606_1UG.M Wed Jul 06 18:18:23 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

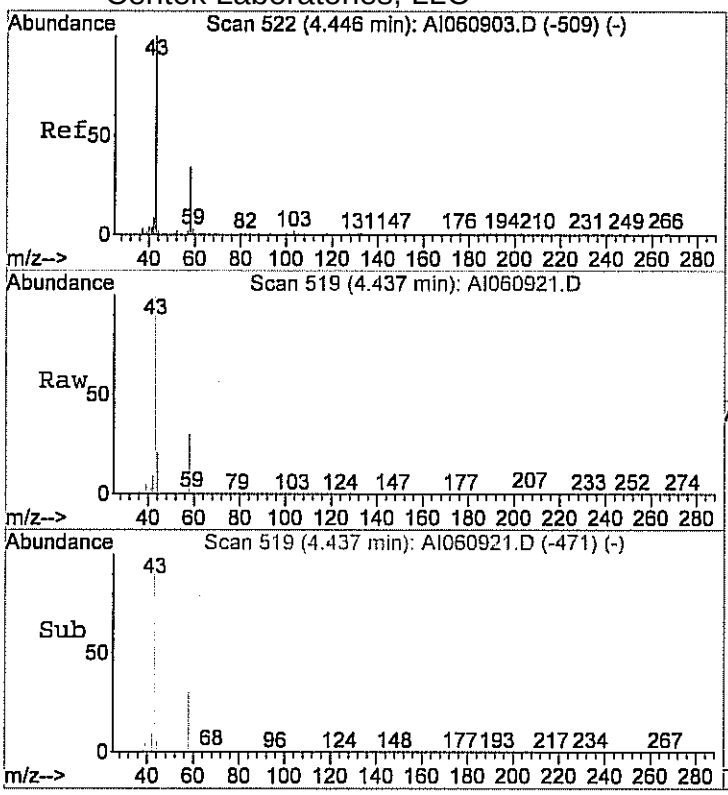
Data File : C:\HPCHEM\1\DATA\AI060921.D
Acq On : 10 Jun 2011 12:31 am
Sample : C1106012-002A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 16 11:03 2011

Vial: 37
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



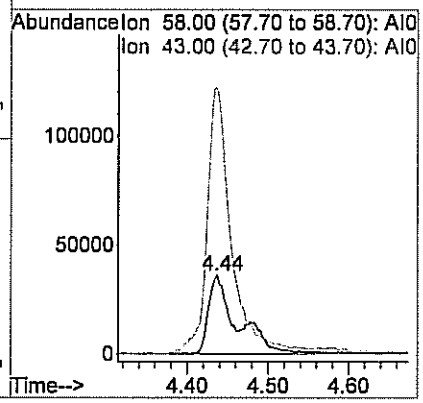
Centek Laboratories, LLC

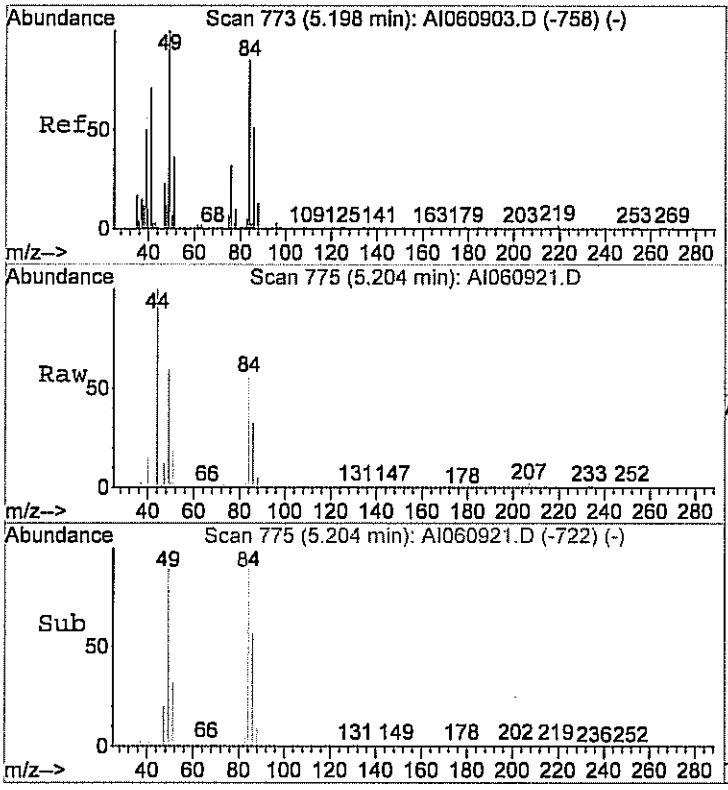


#14
Acetone
Concen: 10.51 ppb
RT: 4.44 min Scan# 519
Delta R.T. -0.01 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion: 58 Resp: 88720

Ion	Ratio	Lower	Upper
58	100		
43	293.4	282.0	342.0

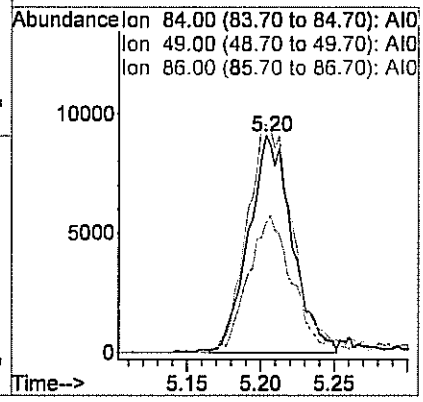


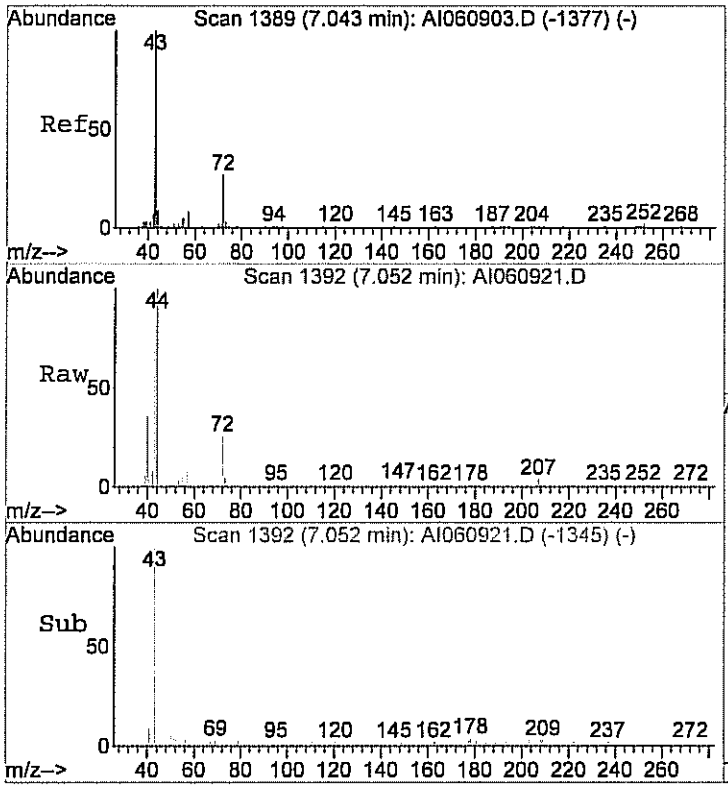


#18
Methylene chloride
Concen: 0.70 ppb
RT: 5.20 min Scan# 775
Delta R.T. 0.01 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion: 84 Resp: 18582

Ion	Ratio	Lower	Upper
84	100		
49	117.9	105.0	145.0
86	67.8	43.4	83.4

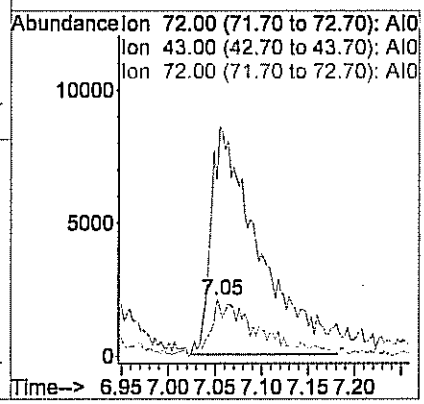


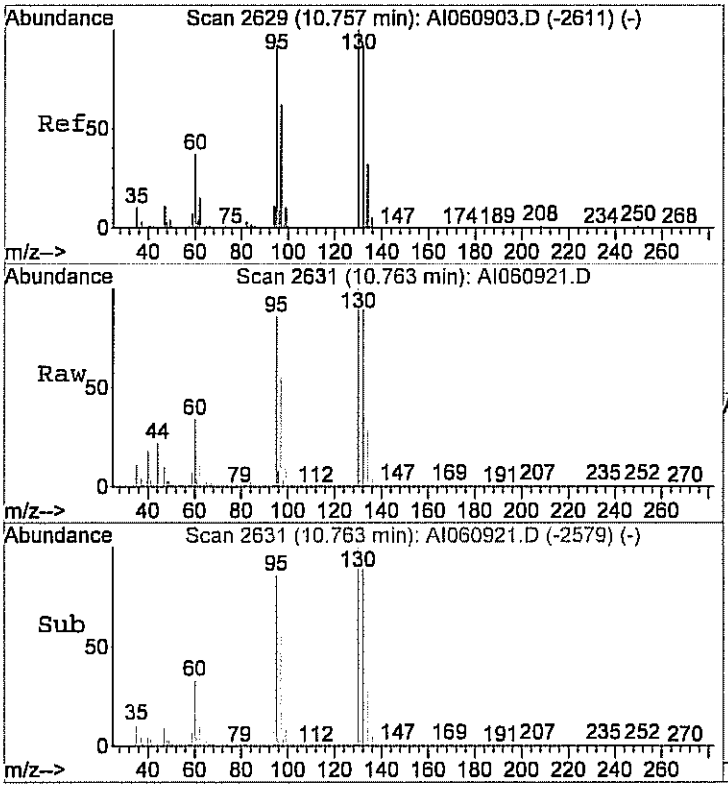


#25
Methyl Ethyl Ketone
Concen: 0.86 ppb
RT: 7.05 min Scan# 1392
Delta R.T. -0.01 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion: 72 Resp: 6843

Ion	Ratio	Lower	Upper
72	100		
43	477.5	0.0	20.0#
72	100.0	66.2	106.2

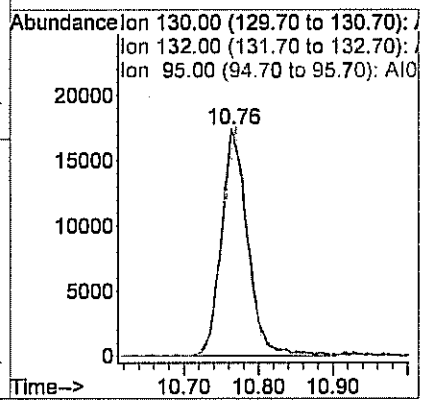


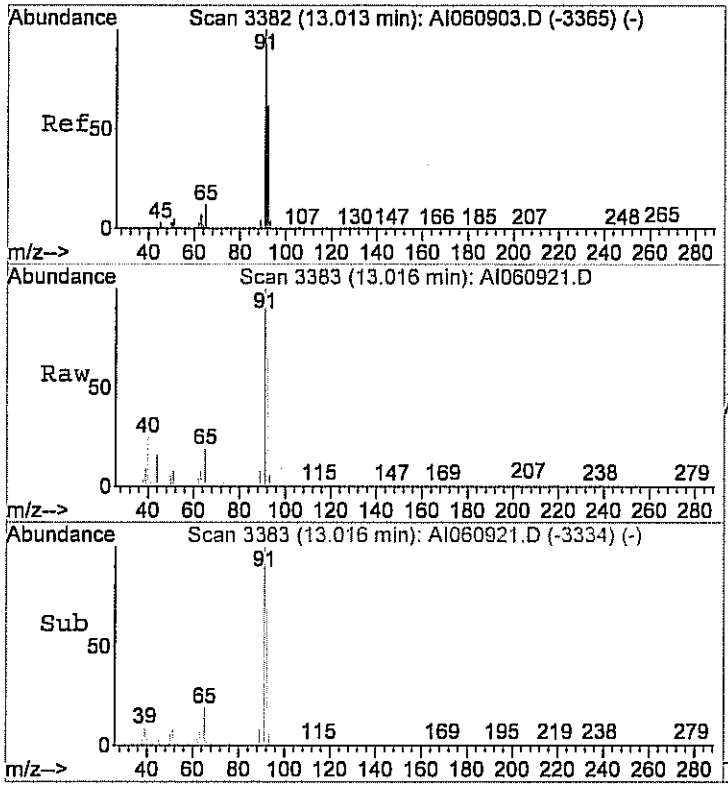


#41
Trichloroethene
Concen: 0.86 ppb
RT: 10.76 min Scan# 2631
Delta R.T. 0.01 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion:130 Resp: 43071

Ion	Ratio	Lower	Upper
130	100		
132	97.0	76.9	116.9
95	95.2	73.2	113.2

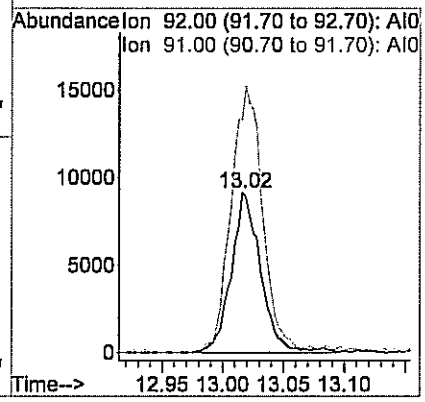


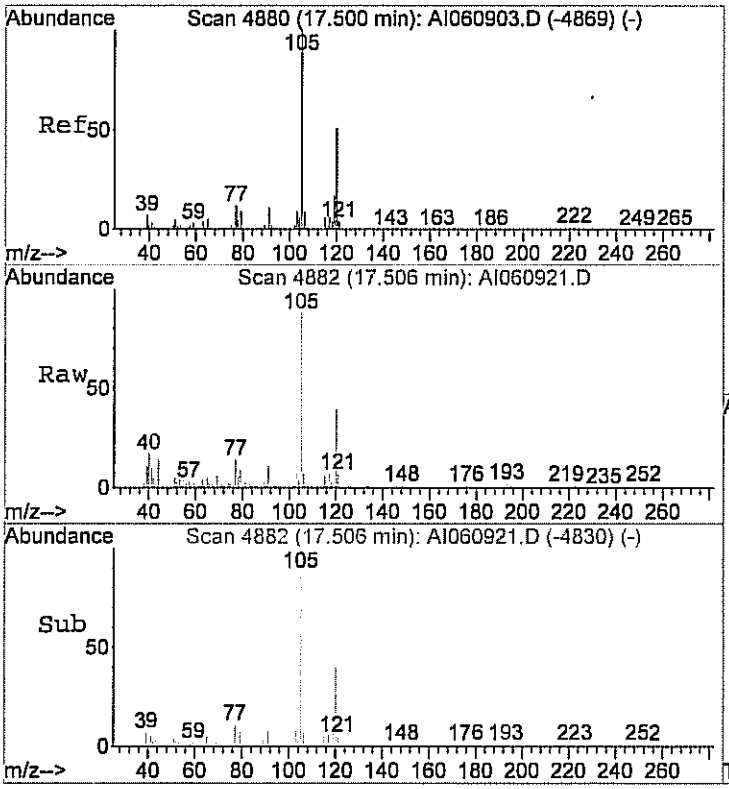


#48
Toluene
Concen: 0.38 ppb
RT: 13.02 min Scan# 3383
Delta R.T. -0.00 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion: 92 Resp: 15395

Ion	Ratio	Lower	Upper
92	100		
91	184.5	155.3	195.3

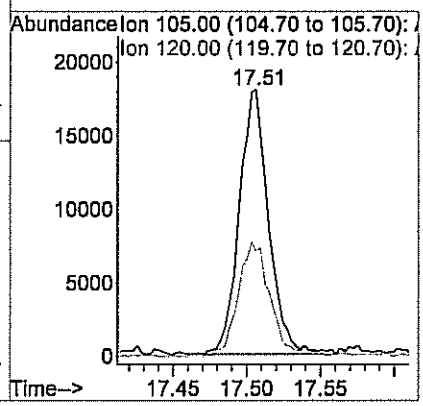




#65
1,2,4-trimethylbenzene
Concen: 0.62 ppb
RT: 17.51 min Scan# 4882
Delta R.T. 0.01 min
Lab File: AI060921.D
Acq: 10 Jun 2011 12:31 am

Tgt Ion:105 Resp: 25008

Ion	Ratio	Lower	Upper
105	100		
120	46.9	25.4	65.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061306.D Vial: 47
Acq On : 13 Jun 2011 1:05 pm Operator: RJP
Sample : C1106012-002A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 13:26:00 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	33392	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	76048	1.00	ppb	0.00
47) Chlorobenzene-d5	14.93	117	74650	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30693	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
14) Acetone	4.45	58	5713	0.71	ppb	93

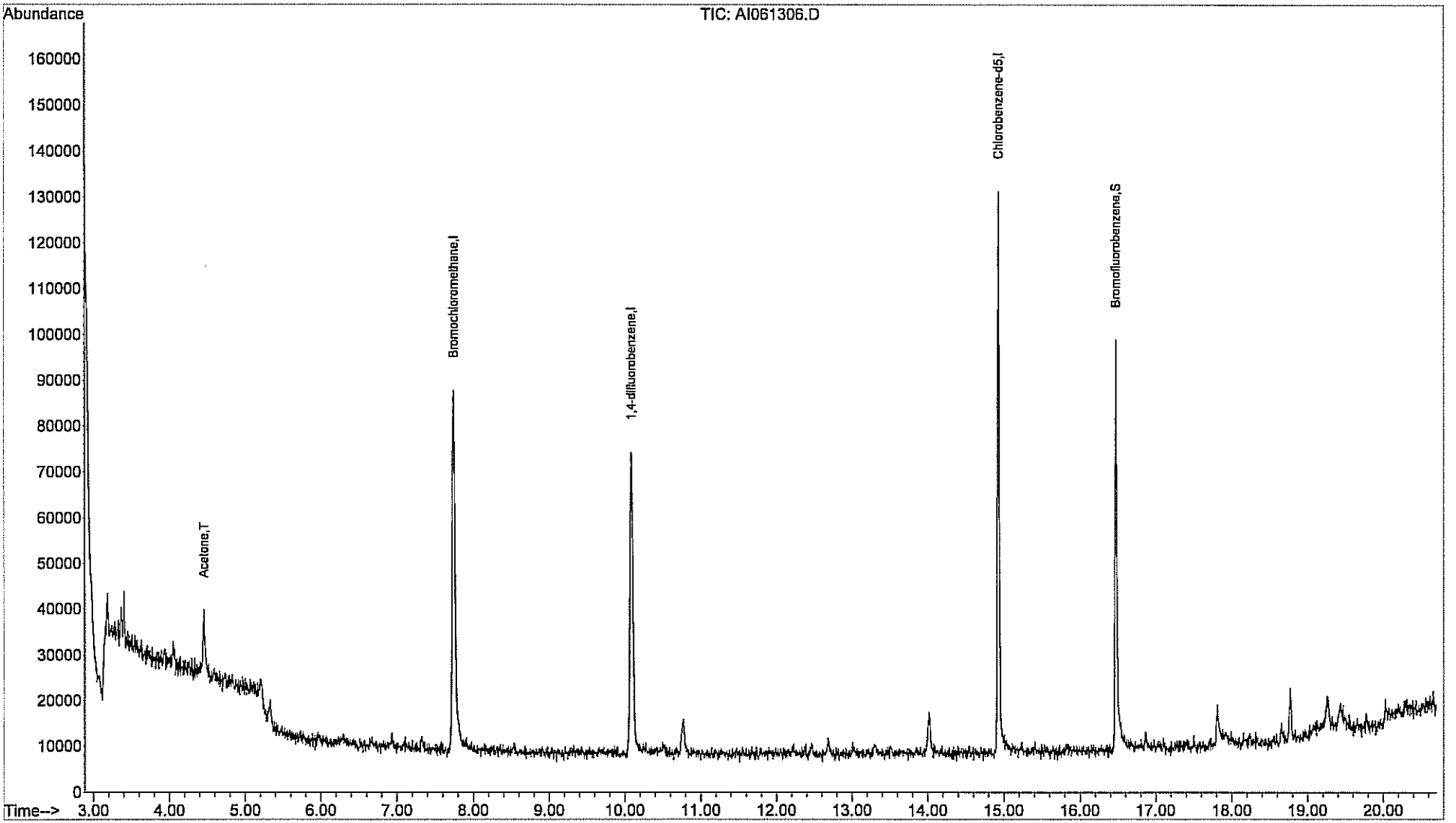
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

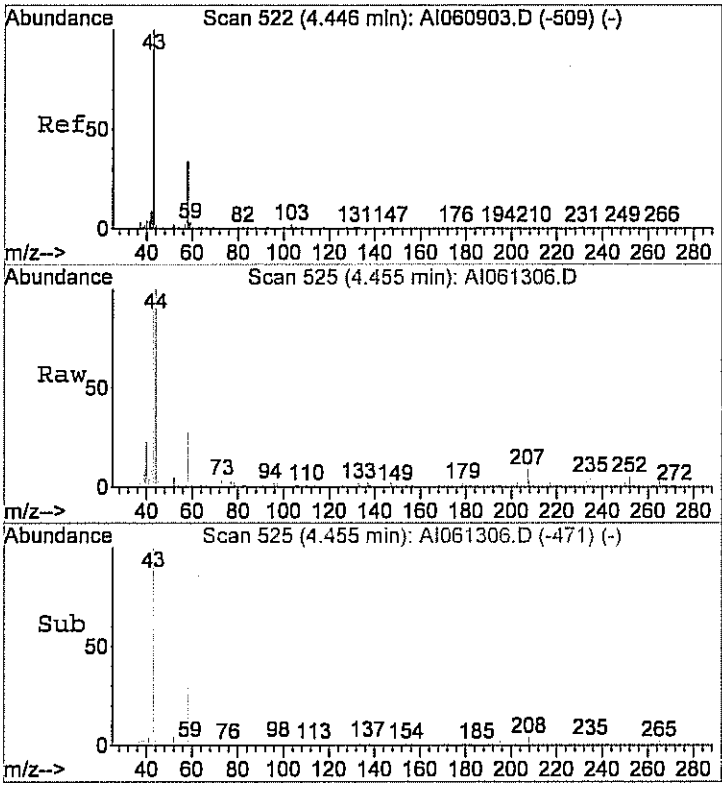
Data File : C:\HPCHEM\1\DATA\AI061306.D
Acq On : 13 Jun 2011 1:05 pm
Sample : C1106012-002A 90X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 16 11:04 2011

Vial: 47
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



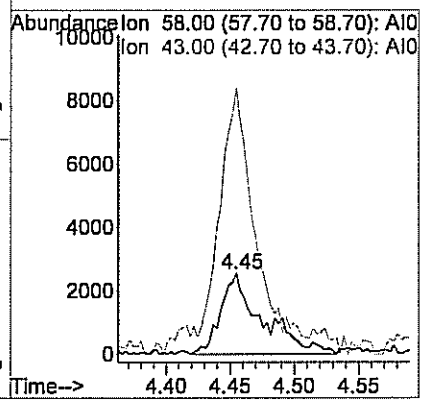
Centek Laboratories, LLC



#14
Acetone
Concen: 0.71 ppb
RT: 4.45 min Scan# 525
Delta R.T. 0.01 min
Lab File: AI061306.D
Acq: 13 Jun 2011 1:05 pm

Tgt Ion: 58 Resp: 5713

Ion	Ratio	Lower	Upper
58	100		
43	298.5	282.0	342.0



Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.10	0.15	J	ppbV	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:07:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.32	0.47	J	ug/m3	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:07:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060914.D Vial: 30
Acq On : 9 Jun 2011 8:07 pm Operator: RJP
Sample : C1106012-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 20:28:12 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

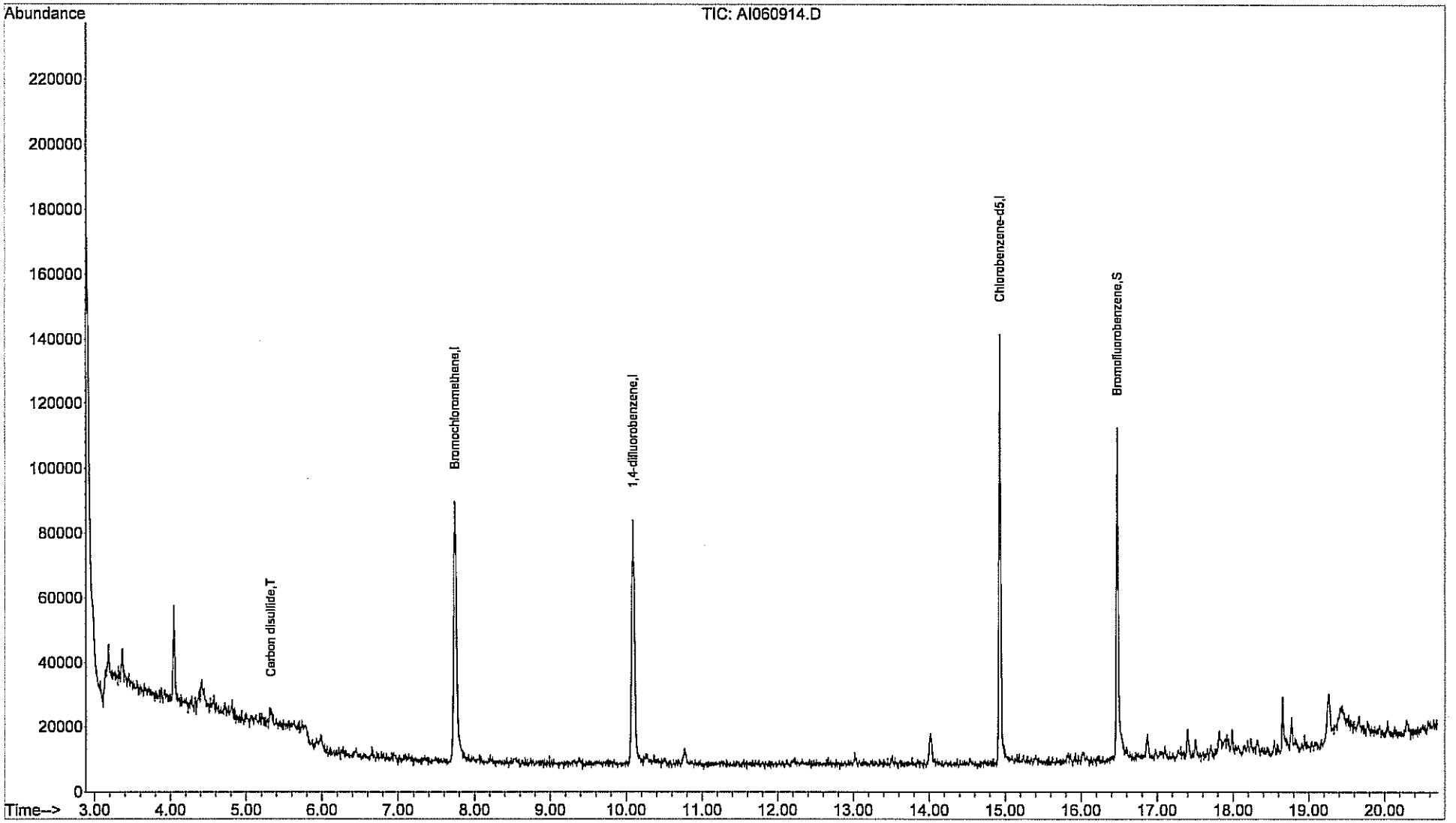
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.75	128	33477	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	84202	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	81323	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	33673	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
20) Carbon disulfide	5.32	76	8634	0.10	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

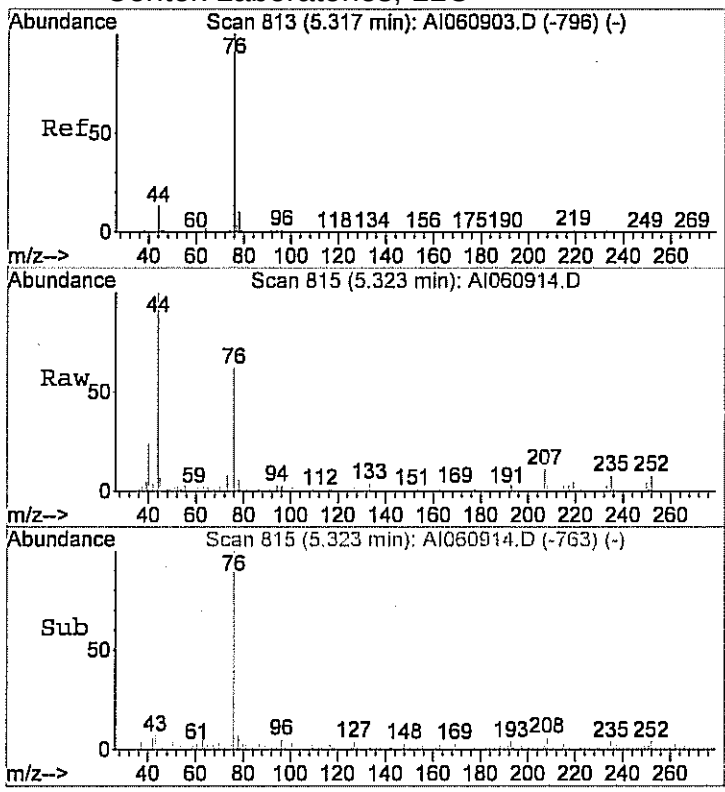
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060914.D Vial: 30
Acq On : 9 Jun 2011 8:07 pm Operator: RJP
Sample : C1106012-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 16 10:27 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



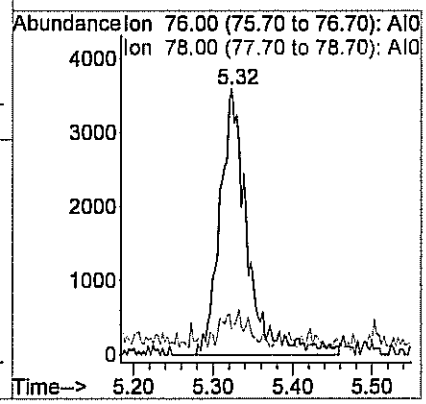
Centek Laboratories, LLC



#20
Carbon disulfide
Concen: 0.10 ppb
RT: 5.32 min Scan# 815
Delta R.T. 0.01 min
Lab File: AI060914.D
Acq: 9 Jun 2011 8:07 pm

Tgt Ion: 76 Resp: 8634

Ion	Ratio	Lower	Upper
76	100		
78	11.7	0.0	31.9



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI060604.D 0.10 =AI060615.D 0.15 =AI060612.D
0.30 =AI060611.D 0.50 =AI060610.D 0.75 =AI060609.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	----------		ISTD					
2)	T	Propylene			0.737	0.656	0.565	0.573	0.592	13.15
3)	T	Freon 12			3.884	3.757	3.413	3.371	3.420	8.84
4)	T	Chloromethane			1.028	0.897	0.847	0.780	0.831	12.67
5)	T	Freon 114			2.790	2.513	2.358	2.406	2.391	8.83
6)	T	Vinyl Chloride	1.122	0.641	0.783	0.751	0.661	0.678	0.727	21.73
7)	T	1,3-butadiene			0.778	0.434	0.477	0.437	0.488	26.50
8)	T	Bromomethane			1.065	0.885	0.838	0.826	0.860	11.10
9)	T	Ethanol			0.201	0.230	0.279	0.196	0.223	12.22
10)	T	Acrolein			0.188	0.138	0.151	0.156	0.155	10.28
11)	T	Chloroethane			0.348	0.306	0.283	0.279	0.279	13.56
12)	T	Vinyl Bromide			0.969	0.896	0.798	0.829	0.842	8.36
13)	T	Freon 11			2.790	2.509	2.335	2.266	2.338	10.27
14)	T	Acetone				0.294	0.239	0.228	0.240	11.99
15)	T	Isopropyl alcoh			0.876	0.703	0.662	0.649	0.679	14.27
16)	T	1,1-dichloroeth			0.950	0.746	0.732	0.716	0.733	14.08
17)	T	Freon 113			1.966	1.718	1.619	1.644	1.641	10.11
18)	T	Methylene chlor			0.677	0.812	0.635	0.700	0.755	12.35
19)	T	Allyl chloride			0.828	0.772	0.634	0.659	0.711	12.73
20)	T	Carbon disulfid			2.911	2.488	2.509	2.348	2.520	15.46
21)	T	trans-1,2-dichl			1.338	1.249	1.180	1.188	1.190	6.84
22)	T	methyl tert-but			1.522	1.421	1.366	1.460	1.475	4.60
23)	T	1,1-dichloroeth			1.980	1.839	1.747	1.695	1.751	6.92
24)	T	Vinyl acetate			0.971	0.859	0.884	0.922	0.931	5.55
25)	T	Methyl Ethyl Ke			0.257	0.221	0.205	0.211	0.227	7.66
26)	T	cis-1,2-dichlor			1.028	1.047	0.991	1.016	1.009	2.26
27)	T	Hexane			0.708	0.655	0.648	0.685	0.687	4.85
28)	T	Ethyl acetate			1.075	0.941	0.970	1.020	1.004	4.29
29)	T	Chloroform			2.763	2.560	2.441	2.445	2.473	6.26
30)	T	Tetrahydrofuran			0.421	0.424	0.375	0.391	0.414	6.37
31)	T	1,2-dichloroeth			1.627	1.411	1.342	1.398	1.390	8.04
32)	I	1,4-difluorobenzene	----------		ISTD					
33)	T	1,1,1-trichloro			1.276	1.097	1.055	1.035	1.049	10.90
34)	T	Cyclohexane			0.308	0.264	0.261	0.287	0.292	8.41
35)	T	Carbon tetrachl	2.185	1.252	1.451	1.252	1.212	1.201	1.324	25.59
36)	T	Benzene			1.060	0.992	0.935	0.968	0.965	5.00
37)	T	Methyl methacry			0.180	0.152	0.153	0.153	0.156	10.72
38)	T	1,4-dioxane				0.077	0.058	0.075	0.076	12.71
39)	T	2,2,4-trimethyl			1.005	0.918	0.912	0.966	0.967	4.71
40)	T	Heptane			0.306	0.298	0.280	0.302	0.310	7.79
41)	T	Trichloroethene	0.962	0.495	0.583	0.516	0.517	0.539	0.580	25.06
42)	T	1,2-dichloropro			0.395	0.353	0.359	0.359	0.361	4.59
43)	T	Bromodichlorome			1.078	0.949	0.929	0.921	0.934	7.38
44)	T	cis-1,3-dichlor			0.394	0.366	0.366	0.366	0.377	3.52
45)	T	trans-1,3-dichl			0.325	0.288	0.286	0.300	0.299	4.85
46)	T	1,1,2-trichloro			0.523	0.470	0.469	0.487	0.481	4.29
47)	I	Chlorobenzene-d5	----------		ISTD					
48)	T	Toluene			0.488	0.425	0.426	0.480	0.494	12.25
49)	T	Methyl Isobutyl			0.369	0.284	0.263	0.284	0.318	12.71
50)	T	Dibromochlorome			1.130	1.011	0.933	0.967	0.979	7.61
51)	T	Methyl Butyl Ke			0.174	0.228	0.189	0.174	0.189	11.56

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI060604.D 0.10 =AI060615.D 0.15 =AI060612.D
0.30 =AI060611.D 0.50 =AI060610.D 0.75 =AI060609.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52)	T	1,2-dibromoetha			0.735	0.692	0.643	0.675	0.680	4.15
53)	T	Tetrachloroethy			0.720	0.625	0.579	0.598	0.619	7.64
54)	T	Chlorobenzene			0.881	0.831	0.815	0.819	0.837	2.62
55)	T	Ethylbenzene			0.756	0.744	0.723	0.789	0.823	13.15
56)	T	m&p-xylene			0.612	0.547	0.578	0.657	0.696	19.81
57)	T	Styrene			0.386	0.361	0.351	0.378	0.398	11.57
58)	T	Bromoform			0.907	0.849	0.830	0.862	0.863	2.71
59)	T	o-xylene			0.812	0.608	0.836	0.719	0.851	22.57
60)	S	Bromofluorobenz	0.399	0.407	0.409	0.414	0.415	0.438	0.428	7.30
61)	T	1,1,2,2-tetrach			0.869	0.796	0.783	0.752	0.771	6.72
62)	T	2-Chlorotoluene			0.752	0.700	0.712	0.752	0.802	15.76
63)	T	4-ethyltoluene			0.530	0.499	0.511	0.577	0.626	22.78
64)	T	1,3,5-trimethyl			0.659	0.579	0.551	0.650	0.721	22.37
65)	T	1,2,4-trimethyl			0.437	0.404	0.419	0.469	0.490	18.35
66)	T	1,3-dichloroben			0.619	0.517	0.509	0.580	0.585	9.67
67)	T	benzyl chloride			0.417	0.333	0.361	0.393	0.399	11.82
68)	T	1,4-dichloroben			0.510	0.460	0.436	0.528	0.520	12.05
69)	T	1,2-dichloroben			0.562	0.516	0.481	0.556	0.552	7.89
70)	T	1,2,4-trichloro			0.273	0.217	0.215	0.242	0.239	9.62
71)	T	Naphthalene			0.394	0.270	0.223	0.275	0.299	18.59
72)	T	Hexachloro-1,3-			0.789	0.599	0.564	0.627	0.616	13.37

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060604.D Vial: 31
Acq On : 6 Jun 2011 3:20 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:29:46 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	32974	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	82728	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	76686	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30562	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.29	62	1480m	0.07	ppb	
35) Carbon tetrachloride	9.32	117	7230	0.08	ppb	98
41) Trichloroethene	10.75	130	3185	0.07	ppb	92

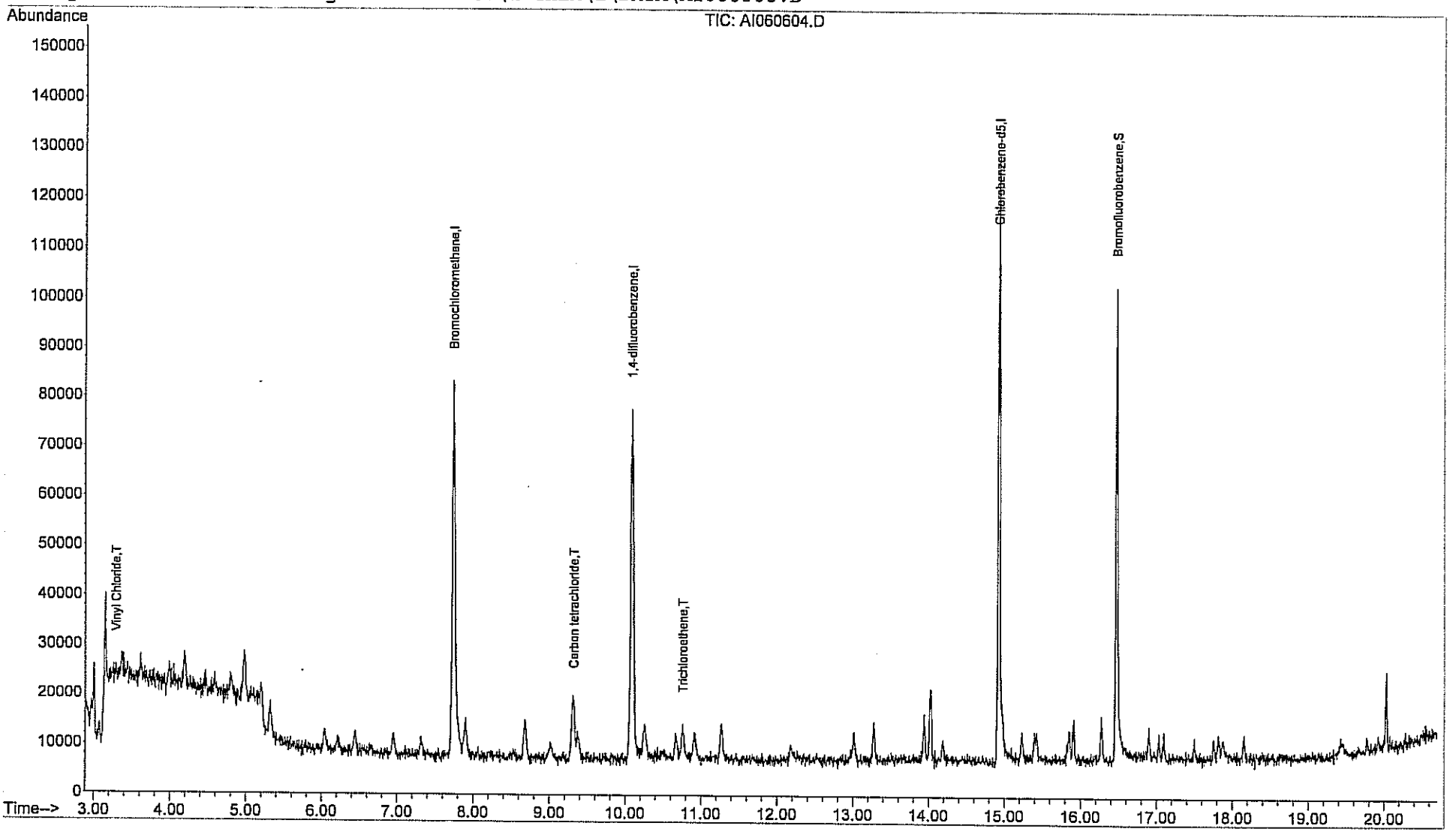
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060604.D A606_1UG.M Wed Jul 06 17:31:02 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI060604.D
Acq On : 6 Jun 2011 3:20 pm
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:24 2011

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060604.D A606_1UG.M Wed Jul 06 17:31:02 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060605.D Vial: 32
Acq On : 6 Jun 2011 3:56 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:09:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34879	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	89058	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	89625	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	42492	1.16	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 116.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	35656	1.81	ppb		93
3) Freon 12	3.00	85	213635	1.84	ppb		99
4) Chloromethane	3.15	50	49855	1.79	ppb		98
5) Freon 114	3.15	85	151263	1.88	ppb		100
6) Vinyl Chloride	3.29	62	43694	1.89	ppb		99
7) 1,3-butadiene	3.36	39	29106	1.89	ppb		85
8) Bromomethane	3.61	94	54784	1.92	ppb		96
9) Ethanol	3.92	45	15307m	2.12	ppb		
10) Acrolein	4.36	56	9977	1.81	ppb		96
11) Chloroethane	3.74	64	16966	1.96	ppb		99
12) Vinyl Bromide	3.98	106	55085	1.85	ppb		97
13) Freon 11	4.19	101	148186	1.90	ppb		99
14) Acetone	4.44	58	15226	1.79	ppb		96
15) Isopropyl alcohol	4.57	45	39158	1.74	ppb		87
16) 1,1-dichloroethene	4.80	96	44528	1.83	ppb		99
17) Freon 113	4.97	101	102706	1.88	ppb		98
18) Methylene chloride	5.19	84	58328	1.86	ppb		94
19) Allyl chloride	5.19	41	51914	1.92	ppb		92
20) Carbon disulfide	5.31	76	185506	1.80	ppb		95
21) trans-1,2-dichloroethene	6.04	61	76200	1.90	ppb		98
22) methyl tert-butyl ether	6.19	73	108561	2.11	ppb		94
23) 1,1-dichloroethane	6.43	63	113881	1.91	ppb		100
24) Vinyl acetate	6.53	43	68185	2.14	ppb		100
25) Methyl Ethyl Ketone	7.04	72	15967	2.04	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	69122	1.96	ppb		96
27) Hexane	6.94	57	50805	2.19	ppb		96
28) Ethyl acetate	7.60	43	70377	2.03	ppb		96
29) Chloroform	7.89	83	161922	1.87	ppb		99
30) Tetrahydrofuran	8.16	42	31396	2.10	ppb		92
31) 1,2-dichloroethane	8.99	62	92092	1.98	ppb		97
33) 1,1,1-trichloroethane	8.68	97	171049	1.97	ppb		100
34) Cyclohexane	9.37	56	58766	2.29	ppb		97
35) Carbon tetrachloride	9.31	117	197068	1.91	ppb		99
36) Benzene	9.29	78	166223	1.99	ppb		99
37) Methyl methacrylate	11.14	41	26145m	2.23	ppb		
38) 1,4-dioxane	11.43	88	13754	1.93	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	182094	2.18	ppb		97
40) Heptane	10.66	43	62870	2.37	ppb		99
41) Trichloroethene	10.75	130	97073	2.01	ppb		98
42) 1,2-dichloropropane	10.89	63	64501	2.04	ppb		99
43) Bromodichloromethane	11.26	83	158842	1.98	ppb		98
44) cis-1,3-dichloropropene	12.17	75	70640	2.13	ppb		98
45) trans-1,3-dichloropropene	12.97	75	55083	2.16	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060605.D Vial: 32
Acq On : 6 Jun 2011 3:56 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:09:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	84940	1.98	ppb	100
48)	Toluene	13.01	92	106430	2.36	ppb	100
49)	Methyl Isobutyl Ketone	12.23	43	61779	2.08	ppb	99
50)	Dibromochloromethane	13.93	129	164678	1.89	ppb	98
51)	Methyl Butyl Ketone	13.58	43	31744	2.08	ppb	90
52)	1,2-dibromoethane	14.18	107	119929	1.98	ppb	99
53)	Tetrachloroethylene	14.02	164	106512	1.92	ppb	97
54)	Chlorobenzene	14.97	112	151540	2.02	ppb	99
55)	Ethylbenzene	15.23	91	182393	2.53	ppb	100
56)	m&p-xylene	15.42	91	329789	5.05	ppb	99
57)	Styrene	15.82	104	84865	2.47	ppb	99
58)	Bromoform	15.90	173	155020	1.99	ppb	99
59)	o-xylene	15.85	91	216853	2.99	ppb	90
61)	1,1,2,2-tetrachloroethane	16.27	83	128562	1.98	ppb	99
62)	2-Chlorotoluene	16.90	91	184183	2.79	ppb	97
63)	4-ethyltoluene	17.03	105	151422	2.76	ppb	99
64)	1,3,5-trimethylbenzene	17.09	105	169753	2.63	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	112266	2.67	ppb	99
66)	1,3-dichlorobenzene	17.75	146	114683	2.21	ppb	99
67)	benzyl chloride	17.82	91	81679	2.42	ppb	99
68)	1,4-dichlorobenzene	17.88	146	107512	2.37	ppb	98
69)	1,2-dichlorobenzene	18.15	146	106084	2.15	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	42763	2.13	ppb	99
71)	Naphthalene	19.93	128	58035	2.36	ppb	98
72)	Hexachloro-1,3-butadiene	20.03	225	100096	2.03	ppb	99

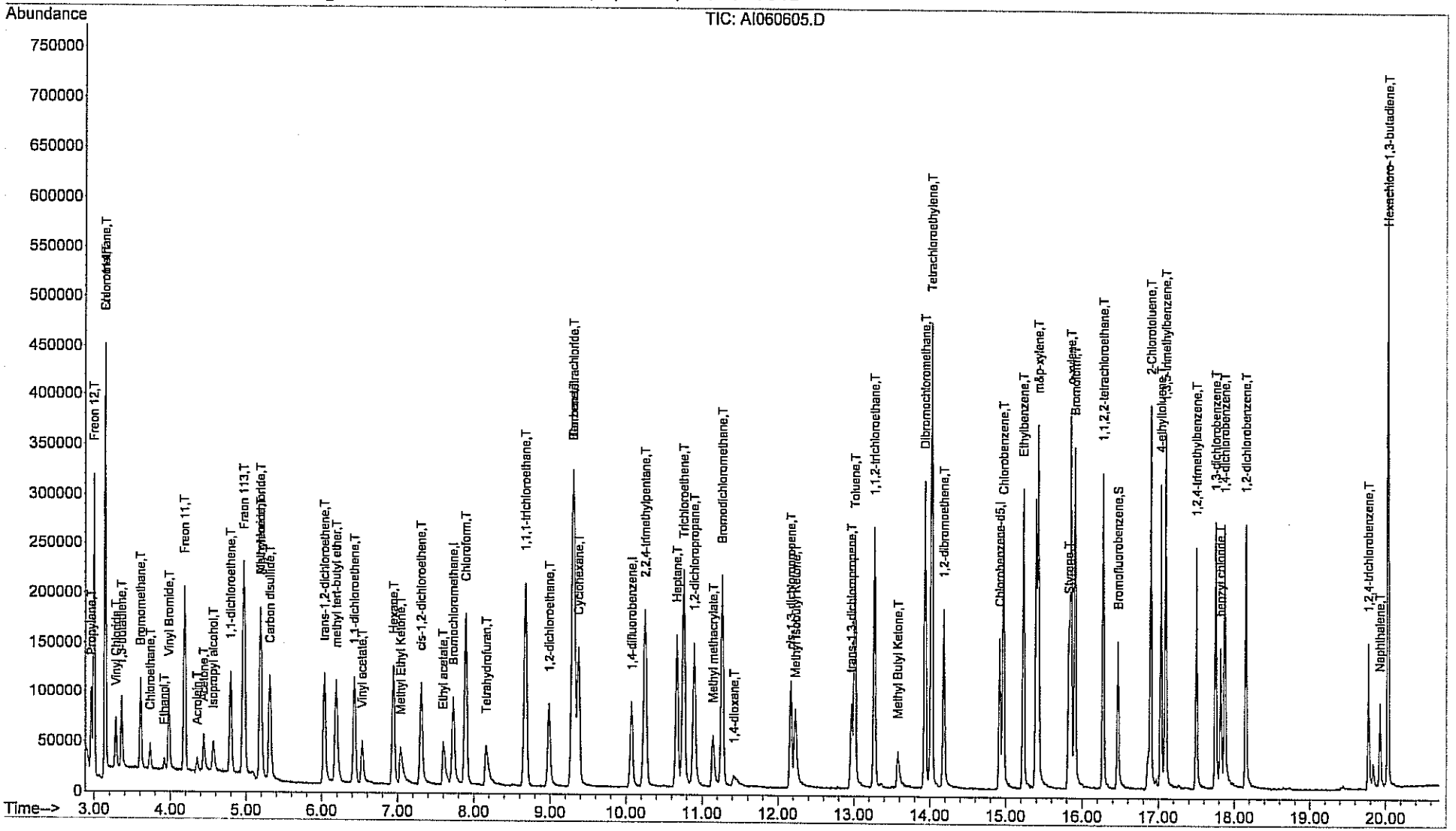
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060605.D
Acq On : 6 Jun 2011 3:56 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:24 2011

Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060605.D A606_1UG.M Wed Jul 06 17:31:05 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060606.D Vial: 33
Acq On : 6 Jun 2011 4:30 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:08:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34812	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	91605	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	89633	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	43421	1.19	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 119.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	28249	1.44	ppb		88
3) Freon 12	3.00	85	164251	1.42	ppb		100
4) Chloromethane	3.14	50	39425	1.41	ppb		100
5) Freon 114	3.15	85	115390	1.44	ppb		99
6) Vinyl Chloride	3.29	62	32455	1.40	ppb		98
7) 1,3-butadiene	3.36	39	22596m	1.47	ppb		
8) Bromomethane	3.61	94	42355	1.49	ppb		94
9) Ethanol	3.92	45	11614m	1.62	ppb		
10) Acrolein	4.35	56	8004	1.45	ppb		91
11) Chloroethane	3.73	64	13074	1.51	ppb		96
12) Vinyl Bromide	3.98	106	39982	1.35	ppb		98
13) Freon 11	4.19	101	110576	1.42	ppb		100
14) Acetone	4.45	58	11275	1.33	ppb		94
15) Isopropyl alcohol	4.57	45	34401	1.53	ppb		80
16) 1,1-dichloroethene	4.80	96	34352	1.42	ppb		96
17) Freon 113	4.97	101	78656	1.44	ppb		100
18) Methylene chloride	5.20	84	38169m	1.22	ppb		
19) Allyl chloride	5.19	41	29974	1.11	ppb		95
20) Carbon disulfide	5.32	76	93376	0.91	ppb		95
21) trans-1,2-dichloroethene	6.04	61	59880	1.50	ppb		99
22) methyl tert-butyl ether	6.20	73	80243	1.56	ppb		95
23) 1,1-dichloroethane	6.43	63	86704	1.45	ppb		99
24) Vinyl acetate	6.54	43	52026	1.64	ppb		100
25) Methyl Ethyl Ketone	7.05	72	12527	1.60	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	51428	1.46	ppb		98
27) Hexane	6.94	57	37732	1.63	ppb		94
28) Ethyl acetate	7.61	43	53600	1.55	ppb		98
29) Chloroform	7.89	83	120575	1.39	ppb		100
30) Tetrahydrofuran	8.16	42	22789	1.53	ppb		94
31) 1,2-dichloroethane	8.99	62	68290	1.47	ppb		99
33) 1,1,1-trichloroethane	8.68	97	129537	1.45	ppb		99
34) Cyclohexane	9.37	56	41708	1.58	ppb		98
35) Carbon tetrachloride	9.31	117	151116	1.42	ppb		99
36) Benzene	9.29	78	126925	1.48	ppb		100
37) Methyl methacrylate	11.14	41	24135	2.00	ppb		93
38) 1,4-dioxane	11.44	88	11659	1.59	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	138313	1.61	ppb		99
40) Heptane	10.66	43	45369	1.66	ppb		99
41) Trichloroethene	10.75	130	71747	1.44	ppb		97
42) 1,2-dichloropropane	10.90	63	46893	1.44	ppb		98
43) Bromodichloromethane	11.26	83	119112	1.44	ppb		99
44) cis-1,3-dichloropropene	12.17	75	52145	1.53	ppb		99
45) trans-1,3-dichloropropene	12.97	75	41042	1.56	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060606.D Vial: 33
Acq On : 6 Jun 2011 4:30 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:08:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46) 1,1,2-trichloroethane	13.27	97	63093	1.43	ppb	100
48) Toluene	13.01	92	72790	1.61	ppb	99
49) Methyl Isobutyl Ketone	12.23	43	47079	1.59	ppb	99
50) Dibromochloromethane	13.94	129	123751	1.42	ppb	99
51) Methyl Butyl Ketone	13.58	43	27921	1.83	ppb	88
52) 1,2-dibromoethane	14.18	107	90314	1.49	ppb	100
53) Tetrachloroethylene	14.02	164	80359	1.45	ppb	96
54) Chlorobenzene	14.97	112	111940	1.49	ppb	97
55) Ethylbenzene	15.23	91	124238	1.72	ppb	100
56) m&p-xylene	15.42	91	223427	3.42	ppb	99
57) Styrene	15.82	104	60531	1.76	ppb	98
58) Bromoform	15.91	173	115301	1.48	ppb	98
59) o-xylene	15.85	91	129606	1.79	ppb	100
61) 1,1,2,2-tetrachloroethane	16.27	83	101245	1.56	ppb	99
62) 2-Chlorotoluene	16.90	91	125465	1.90	ppb	97
63) 4-ethyltoluene	17.03	105	108709	1.98	ppb	97
64) 1,3,5-trimethylbenzene	17.09	105	126071	1.95	ppb	99
65) 1,2,4-trimethylbenzene	17.50	105	81711	1.95	ppb	99
66) 1,3-dichlorobenzene	17.75	146	87745	1.69	ppb	99
67) benzyl chloride	17.82	91	61490	1.82	ppb	100
68) 1,4-dichlorobenzene	17.88	146	80475	1.77	ppb	97
69) 1,2-dichlorobenzene	18.15	146	82010	1.66	ppb	99
70) 1,2,4-trichlorobenzene	19.77	180	35662	1.78	ppb	99
71) Naphthalene	19.92	128	44530	1.81	ppb	95
72) Hexachloro-1,3-butadiene	20.03	225	84350	1.71	ppb	98

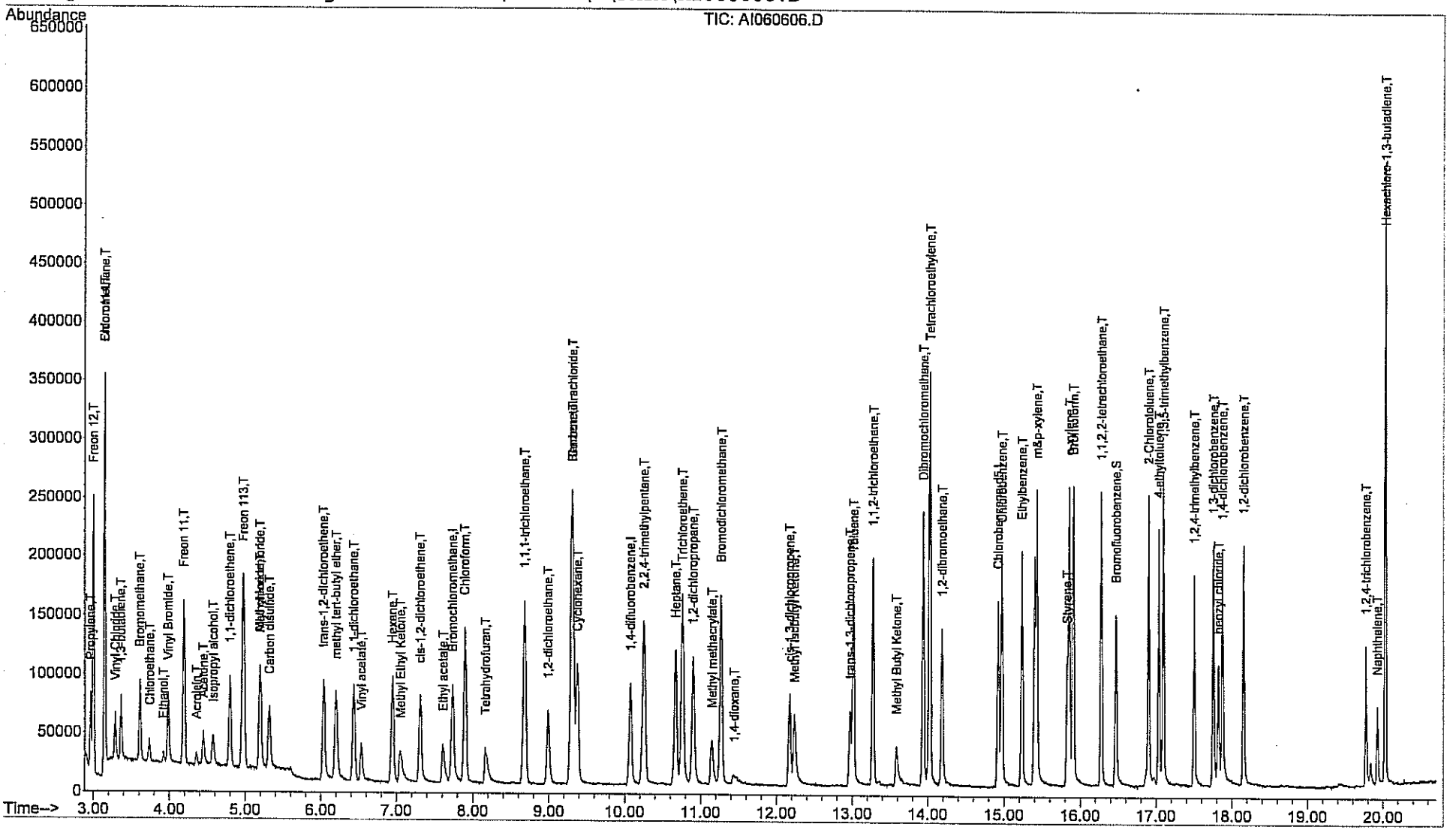
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060606.D
Acq On : 6 Jun 2011 4:30 pm
Sample : A1UG_1.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:25 2011

Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060606.D A606_1UG.M Wed Jul 06 17:31:08 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060608.D Vial: 35
Acq On : 6 Jun 2011 5:41 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:07:54 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34050	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	88312	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	85862	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	35116	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	19150	0.99	ppb		89
3) Freon 12	3.00	85	112570	0.99	ppb		99
4) Chloromethane	3.15	50	27114	0.99	ppb		99
5) Freon 114	3.15	85	78049	0.99	ppb		99
6) Vinyl Chloride	3.29	62	22502	0.99	ppb		99
7) 1,3-butadiene	3.36	39	14958	0.99	ppb		85
8) Bromomethane	3.61	94	27650	0.99	ppb		85
9) Ethanol	3.92	45	7306m	1.04	ppb		
10) Acrolein	4.35	56	5360	0.99	ppb		85
11) Chloroethane	3.74	64	8399	0.99	ppb		71
12) Vinyl Bromide	3.99	106	28872	0.99	ppb		97
13) Freon 11	4.19	101	75786	0.99	ppb		100
14) Acetone	4.44	58	8253	0.99	ppb		93
15) Isopropyl alcohol	4.57	45	21858	0.99	ppb		90
16) 1,1-dichloroethene	4.80	96	23584	0.99	ppb		98
17) Freon 113	4.97	101	53152	0.99	ppb		98
18) Methylene chloride	5.19	84	30322	0.99	ppb		96
19) Allyl chloride	5.19	41	26152	0.99	ppb		91
20) Carbon disulfide	5.32	76	99908	0.99	ppb		94
21) trans-1,2-dichloroethene	6.03	61	38695	0.99	ppb		98
22) methyl tert-butyl ether	6.20	73	49922	0.99	ppb		92
23) 1,1-dichloroethane	6.43	63	57969	0.99	ppb		100
24) Vinyl acetate	6.54	43	30946	0.99	ppb		98
25) Methyl Ethyl Ketone	7.06	72	7649	1.00	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	34256	0.99	ppb		96
27) Hexane	6.95	57	22473	0.99	ppb		97
28) Ethyl acetate	7.61	43	33661	0.99	ppb		98
29) Chloroform	7.90	83	84134	0.99	ppb		99
30) Tetrahydrofuran	8.17	42	13667	0.94	ppb		97
31) 1,2-dichloroethane	8.99	62	45134	0.99	ppb		100
33) 1,1,1-trichloroethane	8.68	97	86223	1.00	ppb		100
34) Cyclohexane	9.37	56	25494	1.00	ppb		99
35) Carbon tetrachloride	9.31	117	102517	1.00	ppb		100
36) Benzene	9.30	78	83003	1.00	ppb		98
37) Methyl methacrylate	11.15	41	11641	1.00	ppb	#	86
38) 1,4-dioxane	11.43	88	7330m	1.04	ppb		
39) 2,2,4-trimethylpentane	10.25	57	82751	1.00	ppb		99
40) Heptane	10.67	43	26290	1.00	ppb		98
41) Trichloroethene	10.76	130	48004	1.00	ppb		98
42) 1,2-dichloropropane	10.90	63	31325	1.00	ppb		99
43) Bromodichloromethane	11.27	83	79482	1.00	ppb		98
44) cis-1,3-dichloropropene	12.17	75	32851	1.00	ppb		100
45) trans-1,3-dichloropropene	12.97	75	25206	1.00	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060608.D Vial: 35
Acq On : 6 Jun 2011 5:41 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:07:54 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	42489	1.00	ppb	100
48)	Toluene	13.02	92	43256	1.00	ppb	96
49)	Methyl Isobutyl Ketone	12.23	43	28447	1.00	ppb	96
50)	Dibromochloromethane	13.94	129	83514	1.00	ppb	100
51)	Methyl Butyl Ketone	13.58	43	14606	1.00	ppb	89
52)	1,2-dibromoethane	14.18	107	57888	1.00	ppb	99
53)	Tetrachloroethylene	14.03	164	53053	1.00	ppb	95
54)	Chlorobenzene	14.97	112	71980	1.00	ppb	99
55)	Ethylbenzene	15.23	91	69132	1.00	ppb	98
56)	m&p-xylene	15.43	91	125124	2.00	ppb	100
57)	Styrene	15.83	104	32916	1.00	ppb	100
58)	Bromoform	15.91	173	74600	1.00	ppb	99
59)	o-xylene	15.85	91	69526	1.00	ppb	99
61)	1,1,2,2-tetrachloroethane	16.27	83	62260	1.00	ppb	99
62)	2-Chlorotoluene	16.90	91	63238	1.00	ppb	99
63)	4-ethyltoluene	17.03	105	52541	1.00	ppb	100
64)	1,3,5-trimethylbenzene	17.09	105	61786	1.00	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	40216	1.00	ppb	95
66)	1,3-dichlorobenzene	17.75	146	49649	1.00	ppb	99
67)	benzyl chloride	17.82	91	32306	1.00	ppb	98
68)	1,4-dichlorobenzene	17.87	146	43432	1.00	ppb	98
69)	1,2-dichlorobenzene	18.15	146	47104	1.00	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	19194	1.00	ppb	97
71)	Naphthalene	19.92	128	23556	1.00	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	47170	1.00	ppb	99

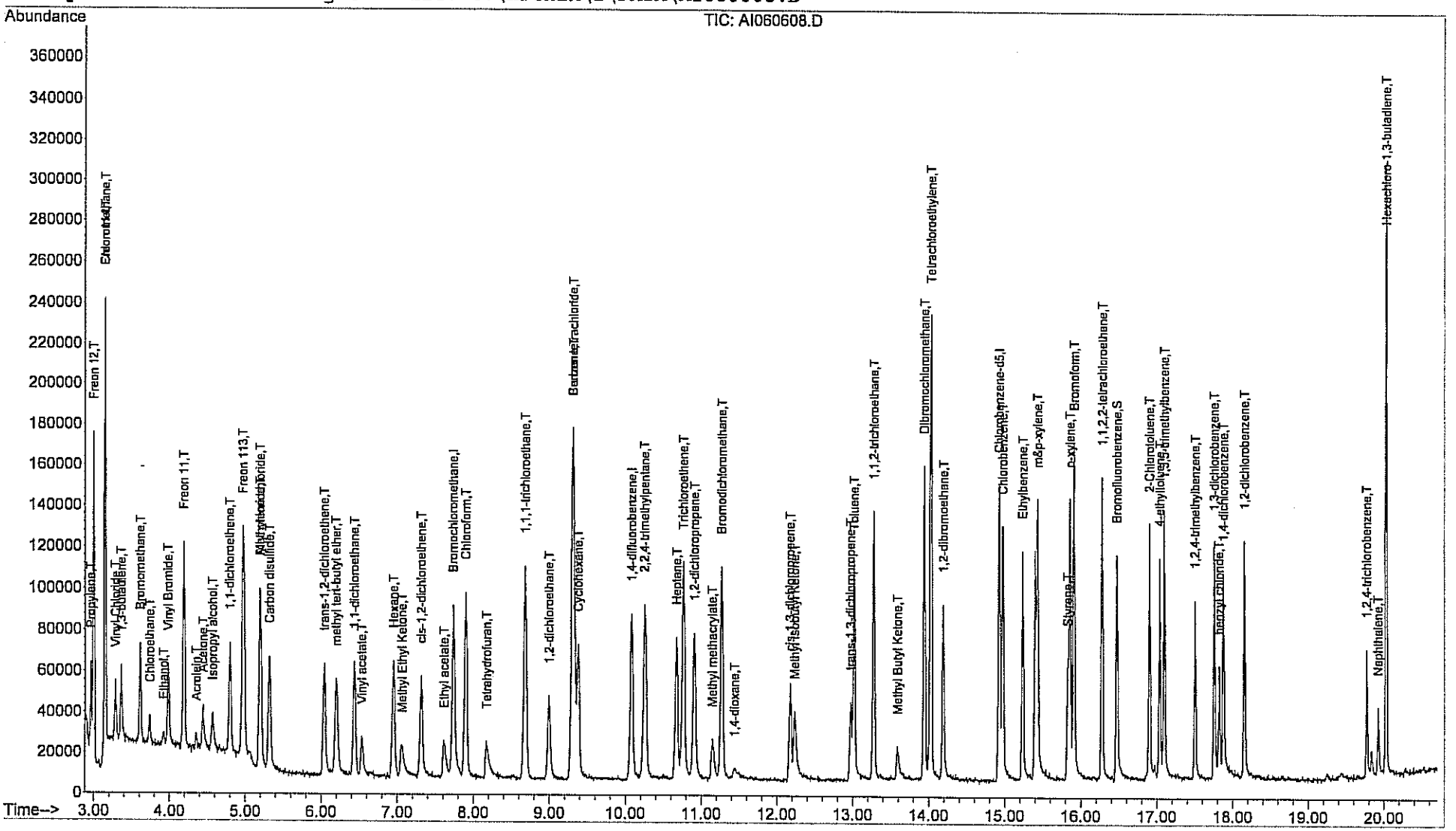
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060608.D
Acq On : 6 Jun 2011 5:41 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:26 2011

Vial: 35
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



Page 120 of 194

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060609.D Vial: 36
Acq On : 6 Jun 2011 6:17 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:10:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	33400	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	86029	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	84893	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	37206	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	14344	0.76	ppb		95
3) Freon 12	3.00	85	84435	0.76	ppb		99
4) Chloromethane	3.15	50	19548	0.73	ppb		95
5) Freon 114	3.15	85	60258	0.78	ppb		100
6) Vinyl Chloride	3.28	62	16988	0.77	ppb		96
7) 1,3-butadiene	3.36	39	10936	0.74	ppb		96
8) Bromomethane	3.61	94	20681	0.76	ppb		86
9) Ethanol	3.92	45	4908m	0.71	ppb		
10) Acrolein	4.35	56	3903	0.74	ppb		79
11) Chloroethane	3.74	64	6978	0.84	ppb		95
12) Vinyl Bromide	3.99	106	20773	0.73	ppb		98
13) Freon 11	4.19	101	56754	0.76	ppb		99
14) Acetone	4.45	58	5720	0.70	ppb	#	83
15) Isopropyl alcohol	4.57	45	16250	0.75	ppb		75
16) 1,1-dichloroethene	4.80	96	17925	0.77	ppb		98
17) Freon 113	4.97	101	41172	0.79	ppb		98
18) Methylene chloride	5.20	84	17537m	0.58	ppb		
19) Allyl chloride	5.19	41	16504	0.64	ppb		94
20) Carbon disulfide	5.32	76	58811m	0.60	ppb		
21) trans-1,2-dichloroethene	6.04	61	29766	0.78	ppb		98
22) methyl tert-butyl ether	6.21	73	36566	0.74	ppb		94
23) 1,1-dichloroethane	6.44	63	42464	0.74	ppb		98
24) Vinyl acetate	6.53	43	23101	0.76	ppb		99
25) Methyl Ethyl Ketone	7.05	72	5287	0.71	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	25451	0.75	ppb		98
27) Hexane	6.94	57	17166	0.77	ppb		96
28) Ethyl acetate	7.62	43	25551m	0.77	ppb		
29) Chloroform	7.90	83	61242	0.74	ppb		99
30) Tetrahydrofuran	8.18	42	9797	0.68	ppb		99
31) 1,2-dichloroethane	9.00	62	35022	0.78	ppb		97
33) 1,1,1-trichloroethane	8.68	97	66809	0.80	ppb		98
34) Cyclohexane	9.37	56	18519	0.75	ppb		96
35) Carbon tetrachloride	9.31	117	77517	0.78	ppb		98
36) Benzene	9.29	78	62452	0.77	ppb		96
37) Methyl methacrylate	11.15	41	9867	0.87	ppb		96
38) 1,4-dioxane	11.45	88	4867m	0.71	ppb		
39) 2,2,4-trimethylpentane	10.25	57	62298	0.77	ppb		98
40) Heptane	10.67	43	19509	0.76	ppb		99
41) Trichloroethene	10.76	130	34775	0.74	ppb		98
42) 1,2-dichloropropane	10.90	63	23194	0.76	ppb		98
43) Bromodichloromethane	11.27	83	59439	0.77	ppb		97
44) cis-1,3-dichloropropene	12.18	75	23647	0.74	ppb		99
45) trans-1,3-dichloropropene	12.97	75	19373	0.79	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060609.D Vial: 36
Acq On : 6 Jun 2011 6:17 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:10:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	31417	0.76	ppb	98
48)	Toluene	13.02	92	30551	0.71	ppb	97
49)	Methyl Isobutyl Ketone	12.24	43	18062m	0.64	ppb	
50)	Dibromochloromethane	13.94	129	61565	0.75	ppb	100
51)	Methyl Butyl Ketone	13.59	43	11048	0.76	ppb	91
52)	1,2-dibromoethane	14.18	107	43001	0.75	ppb	97
53)	Tetrachloroethylene	14.02	164	38043	0.73	ppb	95
54)	Chlorobenzene	14.97	112	52119	0.73	ppb	96
55)	Ethylbenzene	15.23	91	50216	0.73	ppb	99
56)	m&p-xylene	15.43	91	83725	1.35	ppb	99
57)	Styrene	15.83	104	24079	0.74	ppb	99
58)	Bromoform	15.91	173	54908	0.74	ppb	98
59)	o-xylene	15.85	91	45760	0.67	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	47884	0.78	ppb	99
62)	2-Chlorotoluene	16.90	91	47893	0.77	ppb	94
63)	4-ethyltoluene	17.03	105	36761	0.71	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	41373	0.68	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	29869	0.75	ppb	98
66)	1,3-dichlorobenzene	17.75	146	36942	0.75	ppb	98
67)	benzyl chloride	17.82	91	24995	0.78	ppb	96
68)	1,4-dichlorobenzene	17.88	146	33649	0.78	ppb	98
69)	1,2-dichlorobenzene	18.15	146	35372	0.76	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	15438	0.81	ppb	99
71)	Naphthalene	19.93	128	17530	0.75	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	39924	0.86	ppb	99

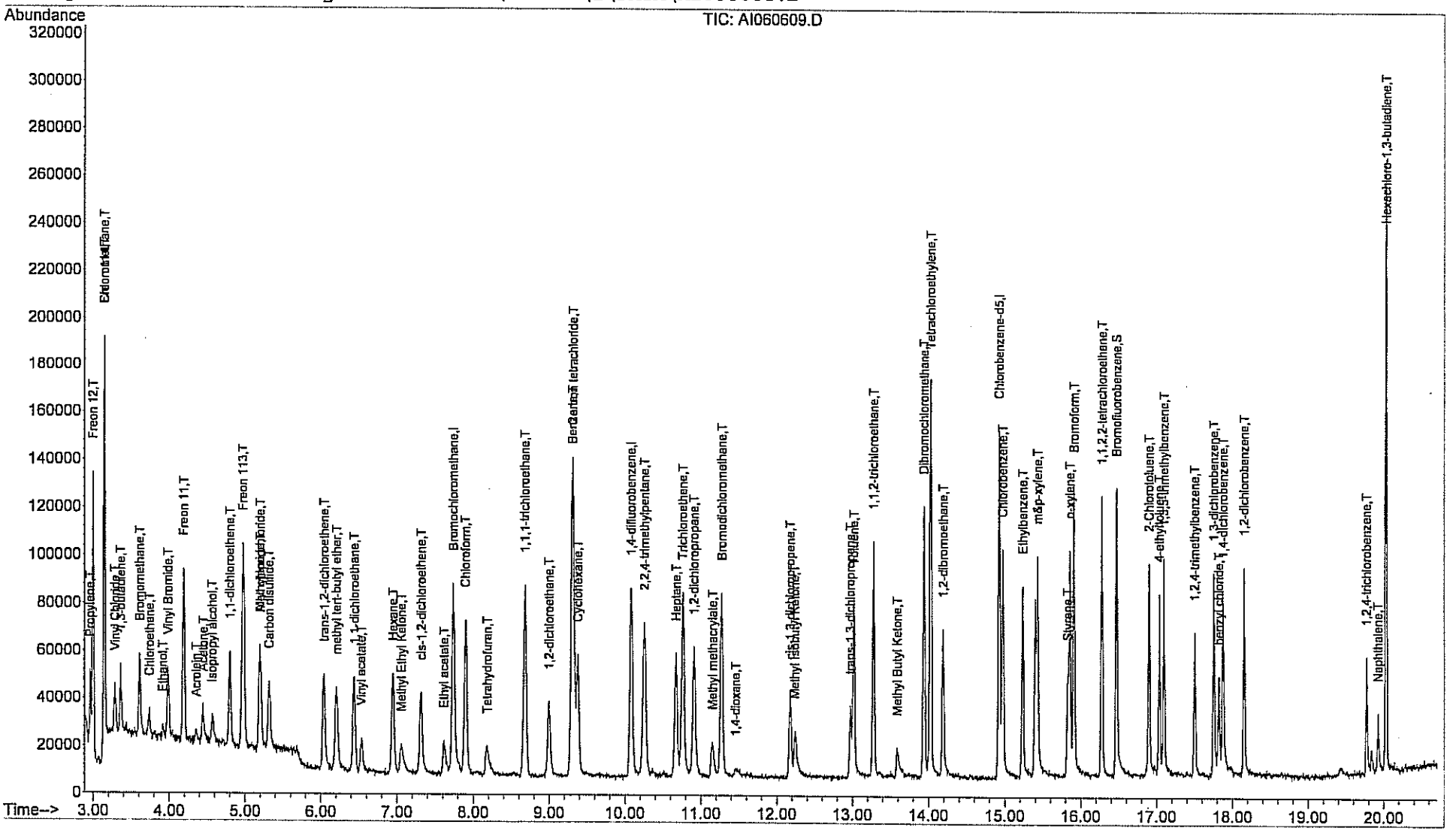
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060609.D
Acq On : 6 Jun 2011 6:17 pm
Sample : A1UG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:28 2011

Vial: 36
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060609.D A606_1UG.M Wed Jul 06 17:31:14 2011 MSD1

Page 3

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060610.D Vial: 37
Acq On : 6 Jun 2011 6:52 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:11:05 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	33292	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	82848	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	83580	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	34695	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	9405	0.50	ppb		99
3) Freon 12	3.00	85	56819	0.51	ppb		99
4) Chloromethane	3.15	50	14104	0.53	ppb		96
5) Freon 114	3.15	85	39251	0.51	ppb		100
6) Vinyl Chloride	3.29	62	10997	0.50	ppb		92
7) 1,3-butadiene	3.36	39	7932	0.54	ppb		88
8) Bromomethane	3.61	94	13957	0.51	ppb		88
9) Ethanol	3.92	45	4637	0.67	ppb		81
10) Acrolein	4.36	56	2518	0.48	ppb		79
11) Chloroethane	3.74	64	4715	0.57	ppb		90
12) Vinyl Bromide	3.99	106	13282	0.47	ppb		99
13) Freon 11	4.19	101	38876	0.52	ppb		99
14) Acetone	4.44	58	3978	0.49	ppb		90
15) Isopropyl alcohol	4.57	45	11017	0.51	ppb		83
16) 1,1-dichloroethene	4.79	96	12186	0.53	ppb		96
17) Freon 113	4.97	101	26942	0.52	ppb		98
18) Methylene chloride	5.20	84	10577m	0.35	ppb		
19) Allyl chloride	5.19	41	10549	0.41	ppb		95
20) Carbon disulfide	5.31	76	41771m	0.42	ppb		
21) trans-1,2-dichloroethene	6.04	61	19639	0.51	ppb		98
22) methyl tert-butyl ether	6.20	73	22742	0.46	ppb		85
23) 1,1-dichloroethane	6.43	63	29074	0.51	ppb		99
24) Vinyl acetate	6.53	43	14715	0.48	ppb		99
25) Methyl Ethyl Ketone	7.05	72	3420	0.46	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	16490	0.49	ppb		91
27) Hexane	6.95	57	10791	0.49	ppb		97
28) Ethyl acetate	7.61	43	16139	0.49	ppb		99
29) Chloroform	7.90	83	40626	0.49	ppb		99
30) Tetrahydrofuran	8.17	42	6237	0.44	ppb		98
31) 1,2-dichloroethane	9.00	62	22338	0.50	ppb		98
33) 1,1,1-trichloroethane	8.68	97	43703	0.54	ppb		99
34) Cyclohexane	9.38	56	10806	0.45	ppb	#	69
35) Carbon tetrachloride	9.31	117	50221	0.52	ppb		99
36) Benzene	9.30	78	38740	0.50	ppb		95
37) Methyl methacrylate	11.15	41	6342	0.58	ppb		97
38) 1,4-dioxane	11.45	88	2390	0.36	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	37759	0.49	ppb		94
40) Heptane	10.67	43	11609	0.47	ppb		95
41) Trichloroethene	10.76	130	21416	0.48	ppb		96
42) 1,2-dichloropropane	10.91	63	14876	0.51	ppb		97
43) Bromodichloromethane	11.27	83	38464	0.52	ppb		100
44) cis-1,3-dichloropropene	12.17	75	15157	0.49	ppb		99
45) trans-1,3-dichloropropene	12.97	75	11835	0.50	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060610.D Vial: 37
Acq On : 6 Jun 2011 6:52 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 20:11:05 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	19417	0.49	ppb	100
48)	Toluene	13.01	92	17789	0.42	ppb	96
49)	Methyl Isobutyl Ketone	12.24	43	11003m	0.40	ppb	
50)	Dibromochloromethane	13.94	129	38983	0.48	ppb	99
51)	Methyl Butyl Ketone	13.59	43	7912m	0.56	ppb	
52)	1,2-dibromoethane	14.18	107	26855	0.48	ppb	97
53)	Tetrachloroethylene	14.02	164	24210	0.47	ppb	99
54)	Chlorobenzene	14.97	112	34070	0.49	ppb	99
55)	Ethylbenzene	15.23	91	30215	0.45	ppb	100
56)	m&p-xylene	15.43	91	48283	0.79	ppb	98
57)	Styrene	15.82	104	14682	0.46	ppb	99
58)	Bromoform	15.91	173	34699	0.48	ppb	99
59)	o-xylene	15.85	91	34938m	0.52	ppb	
61)	1,1,2,2-tetrachloroethane	16.27	83	32732	0.54	ppb	96
62)	2-Chlorotoluene	16.90	91	29738	0.48	ppb	95
63)	4-ethyltoluene	17.03	105	21366	0.42	ppb	99
64)	1,3,5-trimethylbenzene	17.09	105	23046	0.38	ppb	99
65)	1,2,4-trimethylbenzene	17.50	105	17514	0.45	ppb	99
66)	1,3-dichlorobenzene	17.76	146	21261	0.44	ppb	98
67)	benzyl chloride	17.82	91	15076	0.48	ppb	95
68)	1,4-dichlorobenzene	17.87	146	18236	0.43	ppb	98
69)	1,2-dichlorobenzene	18.15	146	20101	0.44	ppb	99
70)	1,2,4-trichlorobenzene	19.77	180	8992	0.48	ppb	97
71)	Naphthalene	19.92	128	9327	0.41	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	23570	0.51	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

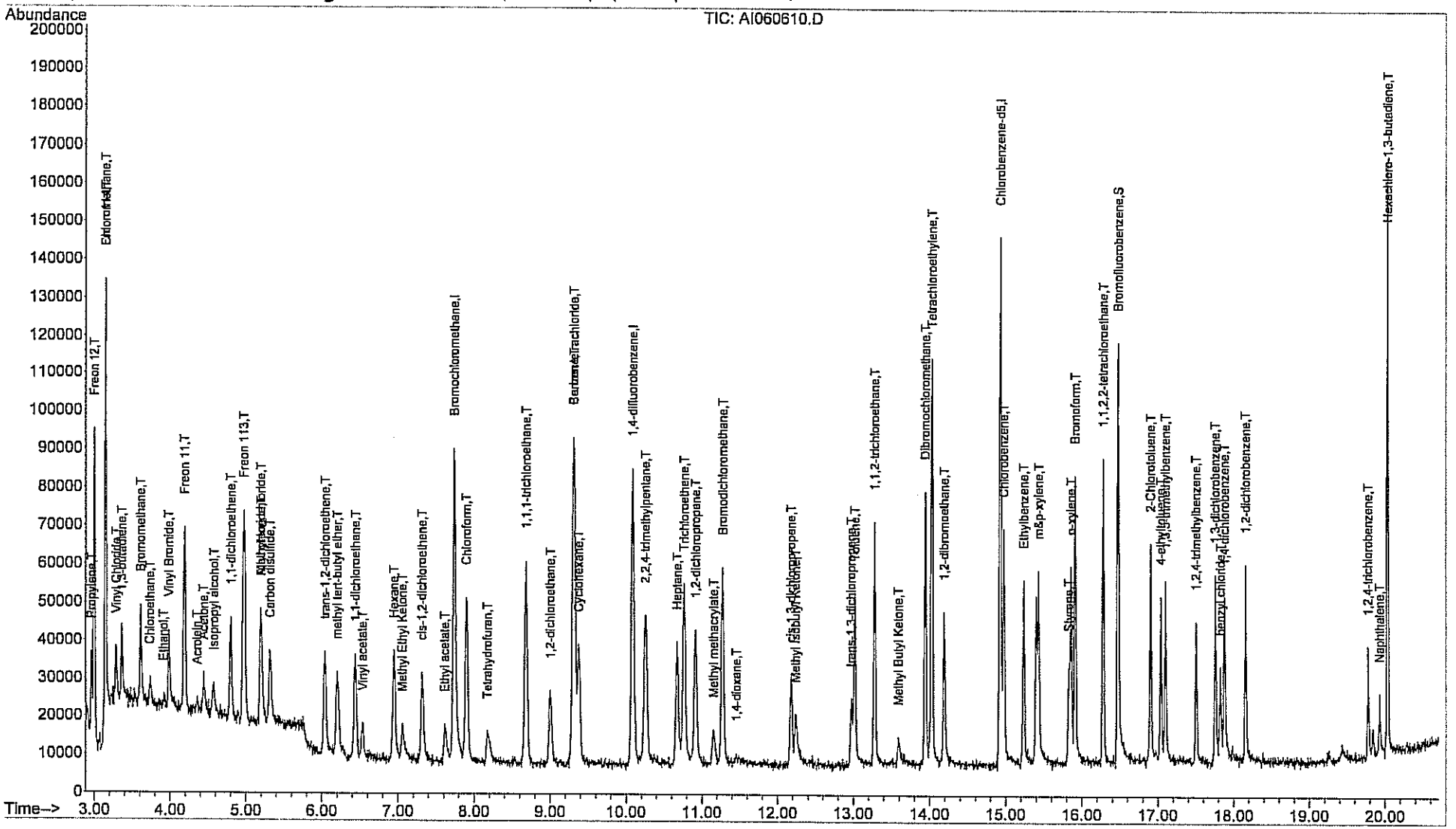
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060610.D
Acq On : 6 Jun 2011 6:52 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:30 2011

Vial: 37
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060610.D A606_1UG.M Wed Jul 06 17:31:17 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060611.D Vial: 38
Acq On : 6 Jun 2011 7:27 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:27:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	33776	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	86209	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	82640	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	34216	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	6651	0.35	ppb		96
3) Freon 12	3.00	85	38072	0.34	ppb		100
4) Chloromethane	3.15	50	9088	0.34	ppb		82
5) Freon 114	3.15	85	25460	0.33	ppb		98
6) Vinyl Chloride	3.28	62	7612	0.34	ppb		91
7) 1,3-butadiene	3.36	39	4402	0.30	ppb		93
8) Bromomethane	3.61	94	8963	0.33	ppb		81
9) Ethanol	3.93	45	2335m	0.33	ppb		
10) Acrolein	4.36	56	1397	0.26	ppb		78
11) Chloroethane	3.74	64	3100	0.37	ppb		92
12) Vinyl Bromide	3.99	106	9075	0.32	ppb		94
13) Freon 11	4.19	101	25428	0.34	ppb		96
14) Acetone	4.45	58	2981	0.36	ppb	#	55
15) Isopropyl alcohol	4.57	45	7124	0.33	ppb		69
16) 1,1-dichloroethene	4.80	96	7556	0.32	ppb		98
17) Freon 113	4.98	101	17406	0.33	ppb		98
18) Methylene chloride	5.20	84	8228m	0.27	ppb		
19) Allyl chloride	5.20	41	7827m	0.30	ppb		
20) Carbon disulfide	5.32	76	25211	0.25	ppb		89
21) trans-1,2-dichloroethene	6.04	61	12657	0.33	ppb		97
22) methyl tert-butyl ether	6.21	73	14403	0.29	ppb		87
23) 1,1-dichloroethane	6.44	63	18635	0.32	ppb		98
24) Vinyl acetate	6.53	43	8701	0.28	ppb		84
25) Methyl Ethyl Ketone	7.06	72	2238	0.30	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	10610	0.31	ppb		96
27) Hexane	6.94	57	6637	0.30	ppb		93
28) Ethyl acetate	7.63	43	9537	0.28	ppb		95
29) Chloroform	7.90	83	25943	0.31	ppb		98
30) Tetrahydrofuran	8.20	42	4293m	0.30	ppb		
31) 1,2-dichloroethane	9.00	62	14300	0.32	ppb		98
33) 1,1,1-trichloroethane	8.68	97	28370	0.34	ppb		100
34) Cyclohexane	9.37	56	6832	0.27	ppb		87
35) Carbon tetrachloride	9.31	117	32382	0.32	ppb		100
36) Benzene	9.30	78	25651	0.32	ppb		94
37) Methyl methacrylate	11.15	41	3932	0.35	ppb		96
38) 1,4-dioxane	11.46	88	1998m	0.29	ppb		
39) 2,2,4-trimethylpentane	10.25	57	23750	0.29	ppb		93
40) Heptane	10.67	43	7717	0.30	ppb		93
41) Trichloroethene	10.76	130	13344	0.28	ppb		94
42) 1,2-dichloropropane	10.92	63	9126	0.30	ppb		98
43) Bromodichloromethane	11.27	83	24549	0.32	ppb		98
44) cis-1,3-dichloropropene	12.18	75	9466	0.30	ppb		98
45) trans-1,3-dichloropropene	12.97	75	7442	0.30	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060611.D Vial: 38
Acq On : 6 Jun 2011 7:27 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:27:52 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	12162	0.29	ppb	95
48)	Toluene	13.01	92	10533	0.25	ppb	94
49)	Methyl Isobutyl Ketone	12.24	43	7047m	0.26	ppb	
50)	Dibromochloromethane	13.94	129	25073	0.31	ppb	100
51)	Methyl Butyl Ketone	13.60	43	5663m	0.40	ppb	
52)	1,2-dibromoethane	14.19	107	17164	0.31	ppb	97
53)	Tetrachloroethylene	14.02	164	15494	0.30	ppb	99
54)	Chlorobenzene	14.97	112	20592	0.30	ppb	96
55)	Ethylbenzene	15.23	91	18450	0.28	ppb	99
56)	m&p-xylene	15.42	91	27121	0.45	ppb	98
57)	Styrene	15.83	104	8953	0.28	ppb	92
58)	Bromoform	15.91	173	21052	0.29	ppb	99
59)	o-xylene	15.85	91	15078	0.23	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	19745	0.33	ppb	94
62)	2-Chlorotoluene	16.90	91	17359	0.29	ppb	98
63)	4-ethyltoluene	17.03	105	12379	0.24	ppb	98
64)	1,3,5-trimethylbenzene	17.09	105	14346m	0.24	ppb	
65)	1,2,4-trimethylbenzene	17.49	105	10017	0.26	ppb	91
66)	1,3-dichlorobenzene	17.75	146	12821	0.27	ppb	99
67)	benzyl chloride	17.82	91	8250	0.26	ppb	97
68)	1,4-dichlorobenzene	17.87	146	11396	0.27	ppb	98
69)	1,2-dichlorobenzene	18.15	146	12802	0.28	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	5372	0.29	ppb	91
71)	Naphthalene	19.92	128	6686	0.29	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	14855	0.33	ppb	98

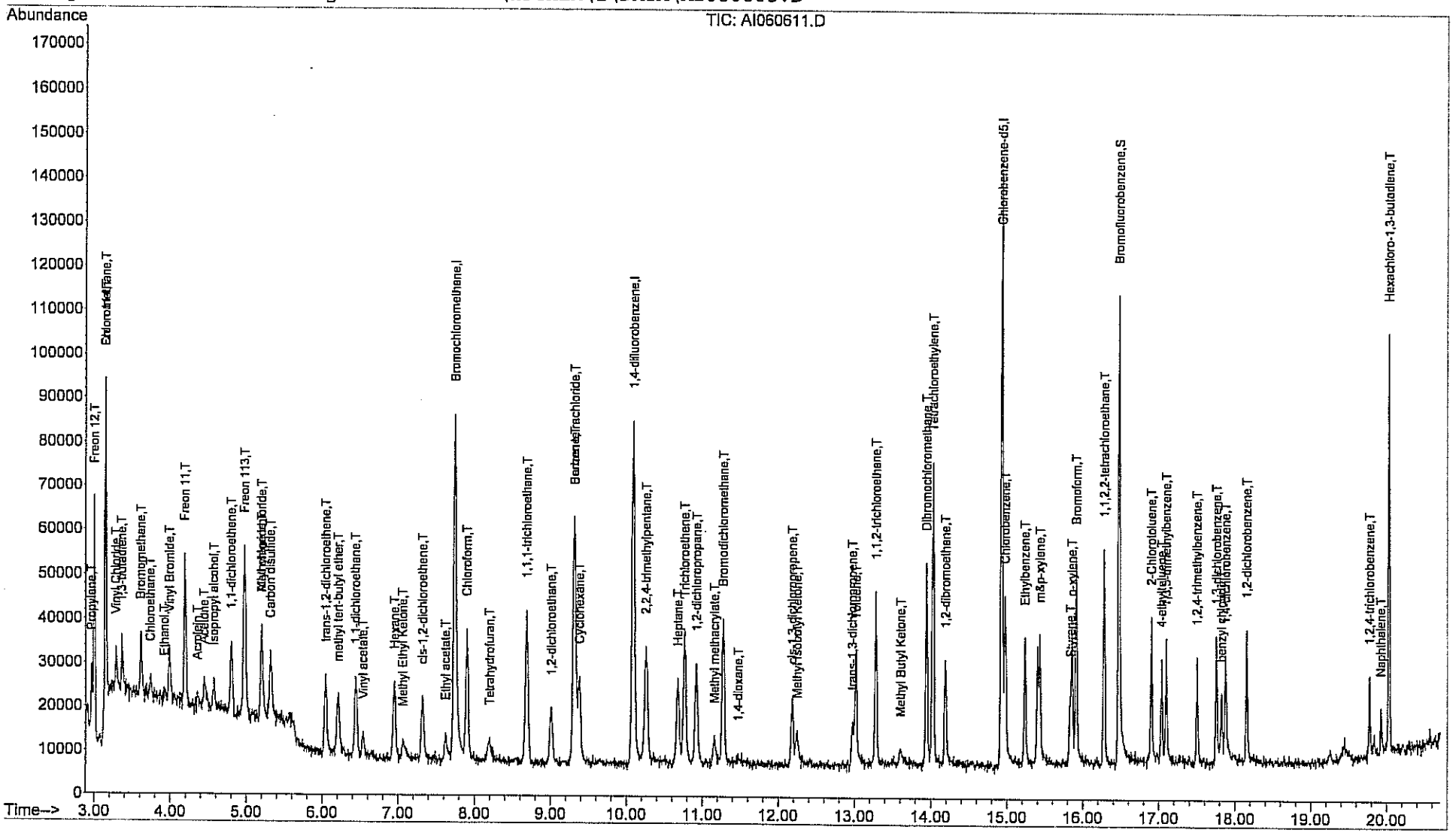
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060611.D A606_1UG.M Wed Jul 06 17:31:20 2011 MSD1 Page 2

Data File : C:\HPCHEM\1\DATA\AI060611.D
Acq On : 6 Jun 2011 7:27 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:32 2011

Vial: 38
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060611.D A606_1UG.M Wed Jul 06 17:31:20 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060612.D Vial: 39
Acq On : 6 Jun 2011 8:02 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:28:22 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	32861	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	80755	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	76870	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	31467	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	3635	0.20	ppb		99
3) Freon 12	3.00	85	19147	0.18	ppb		96
4) Chloromethane	3.15	50	5068	0.19	ppb		63
5) Freon 114	3.15	85	13753	0.18	ppb		99
6) Vinyl Chloride	3.29	62	3858	0.18	ppb		90
7) 1,3-butadiene	3.36	39	3836	0.26	ppb		76
8) Bromomethane	3.62	94	5252	0.20	ppb		83
9) Ethanol	3.81	45	989m	0.15	ppb		
10) Acrolein	4.36	56	925	0.18	ppb		89
11) Chloroethane	3.74	64	1714	0.21	ppb		72
12) Vinyl Bromide	3.99	106	4777	0.17	ppb		100
13) Freon 11	4.19	101	13754	0.19	ppb		99
14) Acetone	4.45	58	1958	0.24	ppb	#	79
15) Isopropyl alcohol	4.57	45	4319m	0.20	ppb		
16) 1,1-dichloroethene	4.81	96	4684	0.20	ppb		89
17) Freon 113	4.98	101	9692	0.19	ppb		96
18) Methylene chloride	5.20	84	3339	0.11	ppb		91
19) Allyl chloride	5.19	41	4079	0.16	ppb		86
20) Carbon disulfide	5.32	76	14349	0.15	ppb		93
21) trans-1,2-dichloroethene	6.04	61	6594	0.17	ppb		96
22) methyl tert-butyl ether	6.20	73	7501	0.15	ppb	#	48
23) 1,1-dichloroethane	6.44	63	9762	0.17	ppb		94
24) Vinyl acetate	6.53	43	4786	0.16	ppb		90
25) Methyl Ethyl Ketone	7.08	72	1265	0.17	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	5068	0.15	ppb		89
27) Hexane	6.94	57	3488	0.16	ppb		96
28) Ethyl acetate	7.62	43	5297	0.16	ppb		89
29) Chloroform	7.90	83	13621	0.17	ppb		96
30) Tetrahydrofuran	8.19	42	2077	0.15	ppb		91
31) 1,2-dichloroethane	9.01	62	8021	0.18	ppb		96
33) 1,1,1-trichloroethane	8.68	97	15454	0.20	ppb		99
34) Cyclohexane	9.37	56	3733	0.16	ppb	#	63
35) Carbon tetrachloride	9.31	117	17572	0.19	ppb		98
36) Benzene	9.31	78	12838	0.17	ppb		97
37) Methyl methacrylate	11.15	41	2184	0.21	ppb		99
39) 2,2,4-trimethylpentane	10.25	57	12174	0.16	ppb		92
40) Heptane	10.67	43	3710	0.15	ppb		95
41) Trichloroethene	10.77	130	7057	0.16	ppb		95
42) 1,2-dichloropropane	10.92	63	4783	0.17	ppb		96
43) Bromodichloromethane	11.27	83	13053	0.18	ppb		100
44) cis-1,3-dichloropropene	12.18	75	4772	0.16	ppb		97
45) trans-1,3-dichloropropene	12.97	75	3934	0.17	ppb		94
46) 1,1,2-trichloroethane	13.27	97	6334	0.16	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060612.D Vial: 39
Acq On : 6 Jun 2011 8:02 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 21:28:22 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
48)	Toluene	13.01	92	5629	0.15	ppb	95
49)	Methyl Isobutyl Ketone	12.25	43	4251m	0.17	ppb	
50)	Dibromochloromethane	13.94	129	13034	0.17	ppb	100
51)	Methyl Butyl Ketone	13.61	43	2011m	0.15	ppb	
52)	1,2-dibromoethane	14.18	107	8470	0.16	ppb	96
53)	Tetrachloroethylene	14.03	164	8306	0.17	ppb	91
54)	Chlorobenzene	14.97	112	10159	0.16	ppb	93
55)	Ethylbenzene	15.23	91	8716	0.14	ppb	99
56)	m&p-xylene	15.43	91	14110	0.25	ppb	97
57)	Styrene	15.83	104	4455	0.15	ppb	98
58)	Bromoform	15.91	173	10462	0.16	ppb	99
59)	o-xylene	15.85	91	9363m	0.15	ppb	
61)	1,1,2,2-tetrachloroethane	16.27	83	10020	0.18	ppb	100
62)	2-Chlorotoluene	16.90	91	8675	0.15	ppb	100
63)	4-ethyltoluene	17.03	105	6115	0.13	ppb	94
64)	1,3,5-trimethylbenzene	17.09	105	7602m	0.14	ppb	
65)	1,2,4-trimethylbenzene	17.50	105	5039	0.14	ppb	98
66)	1,3-dichlorobenzene	17.76	146	7138	0.16	ppb	94
67)	benzyl chloride	17.82	91	4803	0.17	ppb	85
68)	1,4-dichlorobenzene	17.87	146	5880	0.15	ppb	94
69)	1,2-dichlorobenzene	18.15	146	6478	0.15	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	3151	0.18	ppb	93
71)	Naphthalene	19.93	128	4547	0.22	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	9092	0.22	ppb	97

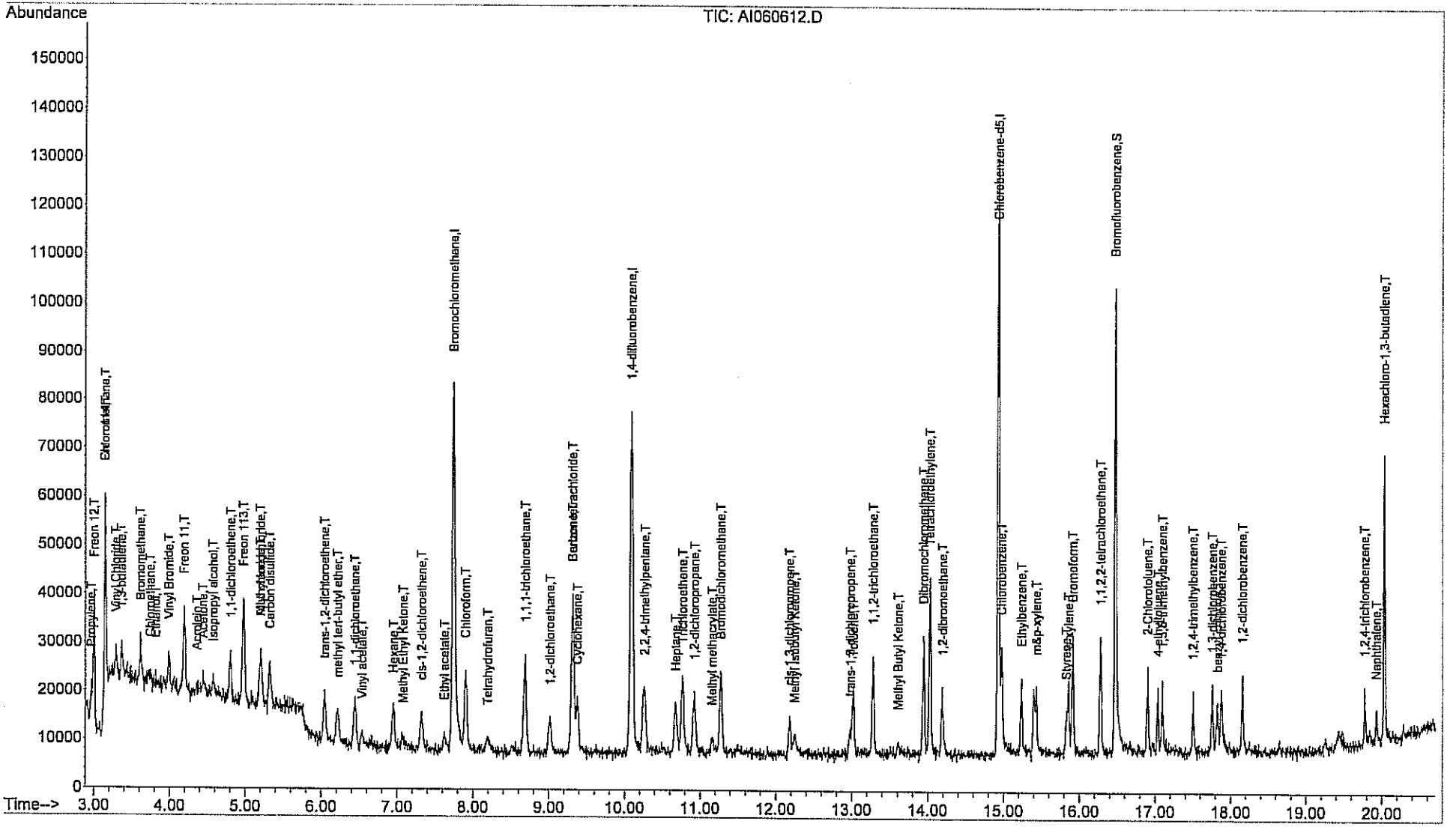
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI060612.D
Acq On : 6 Jun 2011 8:02 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:49 2011

Vial: 39
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060612.D A606_1UG.M Wed Jul 06 17:31:23 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060615.D Vial: 42
Acq On : 6 Jun 2011 9:47 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 06 22:07:59 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Jun 06 20:07:50 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	32358	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.08	114	78830	1.00	ppb	0.00
47) Chlorobenzene-d5	14.92	117	74469	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30316	1.00	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.29	62	2073	0.10	ppb	88
35) Carbon tetrachloride	9.31	117	9867	0.11	ppb	95
41) Trichloroethene	10.76	130	3900	0.09	ppb	93

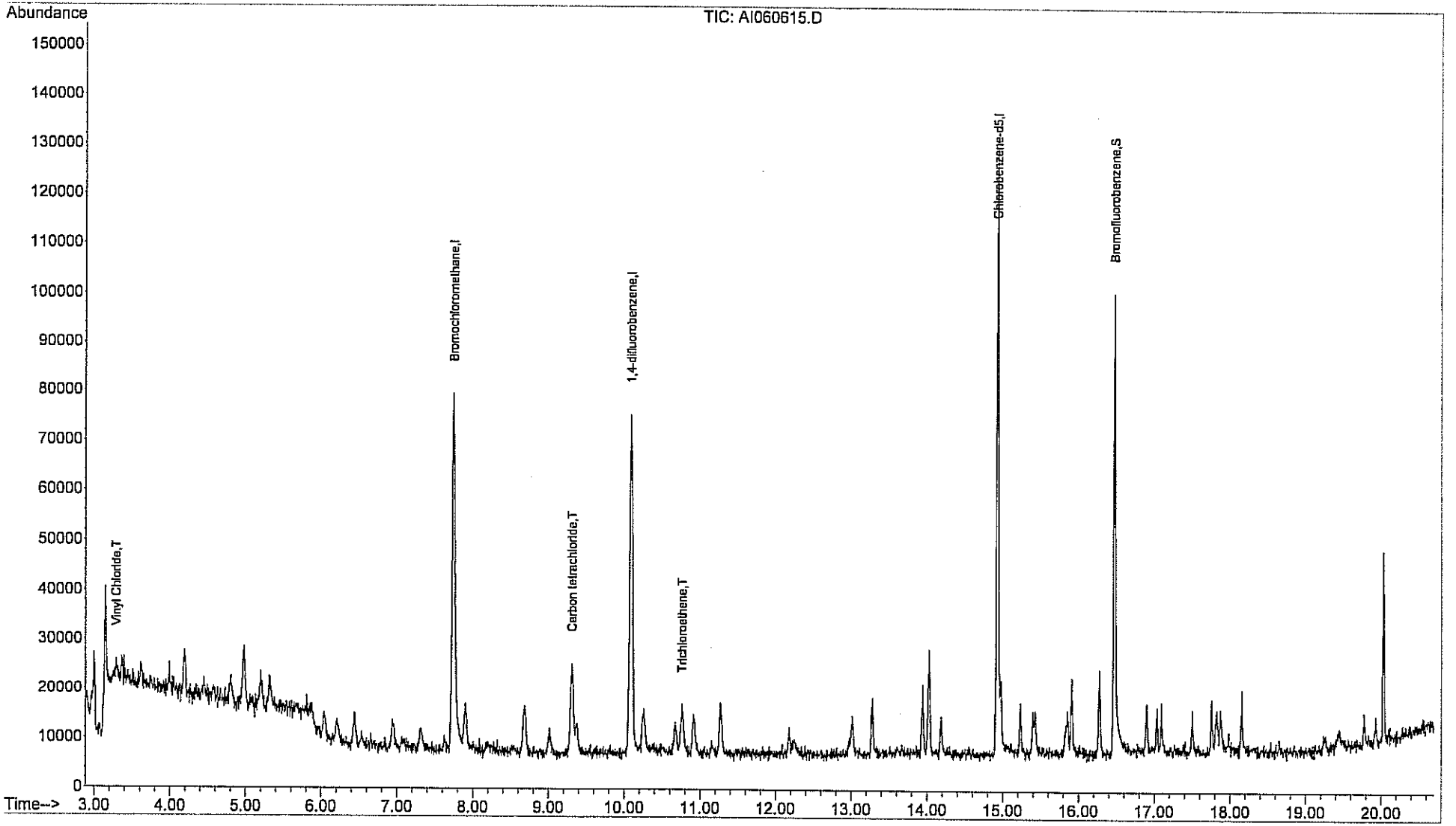
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI060615.D A606_1UG.M Wed Jul 06 17:31:26 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI060615.D
Acq On : 6 Jun 2011 9:47 pm
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 8 16:35 2011

Vial: 42
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sun Jun 26 19:39:11 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI060608.D



AI060615.D A606_1UG.M Wed Jul 06 17:31:26 2011 MSD1

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Response Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	107	0.00
2	T	Propylene	0.592	0.611	-3.2	117	0.00
3	T	Freon 12	3.420	3.438	-0.5	112	0.00
4	T	Chloromethane	0.831	0.810	2.5	109	0.00
5	T	Freon 114	2.391	2.440	-2.0	114	0.00
6	T	Vinyl Chloride	0.727	0.692	4.8	112	0.00
7	T	1,3-butadiene	0.488	0.423	13.3	103	0.00
8	T	Bromomethane	0.860	0.853	0.8	113	0.00
9	T	Ethanol	0.223	0.243	-9.0	122	0.00
10	T	Acrolein	0.155	0.176	-13.5	120	0.00
11	T	Chloroethane	0.279	0.289	-3.6	126	0.00
12	T	Vinyl Bromide	0.842	0.858	-1.9	109	0.00
13	T	Freon 11	2.338	2.299	1.7	111	0.00
14	T	Acetone	0.240	0.237	1.3	105	0.00
15	T	Isopropyl alcohol	0.679	0.770	-13.4	129	0.00
16	T	1,1-dichloroethene	0.733	0.718	2.0	111	0.00
17	T	Freon 113	1.641	1.628	0.8	112	0.00
18	T	Methylene chloride	0.755	0.598	20.8	72	0.00
19	T	Allyl chloride	0.711	0.606	14.8	85	0.00
20	T	Carbon disulfide	2.520	2.061	18.2	75	0.00
21	T	trans-1,2-dichloroethene	1.190	0.946	20.5	89	0.00
22	T	methyl tert-butyl ether	1.475	1.732	-17.4	127	0.00
23	T	1,1-dichloroethane	1.751	1.746	0.3	110	0.00
24	T	Vinyl acetate	0.931	1.006	-8.1	119	0.00
25	T	Methyl Ethyl Ketone	0.227	0.250	-10.1	119	0.00
26	T	cis-1,2-dichloroethene	1.009	1.094	-8.4	117	0.00
27	T	Hexane	0.687	0.767	-11.6	125	0.00
28	T	Ethyl acetate	1.004	1.063	-5.9	116	0.00
29	T	Chloroform	2.473	2.493	-0.8	108	0.00
30	T	Tetrahydrofuran	0.414	0.446	-7.7	119	0.00
31	T	1,2-dichloroethane	1.390	1.416	-1.9	115	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	114	0.00
33	T	1,1,1-trichloroethane	1.049	0.976	7.0	114	0.00
34	T	Cyclohexane	0.292	0.306	-4.8	121	0.00
35	T	Carbon tetrachloride	1.324	1.117	15.6	109	0.00
36	T	Benzene	0.965	0.970	-0.5	117	0.00
37	T	Methyl methacrylate	0.156	0.164	-5.1	141	0.00
38	T	1,4-dioxane	0.076	0.071	6.6	97	0.00
39	T	2,2,4-trimethylpentane	0.967	0.996	-3.0	121	0.00
40	T	Heptane	0.310	0.319	-2.9	122	0.00
41	T	Trichloroethene	0.580	0.527	9.1	110	0.00
42	T	1,2-dichloropropane	0.361	0.350	3.0	112	0.00
43	T	Bromodichloromethane	0.934	0.886	5.1	112	0.00
44	T	cis-1,3-dichloropropene	0.377	0.379	-0.5	116	0.00
45	T	trans-1,3-dichloropropene	0.299	0.301	-0.7	120	0.00
46	T	1,1,2-trichloroethane	0.481	0.475	1.2	112	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	114	0.00
48	T	Toluene	0.494	0.535	-8.3	121	0.00
49	T	Methyl Isobutyl Ketone	0.318	0.261	17.9	90	0.00

(#) = Out of Range

Initial/Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	0.979	0.919	6.1	108	0.00
51	T	Methyl Butyl Ketone	0.189	0.152	19.6	102	0.00
52	T	1,2-dibromoethane	0.680	0.660	2.9	111	0.00
53	T	Tetrachloroethylene	0.619	0.588	5.0	108	0.00
54	T	Chlorobenzene	0.837	0.856	-2.3	116	0.00
55	T	Ethylbenzene	0.823	0.819	0.5	116	0.00
56	T	m&p-xylene	0.696	0.752	-8.0	117	0.00
57	T	Styrene	0.398	0.400	-0.5	119	0.00
58	T	Bromoform	0.863	0.819	5.1	107	0.00
59	T	o-xylene	0.851	0.974	-14.5	137	0.00
60	S	Bromofluorobenzene	0.428	0.472	-10.3	131	0.00
61	T	1,1,2,2-tetrachloroethane	0.771	0.750	2.7	118	0.00
62	T	2-Chlorotoluene	0.802	0.838	-4.5	130	0.00
63	T	4-ethyltoluene	0.626	0.673	-7.5	125	0.00
64	T	1,3,5-trimethylbenzene	0.721	0.814	-12.9	129	0.00
65	T	1,2,4-trimethylbenzene	0.490	0.528	-7.8	128	0.00
66	T	1,3-dichlorobenzene	0.585	0.597	-2.1	117	0.00
67	T	benzyl chloride	0.399	0.465	-16.5	141	0.00
68	T	1,4-dichlorobenzene	0.520	0.557	-7.1	125	0.00
69	T	1,2-dichlorobenzene	0.552	0.571	-3.4	118	0.00
70	T	1,2,4-trichlorobenzene	0.239	0.281	-17.6	143	0.00
71	T	Naphthalene	0.299	0.354	-18.4	147	0.00
72	T	Hexachloro-1,3-butadiene	0.616	0.605	1.8	125	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 11:50:53 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	36570	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	100404	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	97689	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	46074	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	22353	1.03	ppb		91
3) Freon 12	3.00	85	125737	1.01	ppb		99
4) Chloromethane	3.15	50	29636	0.97	ppb		84
5) Freon 114	3.15	85	89239	1.02	ppb		100
6) Vinyl Chloride	3.29	62	25297	0.95	ppb		100
7) 1,3-butadiene	3.36	39	15453	0.87	ppb		98
8) Bromomethane	3.61	94	31200	0.99	ppb		96
9) Ethanol	3.92	45	8898	1.09	ppb	#	33
10) Acrolein	4.35	56	6426	1.13	ppb		83
11) Chloroethane	3.74	64	10560	1.03	ppb		93
12) Vinyl Bromide	3.99	106	31371	1.02	ppb		99
13) Freon 11	4.19	101	84067	0.98	ppb		99
14) Acetone	4.45	58	8661	0.99	ppb		85
15) Isopropyl alcohol	4.57	45	28163	1.13	ppb		92
16) 1,1-dichloroethene	4.80	96	26257	0.98	ppb		96
17) Freon 113	4.97	101	59552	0.99	ppb		99
18) Methylene chloride	5.20	84	21880	0.79	ppb		99
19) Allyl chloride	5.19	41	22169	0.85	ppb		94
20) Carbon disulfide	5.32	76	75387	0.82	ppb		97
21) trans-1,2-dichloroethene	6.03	61	34598	0.79	ppb		97
22) methyl tert-butyl ether	6.20	73	63357	1.17	ppb		99
23) 1,1-dichloroethane	6.43	63	63864	1.00	ppb		100
24) Vinyl acetate	6.53	43	36776	1.08	ppb		98
25) Methyl Ethyl Ketone	7.04	72	9139	1.10	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	39990	1.08	ppb		97
27) Hexane	6.94	57	28067	1.12	ppb		98
28) Ethyl acetate	7.61	43	38885	1.06	ppb		98
29) Chloroform	7.90	83	91166	1.01	ppb		100
30) Tetrahydrofuran	8.18	42	16309	1.08	ppb		97
31) 1,2-dichloroethane	8.99	62	51769	1.02	ppb		100
33) 1,1,1-trichloroethane	8.68	97	98005	0.93	ppb		99
34) Cyclohexane	9.37	56	30759	1.05	ppb		98
35) Carbon tetrachloride	9.31	117	112187	0.84	ppb		100
36) Benzene	9.29	78	97442	1.01	ppb		100
37) Methyl methacrylate	11.15	41	16465	1.05	ppb		93
38) 1,4-dioxane	11.47	88	7142m	0.94	ppb		
39) 2,2,4-trimethylpentane	10.25	57	100031	1.03	ppb		99
40) Heptane	10.67	43	32044	1.03	ppb		99
41) Trichloroethene	10.76	130	52901	0.91	ppb		97
42) 1,2-dichloropropane	10.90	63	35152	0.97	ppb		99
43) Bromodichloromethane	11.27	83	88930	0.95	ppb		99
44) cis-1,3-dichloropropene	12.17	75	38020	1.00	ppb		98
45) trans-1,3-dichloropropene	12.97	75	30216	1.01	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 11:50:53 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

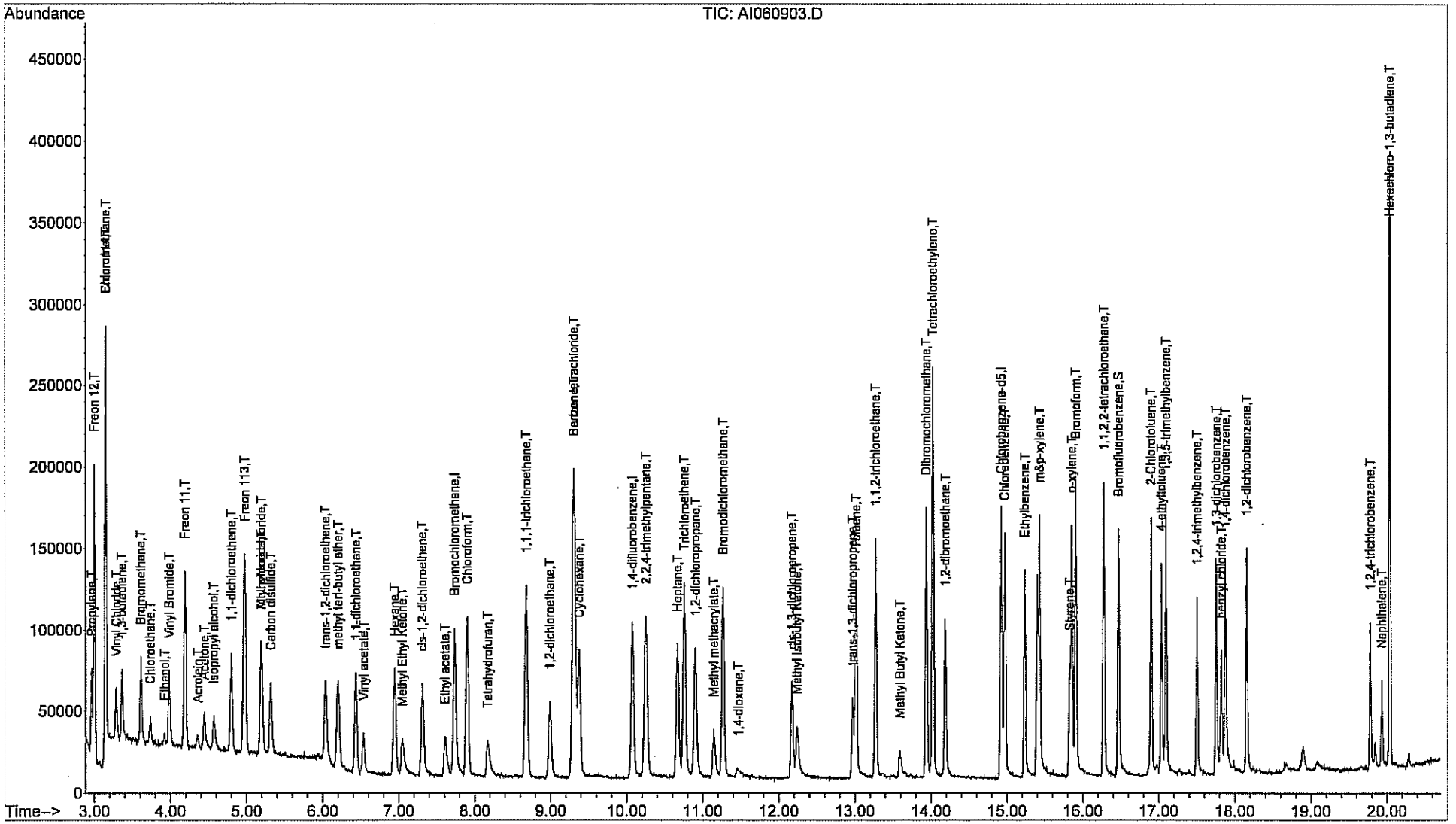
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	47741	0.99	ppb	99
48)	Toluene	13.01	92	52222	1.08	ppb	98
49)	Methyl Isobutyl Ketone	12.24	43	25542	0.82	ppb	98
50)	Dibromochloromethane	13.94	129	89806	0.94	ppb	100
51)	Methyl Butyl Ketone	13.59	43	14843	0.81	ppb	100
52)	1,2-dibromoethane	14.19	107	64513	0.97	ppb	97
53)	Tetrachloroethylene	14.02	164	57468	0.95	ppb	98
54)	Chlorobenzene	14.97	112	83620	1.02	ppb	100
55)	Ethylbenzene	15.23	91	79973	1.00	ppb	99
56)	m&p-xylene	15.43	91	147011	2.16	ppb	98
57)	Styrene	15.83	104	39115	1.01	ppb	99
58)	Bromoform	15.91	173	80034	0.95	ppb	99
59)	o-xylene	15.85	91	95138	1.14	ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	73233	0.97	ppb	99
62)	2-Chlorotoluene	16.90	91	81904	1.05	ppb	98
63)	4-ethyltoluene	17.03	105	65723	1.07	ppb	96
64)	1,3,5-trimethylbenzene	17.09	105	79533	1.13	ppb	96
65)	1,2,4-trimethylbenzene	17.50	105	51551	1.08	ppb	97
66)	1,3-dichlorobenzene	17.75	146	58321	1.02	ppb	99
67)	benzyl chloride	17.82	91	45412	1.17	ppb	95
68)	1,4-dichlorobenzene	17.88	146	54433	1.07	ppb	99
69)	1,2-dichlorobenzene	18.16	146	55818	1.03	ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	27493	1.18	ppb	99
71)	Naphthalene	19.93	128	34555	1.18	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	59081	0.98	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060903.D Vial: 4
Acq On : 9 Jun 2011 11:30 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 12:09 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



AI060903.D A606_1UG.M Wed Jul 06 18:20:00 2011 MSD1 Page 3

Centek Laboratories, LLC

Target Compound Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	102	0.00
2	T	Propylene	0.592	0.642	-8.4	116	0.00
3	T	Freon 12	3.420	3.614	-5.7	111	0.00
4	T	Chloromethane	0.831	0.914	-10.0	117	0.00
5	T	Freon 114	2.391	2.588	-8.2	115	0.00
6	T	Vinyl Chloride	0.727	0.730	-0.4	112	0.00
7	T	1,3-butadiene	0.488	0.467	4.3	108	0.00
8	T	Bromomethane	0.860	0.920	-7.0	115	0.00
9	T	Ethanol	0.223	0.230	-3.1	109	0.00
10	T	Acrolein	0.155	0.177	-14.2	114	0.00
11	T	Chloroethane	0.279	0.293	-5.0	121	0.00
12	T	Vinyl Bromide	0.842	0.916	-8.8	110	0.00
13	T	Freon 11	2.338	2.442	-4.4	112	0.00
14	T	Acetone	0.240	0.285	-18.7	120	0.00
15	T	Isopropyl alcohol	0.679	0.814	-19.9	129	0.00
16	T	1,1-dichloroethene	0.733	0.760	-3.7	112	0.00
17	T	Freon 113	1.641	1.717	-4.6	112	0.00
18	T	Methylene chloride	0.755	0.639	15.4	73	0.00
19	T	Allyl chloride	0.711	0.650	8.6	86	0.00
20	T	Carbon disulfide	2.520	2.186	13.3	76	0.00
21	T	trans-1,2-dichloroethene	1.190	1.340	-12.6	120	0.00
22	T	methyl tert-butyl ether	1.475	1.884	-27.7	131	0.00
23	T	1,1-dichloroethane	1.751	1.940	-10.8	116	0.00
24	T	Vinyl acetate	0.931	1.132	-21.6	127	0.00
25	T	Methyl Ethyl Ketone	0.227	0.246	-8.4	111	0.00
26	T	cis-1,2-dichloroethene	1.009	1.188	-17.7	120	0.00
27	T	Hexane	0.687	0.850	-23.7	131	0.00
28	T	Ethyl acetate	1.004	1.251	-24.6	129	0.00
29	T	Chloroform	2.473	2.645	-7.0	109	0.00
30	T	Tetrahydrofuran	0.414	0.515	-24.4	131	0.00
31	T	1,2-dichloroethane	1.390	1.546	-11.2	119	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	113	0.00
33	T	1,1,1-trichloroethane	1.049	0.998	4.9	116	0.00
34	T	Cyclohexane	0.292	0.313	-7.2	123	0.00
35	T	Carbon tetrachloride	1.324	1.146	13.4	112	0.00
36	T	Benzene	0.965	0.987	-2.3	119	0.00
37	T	Methyl methacrylate	0.156	0.184	-17.9	159#	0.00
38	T	1,4-dioxane	0.076	0.067	11.8	92	0.02
39	T	2,2,4-trimethylpentane	0.967	0.996	-3.0	120	0.00
40	T	Heptane	0.310	0.323	-4.2	123	0.00
41	T	Trichloroethene	0.580	0.541	6.7	113	0.00
42	T	1,2-dichloropropane	0.361	0.357	1.1	114	0.00
43	T	Bromodichloromethane	0.934	0.887	5.0	112	0.00
44	T	cis-1,3-dichloropropene	0.377	0.399	-5.8	122	0.00
45	T	trans-1,3-dichloropropene	0.299	0.310	-3.7	123	0.00
46	T	1,1,2-trichloroethane	0.481	0.478	0.6	113	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	116	0.00
48	T	Toluene	0.494	0.541	-9.5	125	0.00
49	T	Methyl Isobutyl Ketone	0.318	0.236	25.8	83	0.01

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	0.979	0.896	8.5	107	0.00
51	T	Methyl Butyl Ketone	0.189	0.204	-7.9	140	0.00
52	T	1,2-dibromoethane	0.680	0.659	3.1	114	0.00
53	T	Tetrachloroethylene	0.619	0.590	4.7	111	0.00
54	T	Chlorobenzene	0.837	0.854	-2.0	119	0.00
55	T	Ethylbenzene	0.823	0.908	-10.3	131	0.00
56	T	m&p-xylene	0.696	0.791	-13.6	126	0.00
57	T	Styrene	0.398	0.434	-9.0	132	0.00
58	T	Bromoform	0.863	0.810	6.1	109	0.00
59	T	o-xylene	0.851	0.856	-0.6	123	0.00
60	S	Bromofluorobenzene	0.428	0.479	-11.9	136	0.00
61	T	1,1,2,2-tetrachloroethane	0.771	0.733	4.9	118	0.00
62	T	2-Chlorotoluene	0.802	0.869	-8.4	137	0.00
63	T	4-ethyltoluene	0.626	0.683	-9.1	130	0.00
64	T	1,3,5-trimethylbenzene	0.721	0.836	-16.0	135	0.00
65	T	1,2,4-trimethylbenzene	0.490	0.539	-10.0	134	0.00
66	T	1,3-dichlorobenzene	0.585	0.622	-6.3	125	0.00
67	T	benzyl chloride	0.399	0.365	8.5	113	0.00
68	T	1,4-dichlorobenzene	0.520	0.588	-13.1	135	0.00
69	T	1,2-dichlorobenzene	0.552	0.577	-4.5	123	0.00
70	T	1,2,4-trichlorobenzene	0.239	0.293	-22.6	152#	0.00
71	T	Naphthalene	0.299	0.357	-19.4	151#	0.00
72	T	Hexachloro-1,3-butadiene	0.616	0.600	2.6	127	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 10:50:42 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	34653	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	100100	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	99980	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	47914	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	22256	1.08	ppb		95
3) Freon 12	3.00	85	125252	1.06	ppb		99
4) Chloromethane	3.15	50	31679	1.10	ppb		96
5) Freon 114	3.15	85	89678	1.08	ppb		99
6) Vinyl Chloride	3.28	62	25288	1.00	ppb		100
7) 1,3-butadiene	3.36	39	16199	0.96	ppb		92
8) Bromomethane	3.61	94	31889	1.07	ppb		97
9) Ethanol	3.92	45	7966	1.03	ppb	#	1
10) Acrolein	4.35	56	6128	1.14	ppb		95
11) Chloroethane	3.74	64	10147	1.05	ppb		89
12) Vinyl Bromide	3.98	106	31746	1.09	ppb		99
13) Freon 11	4.19	101	84626	1.04	ppb		99
14) Acetone	4.44	58	9867m	1.19	ppb		
15) Isopropyl alcohol	4.57	45	28199	1.20	ppb	#	50
16) 1,1-dichloroethene	4.80	96	26344	1.04	ppb		99
17) Freon 113	4.97	101	59498	1.05	ppb		100
18) Methylene chloride	5.19	84	22157	0.85	ppb		94
19) Allyl chloride	5.19	41	22524	0.91	ppb		93
20) Carbon disulfide	5.32	76	75750	0.87	ppb		95
21) trans-1,2-dichloroethene	6.04	61	46452	1.13	ppb		97
22) methyl tert-butyl ether	6.20	73	65275	1.28	ppb		97
23) 1,1-dichloroethane	6.43	63	67236	1.11	ppb		99
24) Vinyl acetate	6.54	43	39235	1.22	ppb		99
25) Methyl Ethyl Ketone	7.05	72	8515m	1.08	ppb		
26) cis-1,2-dichloroethene	7.31	61	41185	1.18	ppb		95
27) Hexane	6.94	57	29454	1.24	ppb		97
28) Ethyl acetate	7.60	43	43351	1.25	ppb		96
29) Chloroform	7.90	83	91643	1.07	ppb		99
30) Tetrahydrofuran	8.18	42	17841	1.24	ppb		94
31) 1,2-dichloroethane	8.99	62	53563	1.11	ppb		99
33) 1,1,1-trichloroethane	8.68	97	99882	0.95	ppb		99
34) Cyclohexane	9.37	56	31364	1.07	ppb		99
35) Carbon tetrachloride	9.31	117	114734	0.87	ppb		98
36) Benzene	9.29	78	98776	1.02	ppb		96
37) Methyl methacrylate	11.14	41	18459	1.18	ppb		91
38) 1,4-dioxane	11.48	88	6753m	0.89	ppb		
39) 2,2,4-trimethylpentane	10.25	57	99696	1.03	ppb		99
40) Heptane	10.66	43	32381	1.04	ppb		98
41) Trichloroethene	10.76	130	54185	0.93	ppb		98
42) 1,2-dichloropropane	10.90	63	35713	0.99	ppb		95
43) Bromodichloromethane	11.26	83	88831	0.95	ppb		99
44) cis-1,3-dichloropropene	12.17	75	39924	1.06	ppb		99
45) trans-1,3-dichloropropene	12.97	75	31021	1.04	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D Vial: 43
Acq On : 13 Jun 2011 10:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 10:50:42 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	47861	0.99	ppb	98
48)	Toluene	13.01	92	54045	1.09	ppb	97
49)	Methyl Isobutyl Ketone	12.25	43	23578m	0.74	ppb	
50)	Dibromochloromethane	13.94	129	89623	0.92	ppb	99
51)	Methyl Butyl Ketone	13.59	43	20437m	1.08	ppb	
52)	1,2-dibromoethane	14.19	107	65898	0.97	ppb	100
53)	Tetrachloroethylene	14.02	164	58995	0.95	ppb	97
54)	Chlorobenzene	14.97	112	85405	1.02	ppb	99
55)	Ethylbenzene	15.23	91	90828	1.10	ppb	98
56)	m&p-xylene	15.43	91	158100	2.27	ppb	97
57)	Styrene	15.83	104	43384	1.09	ppb	98
58)	Bromoform	15.91	173	81033	0.94	ppb	98
59)	o-xylene	15.86	91	85623	1.01	ppb	100
61)	1,1,2,2-tetrachloroethane	16.28	83	73335	0.95	ppb	98
62)	2-Chlorotoluene	16.90	91	86930	1.08	ppb	97
63)	4-ethyltoluene	17.04	105	68246	1.09	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	83578	1.16	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	53861	1.10	ppb	96
66)	1,3-dichlorobenzene	17.76	146	62143	1.06	ppb	99
67)	benzyl chloride	17.82	91	36497	0.92	ppb	97
68)	1,4-dichlorobenzene	17.88	146	58816	1.13	ppb	98
69)	1,2-dichlorobenzene	18.16	146	57720	1.05	ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	29262	1.22	ppb	98
71)	Naphthalene	19.93	128	35643	1.19	ppb	99
72)	Hexachloro-1,3-butadiene	20.03	225	59986	0.97	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

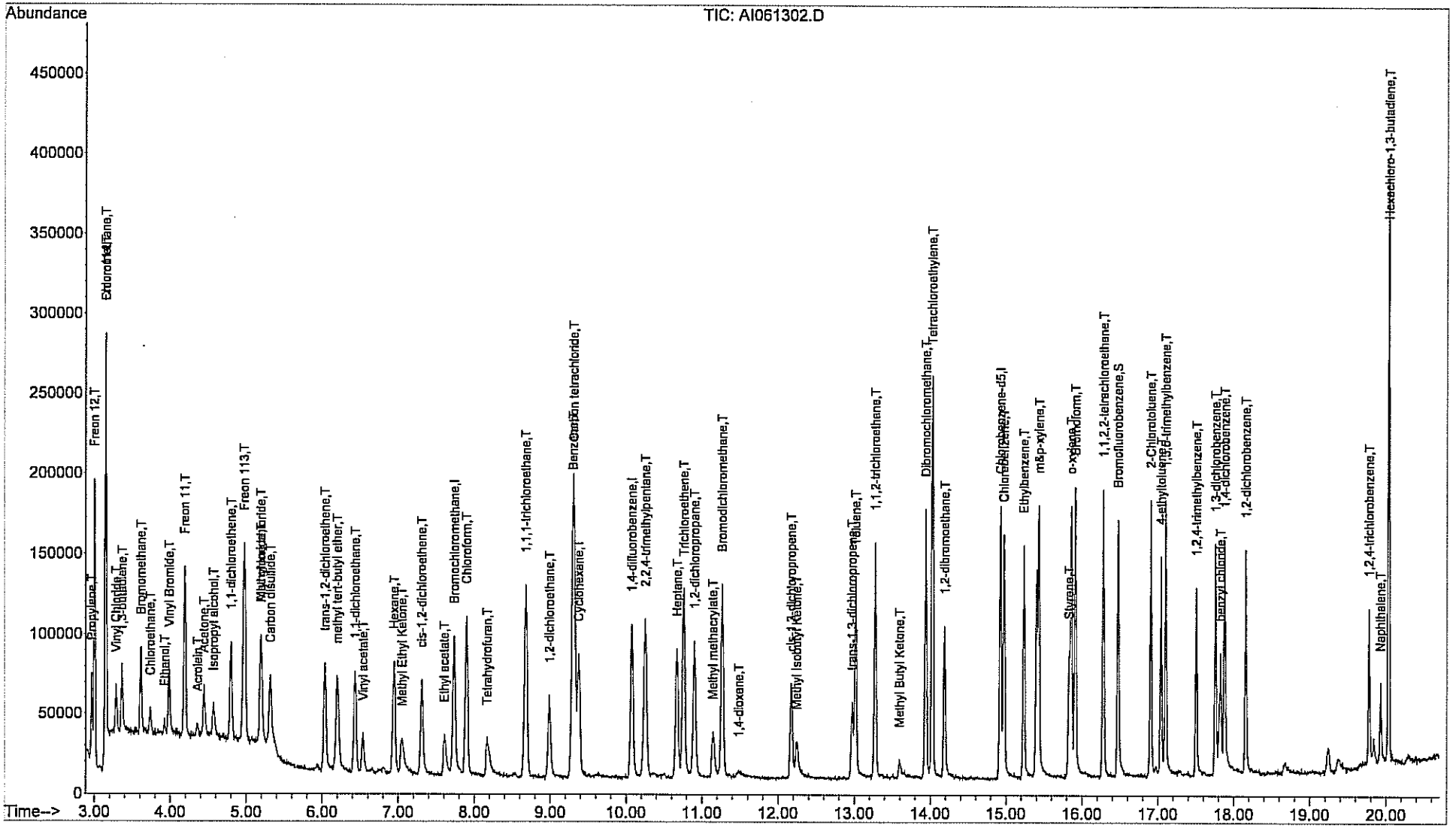
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061302.D
Acq On : 13 Jun 2011 10:29 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jul 6 17:44 2011

Vial: 43
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

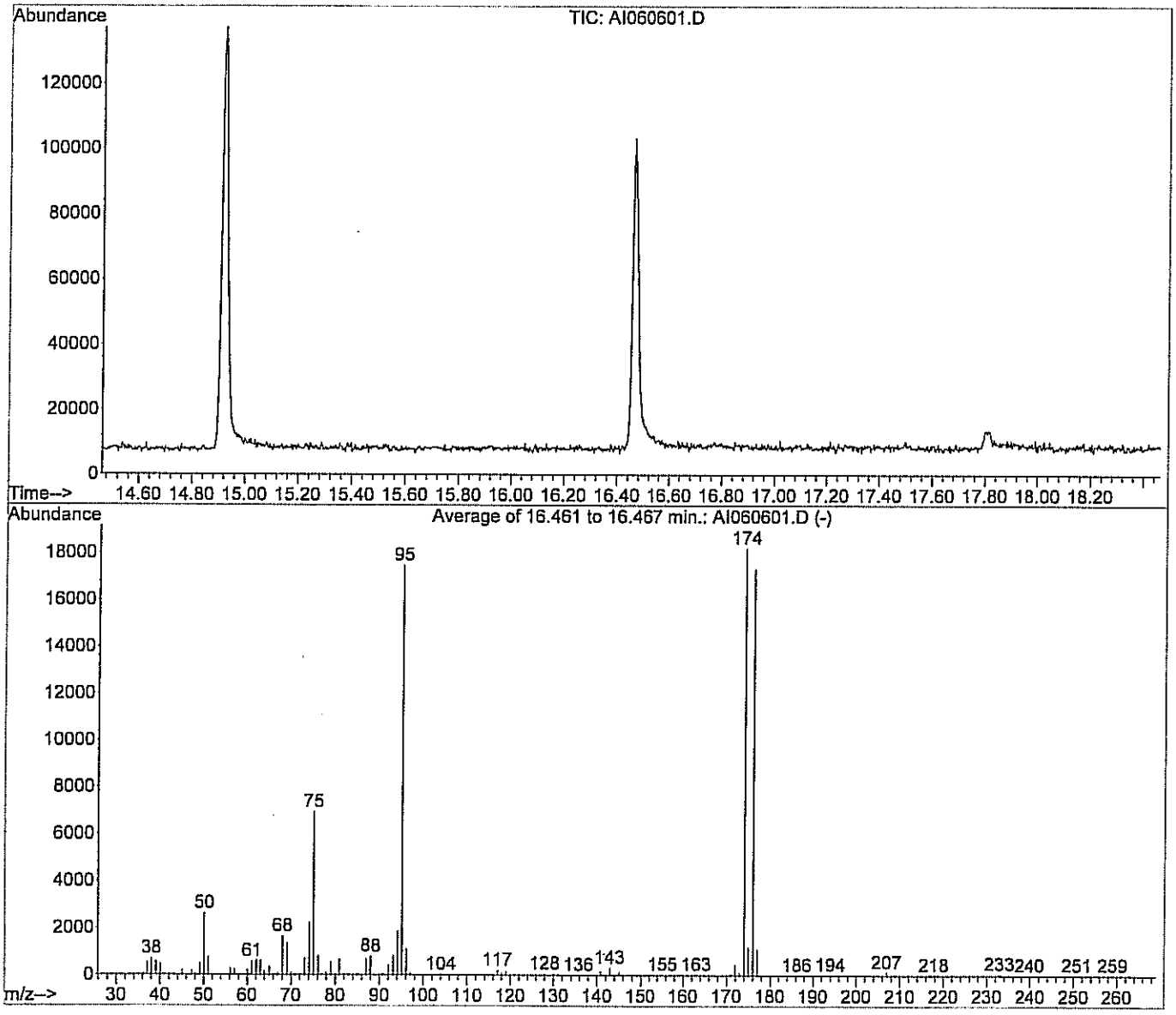
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI060601.D
Acq On : 6 Jun 2011 1:28 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.461 to 16.467 min.

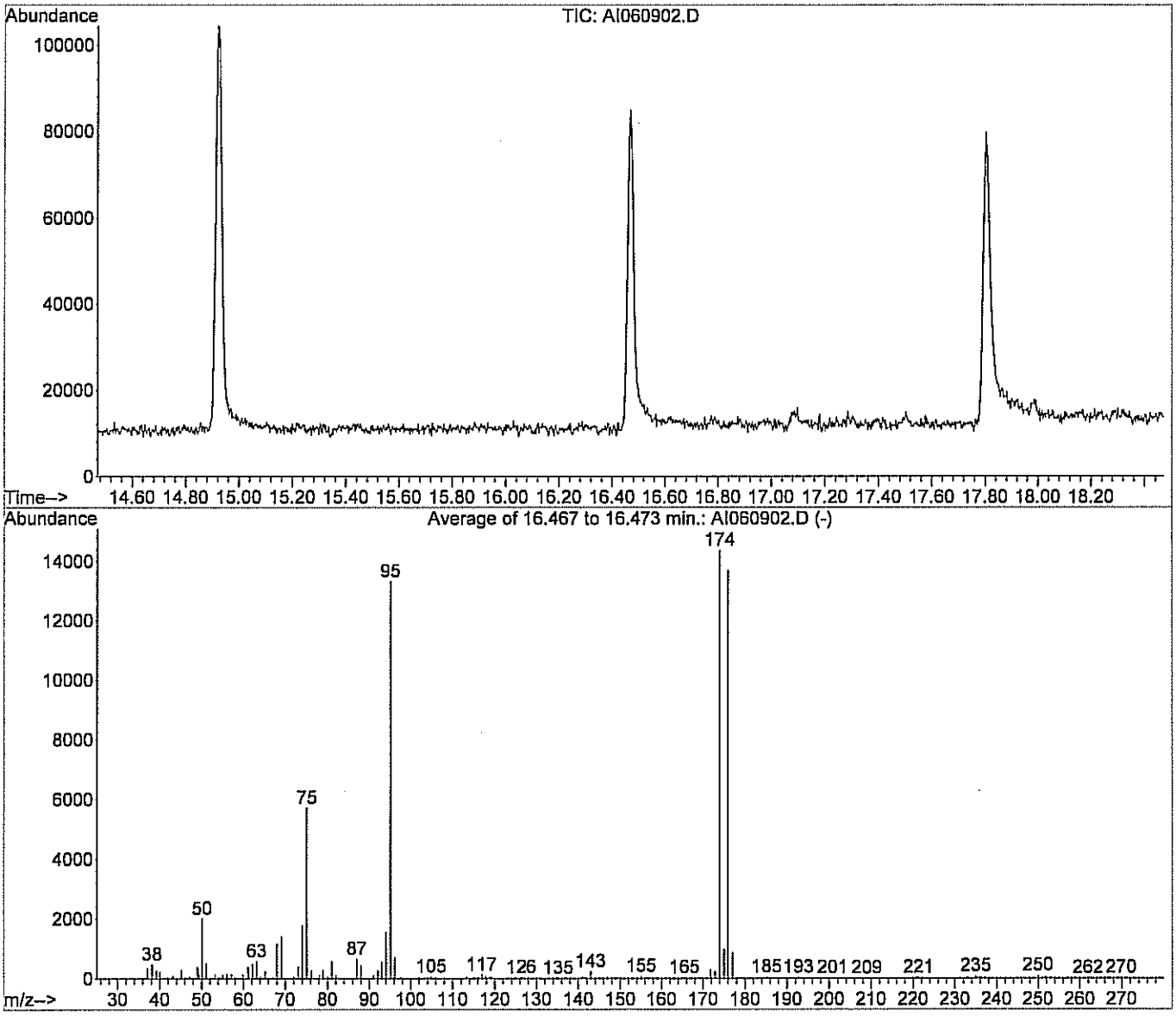
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	2641	PASS
75	95	30	66	39.8	6958	PASS
95	95	100	100	100.0	17487	PASS
96	95	5	9	6.4	1127	PASS
173	174	0.00	2	0.7	133	PASS
174	95	50	120	104.3	18235	PASS
175	174	4	9	6.6	1206	PASS
176	174	95	101	95.1	17333	PASS
177	176	5	9	6.4	1115	PASS

AI060601.D A606_1UG.M Wed Jul 06 17:30:11 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI060902.D
Acq On : 9 Jun 2011 8:46 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



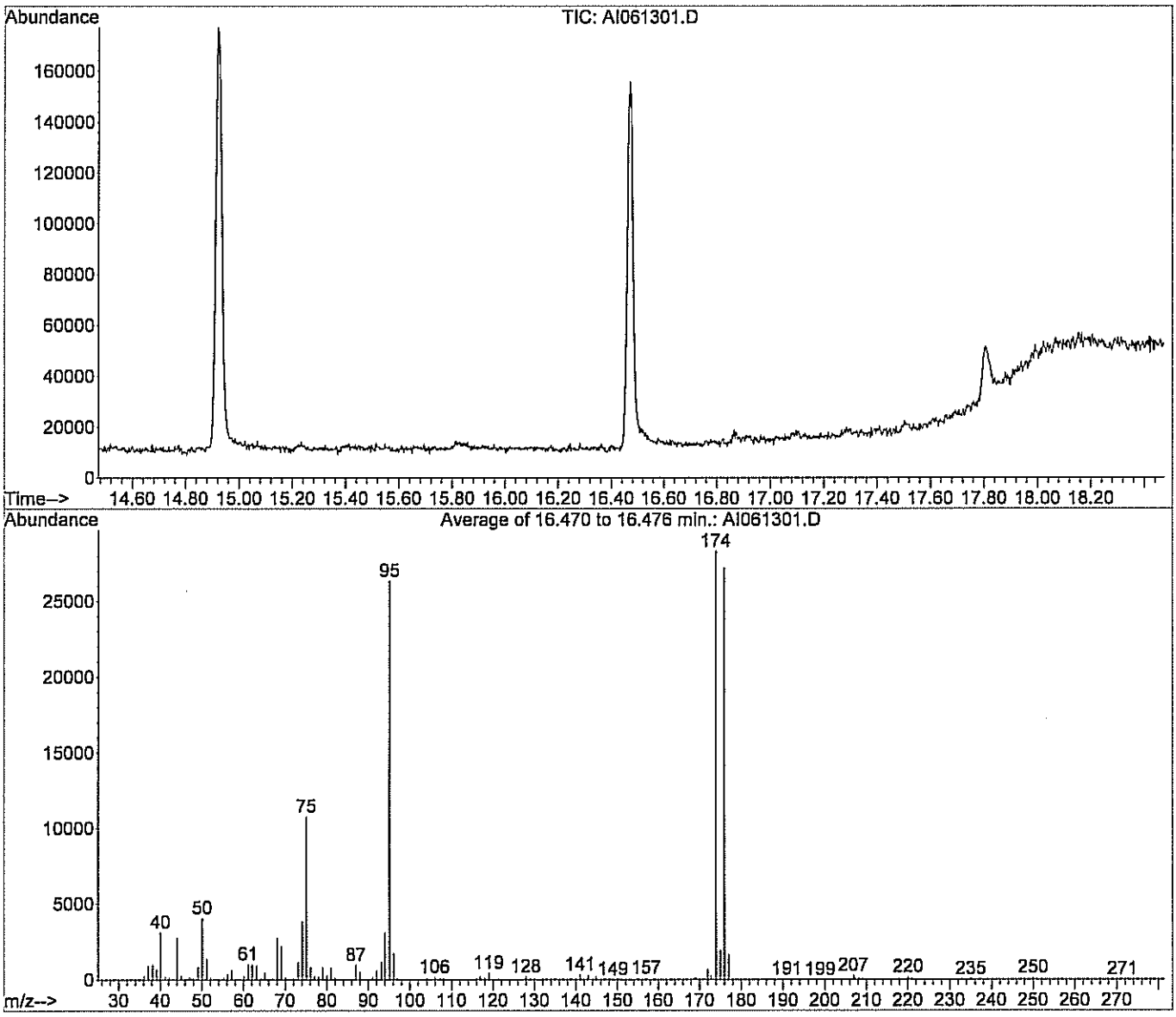
Spectrum Information: Average of 16.467 to 16.473 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	2016	PASS
75	95	30	66	42.9	5726	PASS
95	95	100	100	100.0	13332	PASS
96	95	5	9	5.3	711	PASS
173	174	0.00	2	1.7	243	PASS
174	95	50	120	107.9	14379	PASS
175	174	4	9	6.8	984	PASS
176	174	95	101	95.3	13697	PASS
177	176	5	9	6.3	865	PASS

AI060902.D A606_1UG.M Wed Jul 06 18:19:49 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI061301.D Vial: 42
Acq On : 13 Jun 2011 9:47 am Operator: RJP
Sample : BFB1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.470 to 16.476 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.4	4059	PASS
75	95	30	66	40.9	10793	PASS
95	95	100	100	100.0	26384	PASS
96	95	5	9	6.6	1740	PASS
173	174	0.00	2	0.8	230	PASS
174	95	50	120	107.5	28354	PASS
175	174	4	9	6.8	1929	PASS
176	174	95	101	96.0	27218	PASS
177	176	5	9	6.1	1648	PASS

AI061301.D A606_1UG.M Wed Jul 06 18:21:59 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-060911** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4622**
Client ID: **ZZZZZ** Batch ID: **R4622** TestNo: **TO-15** Analysis Date: **6/9/2011** SeqNo: **55151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-060911** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4622**
Client ID: **ZZZZZ** Batch ID: **R4622** TestNo: **TO-15** Analysis Date: **6/9/2011** SeqNo: **55151**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-060911	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55151

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID AMB1UG-061311	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55159

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060905.D Vial: 6
Acq On : 9 Jun 2011 12:42 pm Operator: RJP
Sample : AMB1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 13:03:27 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

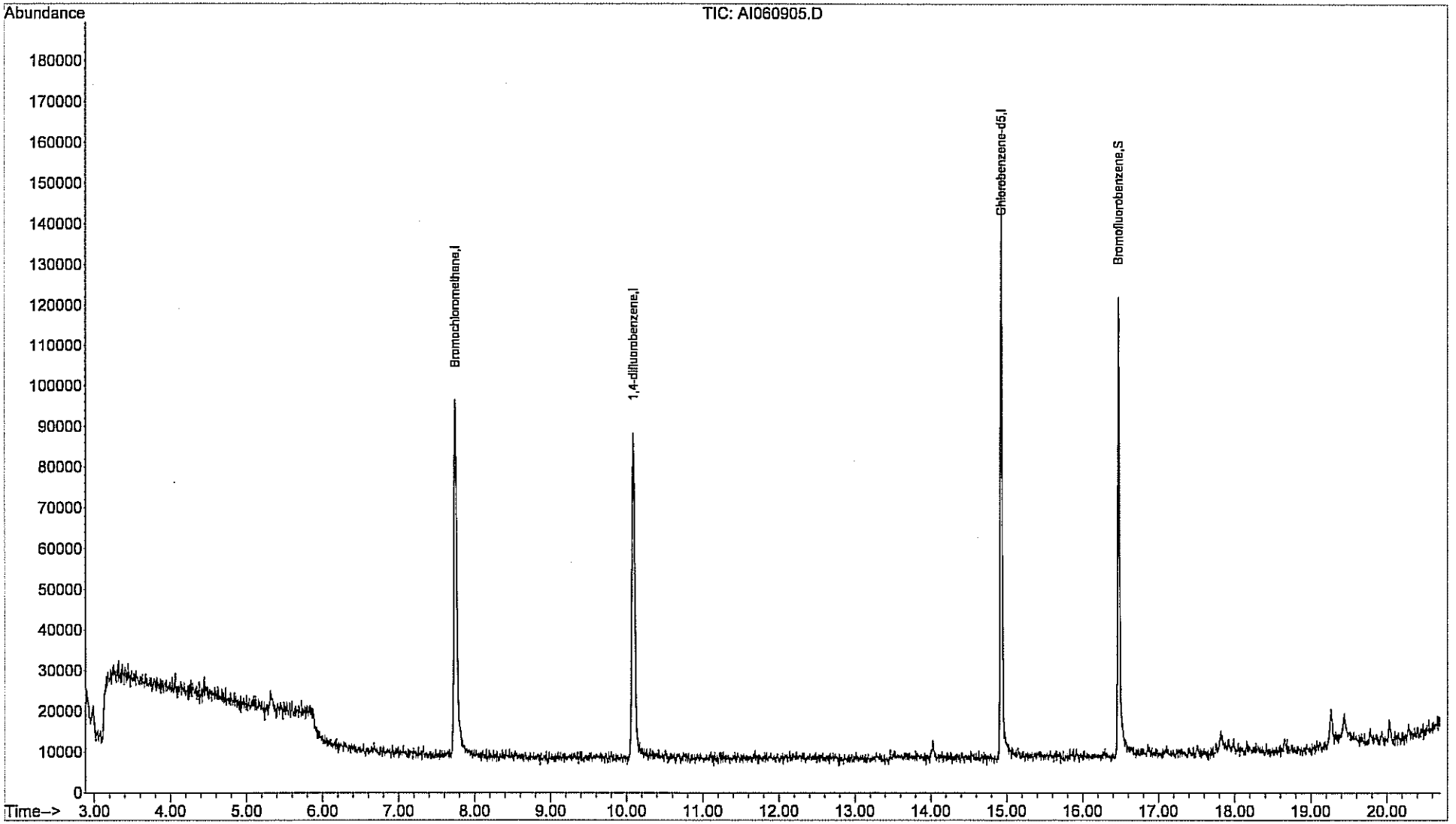
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.75	128	36521	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.09	114	94114	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	88931	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	36640	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060905.D Vial: 6
Acq On : 9 Jun 2011 12:42 pm Operator: RJP
Sample : AMB1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 16:11 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061304.D Vial: 45
Acq On : 13 Jun 2011 11:44 am Operator: RJP
Sample : AMB1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 12:05:12 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.74	128	34780	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.09	114	81235	1.00	ppb	0.01
47) Chlorobenzene-d5	14.93	117	78190	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.47	95	30636	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue

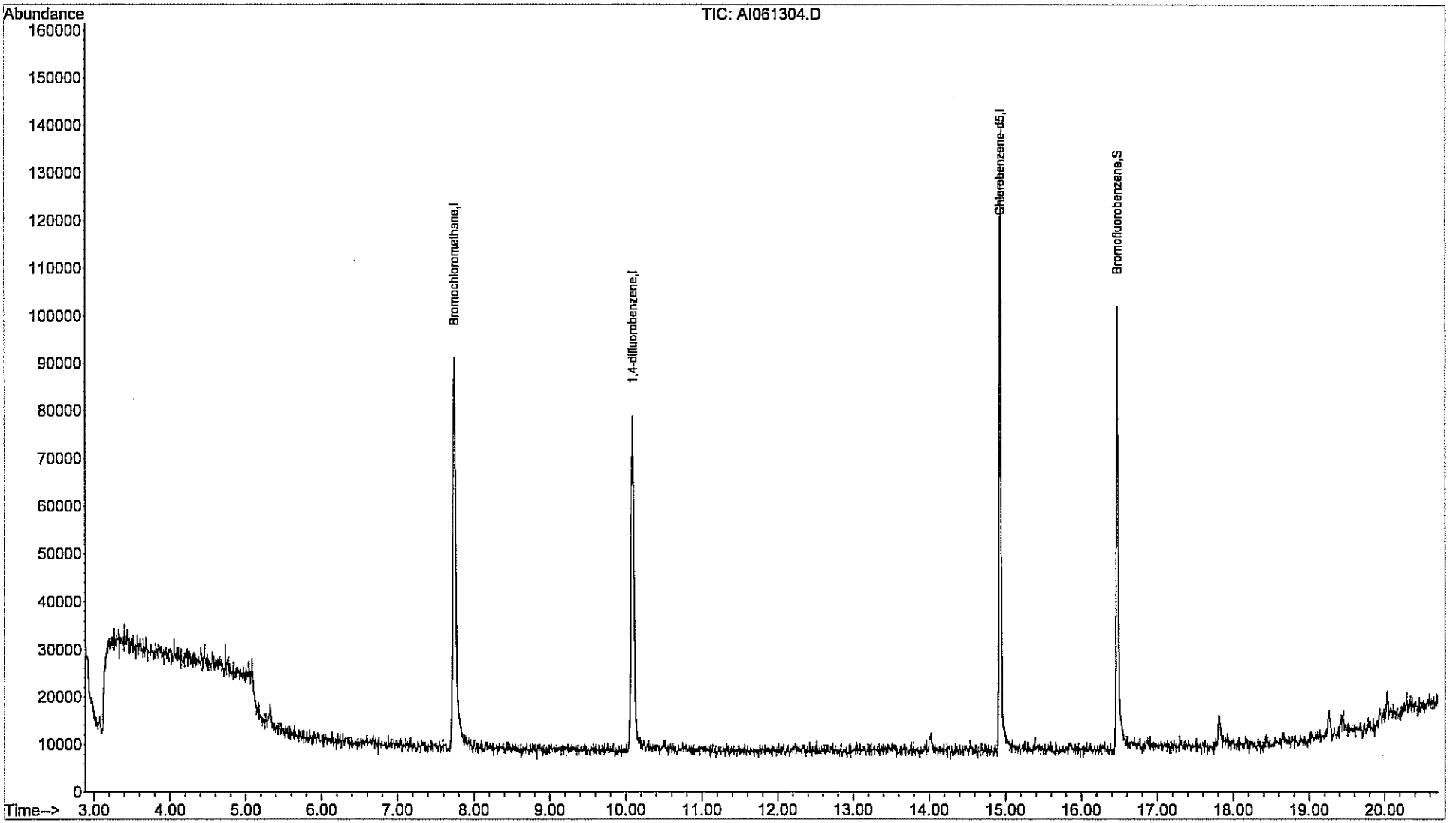
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061304.D
Acq On : 13 Jun 2011 11:44 am
Sample : AMB1UG-061311
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:33 2011

Vial: 45
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4622
Client ID: ZZZZZ Batch ID: R4622 TestNo: TO-15 Analysis Date: 6/9/2011 SeqNo: 55152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.030	0.15	1	0	103	70	130				
1,1,2,2-Tetrachloroethane	1.060	0.15	1	0	106	70	130				
1,1,2-Trichloroethane	1.060	0.15	1	0	106	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130				
1,2,4-Trichlorobenzene	1.280	0.15	1	0	128	70	130				
1,2,4-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,2-Dibromoethane	1.060	0.15	1	0	106	70	130				
1,2-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,2-Dichloropropane	1.070	0.15	1	0	107	70	130				
1,3,5-Trimethylbenzene	1.230	0.15	1	0	123	70	130				
1,3-butadiene	1.160	0.15	1	0	116	70	130				
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	0.9500	0.30	1	0	95.0	70	130				
2,2,4-trimethylpentane	1.130	0.15	1	0	113	70	130				
4-ethyltoluene	1.200	0.15	1	0	120	70	130				
Acetone	1.120	0.30	1	0	112	70	130				
Allyl chloride	0.8900	0.15	1	0	89.0	70	130				
Benzene	1.110	0.15	1	0	111	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	1.040	0.15	1	0	104	70	130				
Bromoform	1.050	0.15	1	0	105	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-060911 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4622
Client ID: ZZZZZ Batch ID: R4622 TestNo: TO-15 Analysis Date: 6/9/2011 SeqNo: 55152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8700	0.15	1	0	87.0	70	130				
Carbon tetrachloride	0.9500	0.15	1	0	95.0	70	130				
Chlorobenzene	1.080	0.15	1	0	108	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.080	0.15	1	0	108	70	130				
Chloromethane	1.060	0.15	1	0	106	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.110	0.15	1	0	111	70	130				
Cyclohexane	1.190	0.15	1	0	119	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	1.090	0.25	1	0	109	70	130				
Ethylbenzene	1.090	0.15	1	0	109	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	1.080	0.15	1	0	108	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.070	0.15	1	0	107	70	130				
Heptane	1.130	0.15	1	0	113	70	130				
Hexachloro-1,3-butadiene	1.180	0.15	1	0	118	70	130				
Hexane	1.190	0.15	1	0	119	70	130				
Isopropyl alcohol	1.180	0.15	1	0	118	70	130				
m&p-Xylene	2.390	0.30	2	0	120	70	130				
Methyl Butyl Ketone	0.8000	0.30	1	0	80.0	70	130				
Methyl Ethyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Isobutyl Ketone	1.000	0.30	1	0	100	70	130				
Methyl tert-butyl ether	1.120	0.15	1	0	112	70	130				
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	1.270	0.15	1	0	127	70	130				
Propylene	1.110	0.15	1	0	111	70	130				
Styrene	1.100	0.15	1	0	110	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	1.050	0.15	1	0	105	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-060911	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/9/2011	SeqNo: 55152

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.170	0.15	1	0	117	70	130				
trans-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.110	0.15	1	0	111	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.030	0.15	1	0	103	70	130				

Sample ID ALCS1UG-061311	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4623
Client ID: ZZZZZ	Batch ID: R4623	TestNo: TO-15		Analysis Date: 6/13/2011	SeqNo: 55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1,2,2-Tetrachloroethane	0.8600	0.15	1	0	86.0	70	130				
1,1,2-Trichloroethane	0.9000	0.15	1	0	90.0	70	130				
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,1-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130				
1,2-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,2-Dichloropropane	0.9200	0.15	1	0	92.0	70	130				
1,3,5-Trimethylbenzene	0.9000	0.15	1	0	90.0	70	130				
1,3-butadiene	0.8400	0.15	1	0	84.0	70	130				
1,3-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-061311 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4623
Client ID: ZZZZZ Batch ID: R4623 TestNo: TO-15 Analysis Date: 6/13/2011 SeqNo: 55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.010	0.30	1	0	101	70	130				
Allyl chloride	0.9200	0.15	1	0	92.0	70	130				
Benzene	0.9500	0.15	1	0	95.0	70	130				
Benzyl chloride	1.020	0.15	1	0	102	70	130				
Bromodichloromethane	0.8800	0.15	1	0	88.0	70	130				
Bromoform	0.9000	0.15	1	0	90.0	70	130				
Bromomethane	1.000	0.15	1	0	100	70	130				
Carbon disulfide	1.190	0.15	1	0	119	70	130				
Carbon tetrachloride	0.8200	0.15	1	0	82.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.9500	0.15	1	0	95.0	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
cis-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Cyclohexane	0.9800	0.15	1	0	98.0	70	130				
Dibromochloromethane	0.8700	0.15	1	0	87.0	70	130				
Ethyl acetate	1.080	0.25	1	0	108	70	130				
Ethylbenzene	0.9500	0.15	1	0	95.0	70	130				
Freon 11	0.9700	0.15	1	0	97.0	70	130				
Freon 113	0.9800	0.15	1	0	98.0	70	130				
Freon 114	1.010	0.15	1	0	101	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9500	0.15	1	0	95.0	70	130				
Hexachloro-1,3-butadiene	0.9000	0.15	1	0	90.0	70	130				
Hexane	1.090	0.15	1	0	109	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	1.940	0.30	2	0	97.0	70	130				
Methyl Butyl Ketone	0.8200	0.30	1	0	82.0	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-061311	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4623
Client ID:	ZZZZZ	Batch ID:	R4623	TestNo:	TO-15			Analysis Date:	6/13/2011	SeqNo:	55160

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.050	0.15	1	0	105	70	130				
Methylene chloride	0.9300	0.15	1	0	93.0	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9900	0.15	1	0	99.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8900	0.15	1	0	89.0	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
trans-1,3-Dichloropropene	0.8600	0.15	1	0	86.0	70	130				
Trichloroethene	0.8600	0.15	1	0	86.0	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	0.9800	0.15	1	0	98.0	70	130				
Vinyl chloride	0.9500	0.15	1	0	95.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 12:26:44 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	35439	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	93734	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	92053	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	44592	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	23196	1.11	ppb		93
3) Freon 12	3.00	85	129841	1.07	ppb		99
4) Chloromethane	3.15	50	31263	1.06	ppb		91
5) Freon 114	3.15	85	93904	1.11	ppb		99
6) Vinyl Chloride	3.29	62	26451	1.03	ppb		99
7) 1,3-butadiene	3.36	39	20117	1.16	ppb		81
8) Bromomethane	3.61	94	32510	1.07	ppb		87
9) Ethanol	3.92	45	6783	0.86	ppb	#	11
10) Acrolein	4.36	56	5839	1.06	ppb		81
11) Chloroethane	3.74	64	10951	1.11	ppb		97
12) Vinyl Bromide	3.99	106	32386	1.09	ppb		97
13) Freon 11	4.19	101	89468	1.08	ppb		98
14) Acetone	4.45	58	9543	1.12	ppb	#	71
15) Isopropyl alcohol	4.57	45	28269	1.18	ppb	#	50
16) 1,1-dichloroethene	4.80	96	27670	1.06	ppb		96
17) Freon 113	4.98	101	62956	1.08	ppb		98
18) Methylene chloride	5.20	84	21634	0.81	ppb		96
19) Allyl chloride	5.19	41	22400	0.89	ppb		95
20) Carbon disulfide	5.32	76	77801	0.87	ppb		92
21) trans-1,2-dichloroethene	6.04	61	46967	1.11	ppb		99
22) methyl tert-butyl ether	6.20	73	58329	1.12	ppb		97
23) 1,1-dichloroethane	6.43	63	67888	1.09	ppb		100
24) Vinyl acetate	6.54	43	36493	1.11	ppb		99
25) Methyl Ethyl Ketone	7.06	72	9422	1.17	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	39603	1.11	ppb		97
27) Hexane	6.95	57	28929	1.19	ppb		96
28) Ethyl acetate	7.62	43	38729	1.09	ppb		96
29) Chloroform	7.90	83	94723	1.08	ppb		99
30) Tetrahydrofuran	8.17	42	15440	1.05	ppb		91
31) 1,2-dichloroethane	8.99	62	53752	1.09	ppb		99
33) 1,1,1-trichloroethane	8.68	97	101570	1.03	ppb		99
34) Cyclohexane	9.37	56	32557	1.19	ppb		96
35) Carbon tetrachloride	9.31	117	117768	0.95	ppb		100
36) Benzene	9.29	78	100084	1.11	ppb		96
37) Methyl methacrylate	11.15	41	17255	1.18	ppb		96
38) 1,4-dioxane	11.46	88	6770	0.95	ppb	#	1
39) 2,2,4-trimethylpentane	10.25	57	101964	1.13	ppb		99
40) Heptane	10.67	43	32926	1.13	ppb		100
41) Trichloroethene	10.76	130	55070	1.01	ppb		99
42) 1,2-dichloropropane	10.90	63	36006	1.07	ppb		98
43) Bromodichloromethane	11.27	83	91229	1.04	ppb		100
44) cis-1,3-dichloropropene	12.17	75	39237	1.11	ppb		99
45) trans-1,3-dichloropropene	12.97	75	30567	1.09	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 09 12:26:44 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

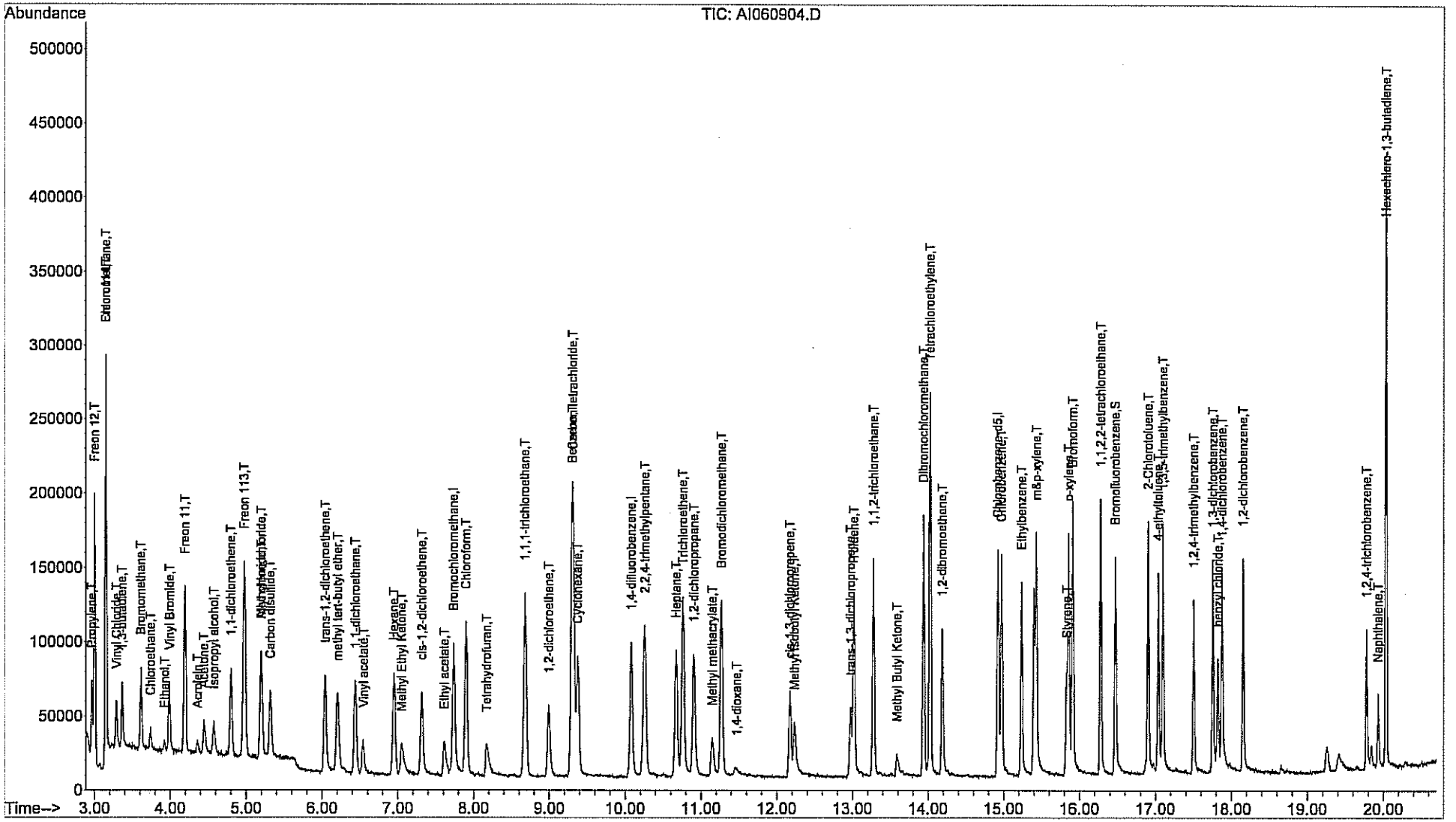
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	47605	1.06	ppb	99
48)	Toluene	13.02	92	53139	1.17	ppb	100
49)	Methyl Isobutyl Ketone	12.23	43	29272	1.00	ppb	98
50)	Dibromochloromethane	13.94	129	92426	1.03	ppb	98
51)	Methyl Butyl Ketone	13.59	43	13852	0.80	ppb	96
52)	1,2-dibromoethane	14.19	107	66350	1.06	ppb	98
53)	Tetrachloroethylene	14.02	164	60085	1.05	ppb	97
54)	Chlorobenzene	14.97	112	83325	1.08	ppb	98
55)	Ethylbenzene	15.23	91	82258	1.09	ppb	98
56)	m&p-xylene	15.43	91	152904	2.39	ppb	98
57)	Styrene	15.83	104	40328	1.10	ppb	99
58)	Bromoform	15.91	173	83683	1.05	ppb	98
59)	o-xylene	15.86	91	99519	1.27	ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	74957	1.06	ppb	100
62)	2-Chlorotoluene	16.90	91	84922	1.15	ppb	98
63)	4-ethyltoluene	17.04	105	68909	1.20	ppb	97
64)	1,3,5-trimethylbenzene	17.10	105	81885	1.23	ppb	98
65)	1,2,4-trimethylbenzene	17.50	105	55371	1.23	ppb	99
66)	1,3-dichlorobenzene	17.76	146	62123	1.15	ppb	99
67)	benzyl chloride	17.82	91	45644	1.24	ppb	97
68)	1,4-dichlorobenzene	17.88	146	55851	1.17	ppb	98
69)	1,2-dichlorobenzene	18.15	146	59627	1.17	ppb	99
70)	1,2,4-trichlorobenzene	19.78	180	28128	1.28	ppb	99
71)	Naphthalene	19.93	128	36538	1.33	ppb	98
72)	Hexachloro-1,3-butadiene	20.03	225	67130	1.18	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060904.D Vial: 5
Acq On : 9 Jun 2011 12:05 pm Operator: RJP
Sample : ALCS1UG-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 9 12:26 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 11:31:10 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.73	128	36093	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.07	114	103158	1.00	ppb		0.00
47) Chlorobenzene-d5	14.92	117	98686	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	46772	1.11	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%				
Target Compounds							Qvalue
2) Propylene	2.97	41	21234	0.99	ppb		91
3) Freon 12	3.00	85	121680	0.99	ppb		100
4) Chloromethane	3.15	50	30446	1.01	ppb		99
5) Freon 114	3.15	85	87489	1.01	ppb		99
6) Vinyl Chloride	3.29	62	24805	0.95	ppb		97
7) 1,3-butadiene	3.36	39	14808	0.84	ppb		98
8) Bromomethane	3.61	94	30991	1.00	ppb		94
9) Ethanol	3.92	45	5973	0.74	ppb	#	32
10) Acrolein	4.36	56	5346	0.95	ppb		92
11) Chloroethane	3.73	64	9539	0.95	ppb		96
12) Vinyl Bromide	3.99	106	29806	0.98	ppb		98
13) Freon 11	4.19	101	81747	0.97	ppb		100
14) Acetone	4.44	58	8754	1.01	ppb	#	71
15) Isopropyl alcohol	4.57	45	26255	1.07	ppb		92
16) 1,1-dichloroethene	4.80	96	25593	0.97	ppb		97
17) Freon 113	4.97	101	58230	0.98	ppb		99
18) Methylene chloride	5.20	84	25435	0.93	ppb		93
19) Allyl chloride	5.19	41	23709	0.92	ppb		91
20) Carbon disulfide	5.32	76	108644	1.19	ppb		94
21) trans-1,2-dichloroethene	6.03	61	44279	1.03	ppb		95
22) methyl tert-butyl ether	6.21	73	56018	1.05	ppb		95
23) 1,1-dichloroethane	6.43	63	65114	1.03	ppb		99
24) Vinyl acetate	6.54	43	35675	1.06	ppb		100
25) Methyl Ethyl Ketone	7.07	72	8877	1.08	ppb	#	85
26) cis-1,2-dichloroethene	7.31	61	38131	1.05	ppb		96
27) Hexane	6.95	57	27024	1.09	ppb		95
28) Ethyl acetate	7.61	43	39324	1.08	ppb		97
29) Chloroform	7.90	83	88930	1.00	ppb		100
30) Tetrahydrofuran	8.18	42	15406	1.03	ppb		96
31) 1,2-dichloroethane	8.99	62	51147	1.02	ppb		98
33) 1,1,1-trichloroethane	8.68	97	97486	0.90	ppb		99
34) Cyclohexane	9.37	56	29465	0.98	ppb		98
35) Carbon tetrachloride	9.31	117	112660	0.82	ppb		98
36) Benzene	9.29	78	94734	0.95	ppb		100
37) Methyl methacrylate	11.15	41	15843	0.98	ppb		93
38) 1,4-dioxane	11.49	88	7207m	0.92	ppb		
39) 2,2,4-trimethylpentane	10.25	57	95457	0.96	ppb		99
40) Heptane	10.67	43	30299	0.95	ppb		98
41) Trichloroethene	10.76	130	51409	0.86	ppb		98
42) 1,2-dichloropropane	10.90	63	34174	0.92	ppb		96
43) Bromodichloromethane	11.27	83	85015	0.88	ppb		98
44) cis-1,3-dichloropropene	12.17	75	37232	0.96	ppb		98
45) trans-1,3-dichloropropene	12.98	75	26604	0.86	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 11:31:10 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

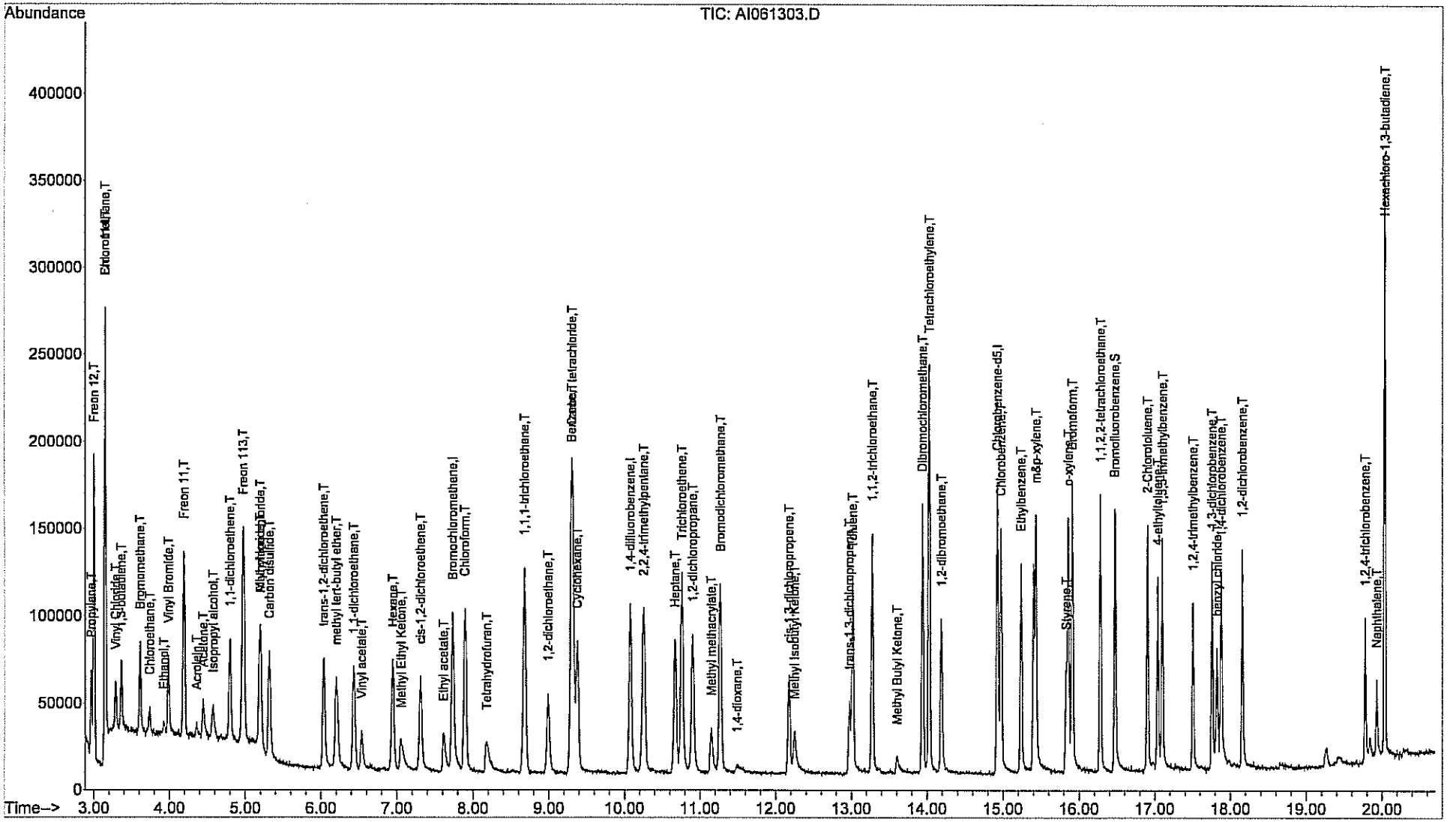
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.27	97	44669	0.90	ppb	99
48)	Toluene	13.02	92	47804	0.98	ppb	98
49)	Methyl Isobutyl Ketone	12.25	43	21933m	0.70	ppb	
50)	Dibromochloromethane	13.94	129	84067	0.87	ppb	99
51)	Methyl Butyl Ketone	13.60	43	15209m	0.82	ppb	
52)	1,2-dibromoethane	14.19	107	60960	0.91	ppb	99
53)	Tetrachloroethylene	14.03	164	54642	0.89	ppb	99
54)	Chlorobenzene	14.97	112	79150	0.96	ppb	98
55)	Ethylbenzene	15.24	91	76835	0.95	ppb	100
56)	m&p-xylene	15.43	91	133128	1.94	ppb	99
57)	Styrene	15.83	104	37094	0.95	ppb	97
58)	Bromoform	15.91	173	76282	0.90	ppb	98
59)	o-xylene	15.86	91	72682	0.87	ppb	99
61)	1,1,2,2-tetrachloroethane	16.28	83	65417	0.86	ppb	97
62)	2-Chlorotoluene	16.90	91	72951	0.92	ppb	98
63)	4-ethyltoluene	17.04	105	57258	0.93	ppb	99
64)	1,3,5-trimethylbenzene	17.10	105	64142	0.90	ppb	99
65)	1,2,4-trimethylbenzene	17.51	105	46026	0.95	ppb	98
66)	1,3-dichlorobenzene	17.76	146	52628	0.91	ppb	98
67)	benzyl chloride	17.83	91	40258	1.02	ppb	97
68)	1,4-dichlorobenzene	17.88	146	48593	0.95	ppb	100
69)	1,2-dichlorobenzene	18.16	146	52026	0.95	ppb	98
70)	1,2,4-trichlorobenzene	19.78	180	25131	1.06	ppb	99
71)	Naphthalene	19.93	128	31431	1.07	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	54770	0.90	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI061303.D Vial: 44
Acq On : 13 Jun 2011 11:10 am Operator: RJP
Sample : ALCS1UG-061311 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 13 15:33 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *06-Jul-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-060911** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4622**
Client ID: **ZZZZZ** Batch ID: **R4622** TestNo: **TO-15** Analysis Date: **6/10/2011** SeqNo: **55153**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9600	0.15	1	0	96.0	70	130	1.03	7.04	30	
1,1,2,2-Tetrachloroethane	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130	1.06	14.1	30	
1,1-Dichloroethane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	30	
1,1-Dichloroethene	0.8800	0.15	1	0	88.0	70	130	1.06	18.6	30	
1,2,4-Trichlorobenzene	1.010	0.15	1	0	101	70	130	1.28	23.6	30	
1,2,4-Trimethylbenzene	0.8000	0.15	1	0	80.0	70	130	1.23	42.4	30	R
1,2-Dibromoethane	0.9000	0.15	1	0	90.0	70	130	1.06	16.3	30	
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	1.17	30.5	30	R
1,2-Dichloroethane	0.9300	0.15	1	0	93.0	70	130	1.09	15.8	30	
1,2-Dichloropropane	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130	1.23	38.8	30	R
1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	1.16	37.9	30	R
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	1.15	25.5	30	
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130	1.17	27.2	30	
1,4-Dioxane	0.7500	0.30	1	0	75.0	70	130	0.95	23.5	30	
2,2,4-trimethylpentane	0.9500	0.15	1	0	95.0	70	130	1.13	17.3	30	
4-ethyltoluene	0.8100	0.15	1	0	81.0	70	130	1.2	38.8	30	R
Acetone	1.040	0.30	1	0	104	70	130	1.12	7.41	30	
Allyl chloride	0.7900	0.15	1	0	79.0	70	130	0.89	11.9	30	
Benzene	0.9600	0.15	1	0	96.0	70	130	1.11	14.5	30	
Benzyl chloride	0.8400	0.15	1	0	84.0	70	130	1.24	38.5	30	R
Bromodichloromethane	0.9600	0.15	1	0	96.0	70	130	1.04	8.00	30	
Bromoform	0.9200	0.15	1	0	92.0	70	130	1.05	13.2	30	
Bromomethane	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-060911	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4622
Client ID: ZZZZZ	Batch ID: R4622	TestNo: TO-15		Analysis Date: 6/10/2011	SeqNo: 55153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.7200	0.15	1	0	72.0	70	130	0.87	18.9	30	
Carbon tetrachloride	0.8900	0.15	1	0	89.0	70	130	0.95	6.52	30	
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130	1.08	18.2	30	
Chloroethane	0.9000	0.15	1	0	90.0	70	130	1.11	20.9	30	
Chloroform	0.9100	0.15	1	0	91.0	70	130	1.08	17.1	30	
Chloromethane	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
cis-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130	1.11	22.0	30	
cis-1,3-Dichloropropene	0.9100	0.15	1	0	91.0	70	130	1.11	19.8	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.19	24.5	30	
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130	1.03	13.5	30	
Ethyl acetate	0.8600	0.25	1	0	86.0	70	130	1.09	23.6	30	
Ethylbenzene	0.8500	0.15	1	0	85.0	70	130	1.09	24.7	30	
Freon 11	0.9400	0.15	1	0	94.0	70	130	1.08	13.9	30	
Freon 113	0.9300	0.15	1	0	93.0	70	130	1.08	14.9	30	
Freon 114	0.9400	0.15	1	0	94.0	70	130	1.11	16.6	30	
Freon 12	0.9200	0.15	1	0	92.0	70	130	1.07	15.1	30	
Heptane	0.9200	0.15	1	0	92.0	70	130	1.13	20.5	30	
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130	1.18	24.8	30	
Hexane	0.9300	0.15	1	0	93.0	70	130	1.19	24.5	30	
Isopropyl alcohol	0.8600	0.15	1	0	86.0	70	130	1.18	31.4	30	R
m&p-Xylene	1.760	0.30	2	0	88.0	70	130	2.39	30.4	30	R
Methyl Butyl Ketone	0.9600	0.30	1	0	96.0	70	130	0.8	18.2	30	
Methyl Ethyl Ketone	0.8100	0.30	1	0	81.0	70	130	1.17	36.4	30	R
Methyl Isobutyl Ketone	0.7500	0.30	1	0	75.0	70	130	1	28.6	30	
Methyl tert-butyl ether	0.9000	0.15	1	0	90.0	70	130	1.12	21.8	30	
Methylene chloride	0.7700	0.15	1	0	77.0	70	130	0.81	5.06	30	
o-Xylene	0.9600	0.15	1	0	96.0	70	130	1.27	27.8	30	
Propylene	0.8800	0.15	1	0	88.0	70	130	1.11	23.1	30	
Styrene	0.8700	0.15	1	0	87.0	70	130	1.1	23.4	30	
Tetrachloroethylene	0.9000	0.15	1	0	90.0	70	130	1.05	15.4	30	
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130	1.05	19.9	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1106012
Project: B774/B776 SSVM

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-060911 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4622
Client ID: ZZZZZ Batch ID: R4622 TestNo: TO-15 Analysis Date: 6/10/2011 SeqNo: 55153

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9000	0.15	1	0	90.0	70	130	1.17	26.1	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.11	19.8	30	
trans-1,3-Dichloropropene	0.8900	0.15	1	0	89.0	70	130	1.09	20.2	30	
Trichloroethene	0.8900	0.15	1	0	89.0	70	130	1.01	12.6	30	
Vinyl acetate	0.8800	0.15	1	0	88.0	70	130	1.11	23.1	30	
Vinyl Bromide	0.9200	0.15	1	0	92.0	70	130	1.09	16.9	30	
Vinyl chloride	0.8900	0.15	1	0	89.0	70	130	1.03	14.6	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 03:22:14 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.74	128	36425	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.08	114	89985	1.00	ppb		0.00
47) Chlorobenzene-d5	14.93	117	89708	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.47	95	43562	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.96	41	18969	0.88	ppb		94
3) Freon 12	3.00	85	114306	0.92	ppb		99
4) Chloromethane	3.15	50	27413	0.91	ppb		96
5) Freon 114	3.15	85	81830	0.94	ppb		99
6) Vinyl Chloride	3.29	62	23538	0.89	ppb		98
7) 1,3-butadiene	3.36	39	14120	0.79	ppb		90
8) Bromomethane	3.61	94	29543	0.94	ppb		91
9) Ethanol	3.93	45	6991m	0.86	ppb		
10) Acrolein	4.36	56	5331	0.94	ppb		86
11) Chloroethane	3.74	64	9190	0.90	ppb		91
12) Vinyl Bromide	3.99	106	28261	0.92	ppb		98
13) Freon 11	4.19	101	79885	0.94	ppb		99
14) Acetone	4.45	58	9119	1.04	ppb		95
15) Isopropyl alcohol	4.56	45	21156	0.86	ppb		82
16) 1,1-dichloroethene	4.81	96	23415	0.88	ppb		97
17) Freon 113	4.98	101	55762	0.93	ppb		98
18) Methylene chloride	5.21	84	21078m	0.77	ppb		
19) Allyl chloride	5.19	41	20507	0.79	ppb		96
20) Carbon disulfide	5.32	76	66228	0.72	ppb		100
21) trans-1,2-dichloroethene	6.05	61	39438	0.91	ppb		96
22) methyl tert-butyl ether	6.20	73	48168	0.90	ppb		92
23) 1,1-dichloroethane	6.44	63	59459	0.93	ppb		99
24) Vinyl acetate	6.54	43	29900	0.88	ppb		97
25) Methyl Ethyl Ketone	7.05	72	6711	0.81	ppb	#	85
26) cis-1,2-dichloroethene	7.32	61	32738	0.89	ppb		95
27) Hexane	6.95	57	23205	0.93	ppb		96
28) Ethyl acetate	7.61	43	31447	0.86	ppb		95
29) Chloroform	7.91	83	82247	0.91	ppb		100
30) Tetrahydrofuran	8.18	42	12938	0.86	ppb		95
31) 1,2-dichloroethane	9.00	62	47157	0.93	ppb		97
33) 1,1,1-trichloroethane	8.69	97	90601	0.96	ppb		99
34) Cyclohexane	9.39	56	24429	0.93	ppb		95
35) Carbon tetrachloride	9.32	117	105533	0.89	ppb		99
36) Benzene	9.30	78	82962	0.96	ppb		99
37) Methyl methacrylate	11.16	41	11549	0.82	ppb		89
38) 1,4-dioxane	11.46	88	5112m	0.75	ppb		
39) 2,2,4-trimethylpentane	10.27	57	82719	0.95	ppb		98
40) Heptane	10.68	43	25526	0.92	ppb		96
41) Trichloroethene	10.77	130	46572	0.89	ppb		98
42) 1,2-dichloropropane	10.91	63	30345	0.94	ppb		100
43) Bromodichloromethane	11.28	83	80307	0.96	ppb		99
44) cis-1,3-dichloropropene	12.18	75	30842	0.91	ppb		99
45) trans-1,3-dichloropropene	12.97	75	23868	0.89	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 10 03:22:14 2011 Quant Results File: A606_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jun 08 16:51:41 2011
Response via : Initial Calibration
DataAcq Meth : A606_1UG

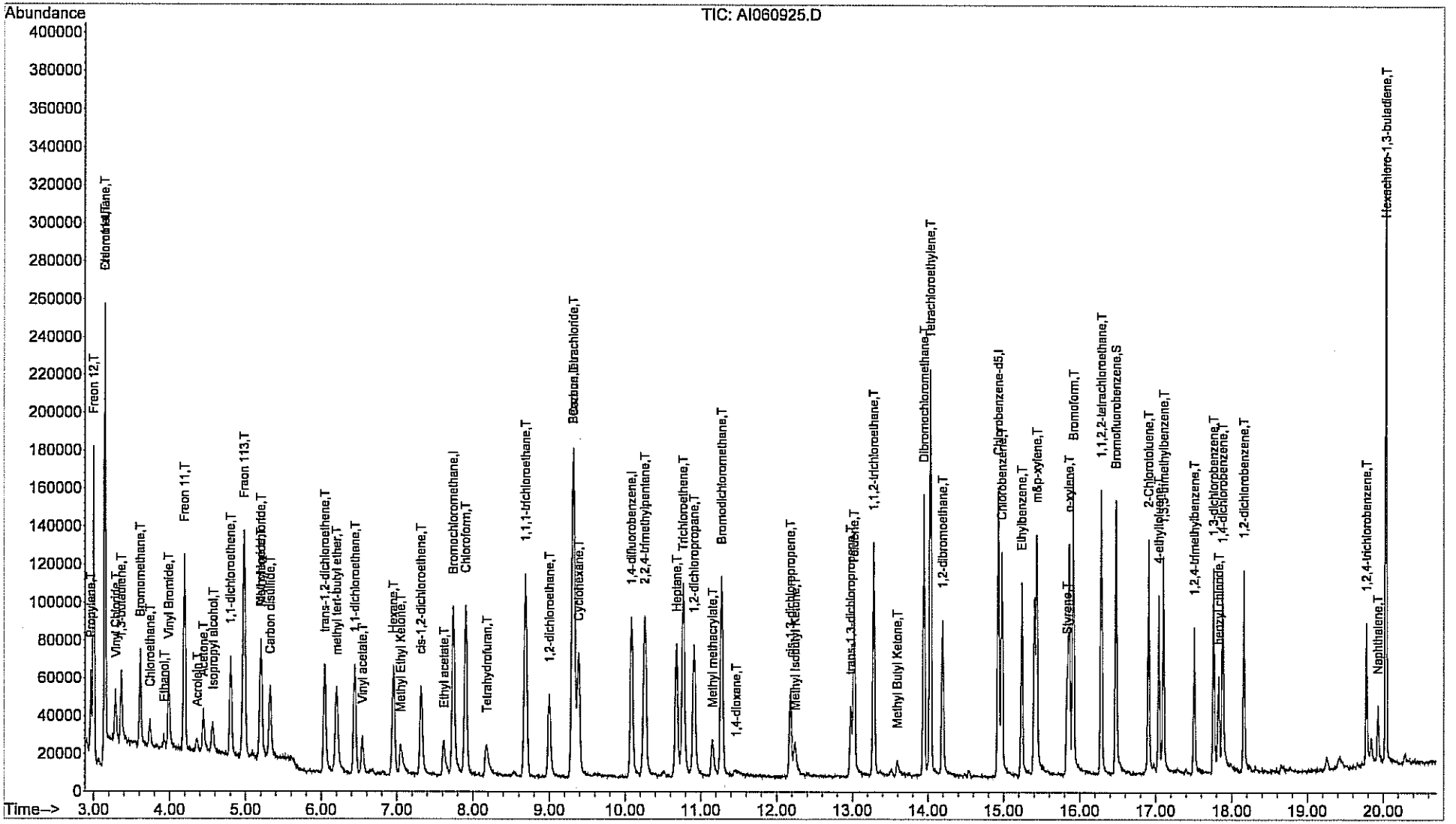
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.28	97	39761	0.92	ppb	99
48)	Toluene	13.02	92	40011	0.90	ppb	99
49)	Methyl Isobutyl Ketone	12.24	43	21353m	0.75	ppb	
50)	Dibromochloromethane	13.94	129	79038	0.90	ppb	98
51)	Methyl Butyl Ketone	13.59	43	16237m	0.96	ppb	
52)	1,2-dibromoethane	14.19	107	55006	0.90	ppb	98
53)	Tetrachloroethylene	14.03	164	49695	0.90	ppb	98
54)	Chlorobenzene	14.98	112	67582	0.90	ppb	100
55)	Ethylbenzene	15.24	91	62802	0.85	ppb	100
56)	m&p-xylene	15.43	91	109796	1.76	ppb	99
57)	Styrene	15.83	104	31004	0.87	ppb	99
58)	Bromoform	15.91	173	71460	0.92	ppb	99
59)	o-xylene	15.86	91	73477	0.96	ppb	89
61)	1,1,2,2-tetrachloroethane	16.28	83	62899	0.91	ppb	99
62)	2-Chlorotoluene	16.90	91	63130	0.88	ppb	97
63)	4-ethyltoluene	17.04	105	45305	0.81	ppb	98
64)	1,3,5-trimethylbenzene	17.10	105	53795	0.83	ppb	97
65)	1,2,4-trimethylbenzene	17.51	105	35050	0.80	ppb	99
66)	1,3-dichlorobenzene	17.76	146	46599	0.89	ppb	99
67)	benzyl chloride	17.82	91	30104	0.84	ppb	95
68)	1,4-dichlorobenzene	17.88	146	41703	0.89	ppb	97
69)	1,2-dichlorobenzene	18.16	146	42545	0.86	ppb	97
70)	1,2,4-trichlorobenzene	19.78	180	21772	1.01	ppb	97
71)	Naphthalene	19.93	128	20043	0.75	ppb	97
72)	Hexachloro-1,3-butadiene	20.03	225	50726	0.92	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI060925.D Vial: 41
Acq On : 10 Jun 2011 3:01 am Operator: RJP
Sample : ALCS1UGD-060911 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jun 16 11:05 2011 Quant Results File: A606_1UG.RES

Method : C:\HPCHEM\1\METHODS\A606_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Jul 06 17:31:53 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8526
Standard Stock #(s) 8527
LCS Stock #(s) _____
Method Reference: Toxic Organic Componds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1UG	A=060601	-		A606.1UG		6/6/11	1328		
	A1UG-0.04	04	-							
	2.0	05	-							
	1.5	06	-							
	1.0	08	-							
	0.75	09	-							
	0.50	10	-							
	0.30	11	-							
	0.15	12	-							
	0.10	13	-					2147		
	BLK	15	-							

Analyzed by: _____

Page No: 65

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8526
Standard Stock #(s) 8527
LCS Stock #(s) 8528
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIU6	AI060902	-	-	A606-IU6		6/9/11	0846		
	AIU6-1.0	03	-	200						
	ALCSIU6-060911	04	-							
	AMBIU6	05	-							
	C1106016-001	06	-							
	002	07	-							
	001 DL	08	10	20						
	002	09								
		10	40	5						
	C1106007-003	11	-	200						
	001	12	-							
	002	13	-							
	C1106012-003	14	-							
	002	15	-							
	001	16	-							
	C1106007-001 DL	17	10	20						
	002	18								
	001	19	40	5						
	C1106012-002	21	10	20			6/10/11	0031		
	001	27	40	5						
	ALCSIU6A-060911	25	-	200				0301		
	BLK	26	-	-						

Analyzed by: [signature]

Page No: 66

Centek Laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8547
Standard Stock #(s) 8548
LCS Stock #(s) 8545
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBICC	A061301	-	-	A606-1C6		6/13/11	0547		
	A1UG-1.0	02	-	200						
	ALCS1UG-061311	03	-	↓						
	AMB1UG ↓	04	-	↓						
	C11060I2-001 A	05	10	20						
	002 ↓	06	90	20 (9)*						
	C1106007-001 ↓	07	180	10 ↓						
	WAC061311A	08	-	200						
	B	09	-							
	C	10	-							
	D	11	-						N	
	E	12	-						N	
	F	13	-							
	G	14	-							
	H	15	-							
	I	16	-	↓			↓	2015		
	BLK	17	-	-						

Analyzed by: KAN

*OL ON CAN

Page No: 67

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by	
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.		
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.		
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	I.I.		
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓		
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.I.		
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.		
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.		
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	I.I.		RECERT. ON 3/11 EXP 3/12
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓		
7619	1/25/10	1/25/11	FIXED GASES	105940 2163 04	% VARIES	1L	MATHESON TRI-GAS		mf		
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	I.I.		
7621	↓	↓	↓ STD(A)	7617/7384/7418	↓	↓	↓	↓	↓		
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓		
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	I.I.		
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓		
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓		
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8314	2/14/11	2/21/11	TO15 IVE LCS	8307	50ppb	0.9psig	45psia	1ppb	MM	
8315	↓	↓	IS B	8305	↓	↓	↓	↓	↓	
8316	↓	↓	STD B	8306	↓	↓	↓	↓	↓	
8317	2/14/11	2/14/12	TO15 IS	AB 100321	1ppm	LINDE GAS			MM	
8318	2/15/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8319	2/16/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8320	2/17/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8321	2/21/11	2/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	MM	
8322	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	
8323			LCS	7748AM						
8324			4PCH	7384						
8325			FORM	7068	36.5%	1.1UG	50psia	10ppm		
8326			FORM STD	8305/25	10ppm	0.23psig	45psia	50ppb		
8327			SUL/GAS	6194	1ppm	1.5psig	30psia	50ppb		
8328			TO15IVE IS A	8321	50ppb	0.9psig	45psia	1ppb		
8329			STD B	8322						
8330			LCS	8323						
8331			IS B	8321						
8332	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8333	3/1/11	3/8/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	MM	
8334	↓	↓	STD	7617/18	↓	↓	↓	↓		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743A+B	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			SUL/SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8333	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	STD B	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348	↓	↓	STD	8345/46	↓	↓	↓	↓	↓	
8349			LCS	2617/18 ~~8346~~						
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			SUL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.9 psig	45 psia	1 ppb		
8355	↓	↓	STA A	8348	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8522	5/31/11	6/6/11	TO15 10G LCS	8515	50ppb	0.9psig	45psia	1ppb	M	
8523	6/1/11	6/6/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8524	↓	↓	TO15 10G IS (B)	8523	50ppb	0.9psig	45psia	1ppb	↓	
8525	↓	↓	↓ STD (B)	8514	↓	↓	↓	↓	↓	
8526	6/2/11	6/6/11	TO15 10G IS A	8323	50ppb	0.9psig	45psia	1ppb	M	
8527	↓	↓	↓ STD A	8324	↓	↓	↓	↓	↓	
8528	↓	↓	↓ LCS	8328	↓	↓	↓	↓	↓	
8529	6/8/11	6/13/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	M	
8530	↓	↓	↓ STD	8345/46	↓	↓	↓	↓	↓	
8531			LCS	7617/18						
8532			4PCH	7354	↓	↓	↓	↓		
8533			FORM	7068	36.5%	1.1µg	50psig	10ppm		
8534			↓ 60	8333	10ppm	0.23psig	45psia	50ppb		
8535			↓ 61LX/5UL	6154/7046	1ppm	1.5psig	30psia	↓		
8536			TO15 10G IS	8529	50ppb	0.9psig	45psia	1ppb		
8537			↓ STD	8530	↓	↓	↓	↓		
8538	↓	↓	↓ LCS	8531	↓	↓	↓	↓	↓	
8539	6/8/11	6/13/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8540	6/13/11	6/20/11	TO15 IS	8317	↓	↓	↓	↓	I.L.	
8541	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8542	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8543	6/13/11	6/20/11	TO15 4PCH	7384	1ppm	1.5psiG	30psiA	50ppb	I.L.	
8544	↓	↓	FORM	7068	36.5%	1.1ul	50psiG	10ppm	↓	
8545	↓	↓	FORM50	8544	10ppm	0.23psiG	45psiA	50ppb	↓	
8546	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb	↓	
8547	↓	↓	TO15 IUG IS (CA)	8540	50ppb	0.9psiG	45psiA	1ppb	↓	
8548	↓	↓	STD (CA)	8541	↓	↓	↓	↓	↓	
8549	↓	↓	LCS (CA)	8542	↓	↓	↓	↓	↓	
8550	6/17/11	6/20/11	TO15 IS	8317	1ppm	1.5psiG	30psiA	50ppb	I.L.	
8551	6/20/11	6/27/11	TO15 IS	8345/8317	1ppm	1.5psiG	30psiA	50ppb	I.L.	
8552	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8553	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	
8554	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8555	↓	↓	FORM	7068	36.5%	1.1ul	50psiG	10ppm	↓	
8556	↓	↓	FORM50	8555	10ppm	0.23psiG	45psiA	50ppb	↓	
8557	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb	↓	
8558	6/20/11	6/27/11	TO15 IUG IS (CA)	8551	50ppb	0.9psiG	45psiA	1ppb	↓	
8559	↓	↓	STD (CA)	8552	↓	↓	↓	↓	↓	
8560	↓	↓	LCS	8553	↓	↓	↓	↓	↓	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
471	222	30	5/15/11	WAC051811 F	1UG + 0.25	+ 30	+ 30
93						+	+
282						+	+
275						+	+
222	↓					+	+
362	171			G		+	+
284						+	+
286						+	+
129						+	+
171	↓			↓		+	+
416	199			WAC0518 AA		+	+
552						+	+
366						+	+
332						+	+
199	↓					+	+
241	495			AB		+	+
357						+	+
170						+	+
89						+	+
495	↓					+	+
141	429			AC		+	+
286						+	+
312						+	+
350						+	+
429	↓	↓	↓	↓	↓	+ ↓	+ ↓

Cleaned by: _____

Page # _____

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051828.D Vial: 41
Acq On : 19 May 2011 11:18 am Operator: LL
Sample : WAC051811AA Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:36:42 2011 Quant Results File: B405_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration
DataAcq Meth : B405_1UG

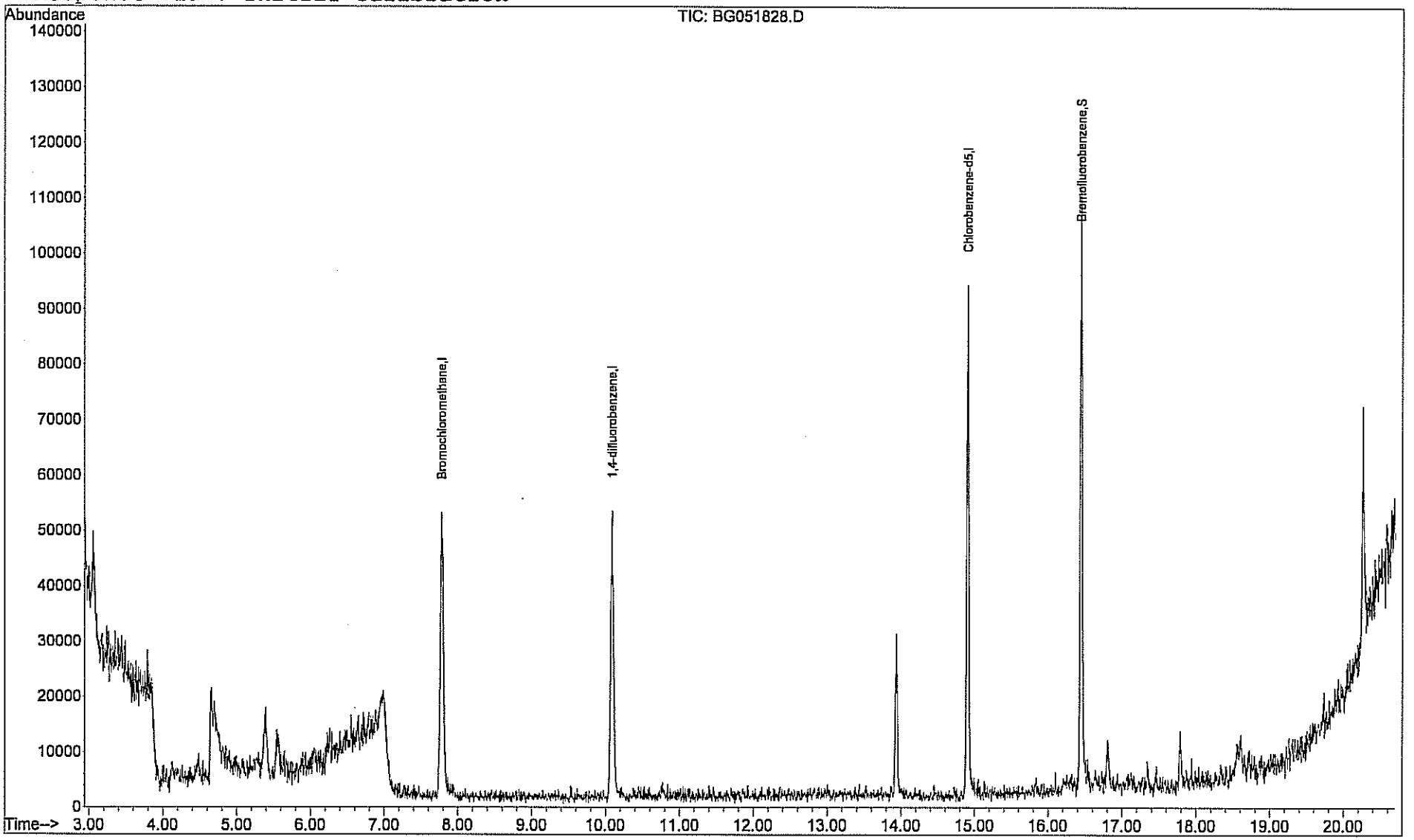
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	19823	1.00	ppb	-0.02
30) 1,4-difluorobenzene	10.08	114	48857	1.00	ppb	-0.02
44) Chlorobenzene-d5	14.90	117	51012	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	33842	1.10	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051828.D Vial: 41
Acq On : 19 May 2011 11:18 am Operator: LL
Sample : WAC051811AA Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:37 2011 Quant Results File: B405_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051829.D Vial: 44
Acq On : 19 May 2011 11:52 am Operator: LL
Sample : WAC051811AB Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:38:31 2011 Quant Results File: B405_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration
DataAcq Meth : B405_1UG

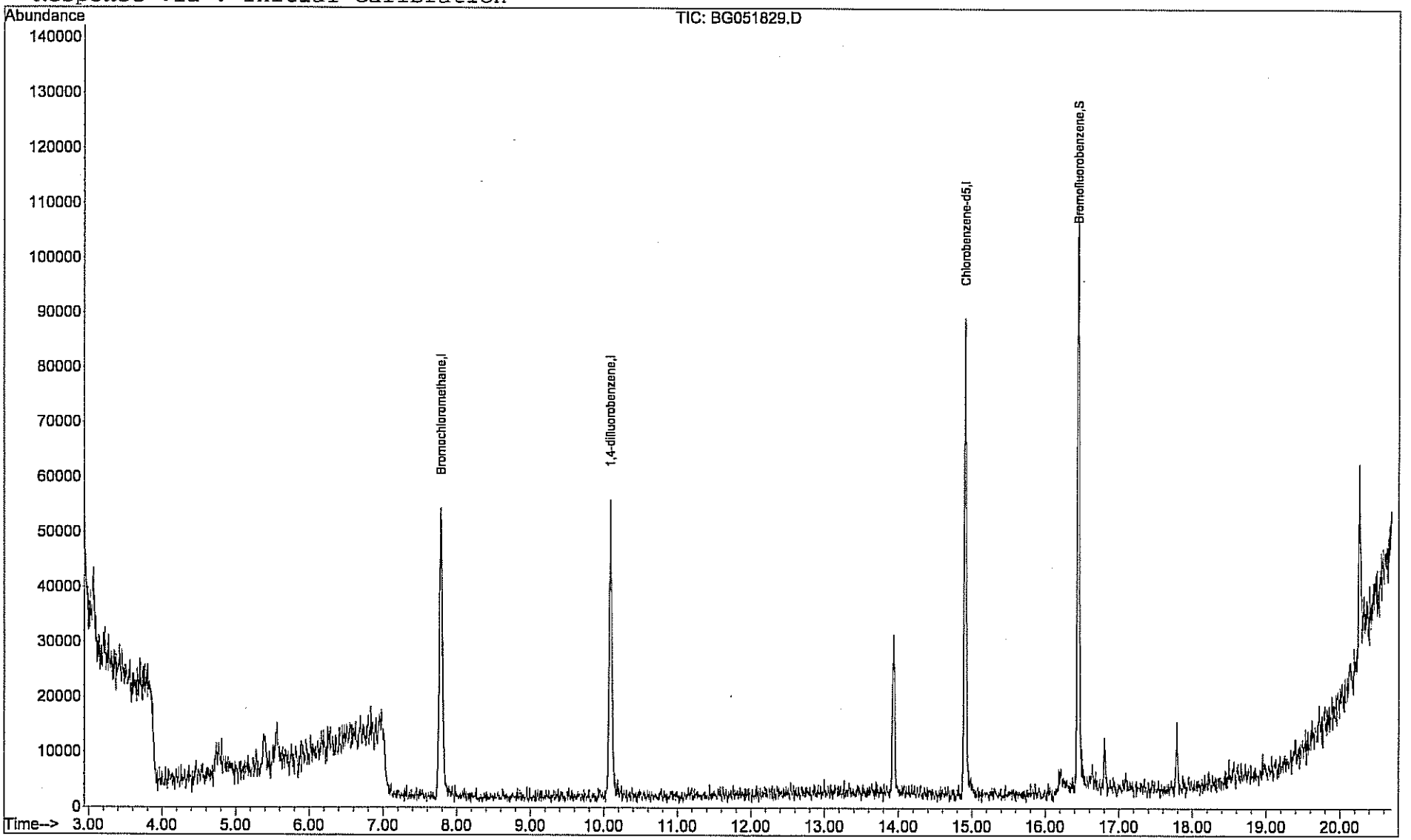
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	19229	1.00	ppb	-0.02
30) 1,4-difluorobenzene	10.08	114	47812	1.00	ppb	-0.02
44) Chlorobenzene-d5	14.90	117	51413	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	30075	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
BG051829.D B405_1UG.M Thu Jul 21 11:41:16 2011 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051829.D Vial: 44
Acq On : 19 May 2011 11:52 am Operator: LL
Sample : WAC051811AB Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:38 2011 Quant Results File: B405_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051830.D Vial: 41
Acq On : 19 May 2011 12:25 pm Operator: LL
Sample : WAC051811AC Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:39:51 2011 Quant Results File: B405_1UG.RES

Quant Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration
DataAcq Meth : B405_1UG

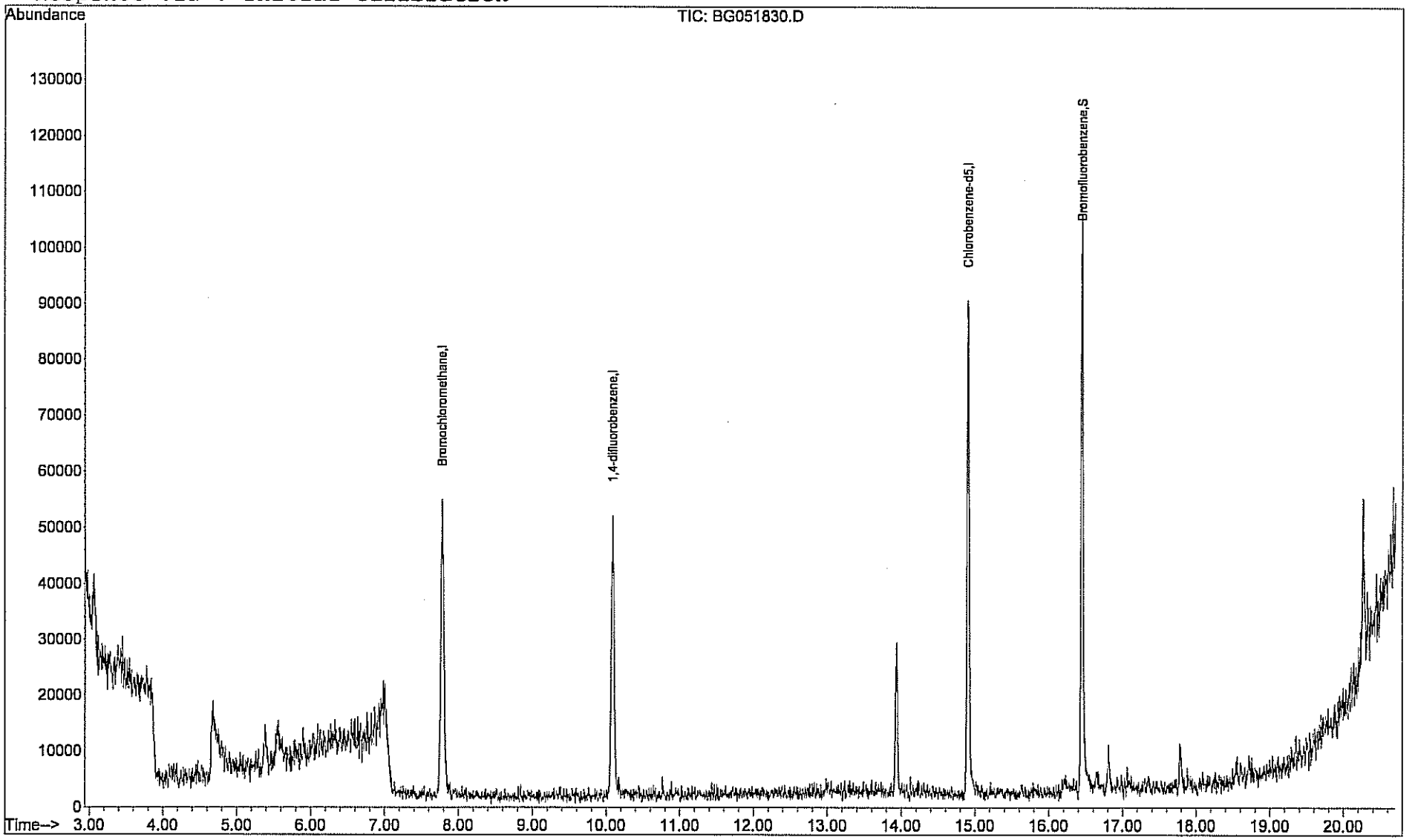
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.78	128	19121	1.00	ppb	-0.02
30) 1,4-difluorobenzene	10.08	114	49503	1.00	ppb	-0.02
44) Chlorobenzene-d5	14.90	117	50178	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.45	95	31198	1.03	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\MSDCHEM\1\DATA2\2011MAY\BG051830.D Vial: 41
Acq On : 19 May 2011 12:25 pm Operator: LL
Sample : WAC051811AC Inst : MSD #2
Misc : 1ugm3 & 0.25 TCE,CT,VNCL QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jul 21 11:40 2011 Quant Results File: B405_1UG.RES

Method : C:\MSDCHEM\1\METHODS\B405_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Apr 06 11:30:30 2011
Response via : Initial Calibration



Centek Laboratories, LLC

TO-15 Package Review Checklist

Client: FPM GROUP Project: GRIFFIS AFB SDG: C1108077

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits	✓		
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: NO MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client:_____ Project:_____ SDG:_____

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete			✓

Comments:_____

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:_____

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor:_____ Date: 5/25/11

QC Supervisor:_____ Date: 5/26/11

CENTEK LABORATORIES, LLC
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Thursday, September 08, 2011
Order No.: C1108077

RE: Griffis AFB

Dear Katrina Mattice:

Centek Laboratories, LLC received 17 sample(s) on 8/30/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *29-Sep-11*

CLIENT: FPM Group
Project: Griffis AFB
Lab Order: C1108077

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

C1108077

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: 1000-08-17 Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
774VMP0101AB	774VMP-1	8/24	1120	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 210ppb, Can = 542, Reg = 391A
774VMP0201AB	774VMP-2	8/24	1005	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 83ppb, Can = 157, Reg = 440
774VMP0301AB	774VMP-3	8/24	1015	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 5,232ppb Can = 141, Reg = 120
785VMP0202AE	785VMP-2	8/24	1555	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 479, Reg = 395
785VMP0401AB	785VMP-4	8/24	1605	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 415, Reg = 299
785VMP0501AA	785VMP-5	8/25	1210	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 561, Reg = 124
786VMP0102AB	786VMP-1	8/24	1535	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 171, Reg = 278
786VMP0202AB	786VMP-2	8/24	1540	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppn, Can = 236, Reg = 346
786VMP0302AB	786VMP-3	8/24	1525	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 546, Reg = 399
785IA05	785IA-5	8/24	1610	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 248, Reg = 441
785OA01	785OA-1	8/24	1615	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 347, Reg = 119
786IA04	786IA-4	8/24	1545	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 287, Reg = 76
774776CA01AB	774776-Influent	8/23	1135	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 243ppb, Can = 98
774776CA02AB	774776-Effluent	8/23	1145	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 203
785786CA01AB	785786-Influent	8/23	1105	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 742ppb, Can = 366
785786CA02AB	785786-Effluent	8/23	1112	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 552
Trip Blank	082411TB	8/25	0900	GS	AC	0/0	TB	-	Unf.	1	1	1	Can = 567

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

C1108077

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 8/24/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1600	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 8/19/11	#2 Received by: (Sig)	Date: 8/30/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1155	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *29-Sep-11*

CLIENT: FPM
Project: Griffis AFB
Lab Order: C1108077

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1108077-001A	774VMP0101AB	542,391	8/24/2011	8/30/2011
C1108077-002A	774VMP0201AB	157,440	8/24/2011	8/30/2011
C1108077-003A	774VMP0301AB	141,120	8/24/2011	8/30/2011
C1108077-004A	785VMP0202AE	479,395	8/24/2011	8/30/2011
C1108077-005A	785VMP0401AB	415,299	8/24/2011	8/30/2011
C1108077-006A	785VMP0501AA	561,124	8/25/2011	8/30/2011
C1108077-007A	786VMP0102AB	171,278	8/24/2011	8/30/2011

CLIENT:	FPM
Project:	Griffis AFB
Lab Order:	C1108077

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1108077-008A	786VMP0202AB	236,346	8/24/2011	8/30/2011
C1108077-009A	786VMP0302AB	546,399	8/24/2011	8/30/2011
C1108077-010A	785IA05	248,441	8/24/2011	8/30/2011
C1108077-011A	785OA01	347,119	8/24/2011	8/30/2011
C1108077-012A	786IA04	287,76	8/24/2011	8/30/2011
C1108077-013A	774776CA01AB	243,98	8/23/2011	8/30/2011
C1108077-014A	774776CA02AB	203	8/23/2011	8/30/2011
C1108077-015A	785786CA01AB	366	8/23/2011	8/30/2011

CLIENT:	FPM
Project:	Griffis AFB
Lab Order:	C1108077

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1108077-016A	785786CA02AB	552	8/23/2011	8/30/2011
C1108077-017A	Trip Blanl	567	8/25/2011	8/30/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: FPM-ROME | Date and Time Received: 8/30/2011

Work Order Number C1108077 | Received by: JDS

Checklist completed by: [signature] 8/30/11 (Signature / Date) | Reviewed by: M 8/30/11 (Initials / Date)

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Lab Order: C1108077
Client: FPM
Project: Griffis AFB

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1108077-001A	774VMP0101AB	8/24/2011	Air	1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/7/2011
C1108077-002A	774VMP0201AB			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-003A	774VMP0301AB			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-004A	785VMP0202AE			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-005A	785VMP0401AB		Air	1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-006A	785VMP0501AA	8/25/2011		1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/7/2011
C1108077-007A	786VMP0102AB	8/24/2011		1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-008A	786VMP0202AB			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-009A	786VMP0302AB			1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/7/2011
C1108077-010A	785IA05		Air	1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-011A	785OA01			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-012A	786IA04			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-013A	774776CA01AB	8/23/2011	Air	1ug/M3 by Method TO15			9/8/2011

Centek Laboratories, LLC

Lab Order: C1108077
Client: FPM
Project: Griffis AFB

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1108077-013A	774776CA01AB	8/23/2011	Air	1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-014A	774776CA02AB			1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-015A	785786CA01AB			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-016A	785786CA02AB			1ug/M3 by Method TO15			9/7/2011
				1ug/M3 by Method TO15			9/8/2011
				1ug/M3 by Method TO15			9/8/2011
C1108077-017A	Trip Blank	8/25/2011	Air	1ug/M3 by Method TO15			9/7/2011

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2527

29-Sep-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 153 Brook Road
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 252
Project:

Submitted By:

Ship Date: 8/18/2011
VIA: FedEx
Due Date: 8/19/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	23

Can / Reg ID	Description
391	Time-Set Reg - 770
66	Time-Set Reg - 526
95	1L Mini-Can - 1087
232	1L Mini-Can - 1163
283	1L Mini-Can - 1052
304	Time-Set Reg - 727
317	1L Mini-Can - 1280
327	1L Mini-Can - 1290
350	1L Mini-Can - 1272
382	Time-Set Reg - 756
436	Time-Set Reg - 815
448	Time-Set Reg - 827
455	Time-Set Reg - 834
766	Shipping Cooler M
86	1L Mini-Can - 1091
98	1L Mini-Can - 1099
119	Time-Set Reg - 623
120	Time-Set Reg - 624
124	Time-Set Reg - 628
141	1L Mini-Can - 1115
567	1L Mini-Can - 138
441	Time-Set Reg - 820
479	1L Mini-Can - 1381
542	1L Mini-Can - 110
546	1L Mini-Can - 114
552	1L Mini-Can - 120
561	1L Mini-Can - 130
352	1L Mini-Can - 1301
366	1L Mini-Can - 1315
395	Time-Set Reg - 774
399	Time-Set Reg - 778
415	1L Mini-Can
440	Time-Set Reg - 819

SHIPPED TO:

Company:	FPM Group	Submitted By:	
Contact:	Katrina Mattice		
Address:	153 Brook Road		
	Rome, NY 13441		
Phone:	(315) 336-7721	Ship Date:	8/18/2011
		VIA:	FedEx
Quote ID:	252	Due Date:	8/19/2011
Project:			

Bottle Code	Bottle Type	TEST(s)	QTY
248	1L Mini-Can - 1180		
278	Time-Set Reg - 634		
287	1L Mini-Can - 255		
299	Time-Set Reg - 722		
346	Time-Set Reg - 743		
347	1L Mini-Can - 1269		
157	1L Mini-Can - 1127		
171	1L Mini-Can - 1142		
176	Time-Set Reg - 662		
187	Time-Set Reg - 625		
203	1L Mini-Can - 1158		
236	1L Mini-Can - 1167		

Comments: 12 1L @ 5 min 6 1L @ 12 hrs. Include 1 trip blank. 4 1L w/ quick grabs and guage.WAC 081011J-L & 081611G-H,K 1 reg 2cans

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.5	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	0.41	0.15		ppbV	1	9/7/2011 2:30:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 2:30:00 PM
Acetone	13	3.0		ppbV	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.11	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.19	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Cyclohexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 11	3.4	1.5		ppbV	10	9/7/2011 11:56:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 2:30:00 PM
Heptane	0.89	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
m&p-Xylene	2.0	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	1.6	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Methylene chloride	0.28	0.15		ppbV	1	9/7/2011 2:30:00 PM
o-Xylene	0.54	0.15		ppbV	1	9/7/2011 2:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Toluene	4.5	1.5		ppbV	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Trichloroethene	75	14		ppbV	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	8.3	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	3.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	1.9	0.71		ug/m3	1	9/7/2011 2:30:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Acetone	31	7.2		ug/m3	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 2:30:00 PM
Benzene	4.3	0.49		ug/m3	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.51	0.70	J	ug/m3	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 2:30:00 PM
Chloroform	9.1	0.74		ug/m3	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.77	0.60		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Cyclohexane	7.8	0.52		ug/m3	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
Ethylbenzene	2.8	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Freon 11	19	8.6		ug/m3	10	9/7/2011 11:56:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 2:30:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Heptane	3.7	0.62		ug/m3	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Hexane	7.9	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 2:30:00 PM
m&p-Xylene	9.0	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	4.9	0.90		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 2:30:00 PM
Methylene chloride	0.99	0.53		ug/m3	1	9/7/2011 2:30:00 PM
o-Xylene	2.4	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 2:30:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 2:30:00 PM
Toluene	17	5.7		ug/m3	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Trichloroethene	410	76		ug/m3	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.43	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	0.81	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	0.46	0.15		ppbV	1	9/7/2011 3:09:00 PM
4-ethyltoluene	0.31	0.15		ppbV	1	9/7/2011 3:09:00 PM
Acetone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzene	1.4	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.12	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloroform	0.36	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Cyclohexane	2.9	1.5		ppbV	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.17	0.25	J	ppbV	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.73	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 11	3.8	1.5		ppbV	10	9/8/2011 1:02:00 AM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 3:09:00 PM
Heptane	1.0	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexane	2.3	1.5		ppbV	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 1:02:00 AM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
o-Xylene	0.63	0.15		ppbV	1	9/7/2011 3:09:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Toluene	4.5	1.5		ppbV	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	2.4	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	4.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	2.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	2.2	0.71		ug/m3	1	9/7/2011 3:09:00 PM
4-ethyltoluene	1.5	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Acetone	< 0.72	0.72		ug/m3	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:09:00 PM
Benzene	4.4	0.49		ug/m3	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.56	0.70	J	ug/m3	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:09:00 PM
Chloroform	1.8	0.74		ug/m3	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Cyclohexane	10	5.2		ug/m3	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.62	0.92	J	ug/m3	1	9/7/2011 3:09:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Freon 11	22	8.6		ug/m3	10	9/8/2011 1:02:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 3:09:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Heptane	4.2	0.62		ug/m3	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Hexane	8.2	5.4		ug/m3	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 1:02:00 AM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:09:00 PM
o-Xylene	2.8	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:09:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:09:00 PM
Toluene	17	5.7		ug/m3	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	0.12	0.15	J	ppbV	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	0.36	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	0.49	0.15		ppbV	1	9/7/2011 3:42:00 PM
4-ethyltoluene	0.33	0.15		ppbV	1	9/7/2011 3:42:00 PM
Acetone	8.0	3.0		ppbV	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzene	1.2	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon disulfide	0.44	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.18	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Cyclohexane	3.1	1.5		ppbV	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 11	20	1.5		ppbV	10	9/8/2011 1:35:00 AM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 3:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 12	0.52	0.15		ppbV	1	9/7/2011 3:42:00 PM
Heptane	0.84	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexane	2.1	0.15		ppbV	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
o-Xylene	0.73	0.15		ppbV	1	9/7/2011 3:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Styrene	0.32	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Toluene	4.2	1.5		ppbV	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Trichloroethene	2.0	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-003A

Client Sample ID: 774VMP0301AB
Tag Number: 141,120
Collection Date: 8/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	0.67	0.83	J	ug/m3	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	4.1	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	1.8	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	2.3	0.71		ug/m3	1	9/7/2011 3:42:00 PM
4-ethyltoluene	1.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Acetone	19	7.2		ug/m3	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:42:00 PM
Benzene	3.8	0.49		ug/m3	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:42:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.84	0.70		ug/m3	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:42:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Cyclohexane	11	5.2		ug/m3	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
Ethylbenzene	3.6	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Freon 11	120	8.6		ug/m3	10	9/8/2011 1:35:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 3:42:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Heptane	3.5	0.62		ug/m3	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Hexane	7.5	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 3:42:00 PM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:42:00 PM
o-Xylene	3.2	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:42:00 PM
Styrene	1.4	0.65		ug/m3	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:42:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Trichloroethene	11	0.82		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	0.29	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	0.25	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Acetone	7.0	1.5		ppbV	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzene	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Cyclohexane	0.27	0.15		ppbV	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 4:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 12	0.61	0.15		ppbV	1	9/7/2011 4:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	3.6	0.75		ppbV	5	9/8/2011 2:09:00 AM
Toluene	0.87	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Trichloroethene	3.4	0.75		ppbV	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-004A

Client Sample ID: 785VMP0202AE
Tag Number: 479,395
Collection Date: 8/24/2011
Matrix:

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	1.5	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Acetone	17	3.6		ug/m3	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:16:00 PM
Benzene	0.65	0.49		ug/m3	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 4:16:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Cyclohexane	0.94	0.52		ug/m3	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 4:16:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 4:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.1	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.93	1.3	J	ug/m3	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	11	2.2		ug/m3	5	9/8/2011 2:09:00 AM
Toluene	3.3	0.57		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Trichloroethene	19	4.1		ug/m3	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.13	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	0.43	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	0.32	0.15		ppbV	1	9/7/2011 4:49:00 PM
4-ethyltoluene	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Acetone	6.7	3.0		ppbV	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Carbon disulfide	4.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.14	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloroform	0.16	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Cyclohexane	2.7	1.5		ppbV	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-005A

Client Sample ID: 785VMP0401AB
Tag Number: 415,299
Collection Date: 8/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	1.4	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Heptane	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexane	2.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	0.93	0.15		ppbV	1	9/7/2011 4:49:00 PM
m&p-Xylene	3.2	3.0		ppbV	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
o-Xylene	1.2	0.15		ppbV	1	9/7/2011 4:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Toluene	6.1	1.5		ppbV	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Trichloroethene	16	1.5		ppbV	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	0.72	0.83	J	ug/m3	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	2.1	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	1.5	0.71		ug/m3	1	9/7/2011 4:49:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Acetone	16	7.2		ug/m3	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:49:00 PM
Benzene	4.2	0.49		ug/m3	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:49:00 PM
Carbon disulfide	13	4.7		ug/m3	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.66	0.70	J	ug/m3	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:49:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Cyclohexane	9.4	5.2		ug/m3	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
Ethylbenzene	6.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 4:49:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 4:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Heptane	5.3	0.62		ug/m3	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Hexane	7.9	5.4		ug/m3	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	2.3	0.37		ug/m3	1	9/7/2011 4:49:00 PM
m&p-Xylene	14	13		ug/m3	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:49:00 PM
o-Xylene	5.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 4:49:00 PM
Toluene	23	5.7		ug/m3	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Trichloroethene	88	8.2		ug/m3	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.86	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	0.45	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.17	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Acetone	8.7	3.0		ppbV	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroform	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 11	0.39	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 3:15:00 AM
m&p-Xylene	1.8	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	0.66	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Methylene chloride	1.0	0.15		ppbV	1	9/7/2011 5:23:00 PM
o-Xylene	0.68	0.15		ppbV	1	9/7/2011 5:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	0.32	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Toluene	0.55	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Trichloroethene	110	14		ppbV	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 5:23:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.85	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	9/7/2011 5:23:00 PM
Acetone	21	7.2		ug/m3	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:23:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:23:00 PM
Chloroform	2.8	0.74		ug/m3	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	2.1	0.60		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
Ethylbenzene	2.3	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Freon 11	2.2	0.86		ug/m3	1	9/7/2011 5:23:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 5:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 3:15:00 AM
m&p-Xylene	8.2	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:23:00 PM
Methylene chloride	3.7	0.53		ug/m3	1	9/7/2011 5:23:00 PM
o-Xylene	3.0	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	2.2	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:23:00 PM
Toluene	2.1	0.57		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Trichloroethene	610	76		ug/m3	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	0.39	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
4-ethyltoluene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Acetone	8.3	3.0		ppbV	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzene	0.94	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroform	0.17	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Cyclohexane	0.72	0.15		ppbV	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.0	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 5:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 5:56:00 PM
Heptane	0.82	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexane	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	5.8	1.5		ppbV	10	9/8/2011 4:21:00 AM
m&p-Xylene	4.2	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	0.78	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
o-Xylene	1.1	0.15		ppbV	1	9/7/2011 5:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Toluene	3.9	1.5		ppbV	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	6.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	1.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.95	0.71		ug/m3	1	9/7/2011 5:56:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Acetone	20	7.2		ug/m3	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:56:00 PM
Benzene	3.1	0.49		ug/m3	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:56:00 PM
Chloroform	0.84	0.74		ug/m3	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
Ethylbenzene	4.6	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 5:56:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 5:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Heptane	3.4	0.62		ug/m3	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Hexane	4.9	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	14	3.7		ug/m3	10	9/8/2011 4:21:00 AM
m&p-Xylene	19	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 5:56:00 PM
o-Xylene	4.9	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	3.7	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:56:00 PM
Toluene	15	5.7		ug/m3	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.75	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	1.5	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	0.62	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
4-ethyltoluene	0.40	0.15		ppbV	1	9/7/2011 6:29:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Benzene	0.10	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromodichloromethane	0.47	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon disulfide	0.43	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroform	21	1.5		ppbV	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Ethyl acetate	0.31	0.25		ppbV	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	2.0	1.5		ppbV	10	9/8/2011 4:54:00 AM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 113	0.14	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 6:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
m&p-Xylene	7.3	3.0		ppbV	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	2.9	3.0	J	ppbV	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Methylene chloride	6.4	1.5		ppbV	10	9/8/2011 4:54:00 AM
o-Xylene	1.5	1.5		ppbV	10	9/8/2011 4:54:00 AM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Styrene	0.50	0.15		ppbV	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Toluene	4.3	1.5		ppbV	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Trichloroethene	47	6.0		ppbV	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.2	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	7.5	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 6:29:00 PM
4-ethyltoluene	2.0	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Acetone	25	7.2		ug/m3	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 6:29:00 PM
Benzene	0.32	0.49	J	ug/m3	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 6:29:00 PM
Bromodichloromethane	3.2	1.0		ug/m3	1	9/7/2011 6:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 6:29:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 6:29:00 PM
Chloroform	100	7.4		ug/m3	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 6:29:00 PM
Ethyl acetate	1.1	0.92		ug/m3	1	9/7/2011 6:29:00 PM
Ethylbenzene	8.8	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 6:29:00 PM
Freon 113	1.1	1.2	J	ug/m3	1	9/7/2011 6:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 6:29:00 PM
m&p-Xylene	32	13		ug/m3	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	8.7	9.0	J	ug/m3	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 6:29:00 PM
Methylene chloride	23	5.3		ug/m3	10	9/8/2011 4:54:00 AM
o-Xylene	6.6	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 6:29:00 PM
Styrene	2.2	0.65		ug/m3	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 6:29:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Trichloroethene	260	33		ug/m3	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 6:29:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	0.48	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.12	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Benzene	0.10	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:02:00 PM
Heptane	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	4.4	1.5		ppbV	10	9/8/2011 6:01:00 AM
m&p-Xylene	1.2	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	2.1	3.0	J	ppbV	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
o-Xylene	0.33	0.15		ppbV	1	9/7/2011 7:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Styrene	0.22	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	0.38	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Toluene	1.4	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Trichloroethene	9.3	1.5		ppbV	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	2.4	0.75		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.65	0.75	J	ug/m3	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	9/7/2011 7:02:00 PM
Acetone	24	7.2		ug/m3	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:02:00 PM
Benzene	0.32	0.49	J	ug/m3	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:02:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 7:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:02:00 PM
Heptane	1.2	0.62		ug/m3	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	9/8/2011 6:01:00 AM
m&p-Xylene	5.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	6.3	9.0	J	ug/m3	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 7:02:00 PM
o-Xylene	1.5	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:02:00 PM
Styrene	0.95	0.65		ug/m3	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	2.6	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:02:00 PM
Toluene	5.2	0.57		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Trichloroethene	51	8.2		ug/m3	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	7851A05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Acetone	15	3.0		ppbV	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-010A

Client Sample ID: 785IA05
Tag Number: 248,441
Collection Date: 8/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	9.6	1.5		ppbV	10	9/8/2011 6:34:00 AM
m&p-Xylene	0.23	0.30	J	ppbV	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Methylene chloride	0.24	0.15		ppbV	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Toluene	1.1	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Trichloroethene	0.20	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Acetone	35	7.2		ug/m3	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:35:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	24	3.7		ug/m3	10	9/8/2011 6:34:00 AM
m&p-Xylene	1.0	1.3	J	ug/m3	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	3.2	0.90		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:35:00 PM
Methylene chloride	0.85	0.53		ug/m3	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:35:00 PM
Toluene	4.2	0.57		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Trichloroethene	1.1	0.82		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	0.26	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Acetone	16	3.0		ppbV	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Cyclohexane	0.22	0.15		ppbV	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.17	0.30	J	ppbV	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Toluene	0.61	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Trichloroethene	0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	1.3	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Acetone	39	7.2		ug/m3	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:07:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Cyclohexane	0.77	0.52		ug/m3	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.75	1.3	J	ug/m3	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	3.4	0.90		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:07:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:07:00 PM
Toluene	2.3	0.57		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:07:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	1.0	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	0.52	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	9/7/2011 8:40:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 8:40:00 PM
Acetone	20	3.0		ppbV	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzene	0.28	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.16	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.68	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 8:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 8:40:00 PM
Heptane	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
m&p-Xylene	2.5	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	2.0	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Methylene chloride	0.77	0.15		ppbV	1	9/7/2011 8:40:00 PM
o-Xylene	0.61	0.15		ppbV	1	9/7/2011 8:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Styrene	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Toluene	2.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Trichloroethene	0.45	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	5.1	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	2.6	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.81	0.71		ug/m3	1	9/7/2011 8:40:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Acetone	49	7.2		ug/m3	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:40:00 PM
Benzene	0.91	0.49		ug/m3	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.64	0.60		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
Ethylbenzene	3.0	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:40:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 8:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	7861A04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Heptane	1.7	0.62		ug/m3	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 7:41:00 AM
m&p-Xylene	11	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	5.9	0.90		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:40:00 PM
Methylene chloride	2.7	0.53		ug/m3	1	9/7/2011 8:40:00 PM
o-Xylene	2.7	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:40:00 PM
Styrene	1.8	0.65		ug/m3	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:40:00 PM
Toluene	8.8	5.7		ug/m3	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Trichloroethene	2.5	0.82		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.73	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	0.63	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	0.44	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/7/2011 9:13:00 PM
Acetone	12	3.0		ppbV	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroform	0.87	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-013A

Client Sample ID: 774776CA01AB
Tag Number: 243,98
Collection Date: 8/23/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.21	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 11	24	1.5		ppbV	10	9/8/2011 8:15:00 AM
Freon 113	0.25	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 12	3.2	1.5		ppbV	10	9/8/2011 8:15:00 AM
Heptane	2.8	1.5		ppbV	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
m&p-Xylene	0.74	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
o-Xylene	0.41	0.15		ppbV	1	9/7/2011 9:13:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	2.0	0.15		ppbV	1	9/7/2011 9:13:00 PM
Toluene	0.58	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Trichloroethene	43	27		ppbV	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	4.0	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:13:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/7/2011 9:13:00 PM
Acetone	30	7.2		ug/m3	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:13:00 PM
Benzene	4.1	0.49		ug/m3	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:13:00 PM
Chloroform	4.3	0.74		ug/m3	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Freon 11	130	8.6		ug/m3	10	9/8/2011 8:15:00 AM
Freon 113	1.9	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	16	7.5		ug/m3	10	9/8/2011 8:15:00 AM
Heptane	12	6.2		ug/m3	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:13:00 PM
m&p-Xylene	3.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	4.4	0.90		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:13:00 PM
o-Xylene	1.8	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:13:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	6.0	0.45		ug/m3	1	9/7/2011 9:13:00 PM
Toluene	2.2	0.57		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Trichloroethene	240	150		ug/m3	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Acetone	1.8	0.30		ppbV	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroform	0.80	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.12	0.15	J	ppbV	1	9/7/2011 9:46:00 PM
Freon 11	8.6	1.5		ppbV	10	9/8/2011 9:22:00 AM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 12	1.2	0.15		ppbV	1	9/7/2011 9:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	9/7/2011 9:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	2.7	1.5		ppbV	10	9/8/2011 9:22:00 AM
Toluene	0.12	0.15	J	ppbV	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Trichloroethene	45	27		ppbV	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	9/7/2011 9:46:00 PM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	8.8	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Acetone	4.4	0.72		ug/m3	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:46:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:46:00 PM
Chloroform	4.0	0.74		ug/m3	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
Ethylbenzene	0.53	0.66	J	ug/m3	1	9/7/2011 9:46:00 PM
Freon 11	49	8.6		ug/m3	10	9/8/2011 9:22:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	6.0	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:46:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	9/7/2011 9:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	8.1	4.5		ug/m3	10	9/8/2011 9:22:00 AM
Toluene	0.46	0.57	J	ug/m3	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Trichloroethene	250	150		ug/m3	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	0.26	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	6.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Acetone	2.1	0.30		ppbV	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzene	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroform	1.6	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Cyclohexane	7.9	1.5		ppbV	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.66	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 10:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 12	0.54	0.15		ppbV	1	9/7/2011 10:18:00 PM
Heptane	7.3	1.5		ppbV	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Hexane	3.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
o-Xylene	0.78	0.15		ppbV	1	9/7/2011 10:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	7.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Toluene	0.88	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Trichloroethene	94	14		ppbV	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.4	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	1.5	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	31	7.1		ug/m3	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.75	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Acetone	5.1	0.72		ug/m3	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:18:00 PM
Benzene	0.81	0.49		ug/m3	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:18:00 PM
Chloroform	8.1	0.74		ug/m3	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	4.5	0.60		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Cyclohexane	28	5.2		ug/m3	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
Ethylbenzene	2.9	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 10:18:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 10:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Heptane	30	6.2		ug/m3	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Hexane	13	5.4		ug/m3	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:18:00 PM
m&p-Xylene	6.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:18:00 PM
o-Xylene	3.4	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	52	10		ug/m3	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 10:18:00 PM
Toluene	3.4	0.57		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Trichloroethene	520	76		ug/m3	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Acetone	3.5	3.0		ppbV	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzene	0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	1.3	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Cyclohexane	4.9	1.5		ppbV	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Uuits	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 10:50:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.17	0.30	J	ppbV	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	9/8/2011 2:16:00 PM
Toluene	0.21	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Trichloroethene	100	14		ppbV	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Acetone	8.5	7.2		ug/m3	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:50:00 PM
Benzene	0.49	0.49		ug/m3	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:50:00 PM
Chloroform	8.9	0.74		ug/m3	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	5.1	0.60		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Cyclohexane	17	5.2		ug/m3	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.75	1.3	J	ug/m3	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	9/8/2011 2:16:00 PM
Toluene	0.80	0.57		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Trichloroethene	570	76		ug/m3	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Acetone	2.0	0.30		ppbV	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 11	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 12	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Toluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Surr: Bromofluorobenzene	111	70-130		%REC	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Acetone	4.9	0.72		ug/m3	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 1:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 1:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	9/7/2011 1:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 1:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 1:24:00 PM
Toluene	< 0.57	0.57		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 1:24:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 15-Sep-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-090711	114							
ALCS1UG-090811	102							
ALCS1UGD-090711	123							
AMB1UG-090711	97.0							
AMB1UG-090811	85.0							
C1108077-001A	128							
C1108077-002A	117							
C1108077-003A	115							
C1108077-004A	123							
C1108077-005A	125							
C1108077-006A	125							
C1108077-007A	120							
C1108077-008A	118							
C1108077-009A	120							
C1108077-010A	116							
C1108077-011A	115							
C1108077-012A	125							
C1108077-013A	125							
C1108077-014A	109							
C1108077-015A	118							
C1108077-016A	120							
C1108077-017A	111							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\HPCHEM\1\DATA\AI090702.D
Tune Time : 7 Sep 2011 10:45 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI090702.D

			(BFB)	(IS1)	(IS2)	(IS3)
				14074	49747	40301
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI090703.D	ALCS1UG-090711		114	13257	46294	39817
AI090704.D	AMB1UG-090711		97	12207	37192	31109
AI090705.D	C1108077-017A		111	12227	39654	33128
AI090707.D	C1108077-001A		128	12360	46418	40249
AI090708.D	C1108077-002A		117	13012	47410	41632
AI090709.D	C1108077-003A		115	13978	56781	49167
AI090710.D	C1108077-004A		123	12848	47990	40100
AI090711.D	C1108077-005A		125	13846	50477	45663
AI090712.D	C1108077-006A		125	13685	49698	41644
AI090713.D	C1108077-007A		120	13090	49671	39672
AI090714.D	C1108077-008A		118	13511	48891	44082
AI090715.D	C1108077-009A		120	13616	49510	44476
AI090716.D	C1108077-010A		116	13639	51142	45956
AI090717.D	C1108077-011A		115	13406	48625	43182
AI090718.D	C1108077-012A		125	13348	50177	44571
AI090719.D	C1108077-013A		125	14716	55597	53323
AI090720.D	C1108077-014A		109	13510	48843	41809
AI090721.D	C1108077-015A		118	14062	55299	55595
AI090722.D	C1108077-016A		120	13789	52538	45895
AI090723.D	ALCS1UGD-090711		123	14288	50244	45507
AI090724.D	C1108077-001A	10x	118	13367	47690	41054
AI090726.D	C1108077-002A	10x	115	13219	44475	39557
AI090727.D	C1108077-003A	10x	112	13086	48250	43357
AI090728.D	C1108077-004A	5x	111	13213	46052	40033
AI090729.D	C1108077-005A	10x	123	12638	43692	39445
AI090730.D	C1108077-006A	10x	123	13049	43628	37677
AI090732.D	C1108077-007A	10x	112	12309	41307	37629
AI090733.D	C1108077-008A	10x	114	12775	43525	38922
AI090734.D	C1108077-008A	40x	109	12915	41189	36502
AI090735.D	C1108077-009A	10x	113	12911	42798	39053
AI090736.D	C1108077-010A	10x	114	12653	41223	37449
AI090737.D	C1108077-011A	10x	103	12765	40892	36738

AI090738.D C1108077-012A 10x	112	12362	38108	32515
AI090739.D C1108077-013A 10x	100	12066	40703	33530
AI090740.D C1108077-013A 180x	98	12243	36945	30002
AI090741.D C1108077-014A 10x	103	12198	40389	33164
AI090742.D C1108077-014A 180x	97	12781	39895	29526

t - fails 24hr time check * - fails criteria

Created: Thu Sep 15 13:00:58 2011 MSD #1/

Tune File : C:\HPCHEM\1\DATA\AI090804.D
Tune Time : 8 Sep 2011 12:10 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AI090804.D

			(BFB)	(IS1)	(IS2)	(IS3)
				13282	41038	37015
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI090805.D	ALCS1UG-090811		102	13237	42933	38558
AI090806.D	AMB1UG-090811		85	12608	41206	34455
AI090807.D	C1108077-015A	10X	106	15393	54594	52367*
AI090808.D	C1108077-016A	10X	92	13434	47144	39621
AI090809.D	C1108077-015A	90X	95	13124	42895	38172
AI090810.D	C1108077-016A	90X	82	12244	39667	33462
AI090811.D	C1108077-001A	90X	80	11716	36734	31736
AI090812.D	C1108077-006A	90X	79	12023	39152	36184
AI090817.D	ALCS1UGD-090811		95	13803	44278	37864

t - fails 24hr time check * - fails criteria

Created: Thu Sep 15 13:14:11 2011 MSD #1/

Date: *15-Sep-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-090711** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4926**
Client ID: **ZZZZZ** Batch ID: **R4926** TestNo: **TO-15** Analysis Date: **9/7/2011** SeqNo: **58452**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-090811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Date: *15-Sep-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090711 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	0.7600	0.15	1	0	76.0	70	130				
1,2,4-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,2-Dibromoethane	0.9800	0.15	1	0	98.0	70	130				
1,2-Dichlorobenzene	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,2-Dichloropropane	1.050	0.15	1	0	105	70	130				
1,3,5-Trimethylbenzene	0.9700	0.15	1	0	97.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dioxane	0.6500	0.30	1	0	65.0	70	130				S
2,2,4-trimethylpentane	1.060	0.15	1	0	106	70	130				
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130				
Acetone	1.060	0.30	1	0	106	70	130				
Allyl chloride	1.070	0.15	1	0	107	70	130				
Benzene	1.030	0.15	1	0	103	70	130				
Benzyl chloride	0.7900	0.15	1	0	79.0	70	130				
Bromodichloromethane	1.090	0.15	1	0	109	70	130				
Bromoform	0.8600	0.15	1	0	86.0	70	130				
Bromomethane	1.120	0.15	1	0	112	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID: ALCS1UG-090711 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.110	0.15	1	0	111	70	130				
Carbon tetrachloride	1.120	0.15	1	0	112	70	130				
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130				
Chloroethane	1.070	0.15	1	0	107	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.180	0.15	1	0	118	70	130				
cis-1,2-Dichloroethene	1.040	0.15	1	0	104	70	130				
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130				
Cyclohexane	1.070	0.15	1	0	107	70	130				
Dibromochloromethane	0.9900	0.15	1	0	99.0	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.100	0.15	1	0	110	70	130				
Freon 113	1.110	0.15	1	0	111	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.000	0.15	1	0	100	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	0.8000	0.15	1	0	80.0	70	130				
Hexane	0.9400	0.15	1	0	94.0	70	130				
Isopropyl alcohol	1.270	0.15	1	0	127	70	130				
m&p-Xylene	2.040	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.7300	0.30	1	0	73.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.7400	0.30	1	0	74.0	70	130				
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	70	130				
Methylene chloride	1.270	0.15	1	0	127	70	130				
o-Xylene	0.9800	0.15	1	0	98.0	70	130				
Propylene	0.9200	0.15	1	0	92.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran	0.9400	0.15	1	0	94.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.140	0.15	1	0	114	70	130				

Sample ID ALCS1UG-090811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1,2,2-Tetrachloroethane	0.9800	0.15	1	0	98.0	70	130				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethane	0.8700	0.15	1	0	87.0	70	130				
1,1-Dichloroethene	0.9600	0.15	1	0	96.0	70	130				
1,2,4-Trichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2,4-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,2-Dichloropropane	0.9600	0.15	1	0	96.0	70	130				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,3-butadiene	1.030	0.15	1	0	103	70	130				
1,3-Dichlorobenzene	0.9300	0.15	1	0	93.0	70	130				
1,4-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130				
1,4-Dioxane	0.7500	0.30	1	0	75.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.230	0.30	1	0	123	70	130				
Allyl chloride	1.040	0.15	1	0	104	70	130				
Benzene	0.9300	0.15	1	0	93.0	70	130				
Benzyl chloride	0.7900	0.15	1	0	79.0	70	130				
Bromodichloromethane	1.020	0.15	1	0	102	70	130				
Bromoform	0.8300	0.15	1	0	83.0	70	130				
Bromomethane	1.020	0.15	1	0	102	70	130				
Carbon disulfide	0.9300	0.15	1	0	93.0	70	130				
Carbon tetrachloride	1.060	0.15	1	0	106	70	130				
Chlorobenzene	0.8800	0.15	1	0	88.0	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	0.8700	0.15	1	0	87.0	70	130				
Chloromethane	1.000	0.15	1	0	100	70	130				
cis-1,2-Dichloroethene	0.9000	0.15	1	0	90.0	70	130				
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130				
Cyclohexane	0.9300	0.15	1	0	93.0	70	130				
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130				
Ethyl acetate	0.7600	0.25	1	0	76.0	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	0.9900	0.15	1	0	99.0	70	130				
Freon 113	0.9900	0.15	1	0	99.0	70	130				
Freon 114	0.9500	0.15	1	0	95.0	70	130				
Freon 12	0.8800	0.15	1	0	88.0	70	130				
Heptane	0.9800	0.15	1	0	98.0	70	130				
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130				
Hexane	0.8100	0.15	1	0	81.0	70	130				
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Ethyl Ketone	0.7700	0.30	1	0	77.0	70	130				
Methyl Isobutyl Ketone	0.8000	0.30	1	0	80.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8100	0.15	1	0	81.0	70	130				
Methylene chloride	1.270	0.15	1	0	127	70	130				
o-Xylene	0.9200	0.15	1	0	92.0	70	130				
Propylene	0.8400	0.15	1	0	84.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	0.8700	0.15	1	0	87.0	70	130				
Tetrahydrofuran	0.7200	0.15	1	0	72.0	70	130				
Toluene	0.9000	0.15	1	0	90.0	70	130				
trans-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	70	130				
trans-1,3-Dichloropropene	1.050	0.15	1	0	105	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	0.8800	0.15	1	0	88.0	70	130				
Vinyl Bromide	0.9400	0.15	1	0	94.0	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *15-Sep-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	70	130	0.93	10.2	30	
1,1,2-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30	
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130	1.02	0.985	30	
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2,4-Trichlorobenzene	0.6500	0.15	1	0	65.0	70	130	0.76	15.6	30	S
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130	0.89	8.19	30	
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130	0.98	7.41	30	
1,2-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130	0.88	4.65	30	
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130	1.07	4.78	30	
1,2-Dichloropropane	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
1,3,5-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.97	28.2	30	
1,3-butadiene	1.150	0.15	1	0	115	70	130	1.12	2.64	30	
1,3-Dichlorobenzene	0.7600	0.15	1	0	76.0	70	130	0.89	15.8	30	
1,4-Dichlorobenzene	0.7600	0.15	1	0	76.0	70	130	0.91	18.0	30	
1,4-Dioxane	0.5100	0.30	1	0	51.0	70	130	0.65	24.1	30	S
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130	1.06	4.83	30	
4-ethyltoluene	0.7200	0.15	1	0	72.0	70	130	0.91	23.3	30	
Acetone	1.150	0.30	1	0	115	70	130	1.06	8.14	30	
Allyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	
Benzene	1.000	0.15	1	0	100	70	130	1.03	2.96	30	
Benzyl chloride	0.9300	0.15	1	0	93.0	70	130	0.79	16.3	30	
Bromodichloromethane	1.010	0.15	1	0	101	70	130	1.09	7.62	30	
Bromoform	0.7800	0.15	1	0	78.0	70	130	0.86	9.76	30	
Bromomethane	1.030	0.15	1	0	103	70	130	1.12	8.37	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.020	0.15	1	0	102	70	130	1.11	8.45	30	
Carbon tetrachloride	1.090	0.15	1	0	109	70	130	1.12	2.71	30	
Chlorobenzene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Chloroethane	1.170	0.15	1	0	117	70	130	1.07	8.93	30	
Chloroform	0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
Chloromethane	1.170	0.15	1	0	117	70	130	1.18	0.851	30	
cis-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Cyclohexane	1.030	0.15	1	0	103	70	130	1.07	3.81	30	
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130	0.99	9.52	30	
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130	0.97	23.0	30	
Ethylbenzene	0.8700	0.15	1	0	87.0	70	130	0.98	11.9	30	
Freon 11	1.100	0.15	1	0	110	70	130	1.1	0	30	
Freon 113	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
Freon 114	1.070	0.15	1	0	107	70	130	1.09	1.85	30	
Freon 12	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Heptane	1.080	0.15	1	0	108	70	130	1.1	1.83	30	
Hexachloro-1,3-butadiene	0.5300	0.15	1	0	53.0	70	130	0.8	40.6	30	SR
Hexane	0.8700	0.15	1	0	87.0	70	130	0.94	7.73	30	
Isopropyl alcohol	1.150	0.15	1	0	115	70	130	1.27	9.92	30	
m&p-Xylene	1.790	0.30	2	0	89.5	70	130	2.04	13.1	30	
Methyl Butyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.73	29.9	30	S
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130	0.9	6.90	30	
Methyl Isobutyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.74	23.8	30	
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130	0.99	12.9	30	
Methylene chloride	1.210	0.15	1	0	121	70	130	1.27	4.84	30	
o-Xylene	1.010	0.15	1	0	101	70	130	0.98	3.02	30	
Propylene	1.030	0.15	1	0	103	70	130	0.92	11.3	30	
Styrene	0.8100	0.15	1	0	81.0	70	130	0.93	13.8	30	
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130	0.97	13.2	30	
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130	0.94	4.35	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9400	0.15	1	0	94.0	70	130	1	6.19	30	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Trichloroethene	1.090	0.15	1	0	109	70	130	1.01	7.62	30	
Vinyl acetate	0.8600	0.15	1	0	86.0	70	130	1	15.1	30	
Vinyl Bromide	1.080	0.15	1	0	108	70	130	1.07	0.930	30	
Vinyl chloride	1.120	0.15	1	0	112	70	130	1.14	1.77	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035
trans-1,3-dichloropropen	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	1.5	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	0.41	0.15		ppbV	1	9/7/2011 2:30:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 2:30:00 PM
Acetone	13	3.0		ppbV	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.11	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.19	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Cyclohexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 11	3.4	1.5		ppbV	10	9/7/2011 11:56:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 2:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 2:30:00 PM
Heptane	0.89	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
m&p-Xylene	2.0	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	1.6	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Methylene chloride	0.28	0.15		ppbV	1	9/7/2011 2:30:00 PM
o-Xylene	0.54	0.15		ppbV	1	9/7/2011 2:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Toluene	4.5	1.5		ppbV	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Trichloroethene	75	14		ppbV	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	8.3	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	3.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	1.9	0.71		ug/m3	1	9/7/2011 2:30:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Acetone	31	7.2		ug/m3	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 2:30:00 PM
Benzene	4.3	0.49		ug/m3	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.51	0.70	J	ug/m3	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 2:30:00 PM
Chloroform	9.1	0.74		ug/m3	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.77	0.60		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Cyclohexane	7.8	0.52		ug/m3	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
Ethylbenzene	2.8	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Freon 11	19	8.6		ug/m3	10	9/7/2011 11:56:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 2:30:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Heptane	3.7	0.62		ug/m3	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Hexane	7.9	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 2:30:00 PM
m&p-Xylene	9.0	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	4.9	0.90		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 2:30:00 PM
Methylene chloride	0.99	0.53		ug/m3	1	9/7/2011 2:30:00 PM
o-Xylene	2.4	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 2:30:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 2:30:00 PM
Toluene	17	5.7		ug/m3	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Trichloroethene	410	76		ug/m3	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090707.D Vial: 28
Acq On : 7 Sep 2011 2:30 pm Operator: RJP
Sample : C1108077-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 14:51:05 2011 Quant Results File: A826_1UG.RES

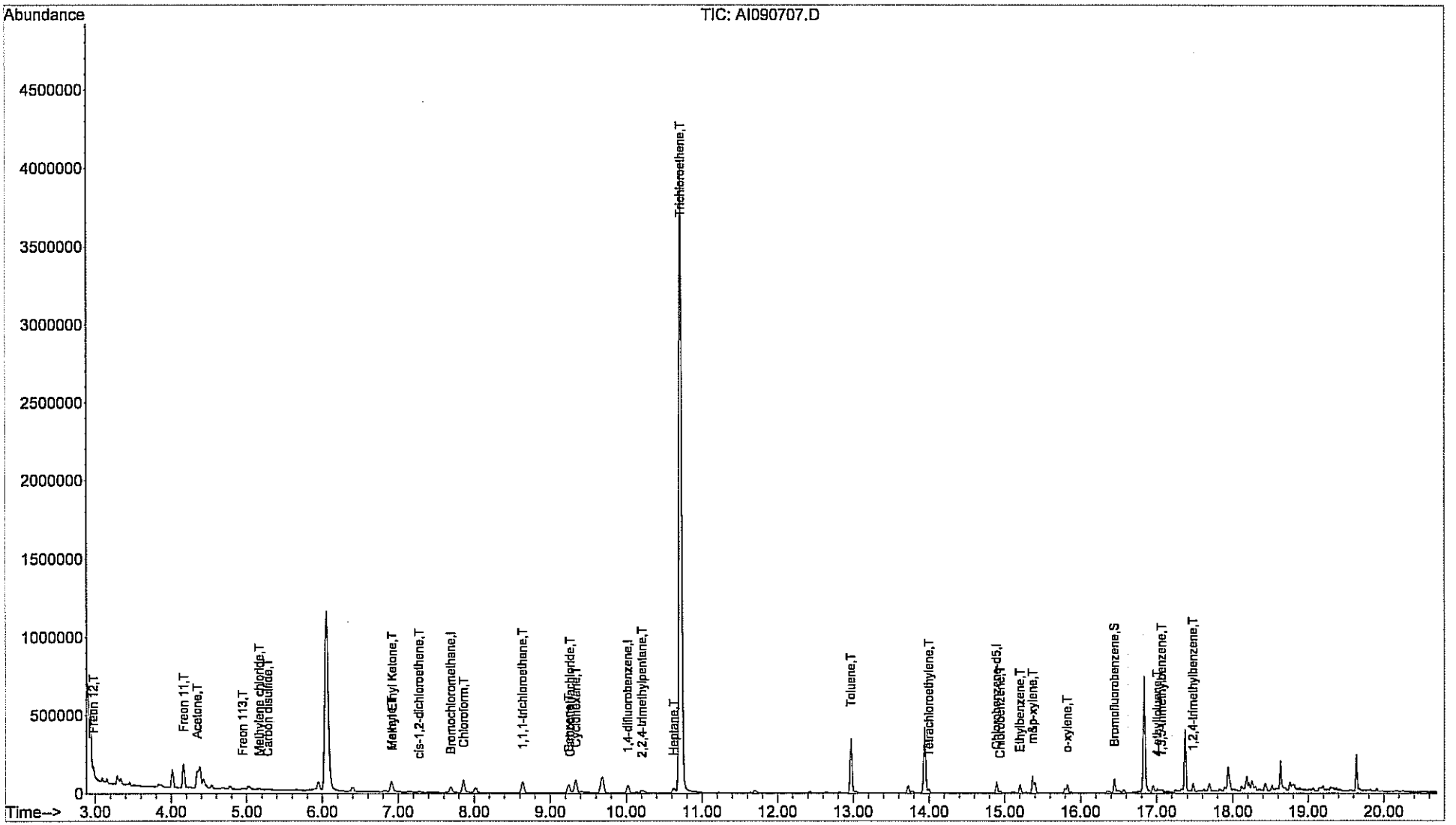
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	12360	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	46418	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	40249	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	26031	1.28	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	29310	0.55	ppb		100
13) Freon 11	4.16	101	119112	2.90	ppb		100
14) Acetone	4.34	58	49493	11.34	ppb	#	86
17) Freon 113	4.95	101	2925	0.10	ppb		94
18) Methylene chloride	5.17	84	3120	0.28	ppb		95
20) Carbon disulfide	5.29	76	7334	0.21	ppb		98
25) Methyl Ethyl Ketone	6.93	72	6665	1.65	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	3499	0.19	ppb		98
27) Hexane	6.91	57	33160	2.20	ppb		97
29) Chloroform	7.86	83	70097	1.84	ppb		98
33) 1,1,1-trichloroethane	8.64	97	51057	1.49	ppb		99
34) Cyclohexane	9.34	56	33725	2.22	ppb	#	69
35) Carbon tetrachloride	9.27	117	5097	0.11	ppb		100
36) Benzene	9.24	78	52658	1.32	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	17401	0.41	ppb		81
40) Heptane	10.62	43	12924	0.89	ppb	#	82
41) Trichloroethene	10.72	130	1702329	70.19	ppb		99
48) Toluene	12.97	92	145269	5.53	ppb		95
53) Tetrachloroethylene	13.99	164	4212	0.15	ppb		99
54) Chlorobenzene	14.94	112	4688	0.11	ppb		94
55) Ethylbenzene	15.20	91	34745	0.64	ppb		99
56) m&p-xylene	15.37	91	89856	2.04	ppb		99
59) o-xylene	15.83	91	27751	0.54	ppb		100
63) 4-ethyltoluene	17.01	105	10115	0.24	ppb		93
64) 1,3,5-trimethylbenzene	17.07	105	8217	0.18	ppb		81
65) 1,2,4-trimethylbenzene	17.48	105	23904	0.64	ppb		99

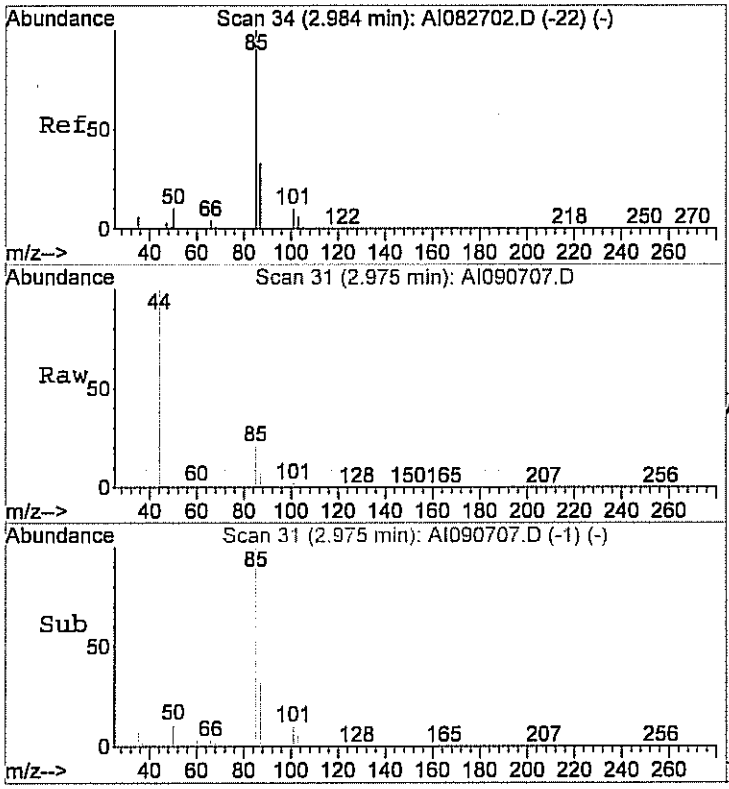
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090707.D Vial: 28
Acq On : 7 Sep 2011 2:30 pm Operator: RJP
Sample : C1108077-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:08 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



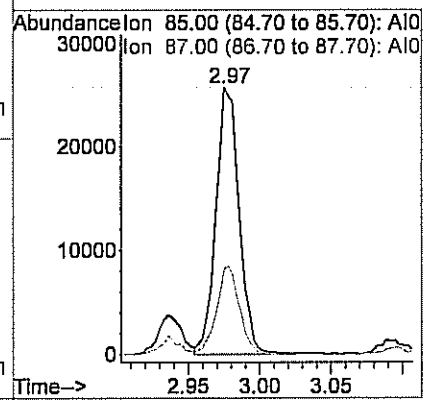
Centek Laboratories, LLC

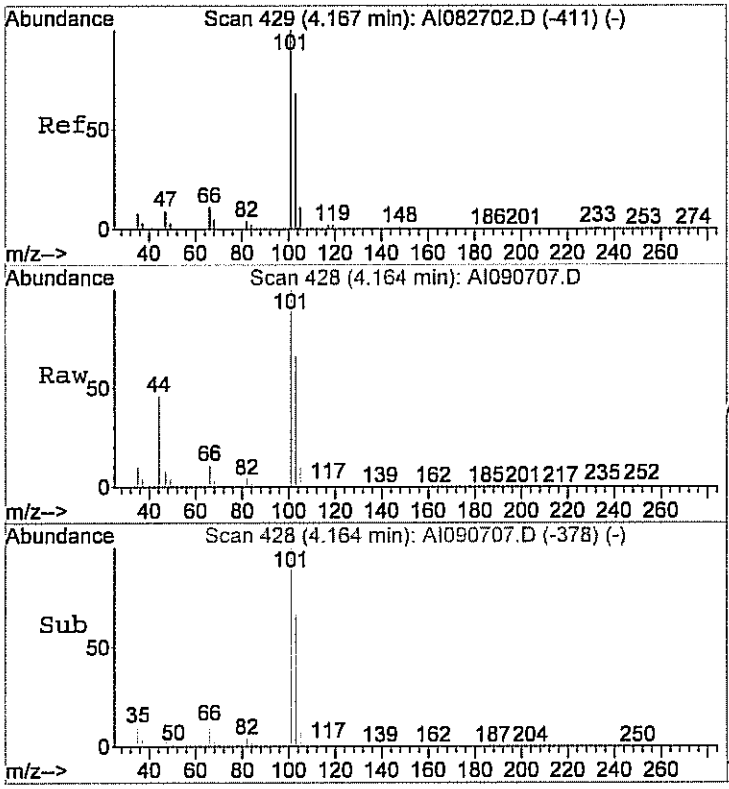


#3
Freon 12
Concen: 0.55 ppb
RT: 2.97 min Scan# 31
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 85 Resp: 29310

Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.2	52.2

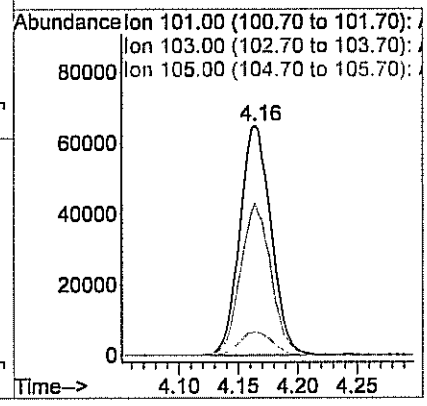


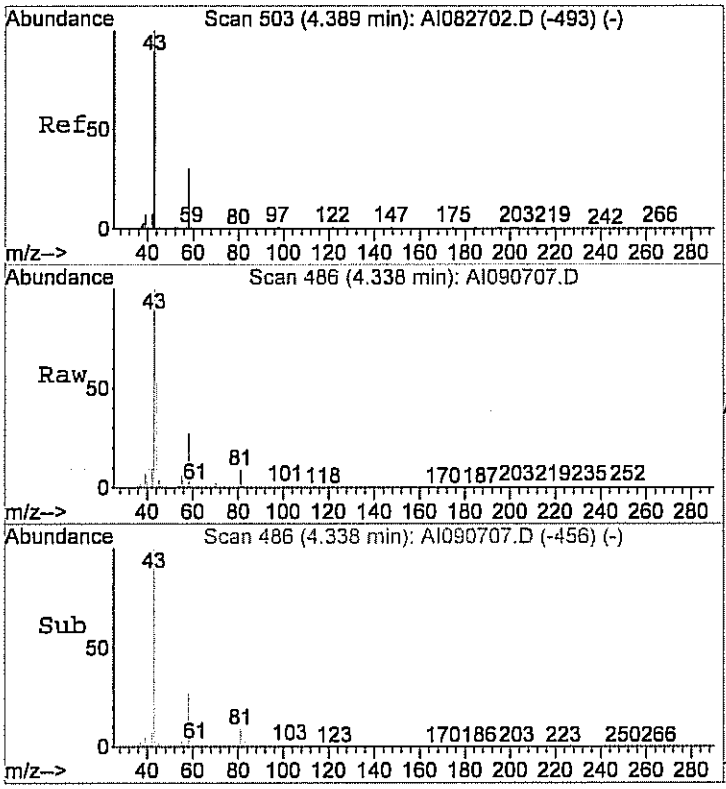


#13
Freon 11
Concen: 2.90 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:101 Resp: 119112

Ion	Ratio	Lower	Upper
101	100		
103	64.7	44.9	84.9
105	10.7	0.0	30.9

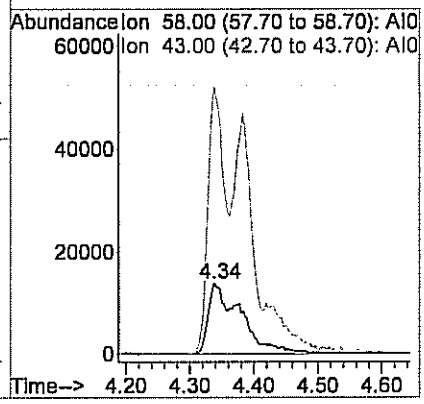


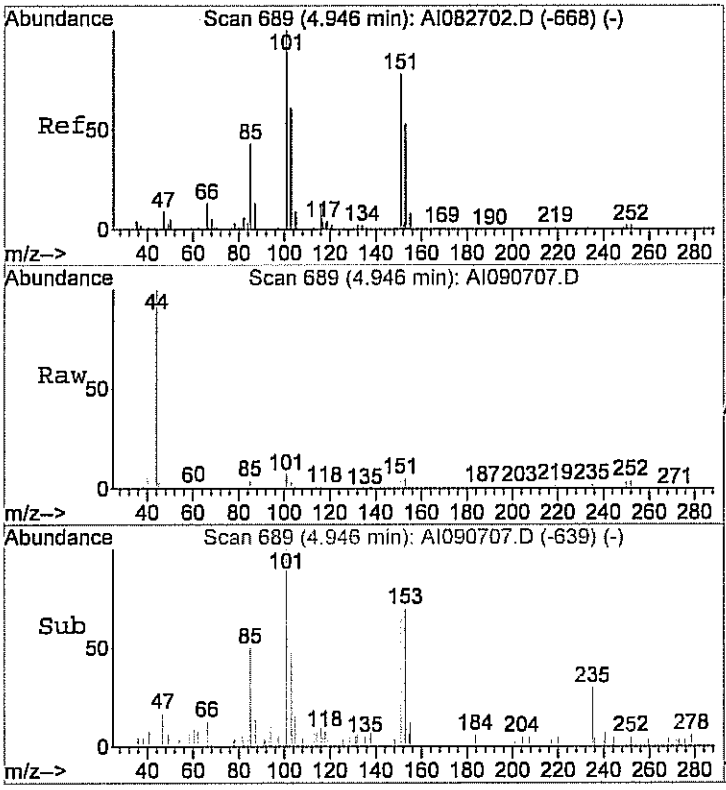


#14
Acetone
Concen: 11.34 ppb
RT: 4.34 min Scan# 486
Delta R.T. -0.06 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 58 Resp: 49493

Ion	Ratio	Lower	Upper
58	100		
43	423.1	360.8	420.8#

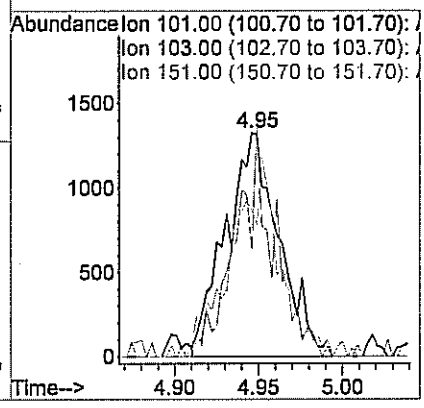


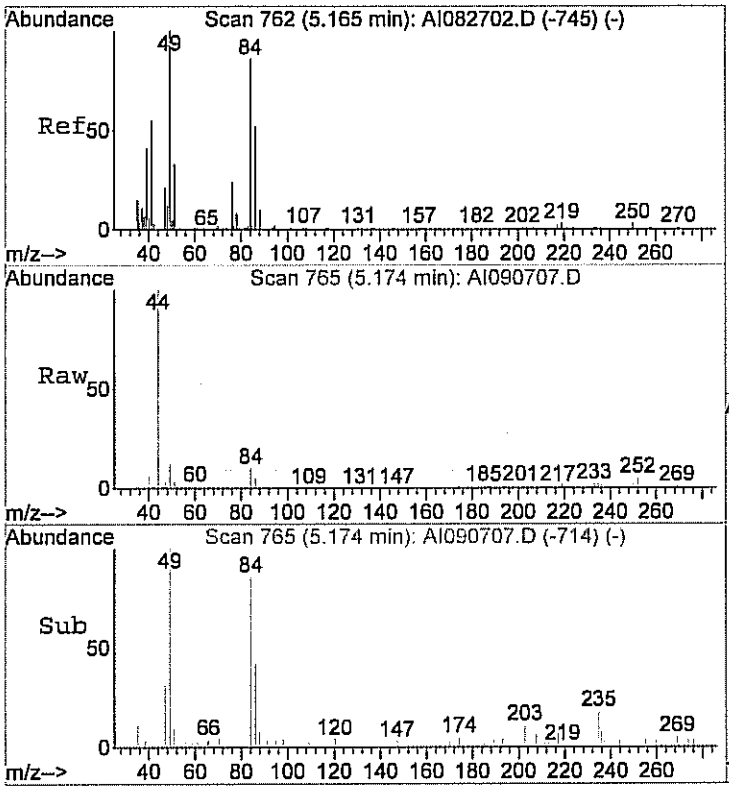


#17
Freon 113
Concen: 0.10 ppb
RT: 4.95 min Scan# 689
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:101 Resp: 2925

Ion	Ratio	Lower	Upper
101	100		
103	73.2	44.3	84.3
151	79.2	61.0	101.0

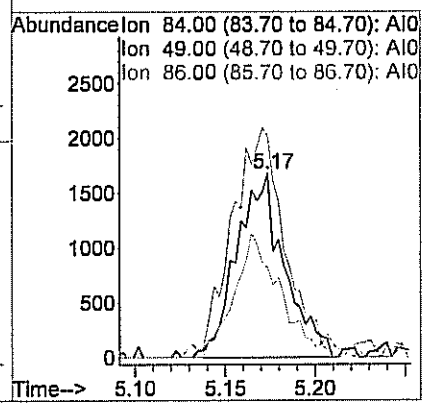


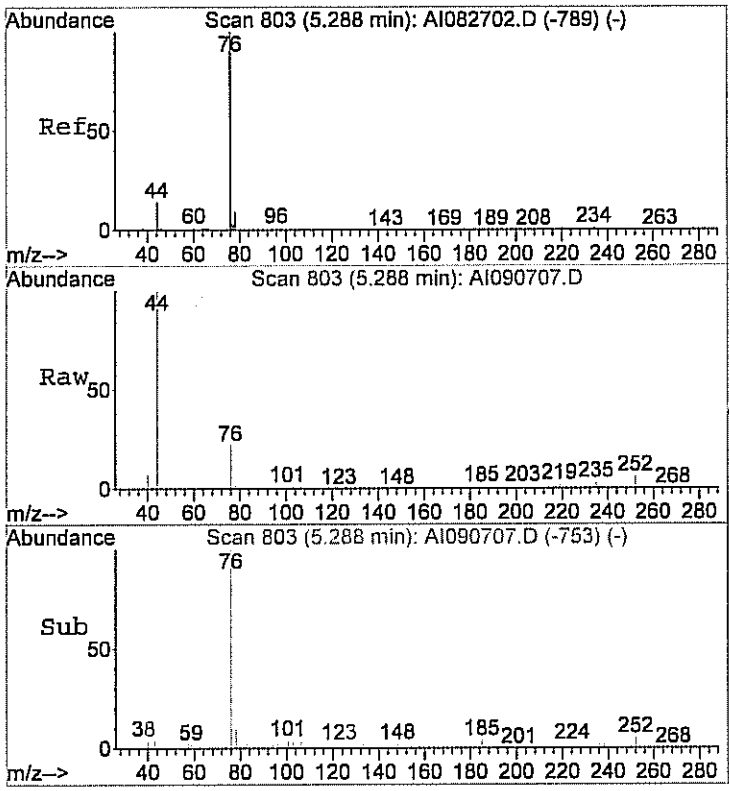


#18
Methylene chloride
Concen: 0.28 ppb
RT: 5.17 min Scan# 765
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 84 Resp: 3120

Ion	Ratio	Lower	Upper
84	100		
49	143.5	116.9	156.9
86	64.1	46.7	86.7

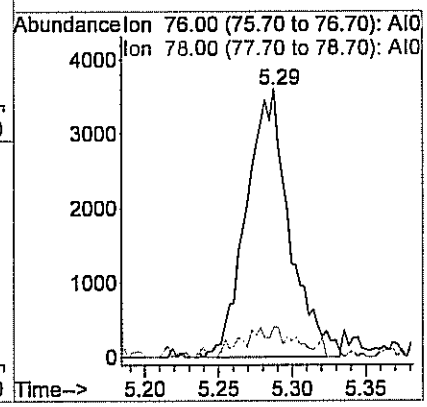


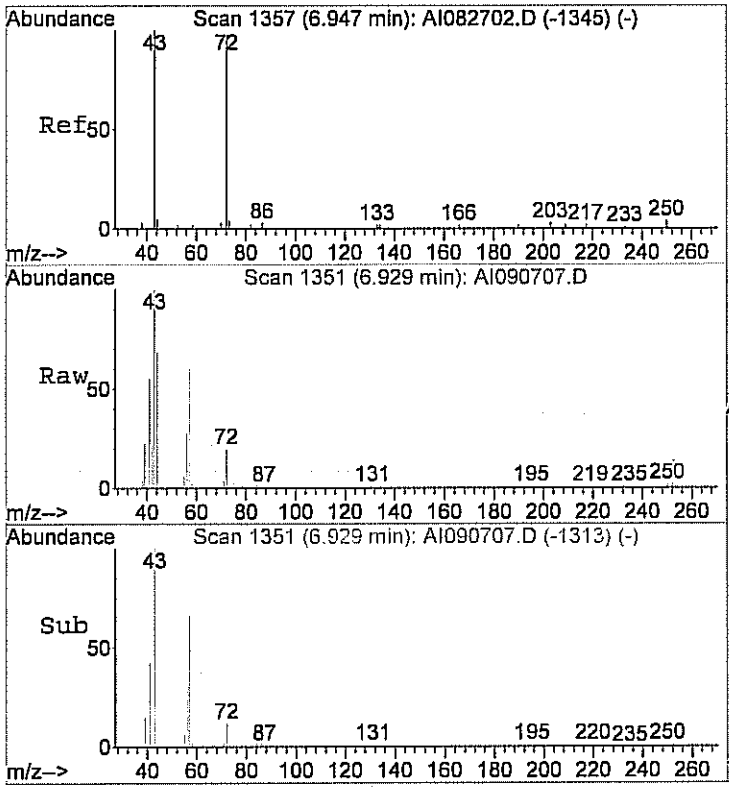


#20
Carbon disulfide
Concen: 0.21 ppb
RT: 5.29 min Scan# 803
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 76 Resp: 7334

Ion	Ratio	Lower	Upper
76	100		
78	10.4	0.0	29.6

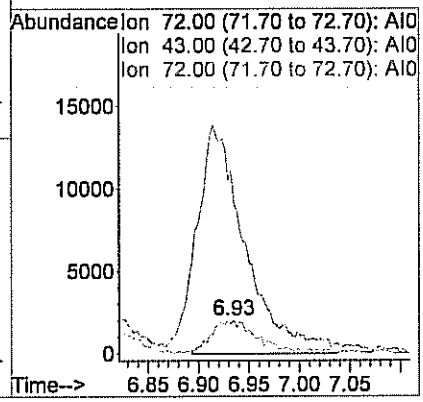


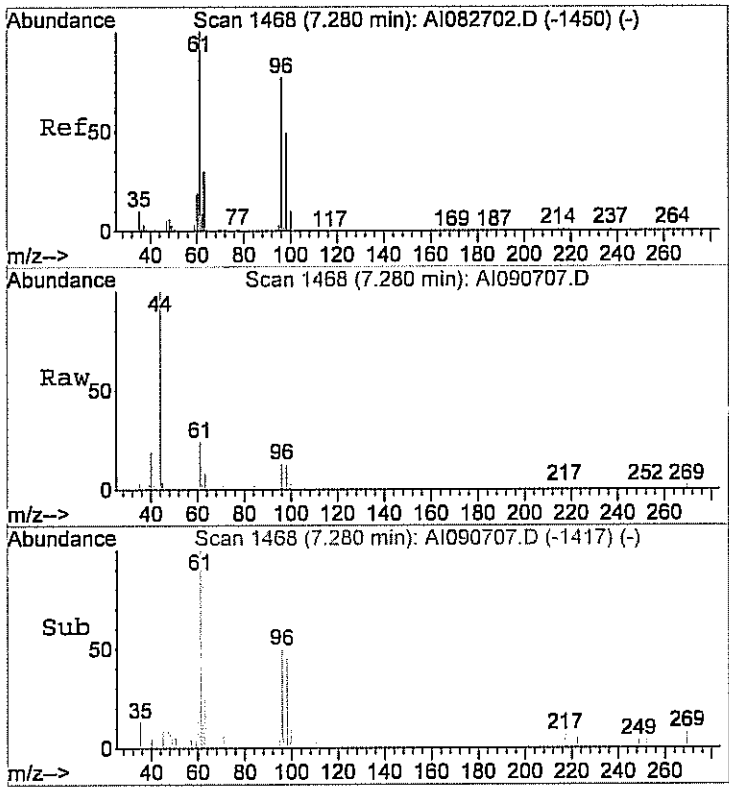


#25
Methyl Ethyl Ketone
Concen: 1.65 ppb
RT: 6.93 min Scan# 1351
Delta R.T. -0.04 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 72 Resp: 6665

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

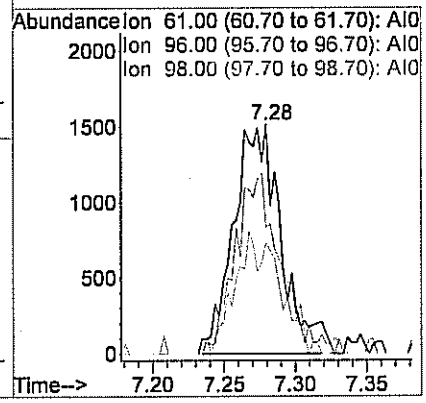


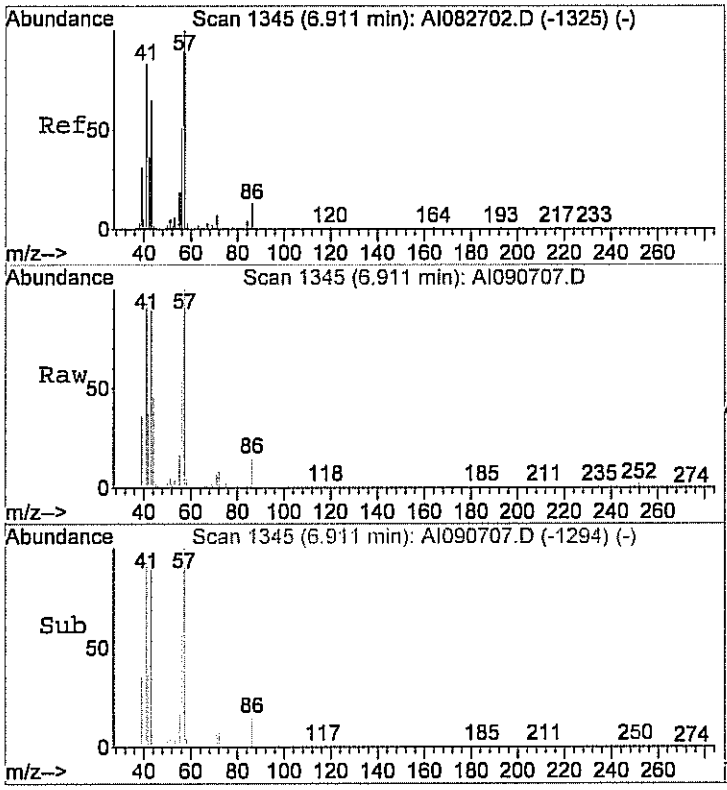


#26
cis-1,2-dichloroethene
Concen: 0.19 ppb
RT: 7.28 min Scan# 1468
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 61 Resp: 3499

Ion	Ratio	Lower	Upper
61	100		
96	74.0	56.6	96.6
98	50.3	30.4	70.4

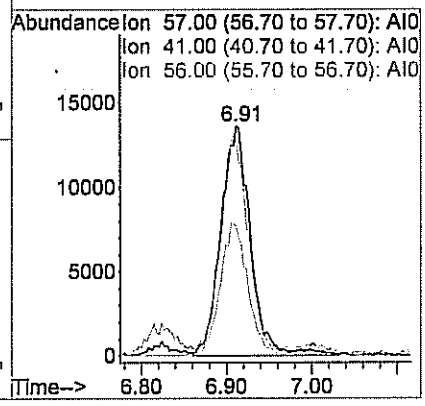


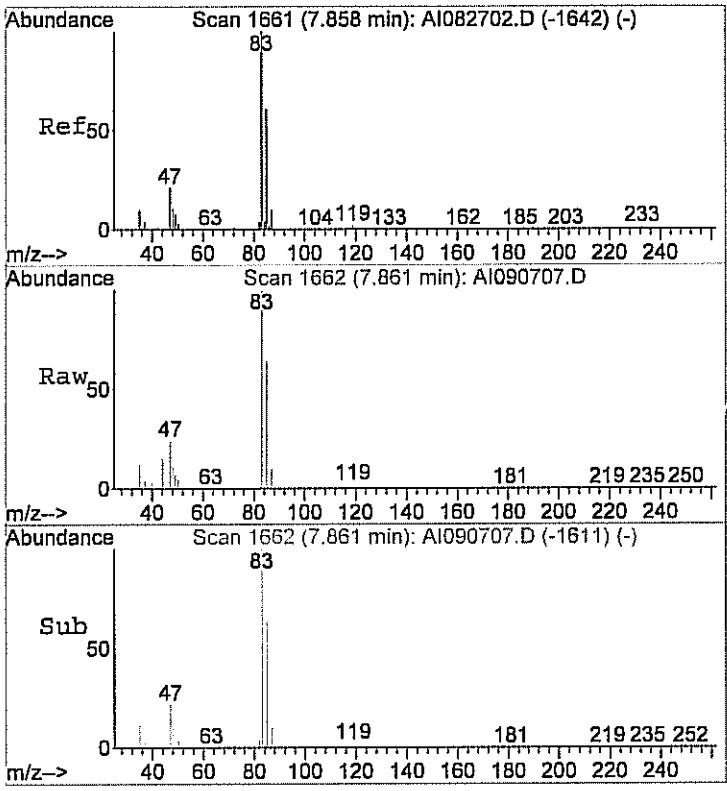


#27
Hexane
Concen: 2.20 ppb
RT: 6.91 min Scan# 1345
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 57 Resp: 33160

Ion	Ratio	Lower	Upper
57	100		
41	92.2	75.5	115.5
56	54.5	35.9	75.9

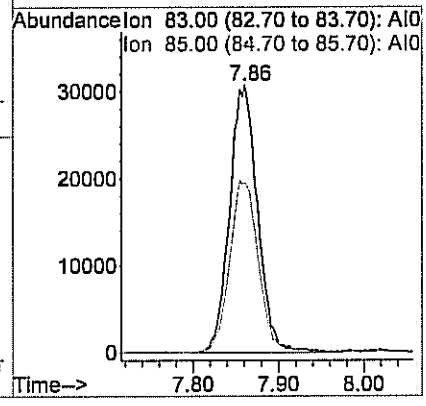


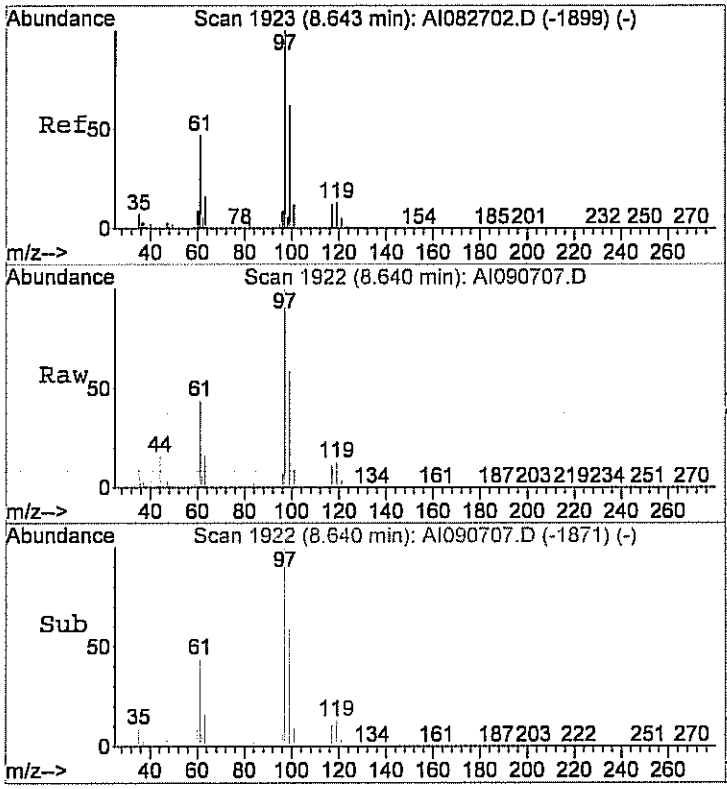


#29
Chloroform
Concen: 1.84 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 83 Resp: 70097

Ion	Ratio	Lower	Upper
83	100		
85	66.7	45.0	85.0

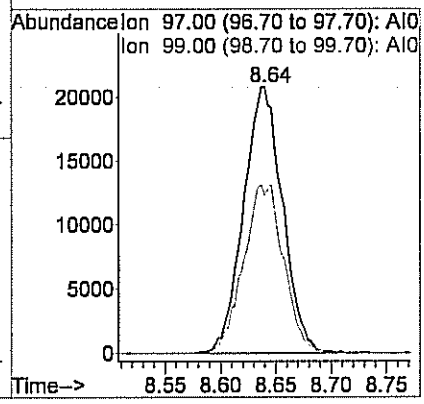


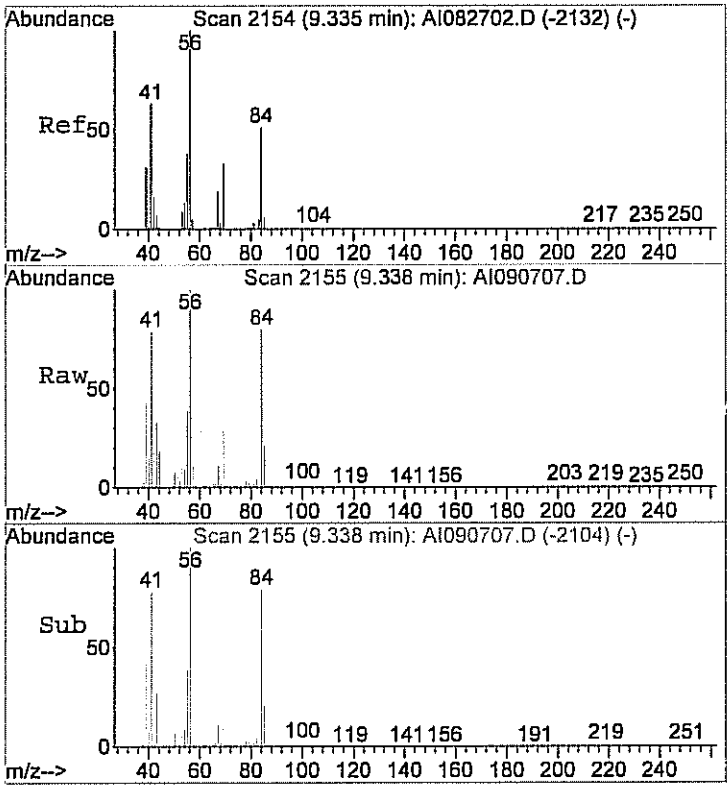


#33
1,1,1-trichloroethane
Concen: 1.49 ppb
RT: 8.64 min Scan# 1922
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 97 Resp: 51057

Ion	Ratio	Lower	Upper
97	100		
99	65.0	43.8	83.8

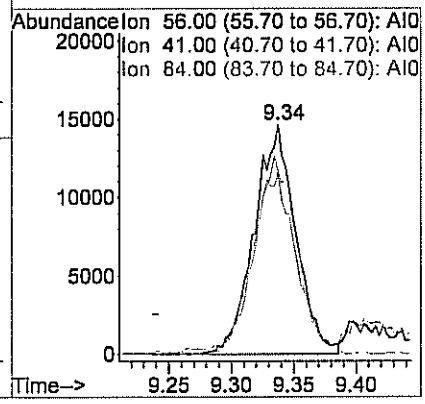


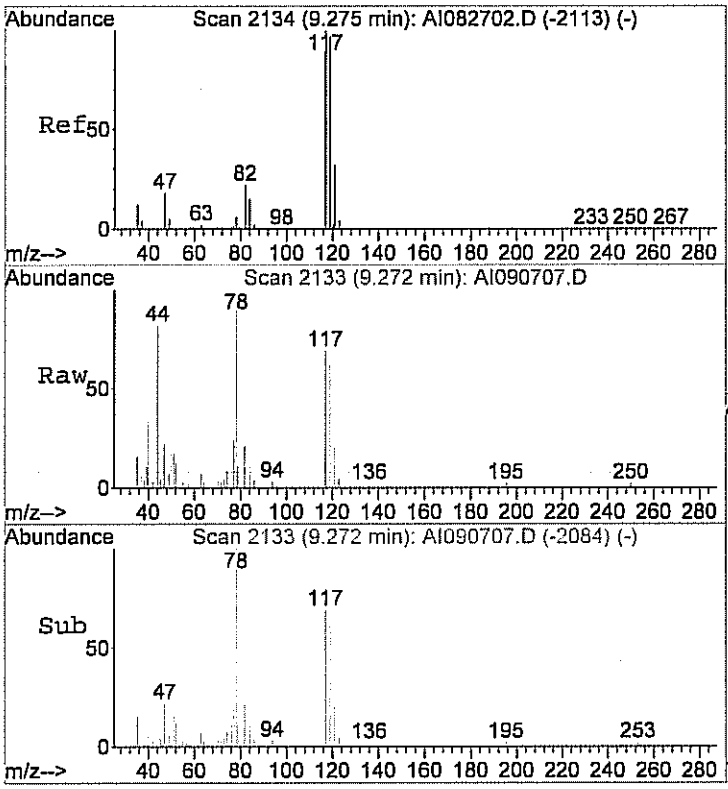


#34
Cyclohexane
Concen: 2.22 ppb
RT: 9.34 min Scan# 2155
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 56 Resp: 33725

Ion	Ratio	Lower	Upper
56	100		
41	83.2	49.1	89.1
84	88.7	114.6	154.6#

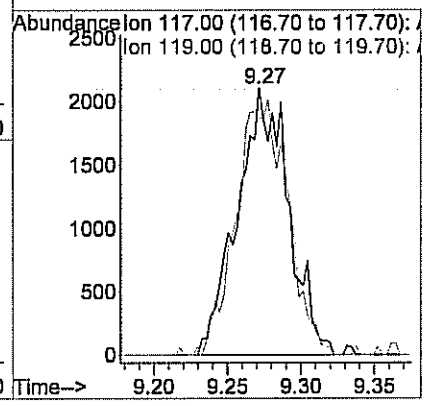


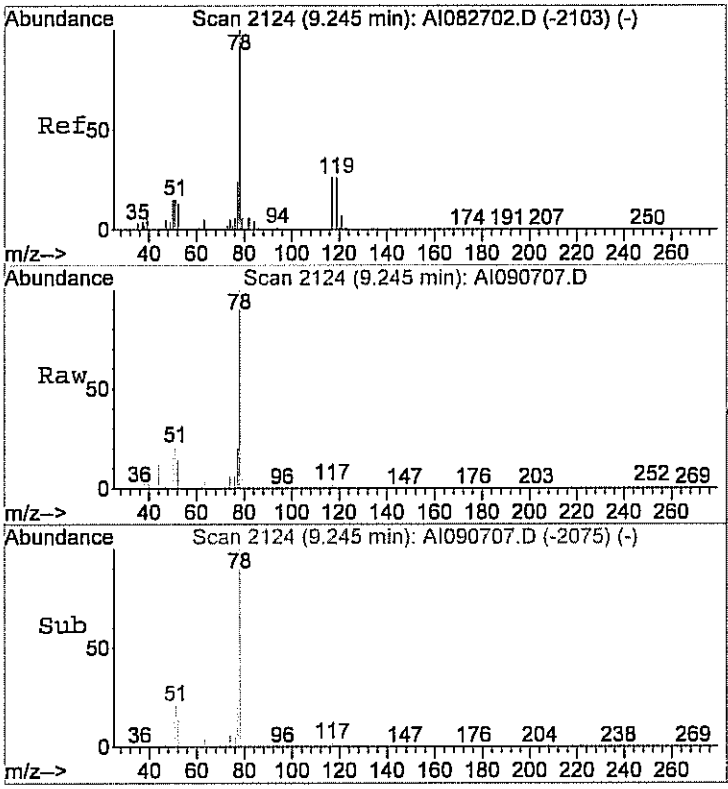


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.27 min Scan# 2133
Delta R.T. -0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:117 Resp: 5097

Ion	Ratio	Lower	Upper
117	100		
119	96.9	77.2	117.2

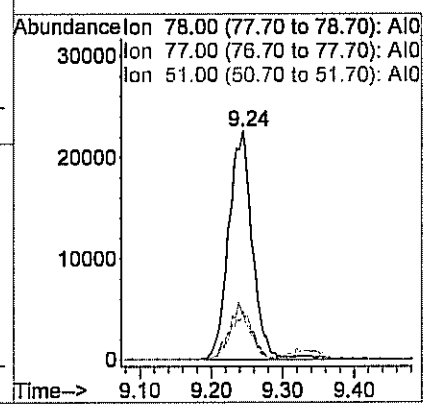


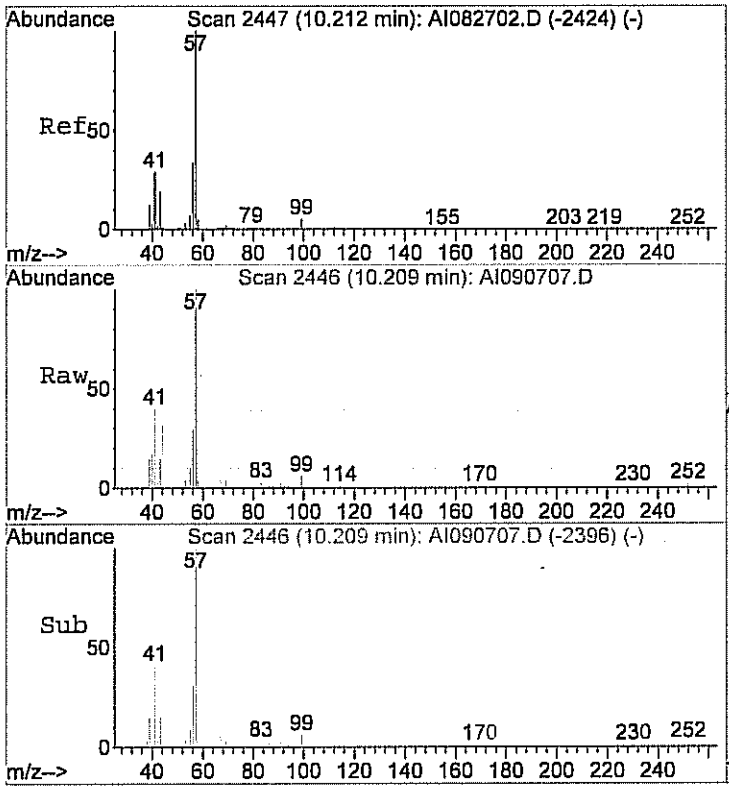


#36
Benzene
Concen: 1.32 ppb
RT: 9.24 min Scan# 2124
Delta R.T. -0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 78 Resp: 52658

Ion	Ratio	Lower	Upper
78	100		
77	23.0	5.2	45.2
51	19.0	0.0	37.6

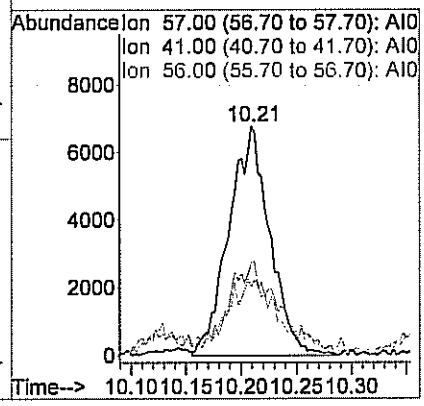


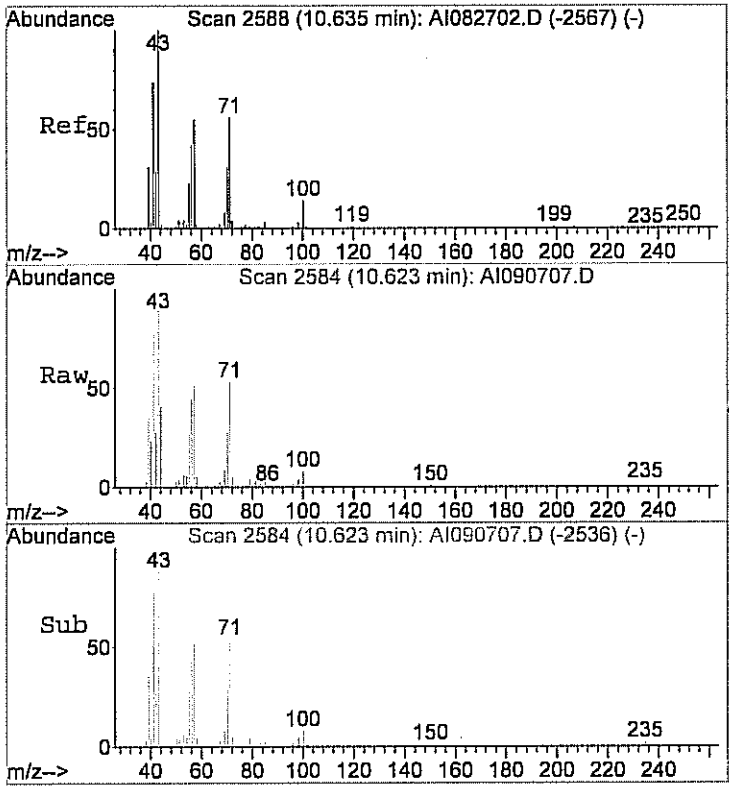


#39
2,2,4-trimethylpentane
Concen: 0.41 ppb
RT: 10.21 min Scan# 2446
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 57 Resp: 17401

Ion	Ratio	Lower	Upper
57	100		
41	51.1	17.9	57.9
56	42.2	13.7	53.7

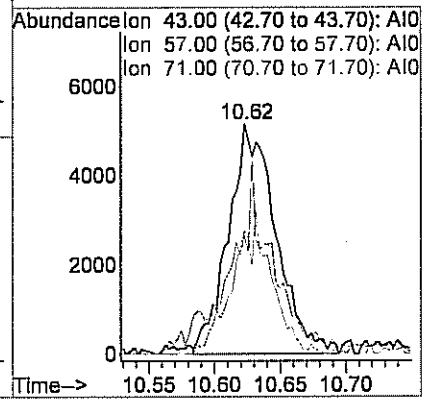


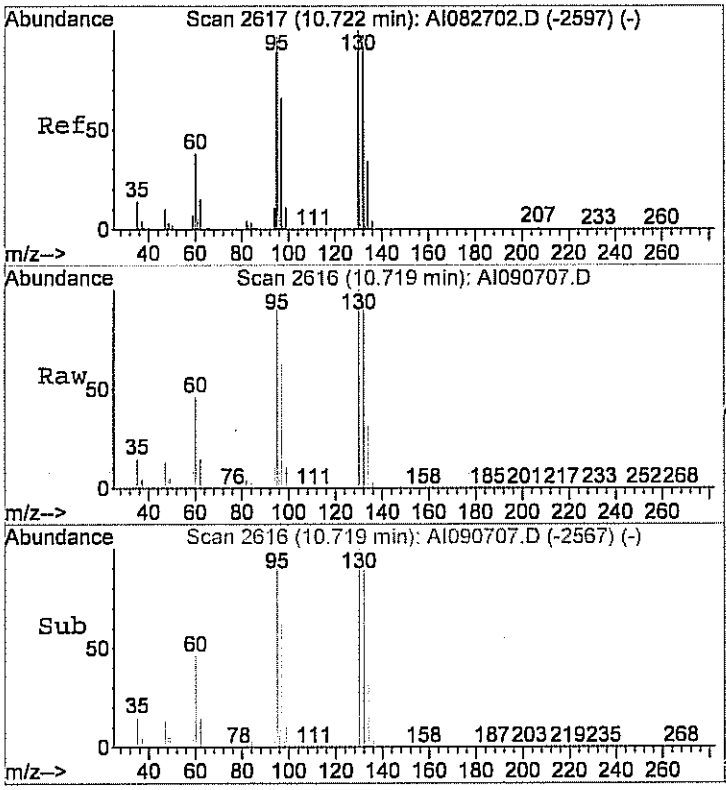


#40
Heptane
Concen: 0.89 ppb
RT: 10.62 min Scan# 2584
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 43 Resp: 12924

Ion	Ratio	Lower	Upper
43	100		
57	73.2	32.1	72.1#
71	50.5	35.5	75.5

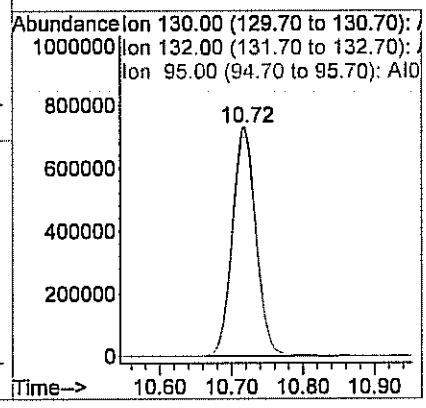


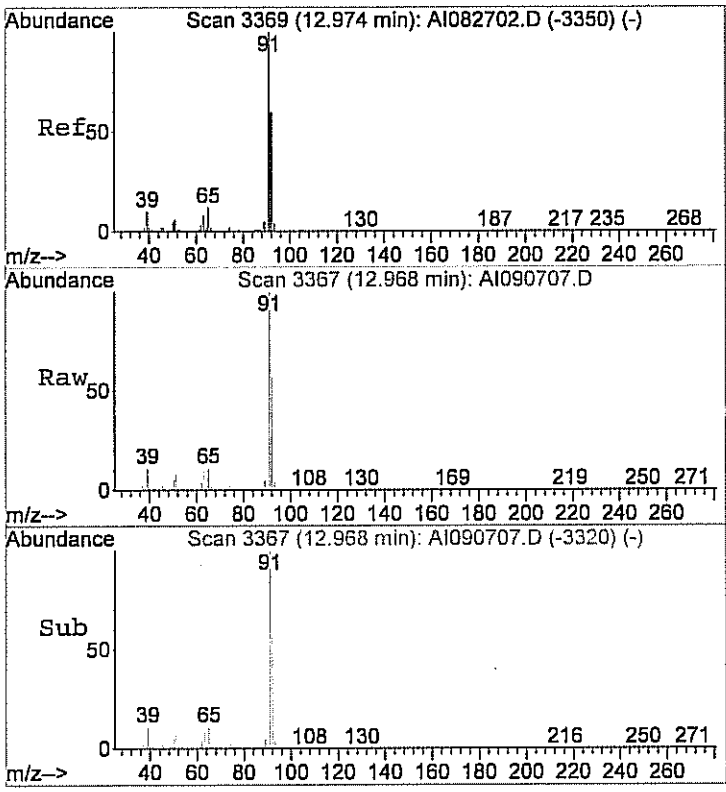


#41
Trichloroethene
Concen: 70.19 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:130 Resp: 1702329

Ion	Ratio	Lower	Upper
130	100		
132	96.6	79.0	119.0
95	96.8	76.8	116.8

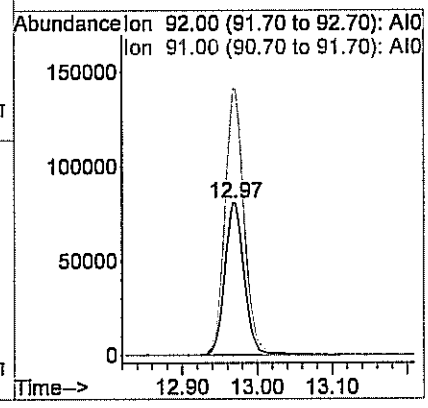


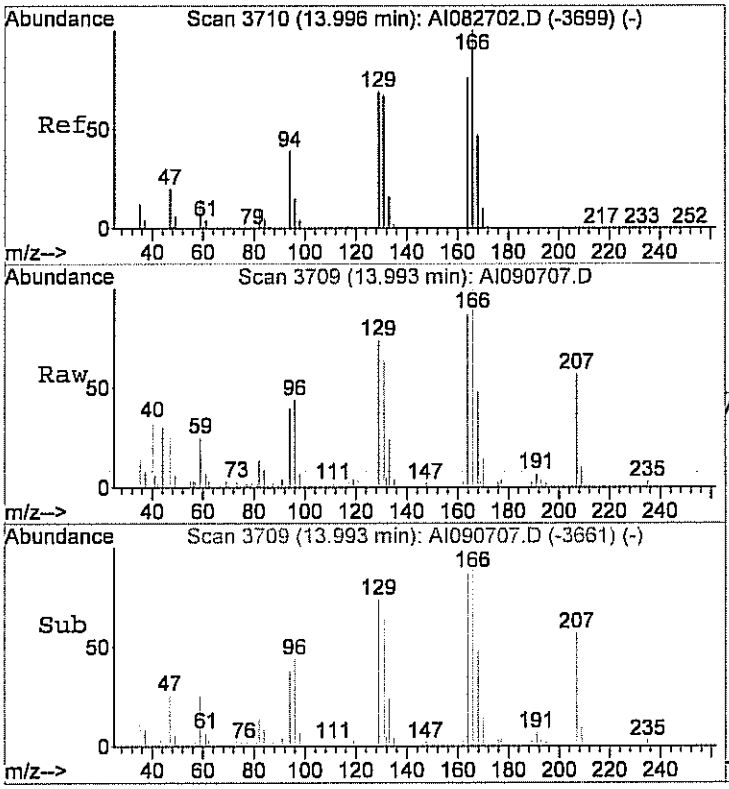


#48
Toluene
Concen: 5.53 ppb
RT: 12.97 min Scan# 3367
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 92 Resp: 145269

Ion	Ratio	Lower	Upper
92	100		
91	172.5	159.8	199.8

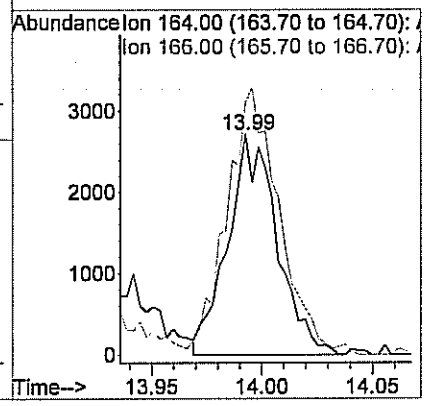


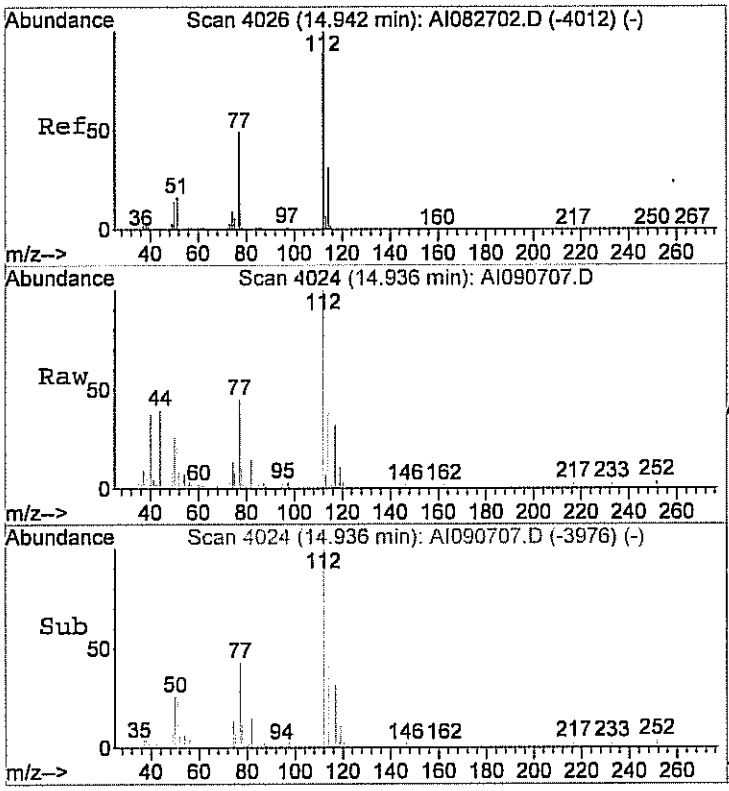


#53
Tetrachloroethylene
Concen: 0.15 ppb
RT: 13.99 min Scan# 3709
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:164 Resp: 4212

Ion	Ratio	Lower	Upper
164	100		
166	128.7	109.4	149.4

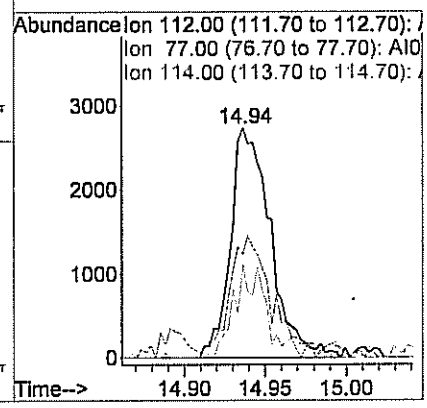


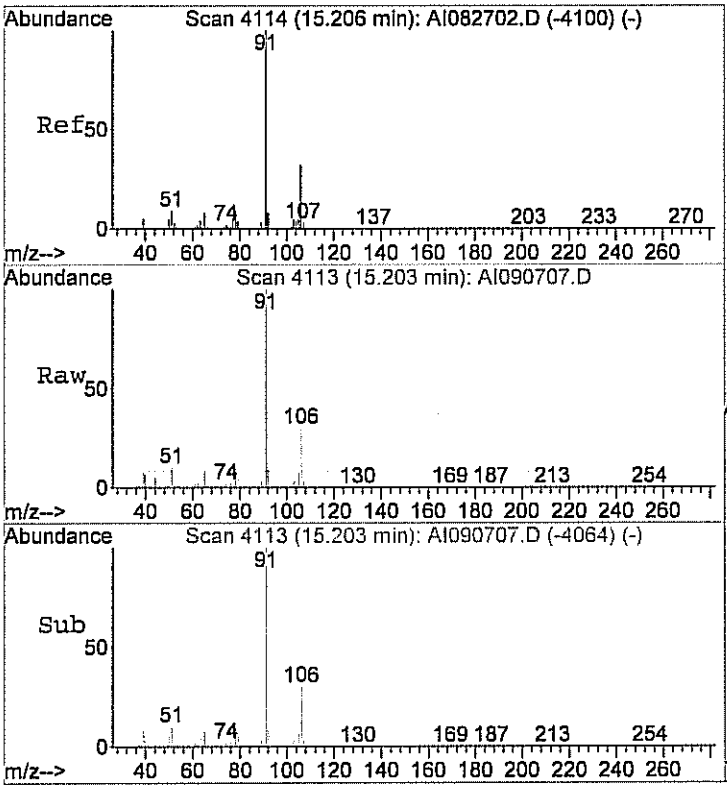


#54
Chlorobenzene
Concen: 0.11 ppb
RT: 14.94 min Scan# 4024
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:112 Resp: 4688

Ion	Ratio	Lower	Upper
112	100		
77	58.7	32.4	72.4
114	32.5	13.1	53.1

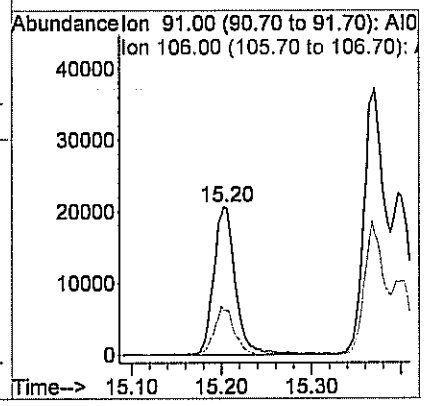


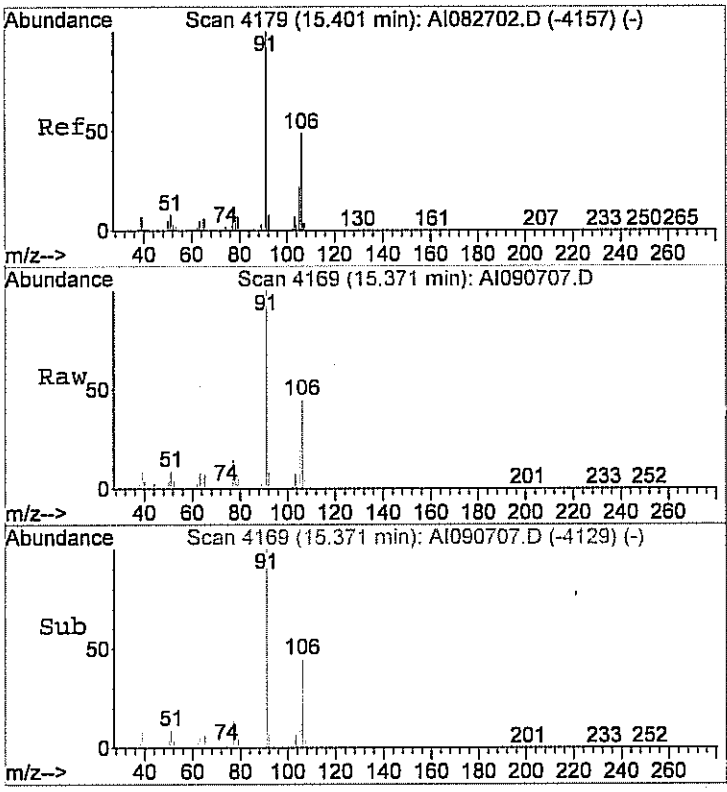


#55
Ethylbenzene
Concen: 0.64 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 91 Resp: 34745

Ion	Ratio	Lower	Upper
91	100		
106	30.4	10.7	50.7

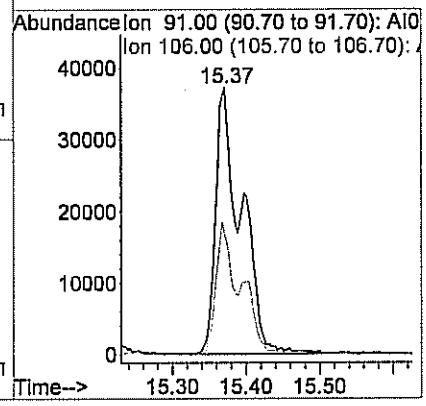


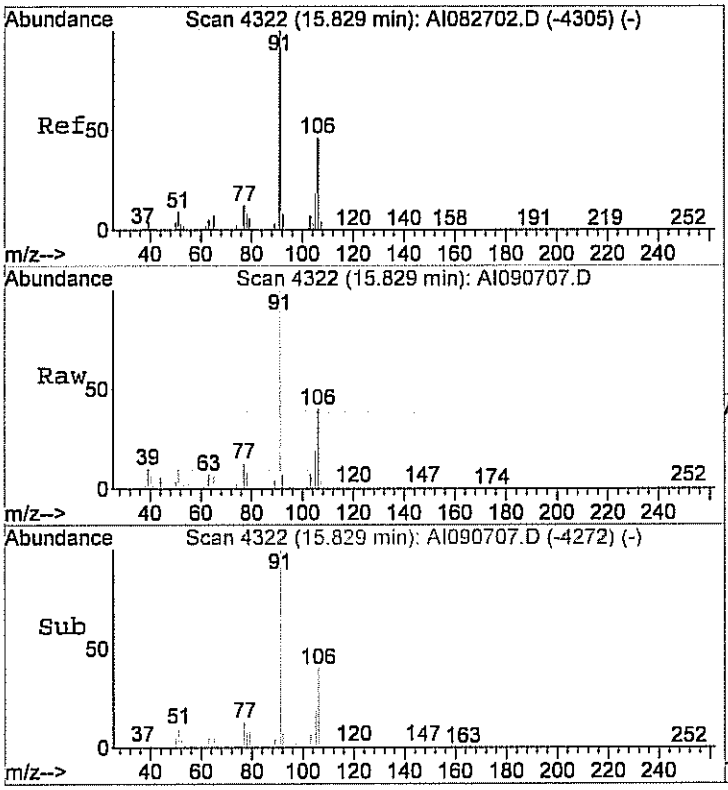


#56
m&p-xylene
Concen: 2.04 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 91 Resp: 89856

Ion	Ratio	Lower	Upper
91	100		
106	48.3	27.5	67.5

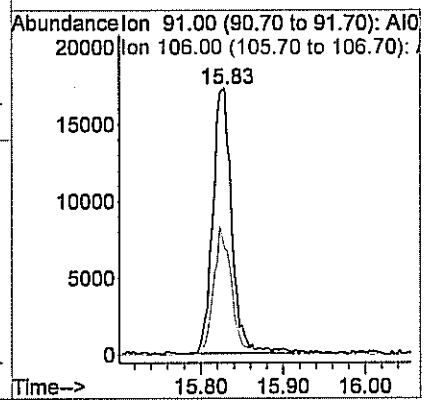


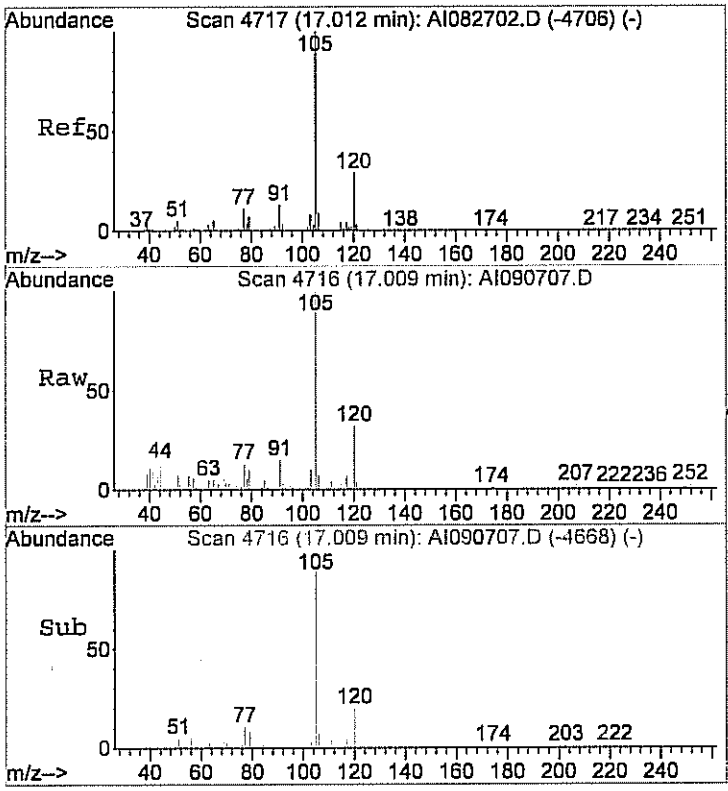


#59
o-xylene
Concen: 0.54 ppb
RT: 15.83 min Scan# 4322
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion: 91 Resp: 27751

Ion	Ratio	Lower	Upper
91	100		
106	45.9	26.2	66.2

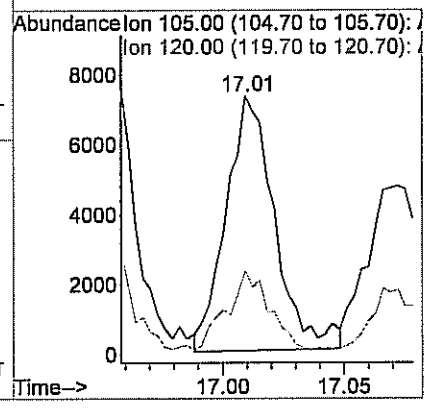


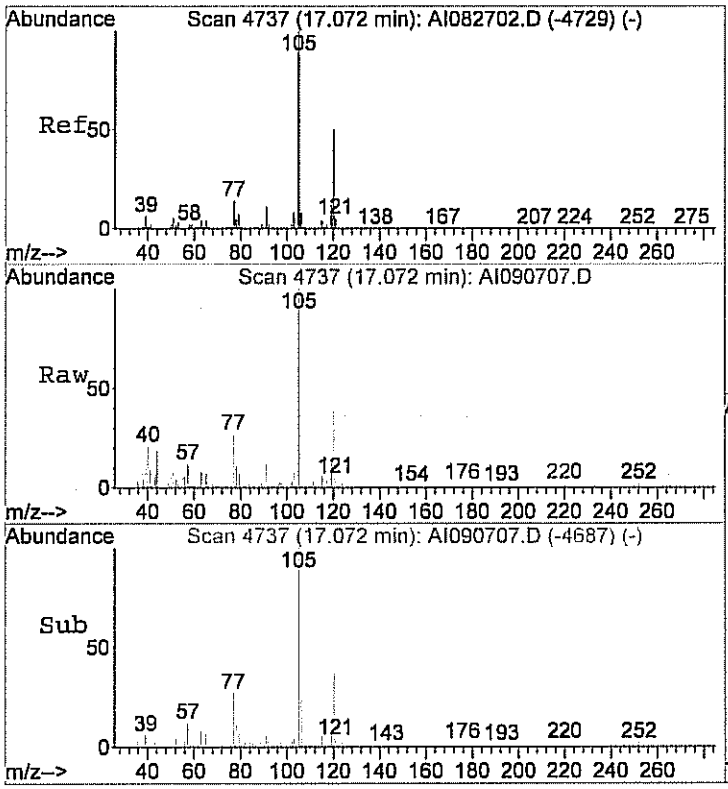


#63
4-ethyltoluene
Concen: 0.24 ppb
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:105 Resp: 10115

Ion	Ratio	Lower	Upper
105	100		
120	32.0	8.1	48.1

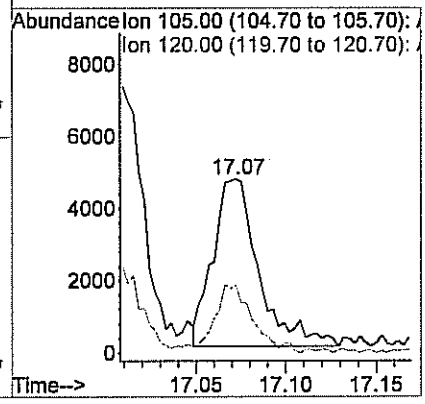


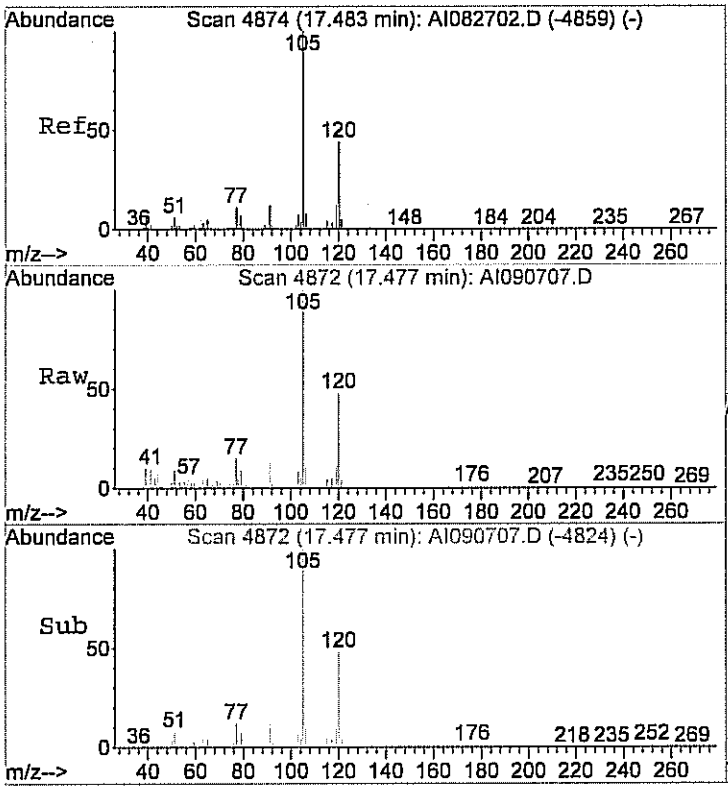


#64
1,3,5-trimethylbenzene
Concen: 0.18 ppb
RT: 17.07 min Scan# 4737
Delta R.T. 0.00 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:105 Resp: 8217

Ion	Ratio	Lower	Upper
105	100		
120	33.6	26.2	66.2

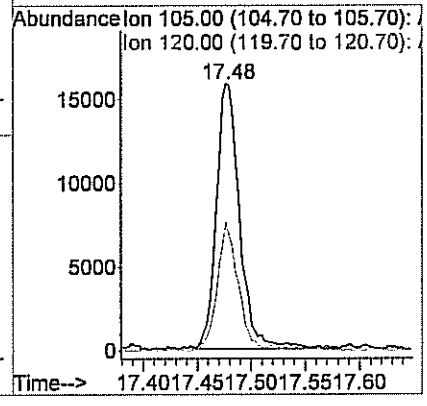




#65
1,2,4-trimethylbenzene
Concen: 0.64 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090707.D
Acq: 7 Sep 2011 2:30 pm

Tgt Ion:105 Resp: 23904

Ion	Ratio	Lower	Upper
105	100		
120	44.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090724.D Vial: 44
Acq On : 7 Sep 2011 11:56 pm Operator: RJP
Sample : C1108077-001A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 00:17:26 2011 Quant Results File: A826_1UG.RES

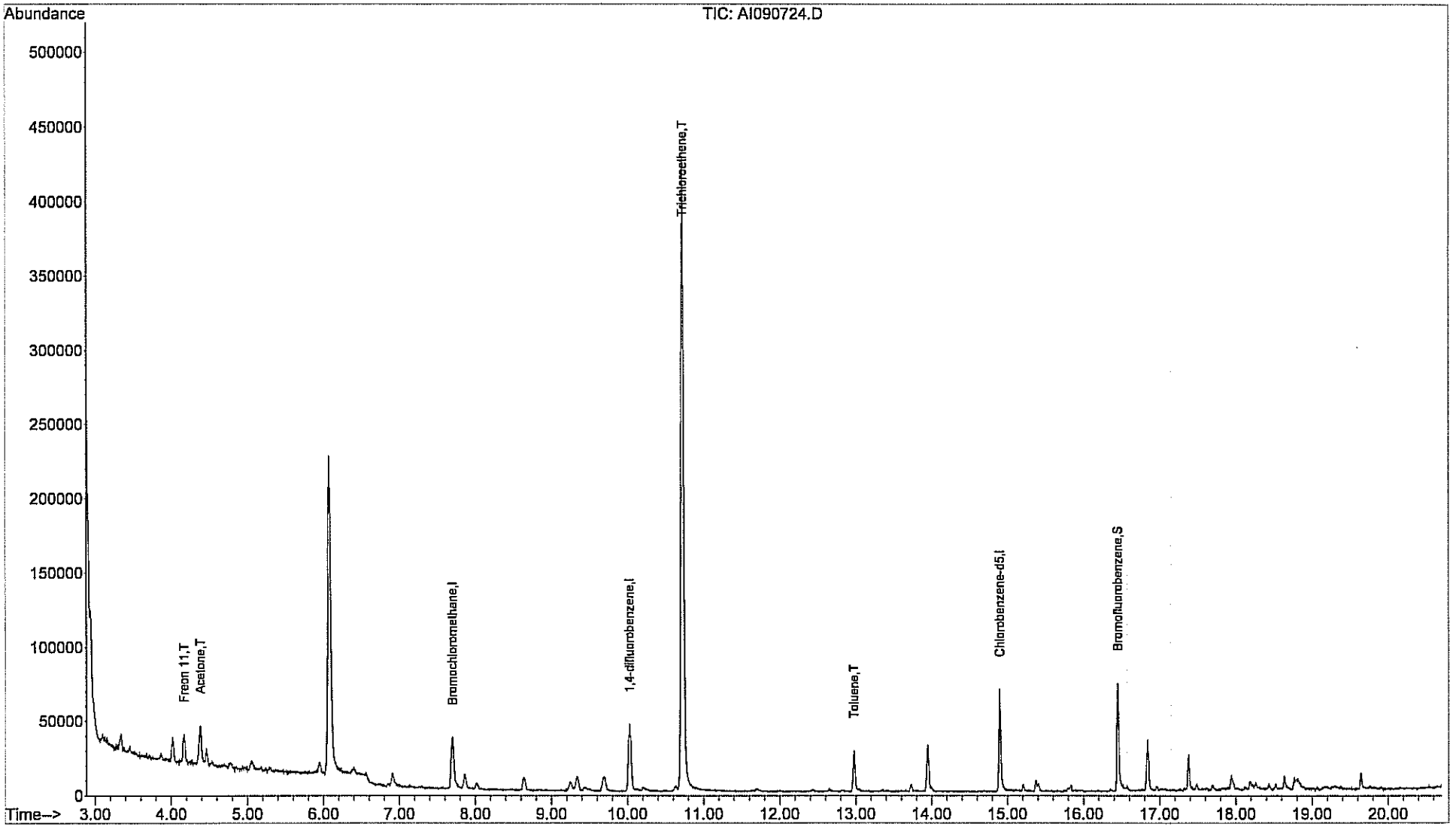
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13367	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	47690	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	41054	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24385	1.18	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
13) Freon 11	4.16	101	15236	0.34	ppb		98
14) Acetone	4.39	58	6062	1.28	ppb	#	81
41) Trichloroethene	10.72	130	185472	7.44	ppb		98
48) Toluene	12.97	92	12163	0.45	ppb		88

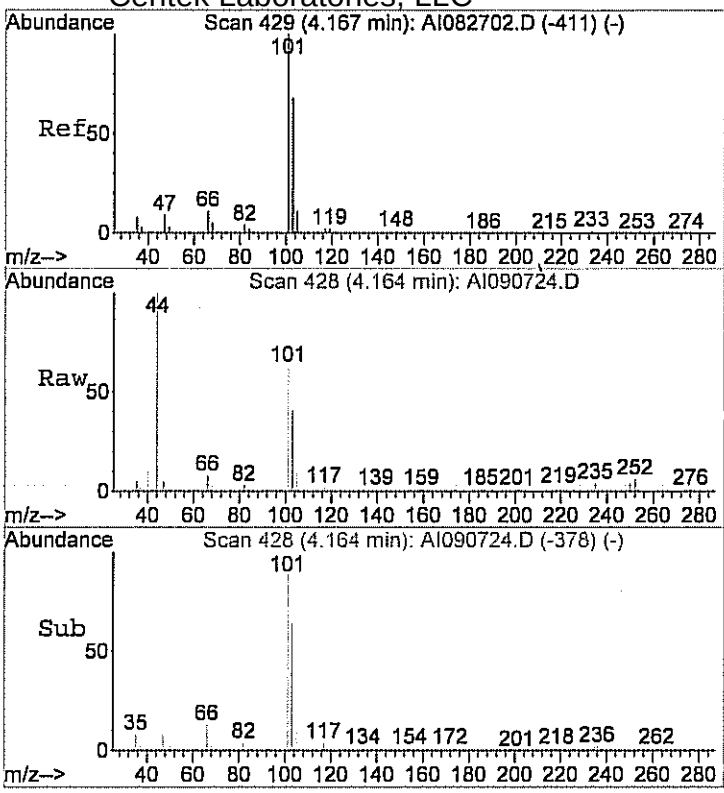
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090724.D A826_1UG.M Thu Sep 15 12:48:32 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI090724.D Vial: 44
Acq On : 7 Sep 2011 11:56 pm Operator: RJP
Sample : C1108077-001A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:53 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



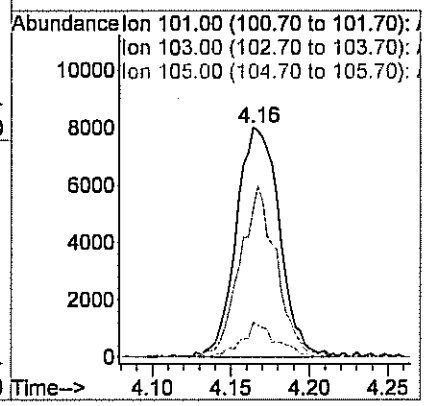
Centek Laboratories, LLC

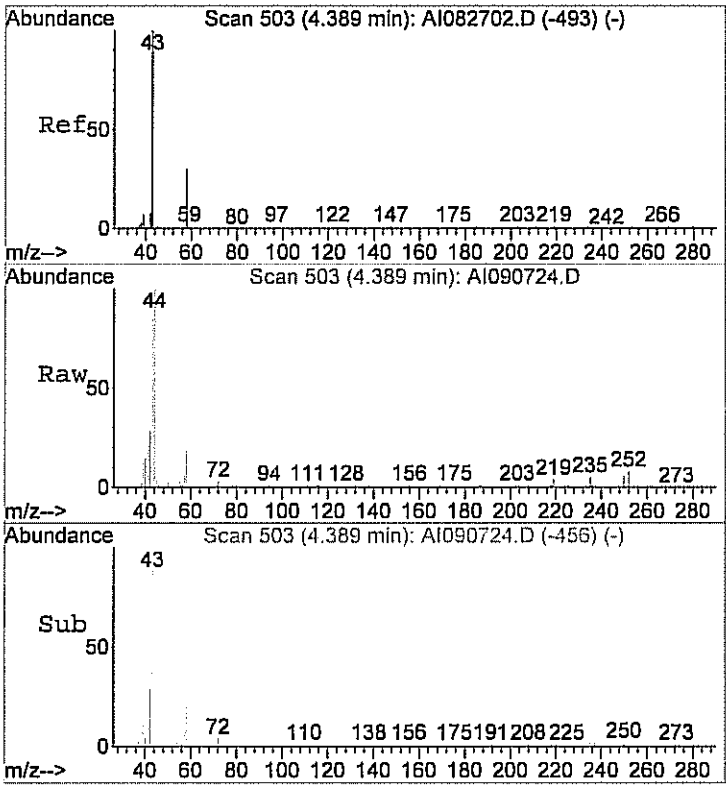


#13
Freon 11
Concen: 0.34 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.00 min
Lab File: AI090724.D
Acq: 7 Sep 2011 11:56 pm

Tgt Ion:101 Resp: 15236

Ion	Ratio	Lower	Upper
101	100		
103	63.9	44.9	84.9
105	12.0	0.0	30.9

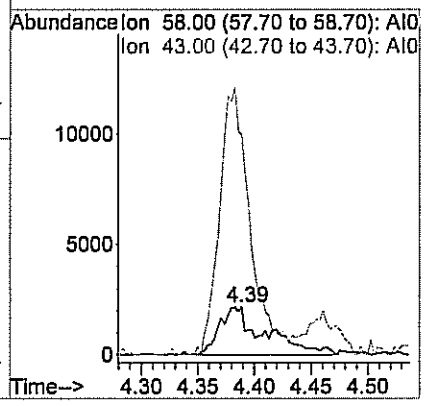


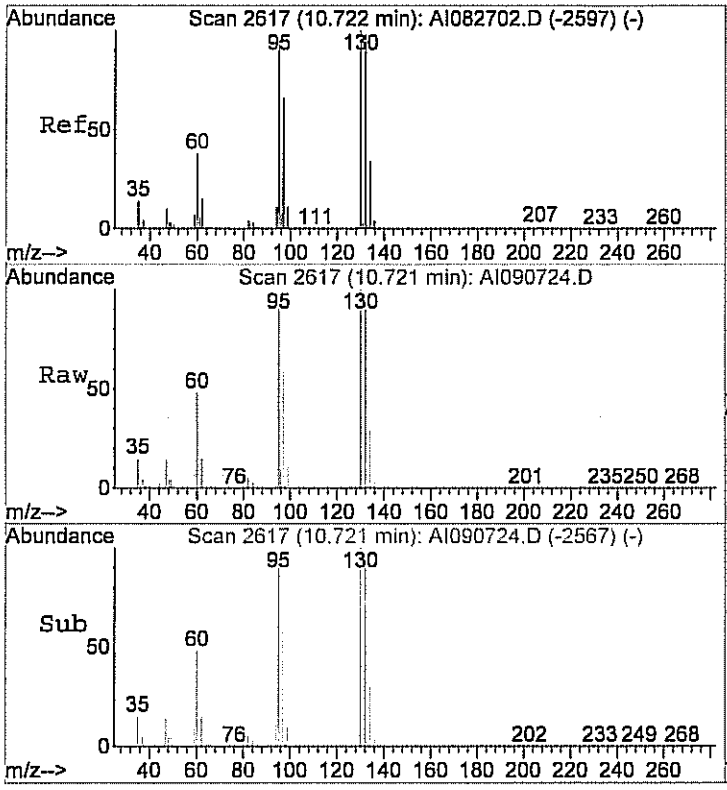


#14
Acetone
Concen: 1.28 ppb
RT: 4.39 min Scan# 503
Delta R.T. -0.01 min
Lab File: AI090724.D
Acq: 7 Sep 2011 11:56 pm

Tgt Ion: 58 Resp: 6062

Ion	Ratio	Lower	Upper
58	100		
43	435.1	360.8	420.8#

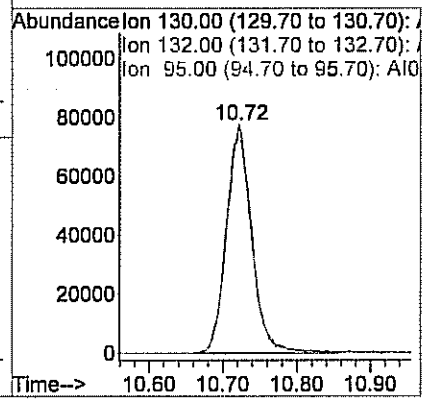


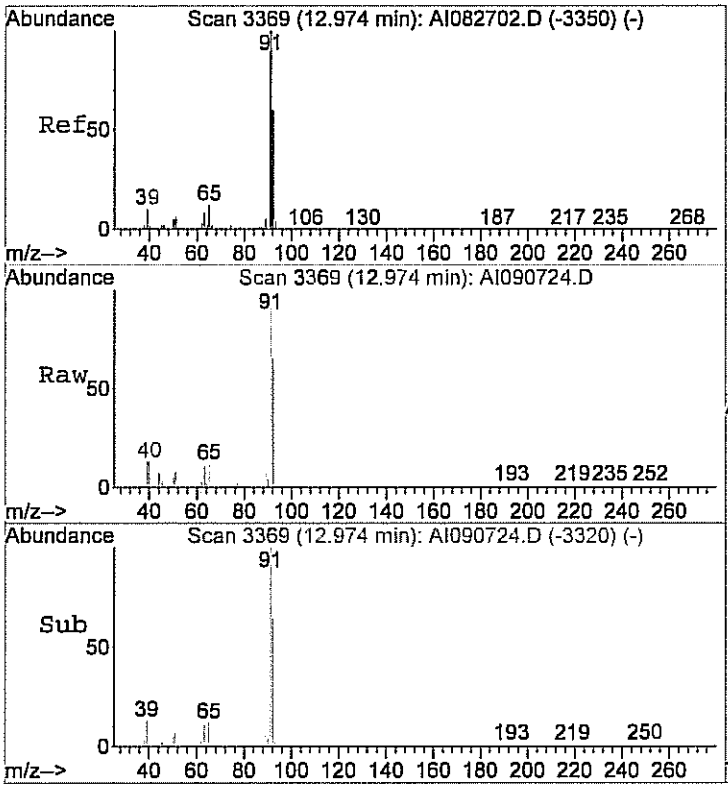


#41
Trichloroethene
Concen: 7.44 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090724.D
Acq: 7 Sep 2011 11:56 pm

Tgt Ion:130 Resp: 185472

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	97.9	76.8	116.8

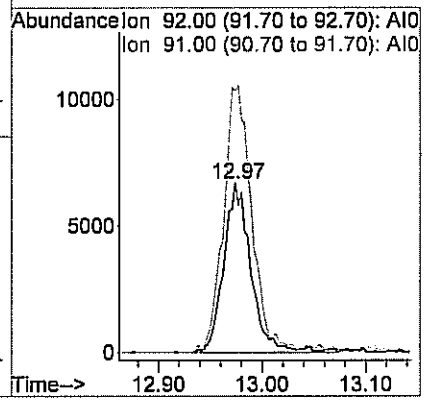




#48
Toluene
Concen: 0.45 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090724.D
Acq: 7 Sep 2011 11:56 pm

Tgt Ion: 92 Resp: 12163

Ion	Ratio	Lower	Upper
92	100		
91	162.8	159.8	199.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090811.D Vial: 9
Acq On : 8 Sep 2011 4:06 pm Operator: RJP
Sample : C1108077-001A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 16:27:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

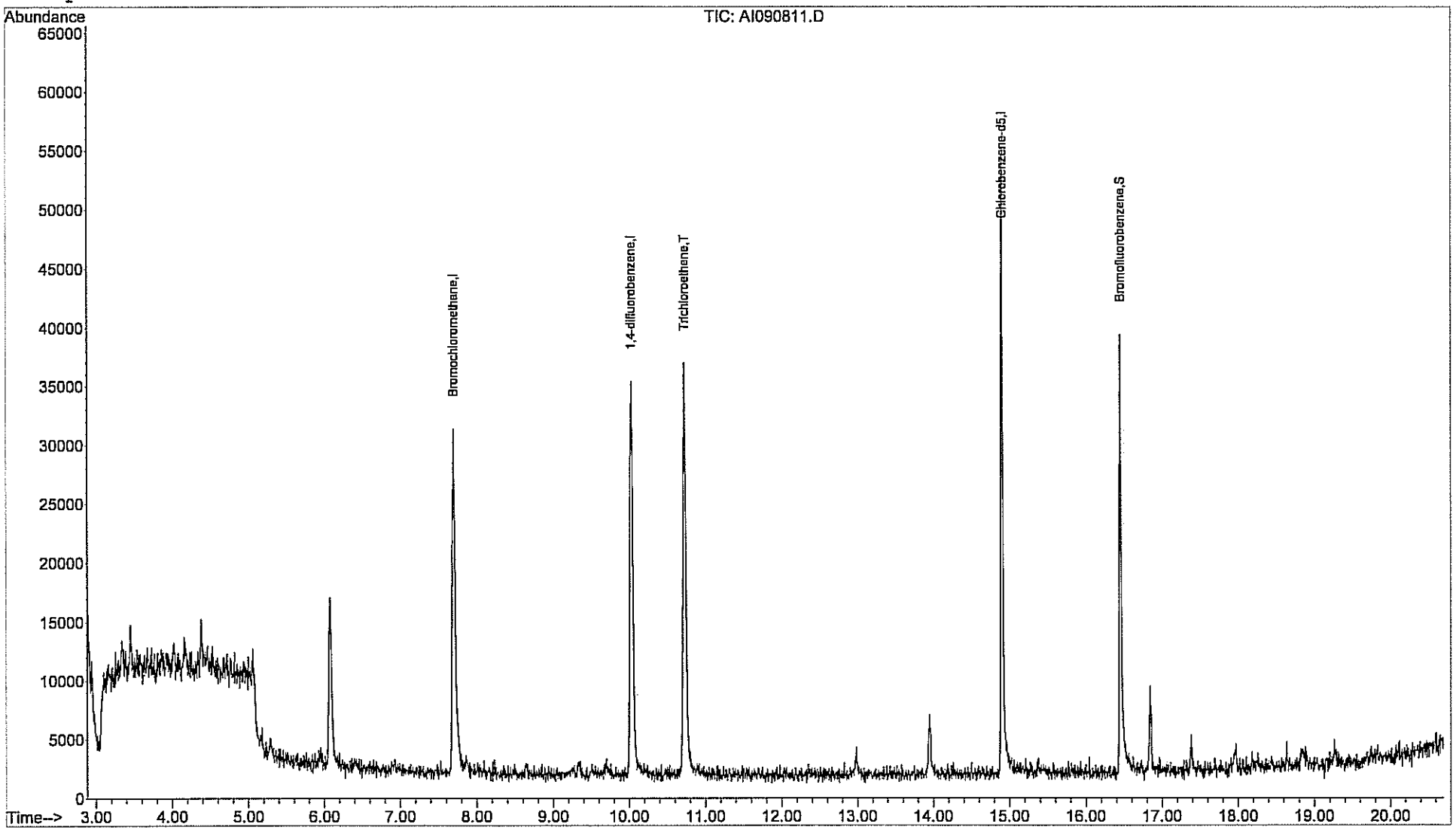
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	11716	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	36734	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	31736	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	12908	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.73	130	15909	0.83	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

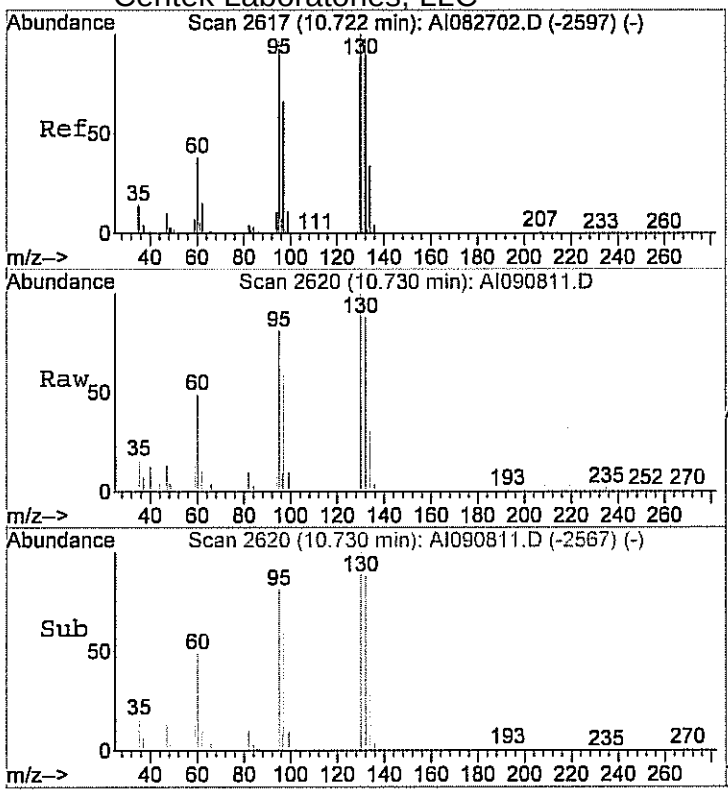
Data File : C:\HPCHEM\1\DATA\AI090811.D
Acq On : 8 Sep 2011 4:06 pm
Sample : C1108077-001A 90X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:39 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



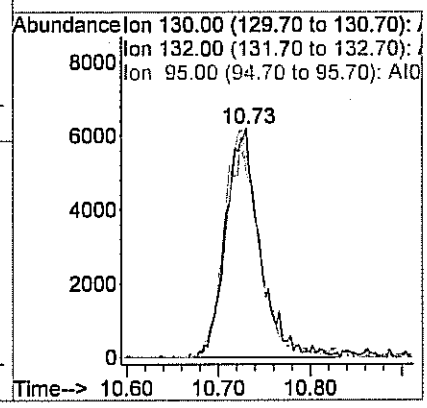
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 0.83 ppb
RT: 10.73 min Scan# 2620
Delta R.T. 0.01 min
Lab File: AI090811.D
Acq: 8 Sep 2011 4:06 pm

Tgt Ion:130 Resp: 15909

Ion	Ratio	Lower	Upper
130	100		
132	98.0	79.0	119.0
95	102.2	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.43	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	0.81	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	0.46	0.15		ppbV	1	9/7/2011 3:09:00 PM
4-ethyltoluene	0.31	0.15		ppbV	1	9/7/2011 3:09:00 PM
Acetone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzene	1.4	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.12	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloroform	0.36	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Cyclohexane	2.9	1.5		ppbV	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.17	0.25	J	ppbV	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.73	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 11	3.8	1.5		ppbV	10	9/8/2011 1:02:00 AM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 3:09:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 3:09:00 PM
Heptane	1.0	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexane	2.3	1.5		ppbV	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 1:02:00 AM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
o-Xylene	0.63	0.15		ppbV	1	9/7/2011 3:09:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Toluene	4.5	1.5		ppbV	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	2.4	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	4.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	2.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	2.2	0.71		ug/m3	1	9/7/2011 3:09:00 PM
4-ethyltoluene	1.5	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Acetone	< 0.72	0.72		ug/m3	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:09:00 PM
Benzene	4.4	0.49		ug/m3	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.56	0.70	J	ug/m3	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:09:00 PM
Chloroform	1.8	0.74		ug/m3	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Cyclohexane	10	5.2		ug/m3	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.62	0.92	J	ug/m3	1	9/7/2011 3:09:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Freon 11	22	8.6		ug/m3	10	9/8/2011 1:02:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 3:09:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Heptane	4.2	0.62		ug/m3	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Hexane	8.2	5.4		ug/m3	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 1:02:00 AM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:09:00 PM
o-Xylene	2.8	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:09:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:09:00 PM
Toluene	17	5.7		ug/m3	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090708.D Vial: 28
Acq On : 7 Sep 2011 3:09 pm Operator: RJP
Sample : C1108077-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 15:29:57 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

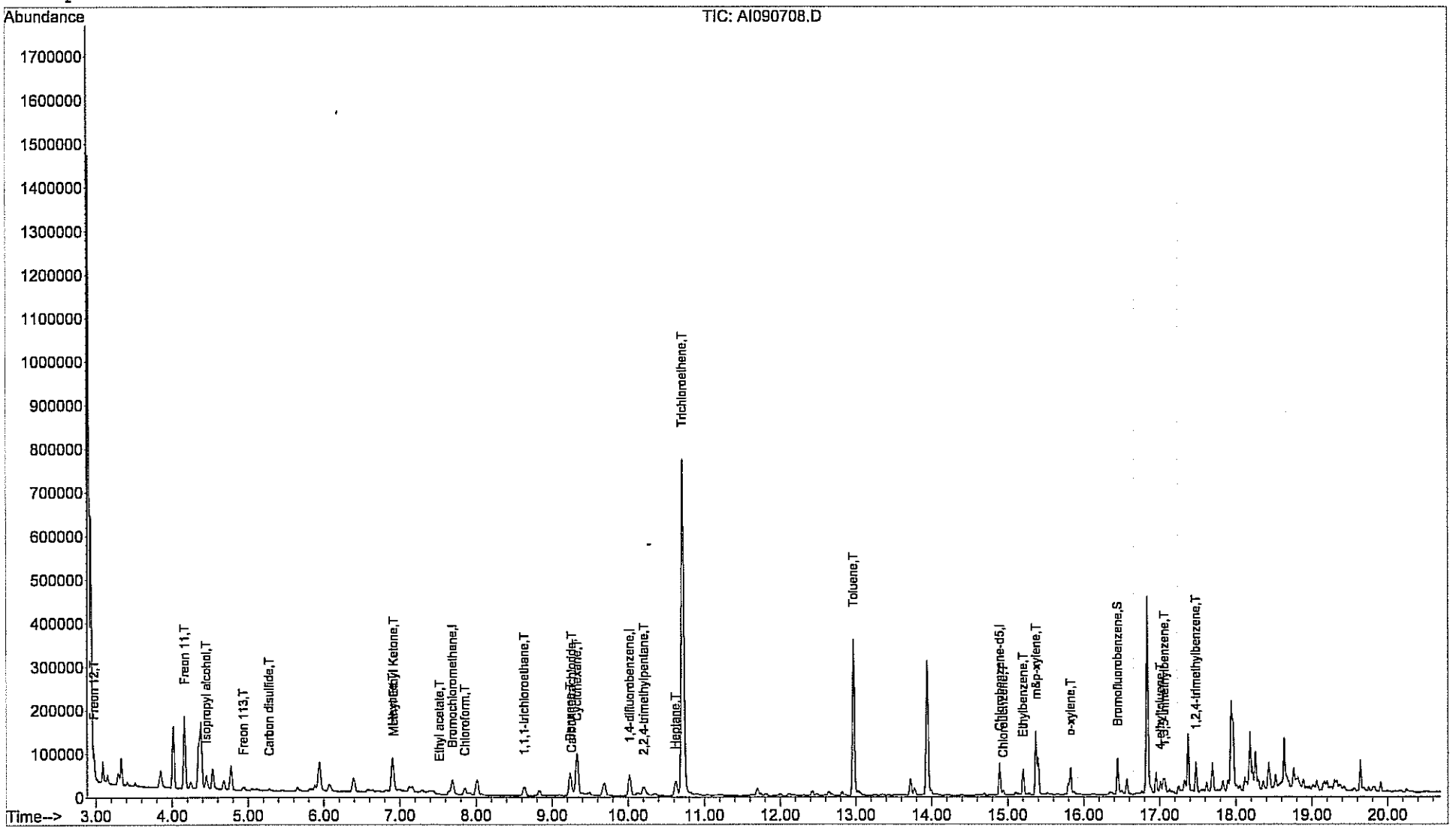
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13012	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	47410	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	41632	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24596	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	30609	0.55	ppb		99
13) Freon 11	4.16	101	127667	2.96	ppb		99
15) Isopropyl alcohol	4.45	45	28261	3.01	ppb	#	100
17) Freon 113	4.94	101	3161	0.10	ppb		93
20) Carbon disulfide	5.28	76	6833	0.19	ppb		92
25) Methyl Ethyl Ketone	6.93	72	4319	1.01	ppb	#	100
27) Hexane	6.90	57	41720	2.62	ppb		95
28) Ethyl acetate	7.51	43	3138	0.17	ppb		91
29) Chloroform	7.85	83	14276	0.36	ppb		93
33) 1,1,1-trichloroethane	8.64	97	15193	0.43	ppb		98
34) Cyclohexane	9.33	56	44961	2.90	ppb	#	64
35) Carbon tetrachloride	9.27	117	4959	0.11	ppb		97
36) Benzene	9.24	78	55315	1.36	ppb		98
39) 2,2,4-trimethylpentane	10.21	57	19806	0.46	ppb	#	56
40) Heptane	10.63	43	14811	1.00	ppb		96
41) Trichloroethene	10.72	130	320516	12.94	ppb		98
48) Toluene	12.97	92	153473	5.64	ppb		94
54) Chlorobenzene	14.94	112	5284	0.12	ppb		96
55) Ethylbenzene	15.20	91	40448	0.73	ppb		98
56) m&p-xylene	15.37	91	122035	2.68	ppb		100
59) o-xylene	15.83	91	33245	0.63	ppb		97
63) 4-ethyltoluene	17.01	105	13426m	0.31	ppb		
64) 1,3,5-trimethylbenzene	17.07	105	19247m	0.40	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	31140	0.81	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090708.D
Acq On : 7 Sep 2011 3:09 pm
Sample : C1108077-002A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:09 2011

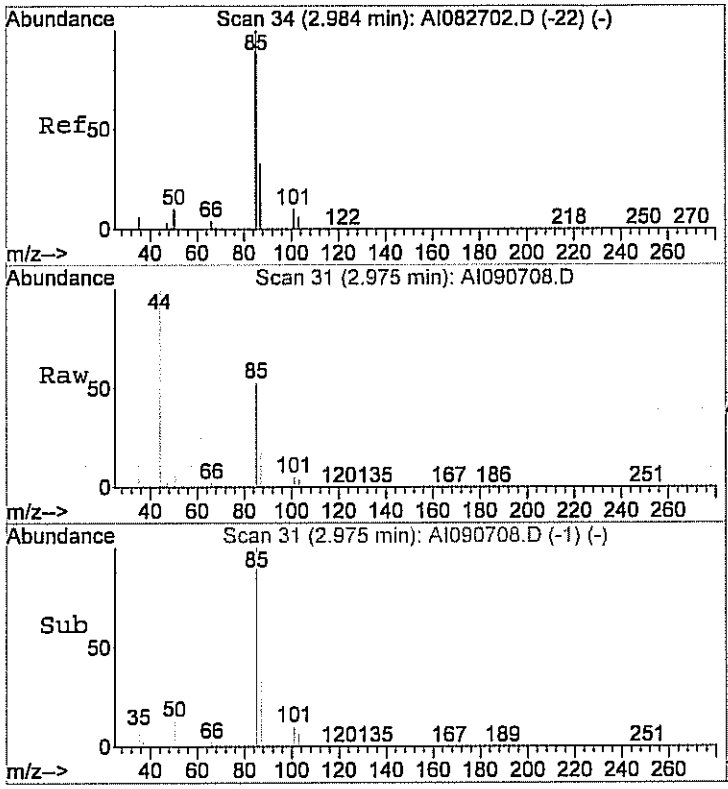
Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



AI090708.D A826_1UG.M Thu Sep 15 12:46:20 2011 MSD1 Page 2

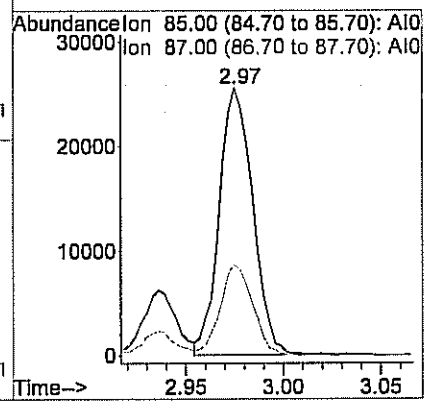
Centek Laboratories, LLC

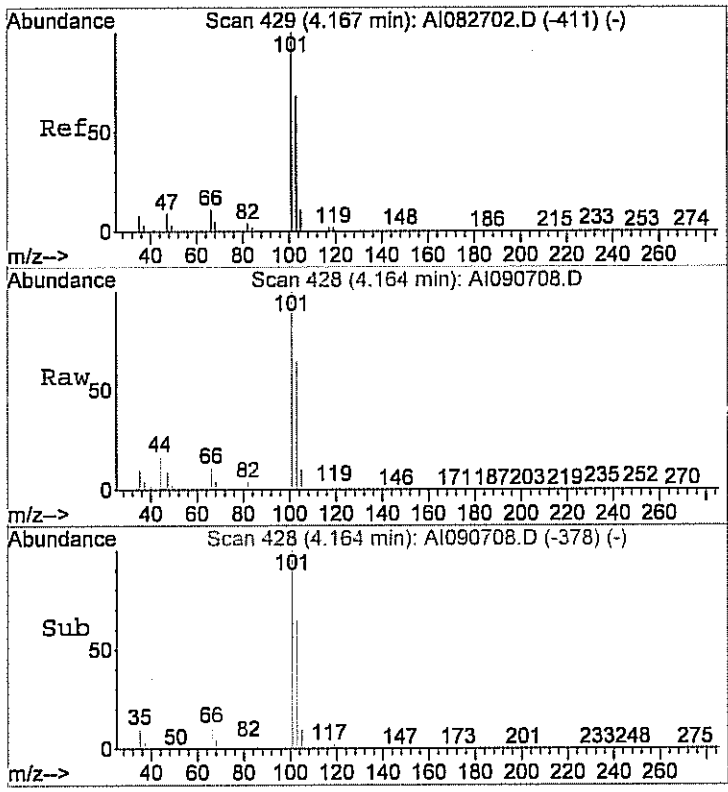


#3
Freon 12
Concen: 0.55 ppb
RT: 2.97 min Scan# 31
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 85 Resp: 30609

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

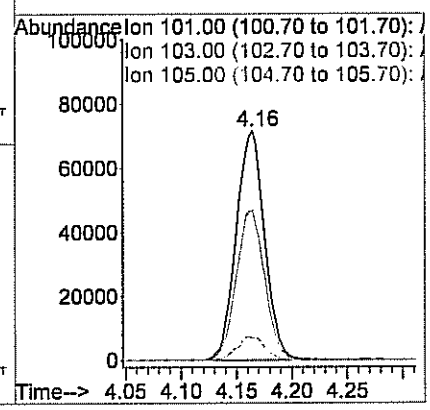


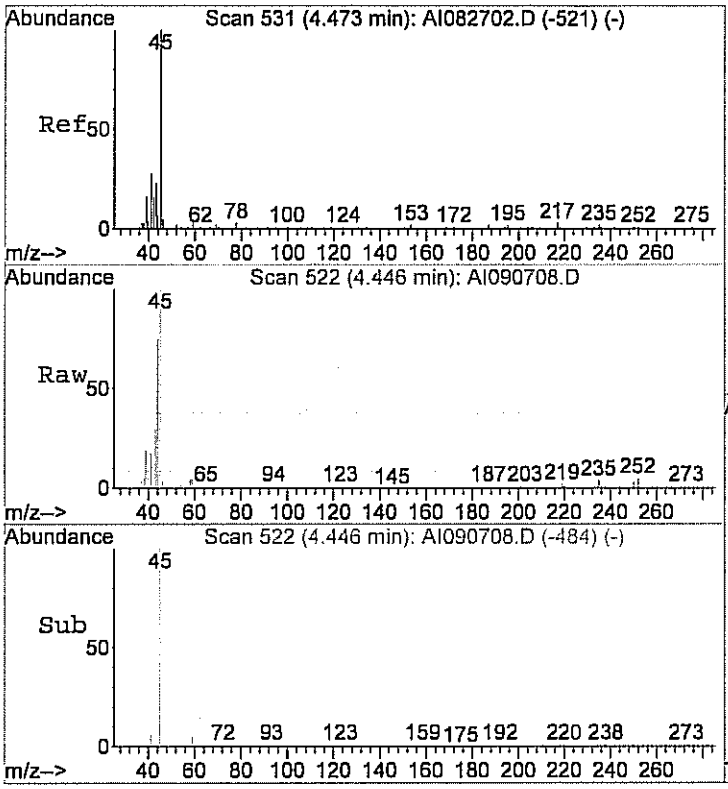


#13
Freon 11
Concen: 2.96 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:101 Resp: 127667

Ion	Ratio	Lower	Upper
101	100		
103	66.0	44.9	84.9
105	10.3	0.0	30.9

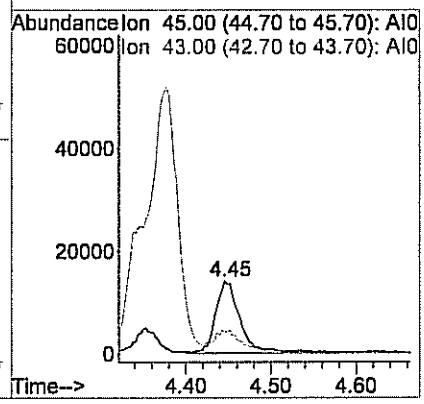


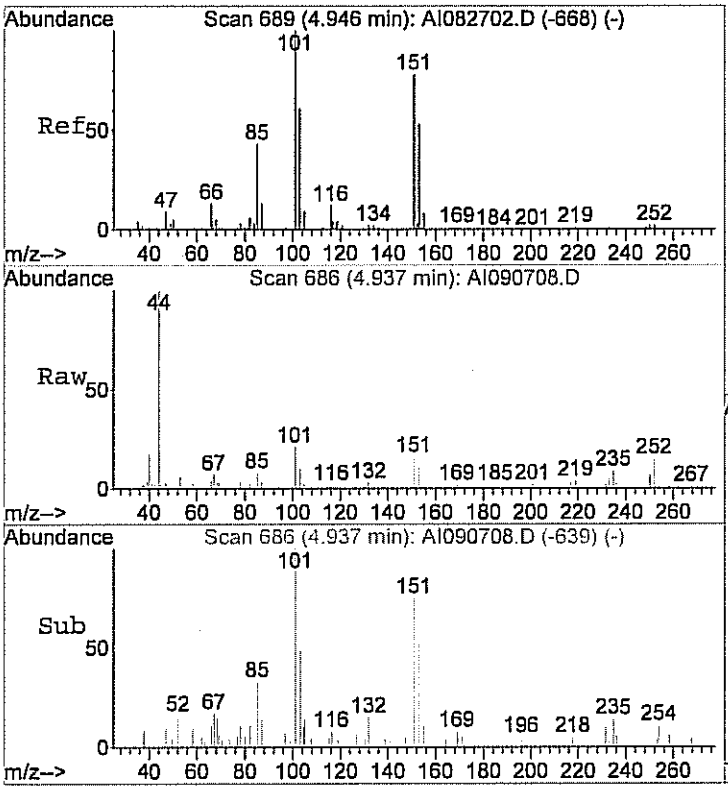


#15
Isopropyl alcohol
Concen: 3.01 ppb
RT: 4.45 min Scan# 522
Delta R.T. -0.04 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 45 Resp: 28261

Ion	Ratio	Lower	Upper
45	100		
43	37.6	0.0	20.0#

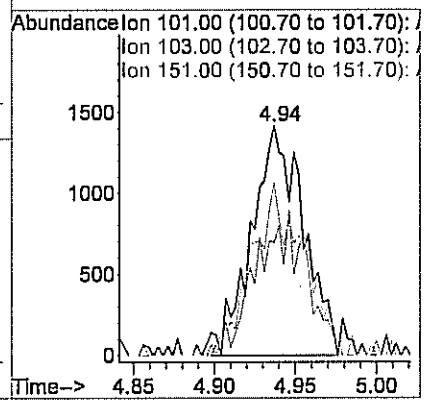


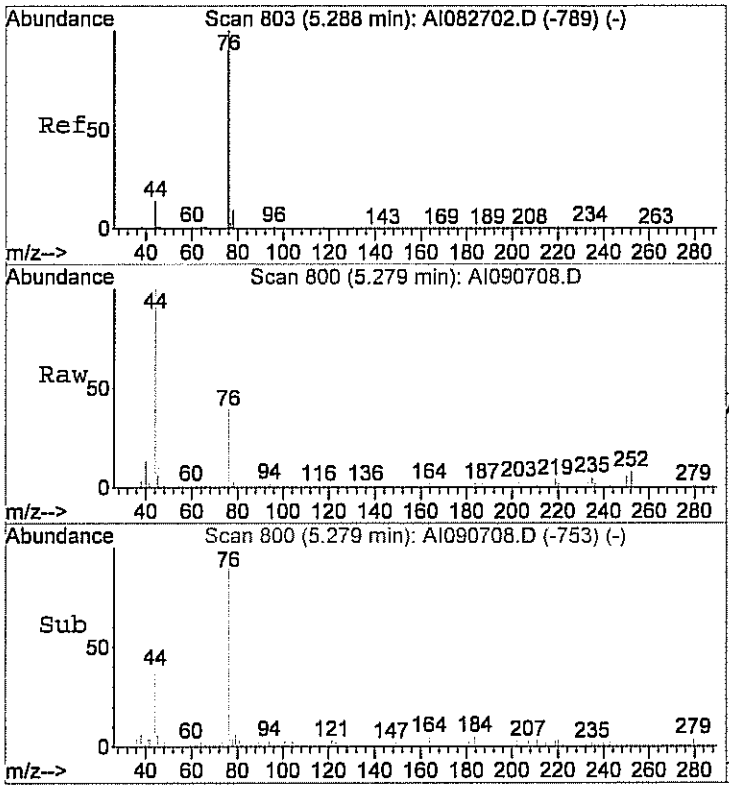


#17
Freon 113
Concen: 0.10 ppb
RT: 4.94 min Scan# 686
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:101 Resp: 3161

Ion	Ratio	Lower	Upper
101	100		
103	58.5	44.3	84.3
151	74.8	61.0	101.0

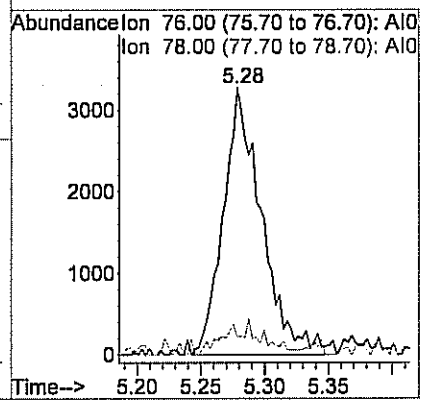


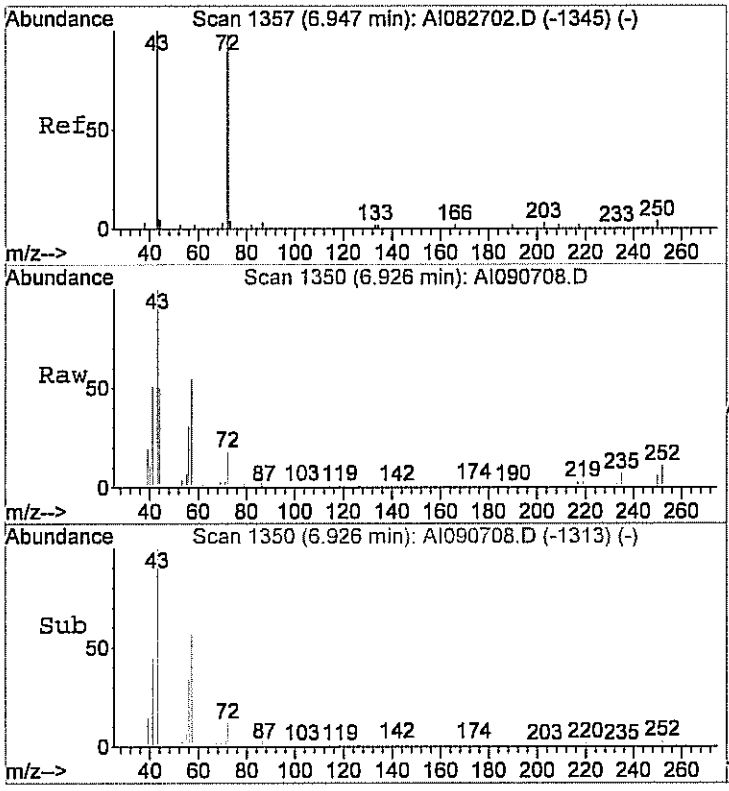


#20
Carbon disulfide
Concen: 0.19 ppb
RT: 5.28 min Scan# 800
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 76 Resp: 6833

Ion	Ratio	Lower	Upper
76	100		
78	12.7	0.0	29.6

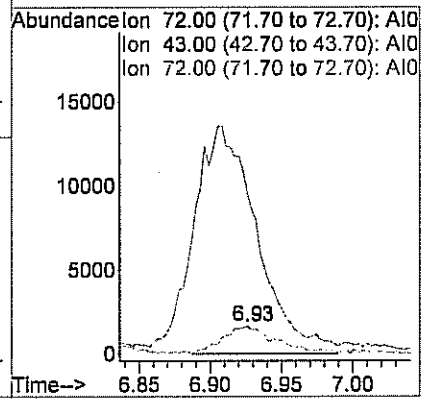


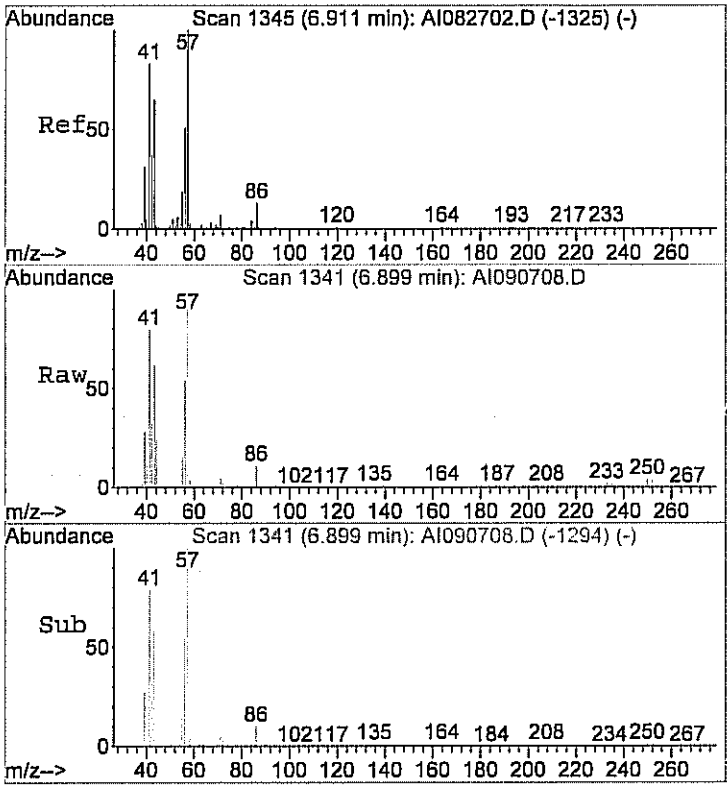


#25
Methyl Ethyl Ketone
Concen: 1.01 ppb
RT: 6.93 min Scan# 1350
Delta R.T. -0.04 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 72 Resp: 4319

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

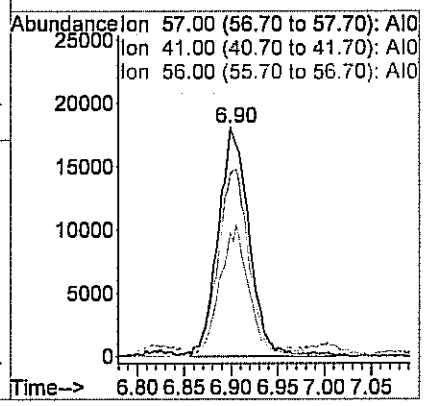


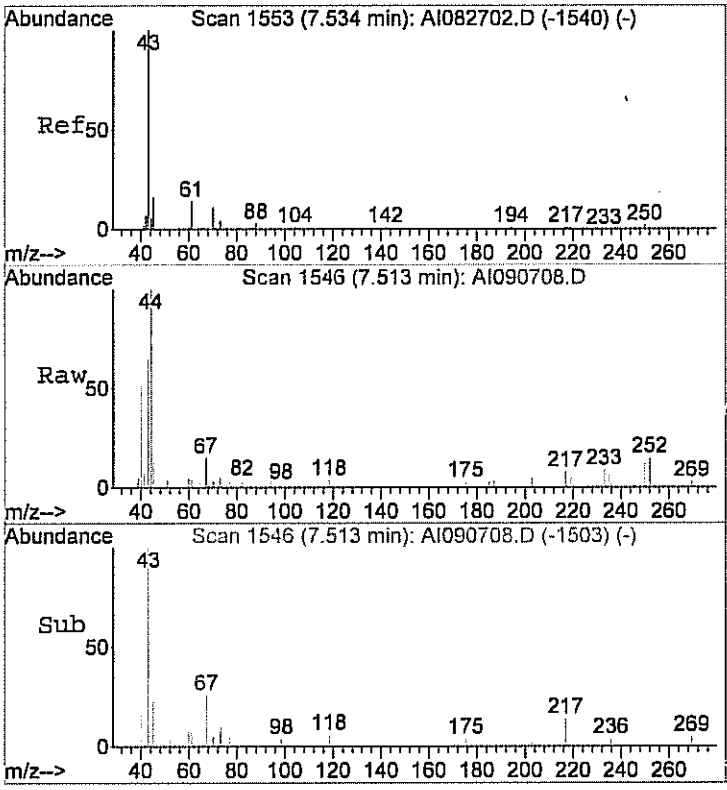


#27
Hexane
Concen: 2.62 ppb
RT: 6.90 min Scan# 1341
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 57 Resp: 41720

Ion	Ratio	Lower	Upper
57	100		
41	87.4	75.5	115.5
56	55.9	35.9	75.9

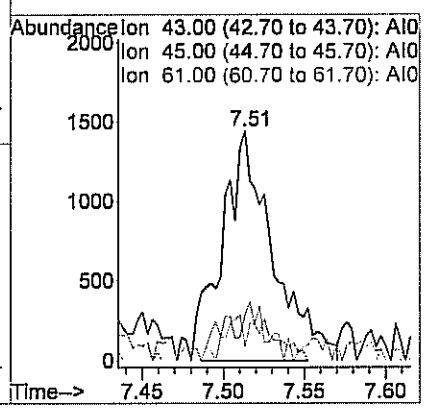


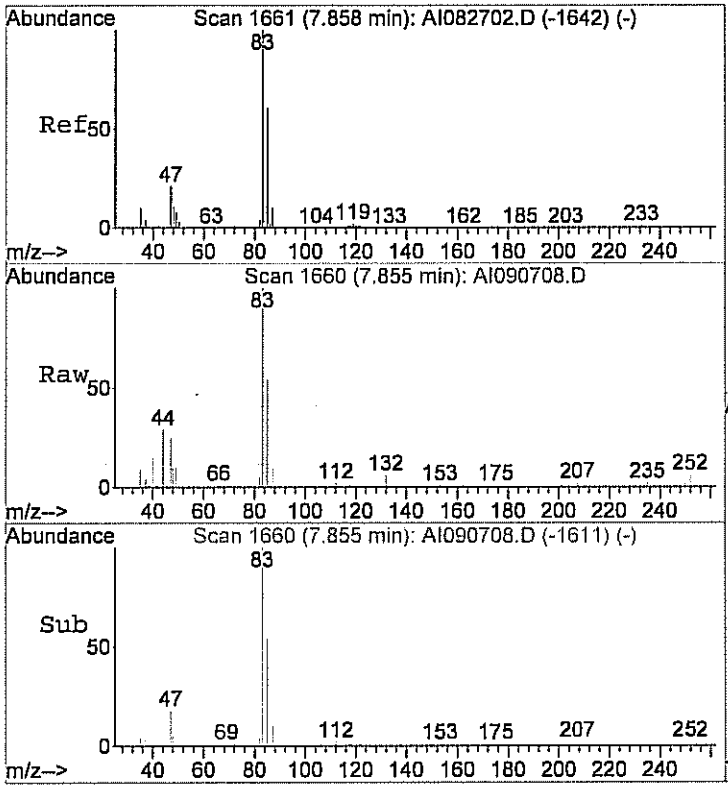


#28
Ethyl acetate
Concen: 0.17 ppb
RT: 7.51 min Scan# 1546
Delta R.T. -0.02 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 43 Resp: 3138

Ion	Ratio	Lower	Upper
43	100		
45	15.6	0.0	34.5
61	7.5	0.0	34.0

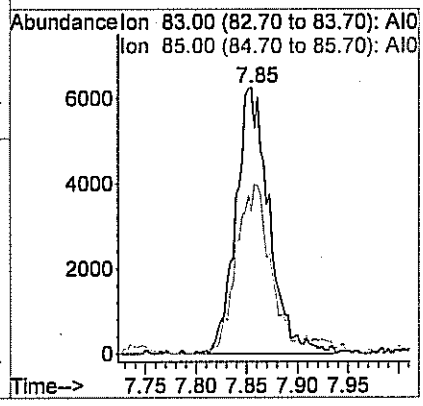


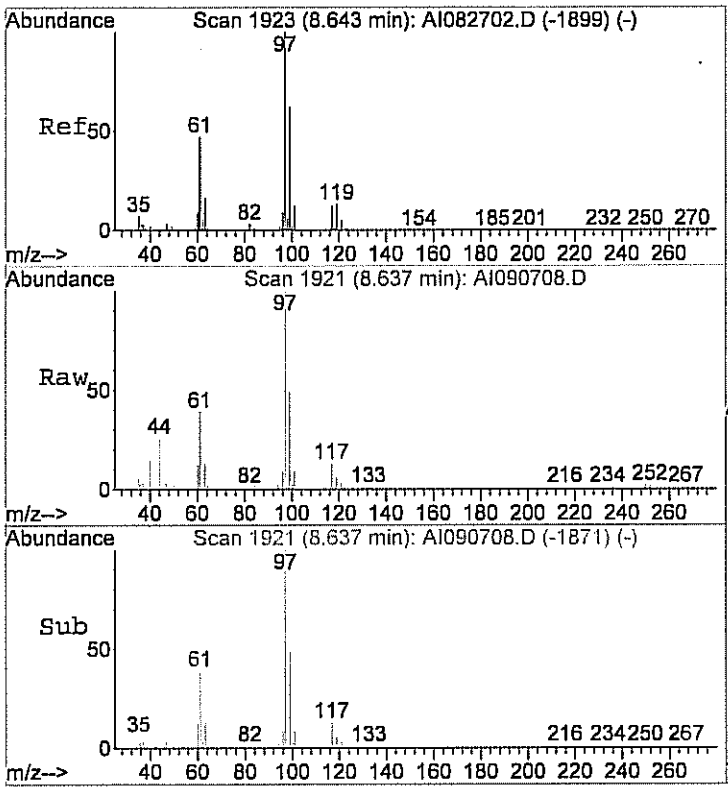


#29
Chloroform
Concen: 0.36 ppb
RT: 7.85 min Scan# 1660
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 83 Resp: 14276

Ion	Ratio	Lower	Upper
83	100		
85	70.2	45.0	85.0

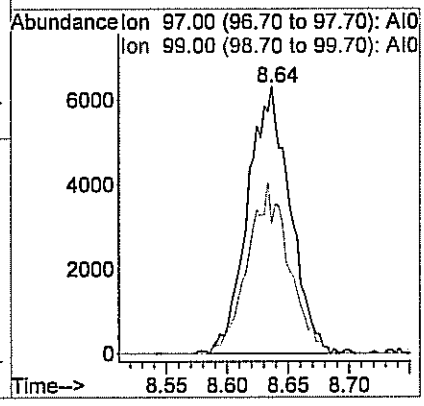


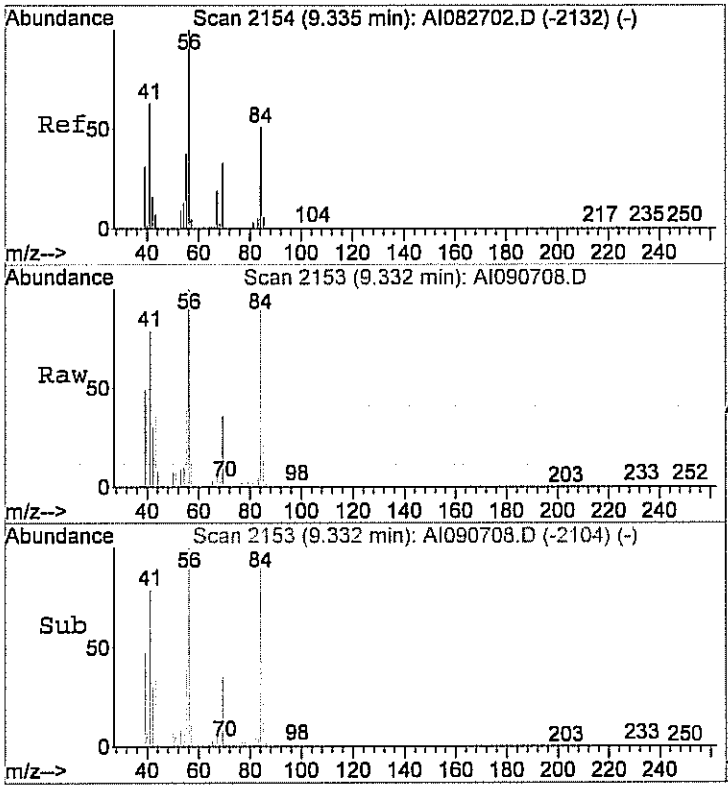


#33
1,1,1-trichloroethane
Concen: 0.43 ppb
RT: 8.64 min Scan# 1921
Delta R.T. 0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 97 Resp: 15193

Ion	Ratio	Lower	Upper
97	100		
99	62.6	43.8	83.8

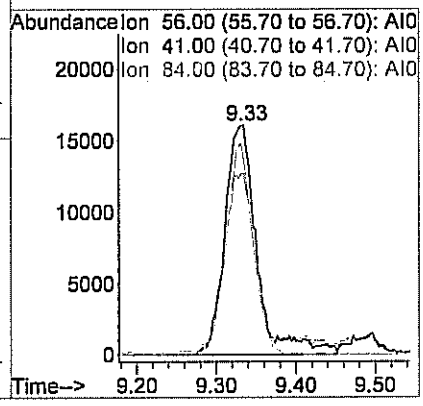


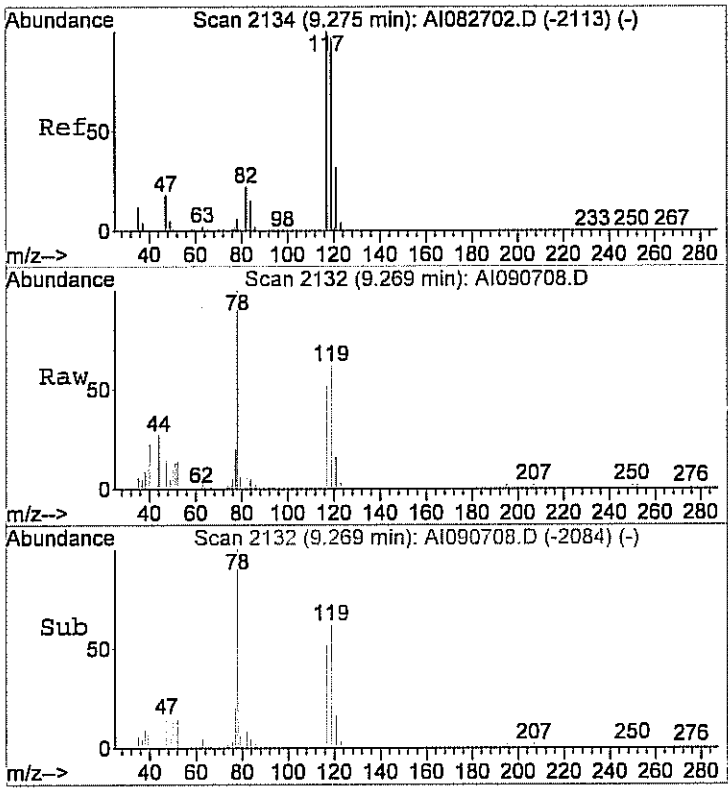


#34
Cyclohexane
Concen: 2.90 ppb
RT: 9.33 min Scan# 2153
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 56 Resp: 44961

Ion	Ratio	Lower	Upper
56	100		
41	86.8	49.1	89.1
84	82.2	114.6	154.6#

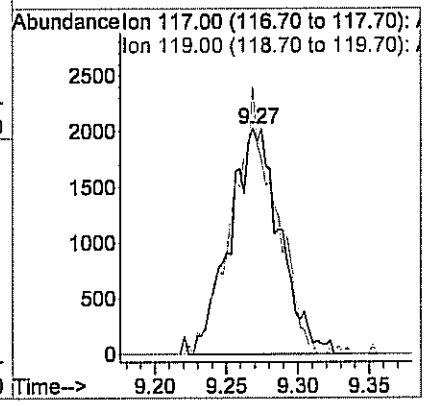


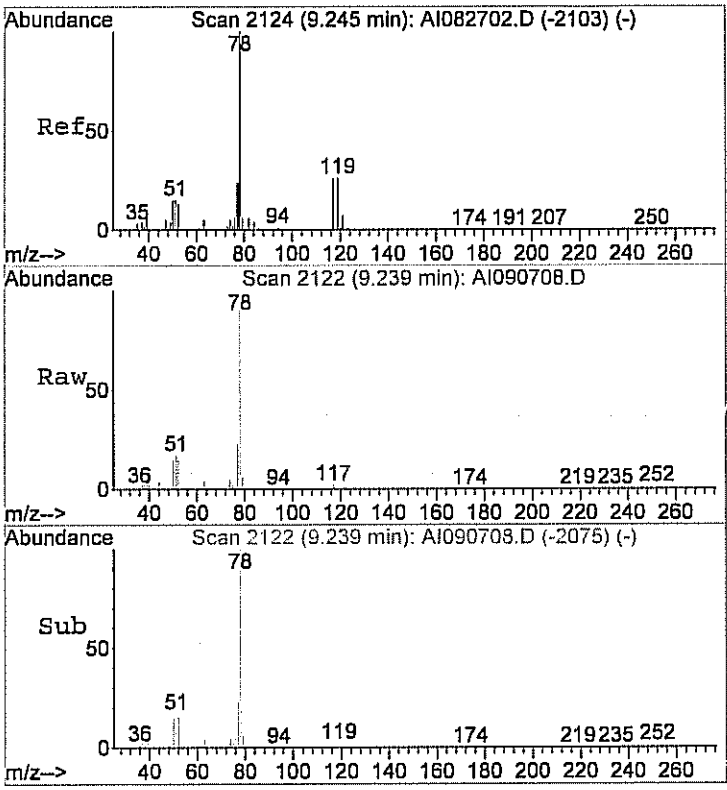


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.27 min Scan# 2132
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:117 Resp: 4959

Ion	Ratio	Lower	Upper
117	100		
119	100.0	77.2	117.2

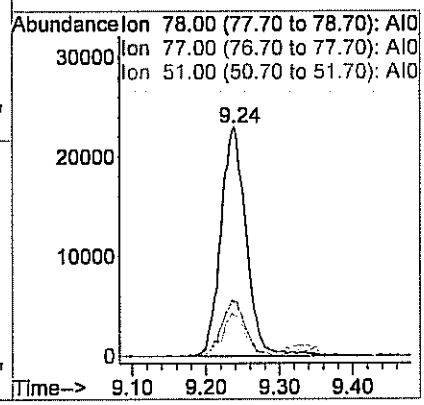


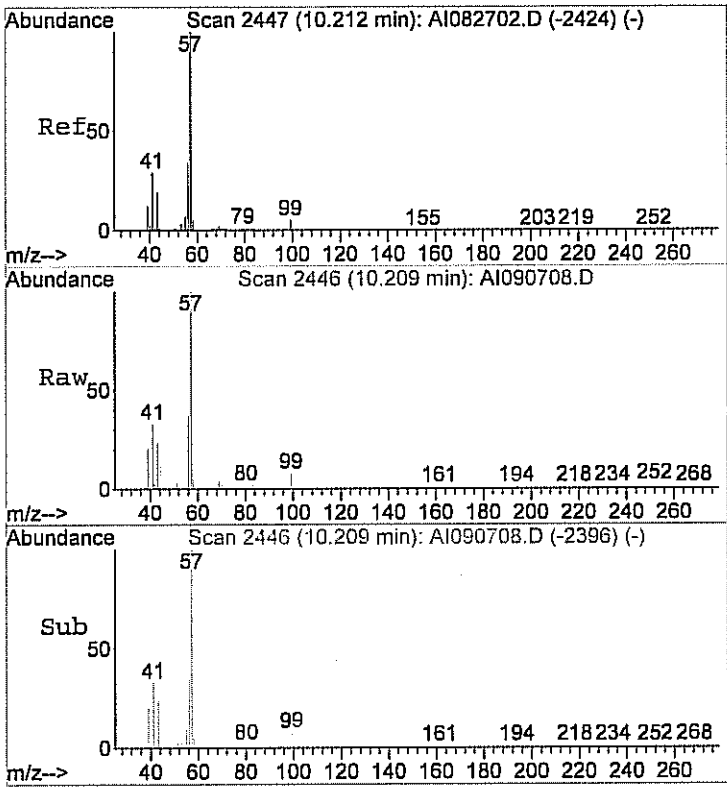


#36
Benzene
Concen: 1.36 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 78 Resp: 55315

Ion	Ratio	Lower	Upper
78	100		
77	23.3	5.2	45.2
51	17.4	0.0	37.6

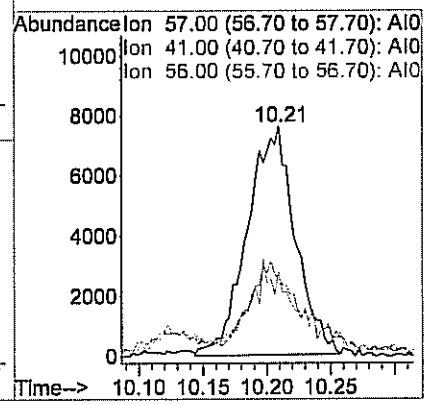


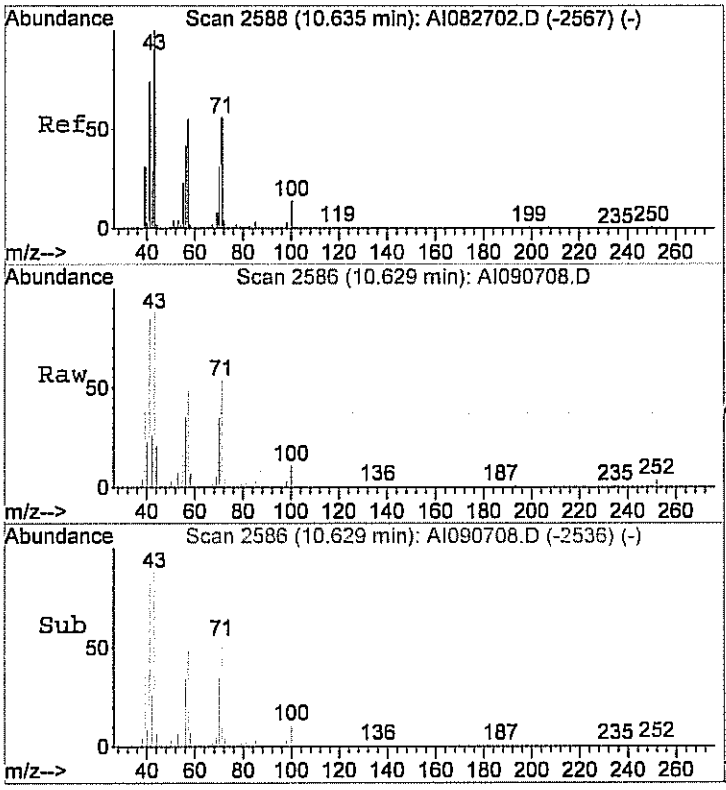


#39
2,2,4-trimethylpentane
Concen: 0.46 ppb
RT: 10.21 min Scan# 2446
Delta R.T. 0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 57 Resp: 19806

Ion	Ratio	Lower	Upper
57	100		
41	65.7	17.9	57.9#
56	57.1	13.7	53.7#

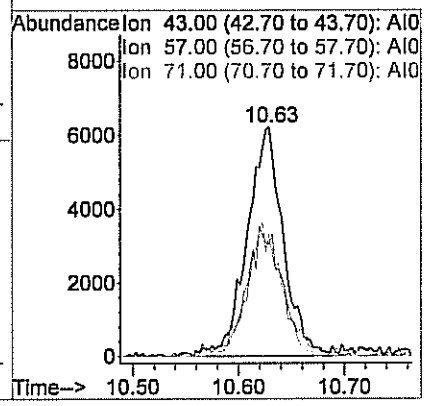


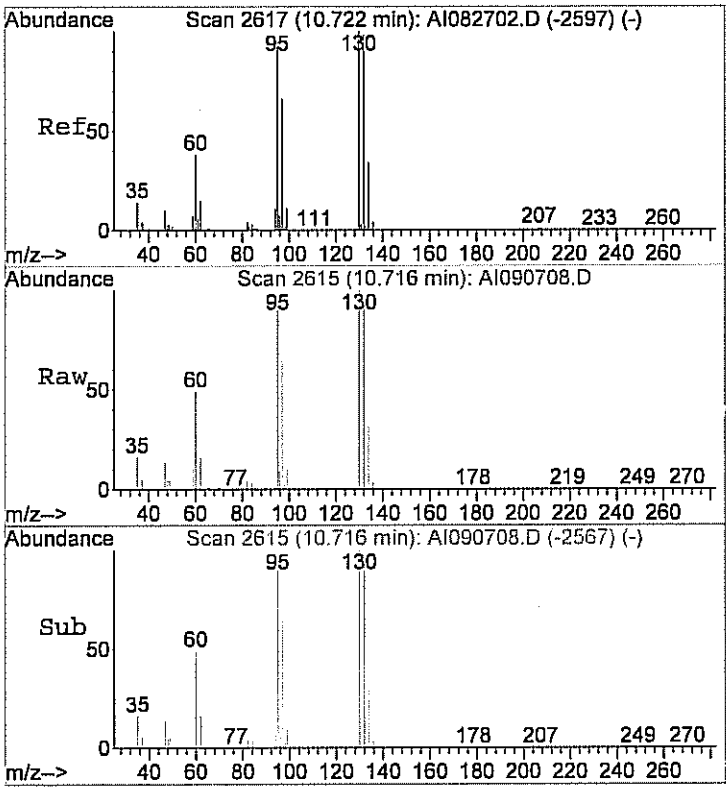


#40
Heptane
Concen: 1.00 ppb
RT: 10.63 min Scan# 2586
Delta R.T. 0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 43 Resp: 14811

Ion	Ratio	Lower	Upper
43	100		
57	56.1	32.1	72.1
71	54.3	35.5	75.5

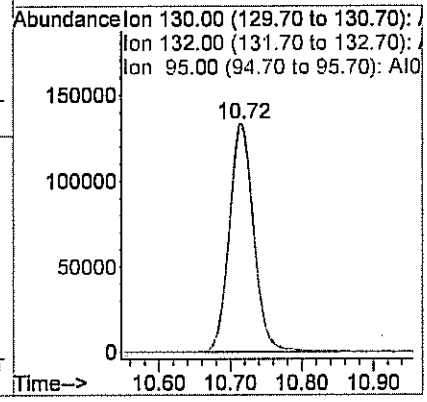


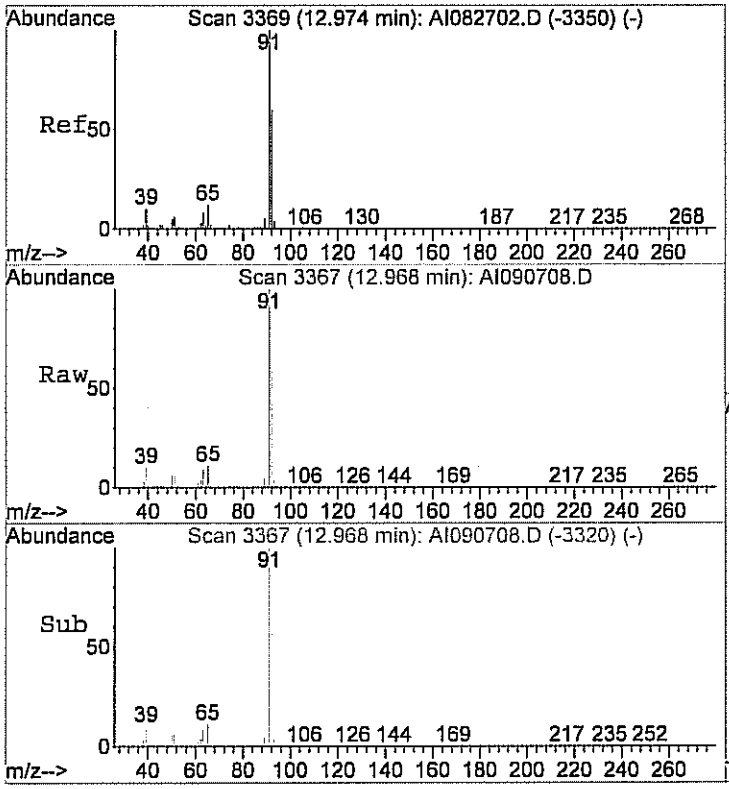


#41
Trichloroethene
Concen: 12.94 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:130 Resp: 320516

Ion	Ratio	Lower	Upper
130	100		
132	97.2	79.0	119.0
95	98.3	76.8	116.8

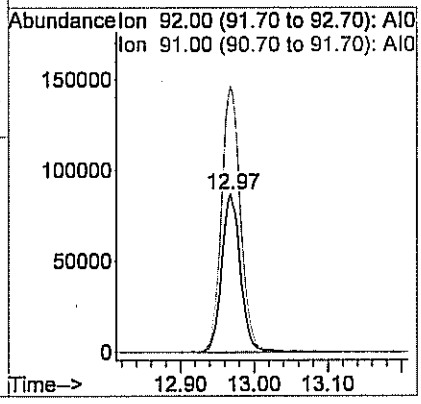


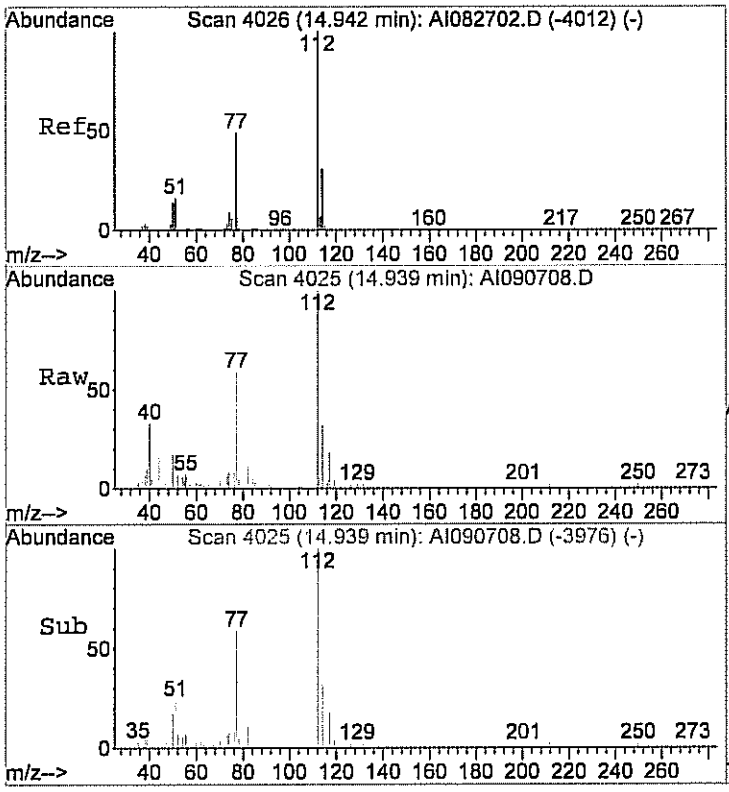


#48
Toluene
Concen: 5.64 ppb
RT: 12.97 min Scan# 3367
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 92 Resp: 153473

Ion	Ratio	Lower	Upper
92	100		
91	171.0	159.8	199.8

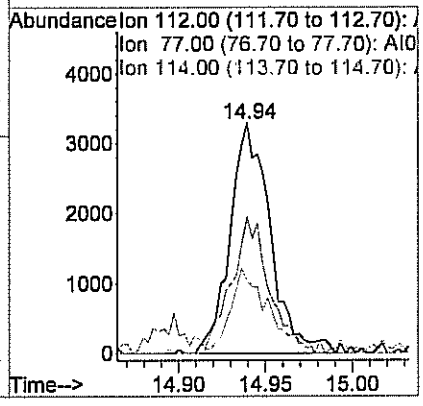


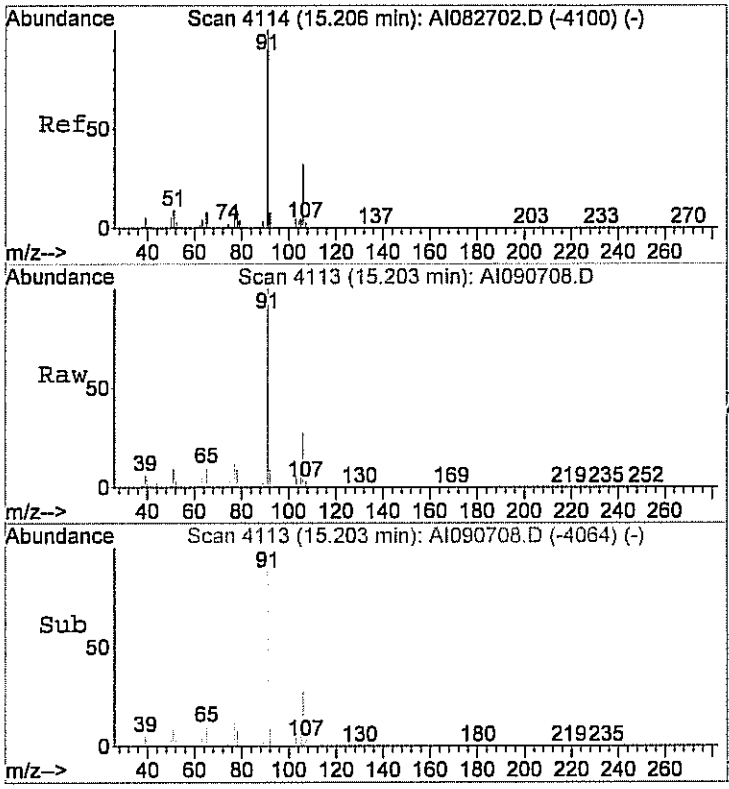


#54
Chlorobenzene
Concen: 0.12 ppb
RT: 14.94 min Scan# 4025
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:112 Resp: 5284

Ion	Ratio	Lower	Upper
112	100		
77	55.8	32.4	72.4
114	35.0	13.1	53.1

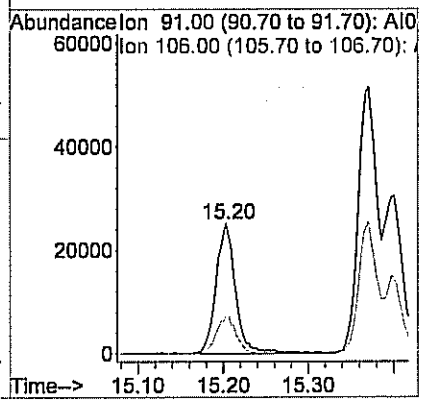


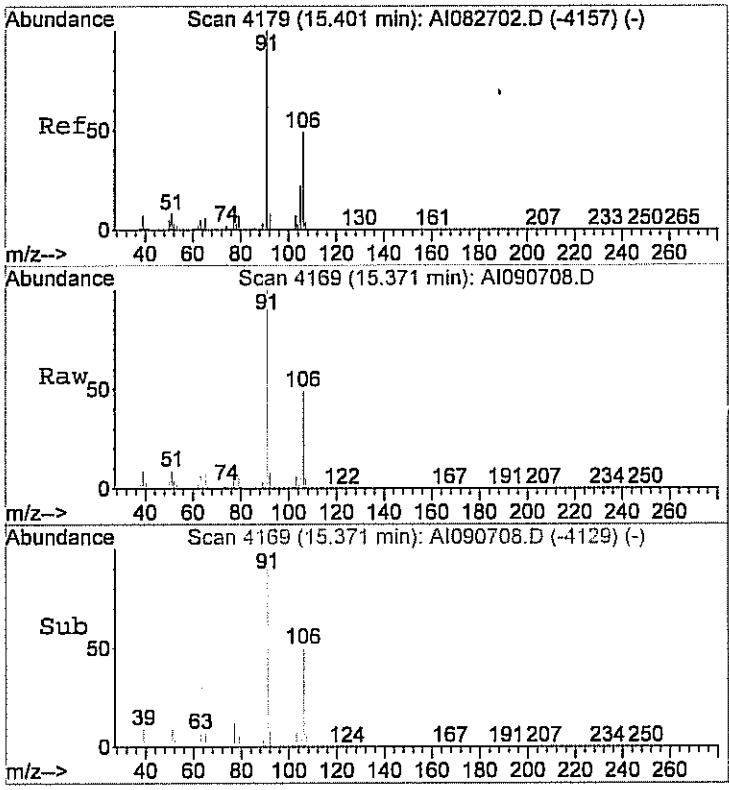


#55
Ethylbenzene
Concen: 0.73 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 91 Resp: 40448

Ion	Ratio	Lower	Upper
91	100		
106	29.8	10.7	50.7

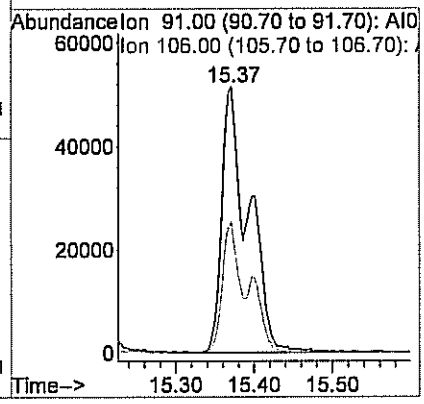


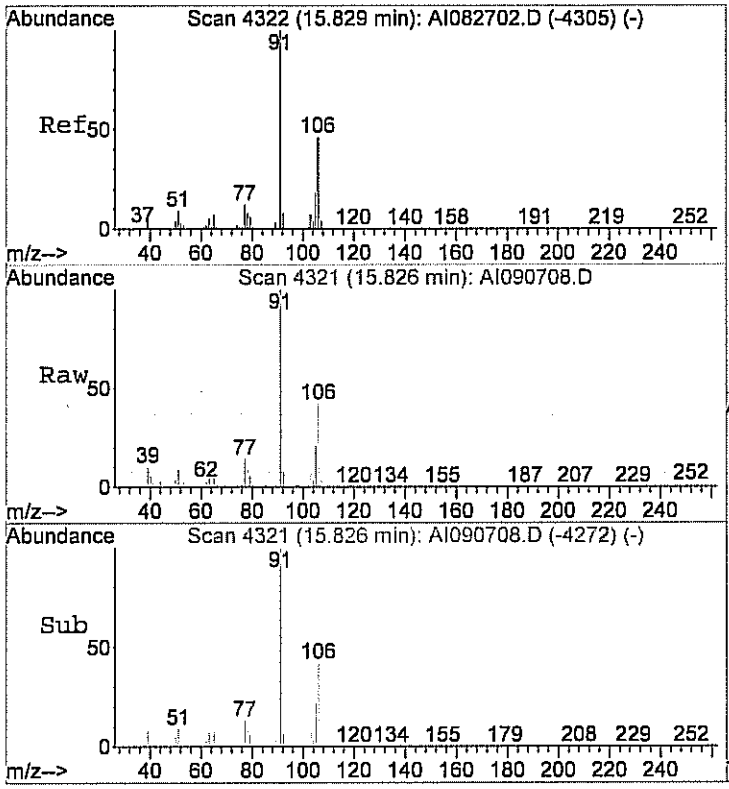


#56
m&p-xylene
Concen: 2.68 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 91 Resp: 122035

Ion	Ratio	Lower	Upper
91	100		
106	47.6	27.5	67.5

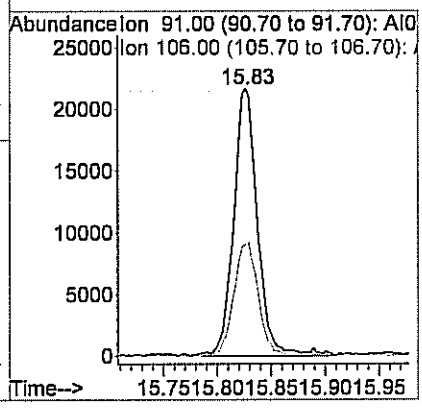


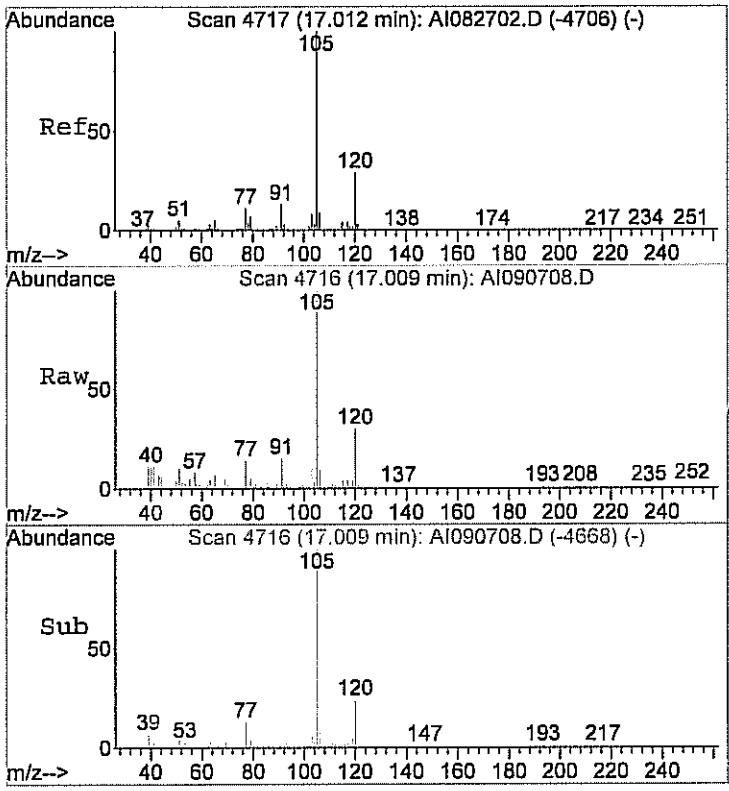


#59
o-xylene
Concen: 0.63 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion: 91 Resp: 33245

Ion	Ratio	Lower	Upper
91	100		
106	44.5	26.2	66.2

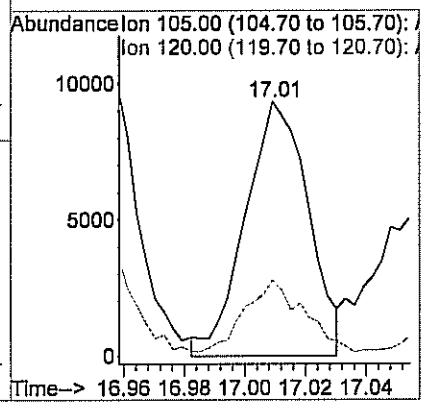


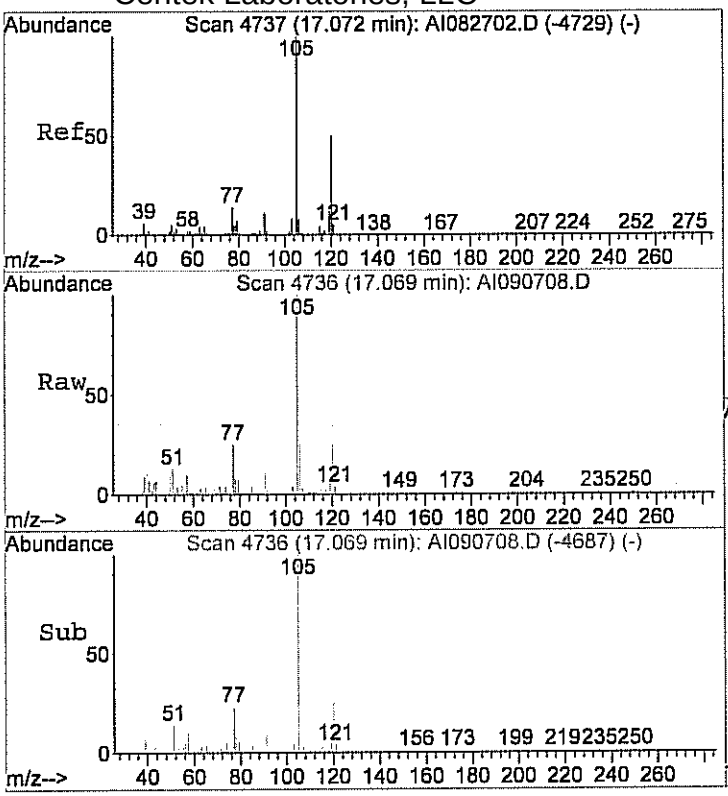


#63
4-ethyltoluene
Concen: 0.31 ppb m
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:105 Resp: 13426

Ion	Ratio	Lower	Upper
105	100		
120	33.9	8.1	48.1

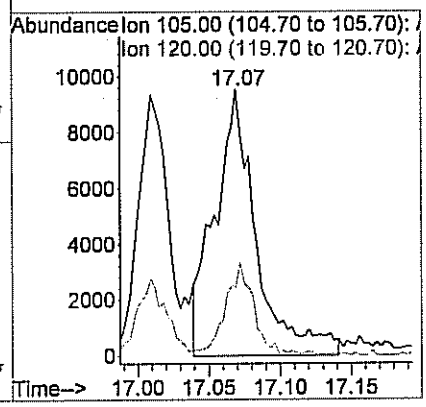


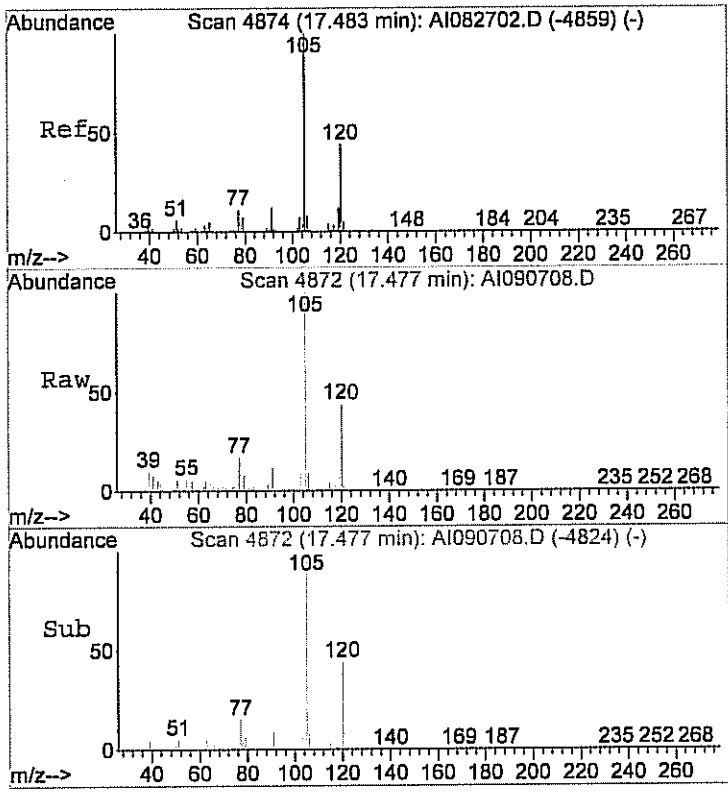


#64
1,3,5-trimethylbenzene
Concen: 0.40 ppb m
RT: 17.07 min Scan# 4736
Delta R.T. -0.00 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:105 Resp: 19247

Ion	Ratio	Lower	Upper
105	100		
120	34.4	26.2	66.2

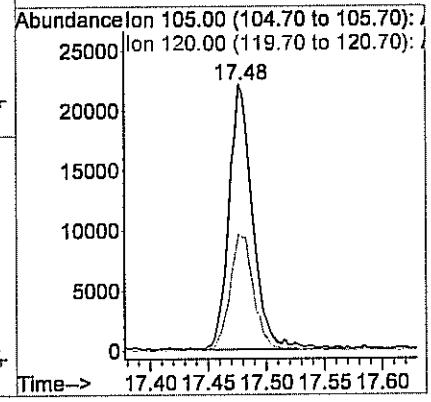




#65
1,2,4-trimethylbenzene
Concen: 0.81 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090708.D
Acq: 7 Sep 2011 3:09 pm

Tgt Ion:105 Resp: 31140

Ion	Ratio	Lower	Upper
105	100		
120	44.6	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090726.D Vial: 46
Acq On : 8 Sep 2011 1:02 am Operator: RJP
Sample : C1108077-002A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 01:23:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

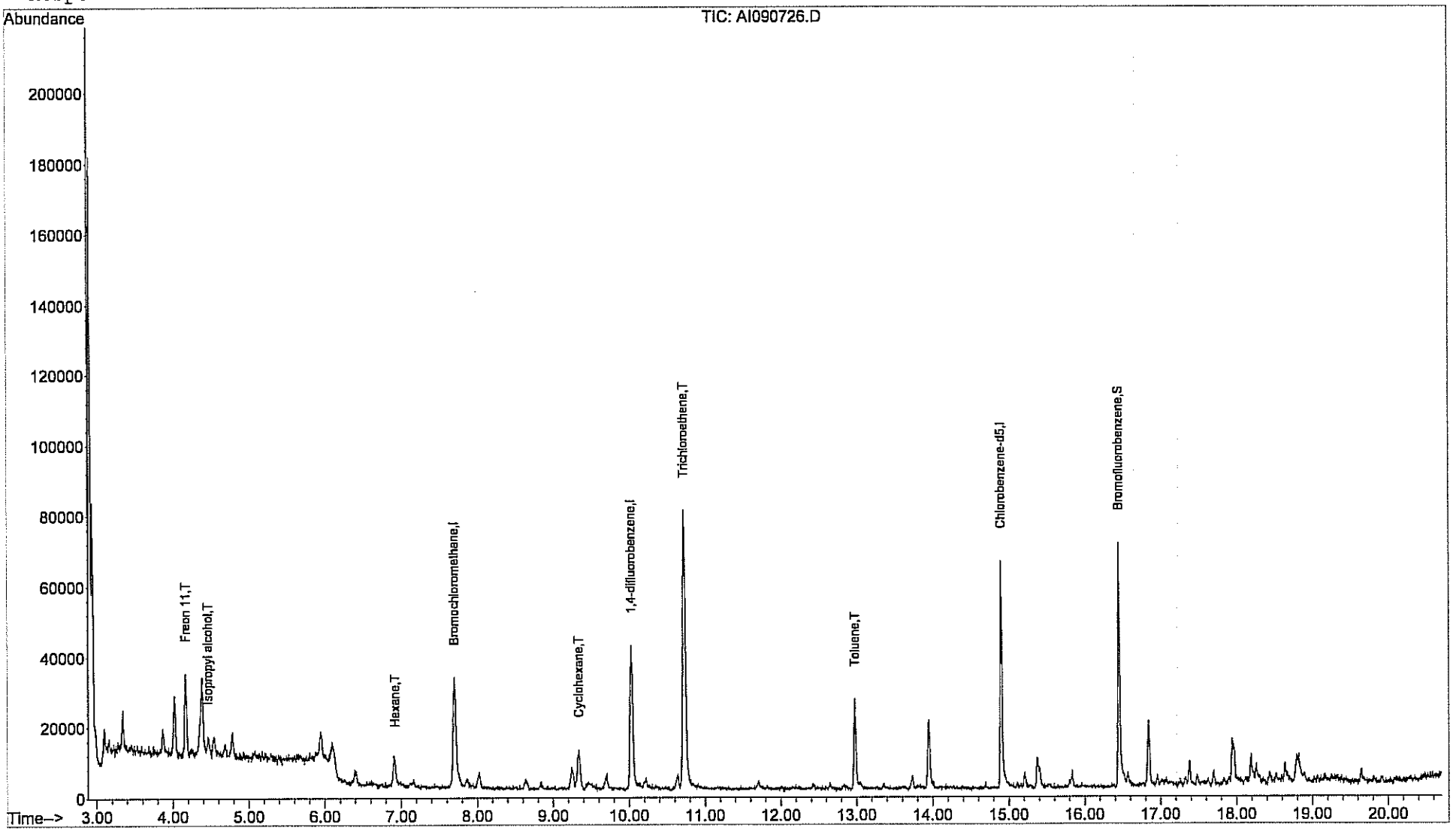
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13219	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	44475	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	39557	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	23043	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
13) Freon 11	4.17	101	16655	0.38	ppb		99
15) Isopropyl alcohol	4.46	45	5736	0.60	ppb	#	100
27) Hexane	6.92	57	3753m	0.23	ppb		
34) Cyclohexane	9.33	56	4146	0.29	ppb	#	70
41) Trichloroethene	10.72	130	35740	1.54	ppb		100
48) Toluene	12.97	92	11697	0.45	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

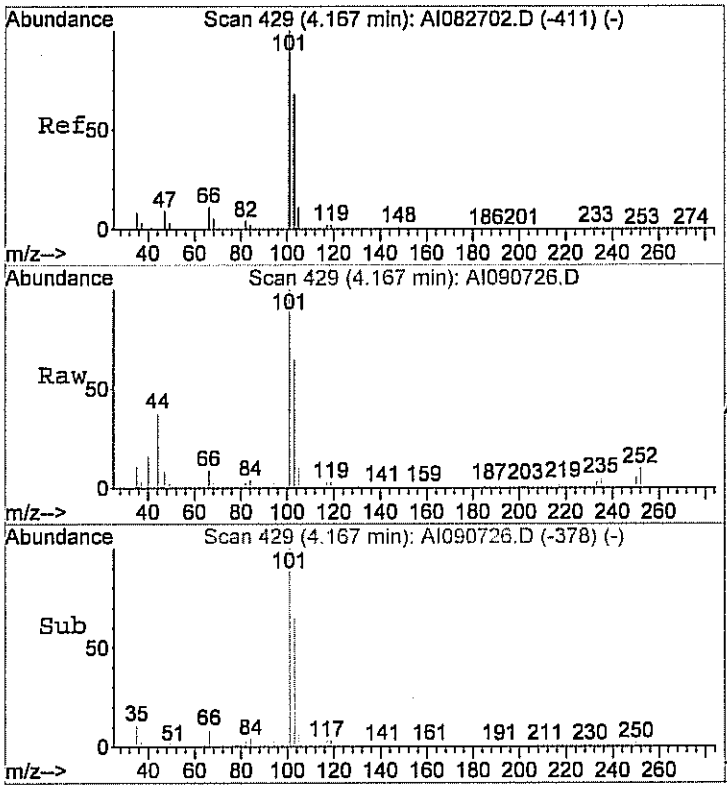
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090726.D Vial: 46
Acq On : 8 Sep 2011 1:02 am Operator: RJP
Sample : C1108077-002A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:55 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



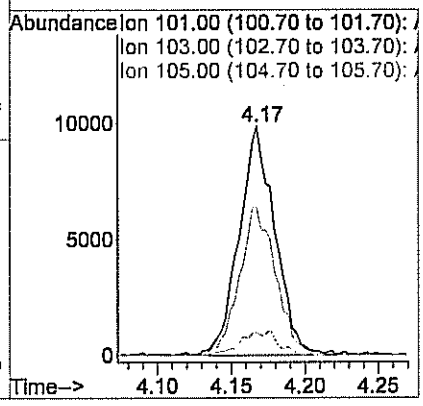
Centek Laboratories, LLC

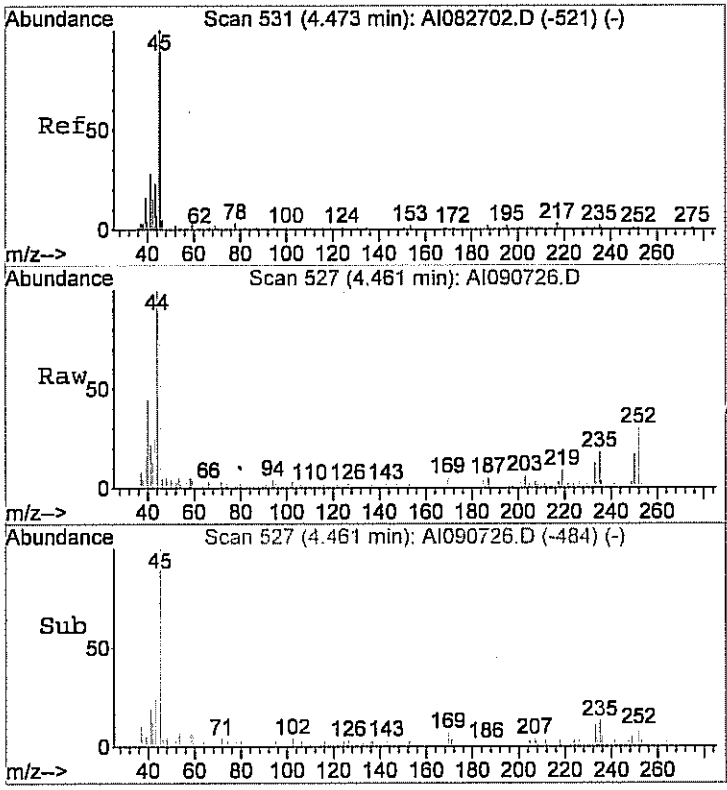


#13
Freon 11
Concen: 0.38 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion:101 Resp: 16655

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.9	84.9
105	11.0	0.0	30.9

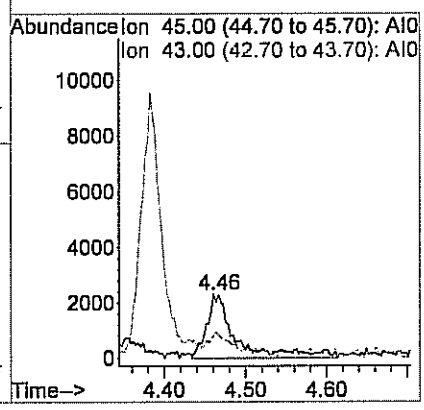


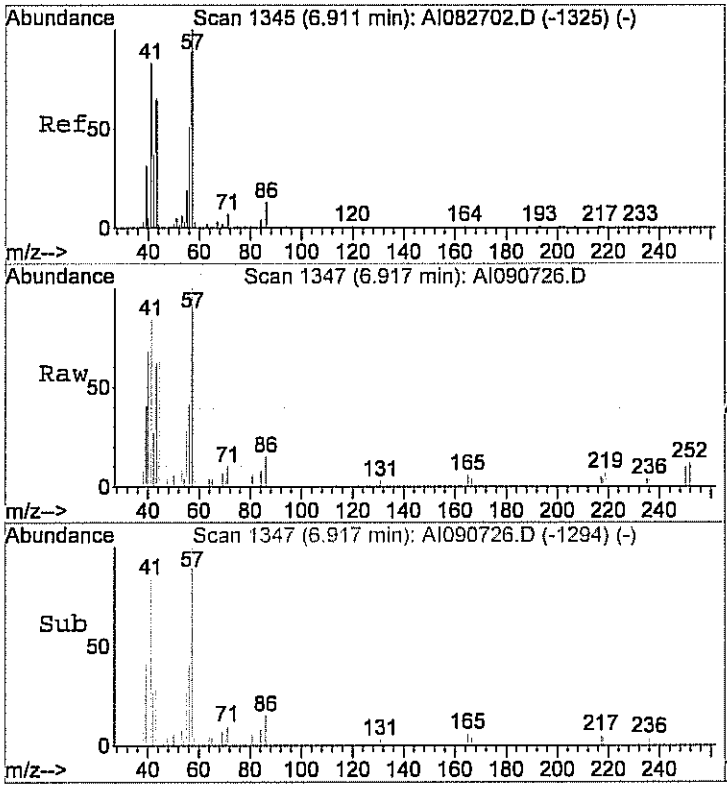


#15
Isopropyl alcohol
Concen: 0.60 ppb
RT: 4.46 min Scan# 527
Delta R.T. -0.02 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion: 45 Resp: 5736

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

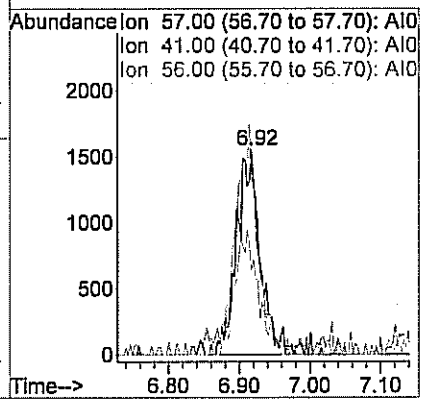


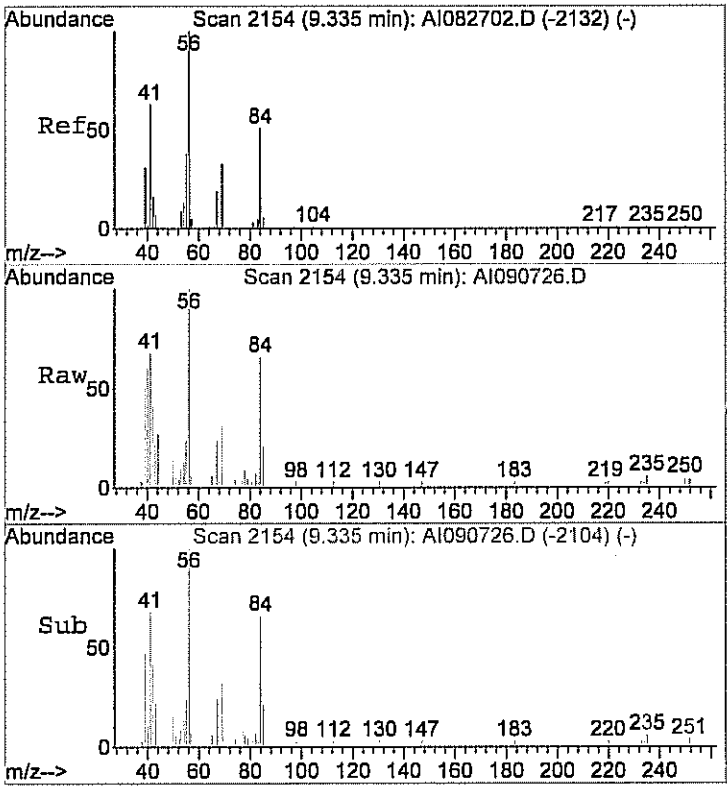


#27
Hexane
Concen: 0.23 ppb m
RT: 6.92 min Scan# 1347
Delta R.T. 0.01 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion: 57 Resp: 3753

Ion	Ratio	Lower	Upper
57	100		
41	95.8	75.5	115.5
56	54.3	35.9	75.9

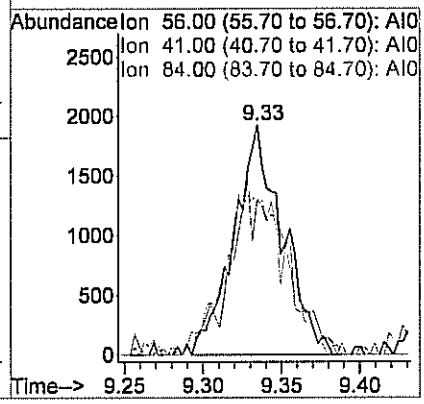


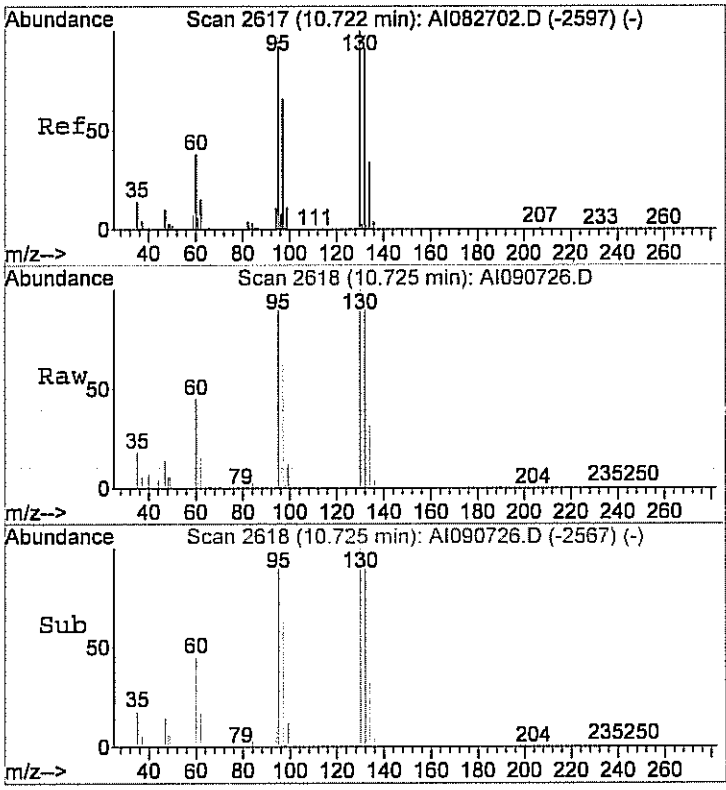


#34
Cyclohexane
Concen: 0.29 ppb
RT: 9.33 min Scan# 2154
Delta R.T. 0.00 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion: 56 Resp: 4146

Ion	Ratio	Lower	Upper
56	100		
41	79.2	49.1	89.1
84	87.4	114.6	154.6#

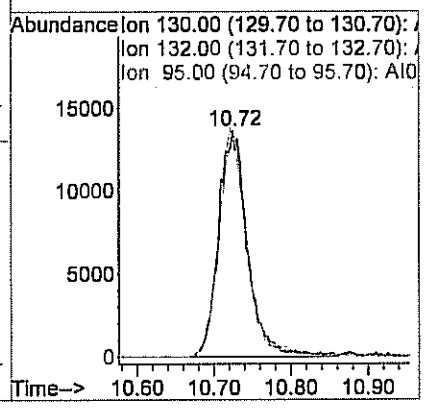


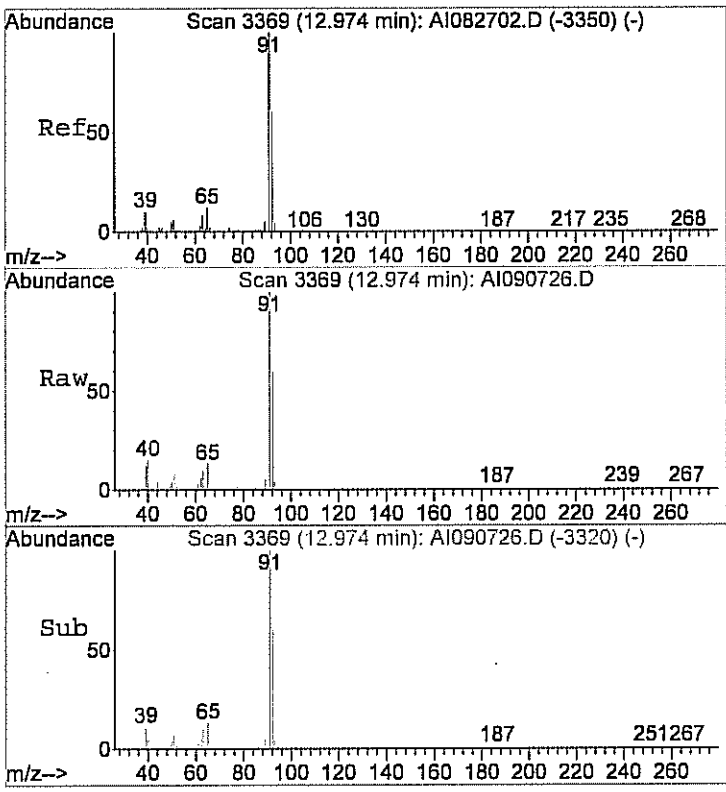


#41
Trichloroethene
Concen: 1.54 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion:130 Resp: 35740

Ion	Ratio	Lower	Upper
130	100		
132	98.4	79.0	119.0
95	97.0	76.8	116.8

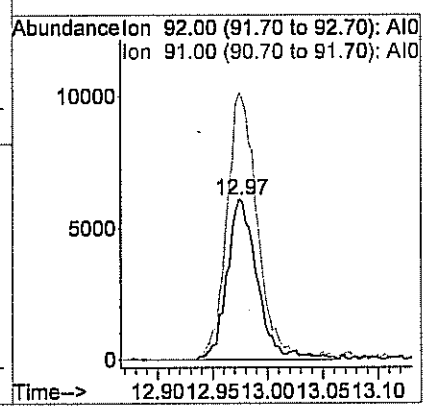




#48
Toluene
Concen: 0.45 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090726.D
Acq: 8 Sep 2011 1:02 am

Tgt Ion: 92 Resp: 11697

Ion	Ratio	Lower	Upper
92	100		
91	168.6	159.8	199.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	0.12	0.15	J	ppbV	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	0.36	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	0.49	0.15		ppbV	1	9/7/2011 3:42:00 PM
4-ethyltoluene	0.33	0.15		ppbV	1	9/7/2011 3:42:00 PM
Acetone	8.0	3.0		ppbV	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzene	1.2	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon disulfide	0.44	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.18	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Cyclohexane	3.1	1.5		ppbV	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 11	20	1.5		ppbV	10	9/8/2011 1:35:00 AM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 3:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 12	0.52	0.15		ppbV	1	9/7/2011 3:42:00 PM
Heptane	0.84	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexane	2.1	0.15		ppbV	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
o-Xylene	0.73	0.15		ppbV	1	9/7/2011 3:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Styrene	0.32	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Toluene	4.2	1.5		ppbV	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Trichloroethene	2.0	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	0.67	0.83	J	ug/m3	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	4.1	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	1.8	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	2.3	0.71		ug/m3	1	9/7/2011 3:42:00 PM
4-ethyltoluene	1.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Acetone	19	7.2		ug/m3	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:42:00 PM
Benzene	3.8	0.49		ug/m3	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:42:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.84	0.70		ug/m3	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:42:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Cyclohexane	11	5.2		ug/m3	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
Ethylbenzene	3.6	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Freon 11	120	8.6		ug/m3	10	9/8/2011 1:35:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 3:42:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Heptane	3.5	0.62		ug/m3	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Hexane	7.5	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 3:42:00 PM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:42:00 PM
o-Xylene	3.2	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:42:00 PM
Styrene	1.4	0.65		ug/m3	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:42:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Trichloroethene	11	0.82		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:42:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090709.D Vial: 29
Acq On : 7 Sep 2011 3:42 pm Operator: RJP
Sample : C1108077-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 16:03:14 2011 Quant Results File: A826_1UG.RES

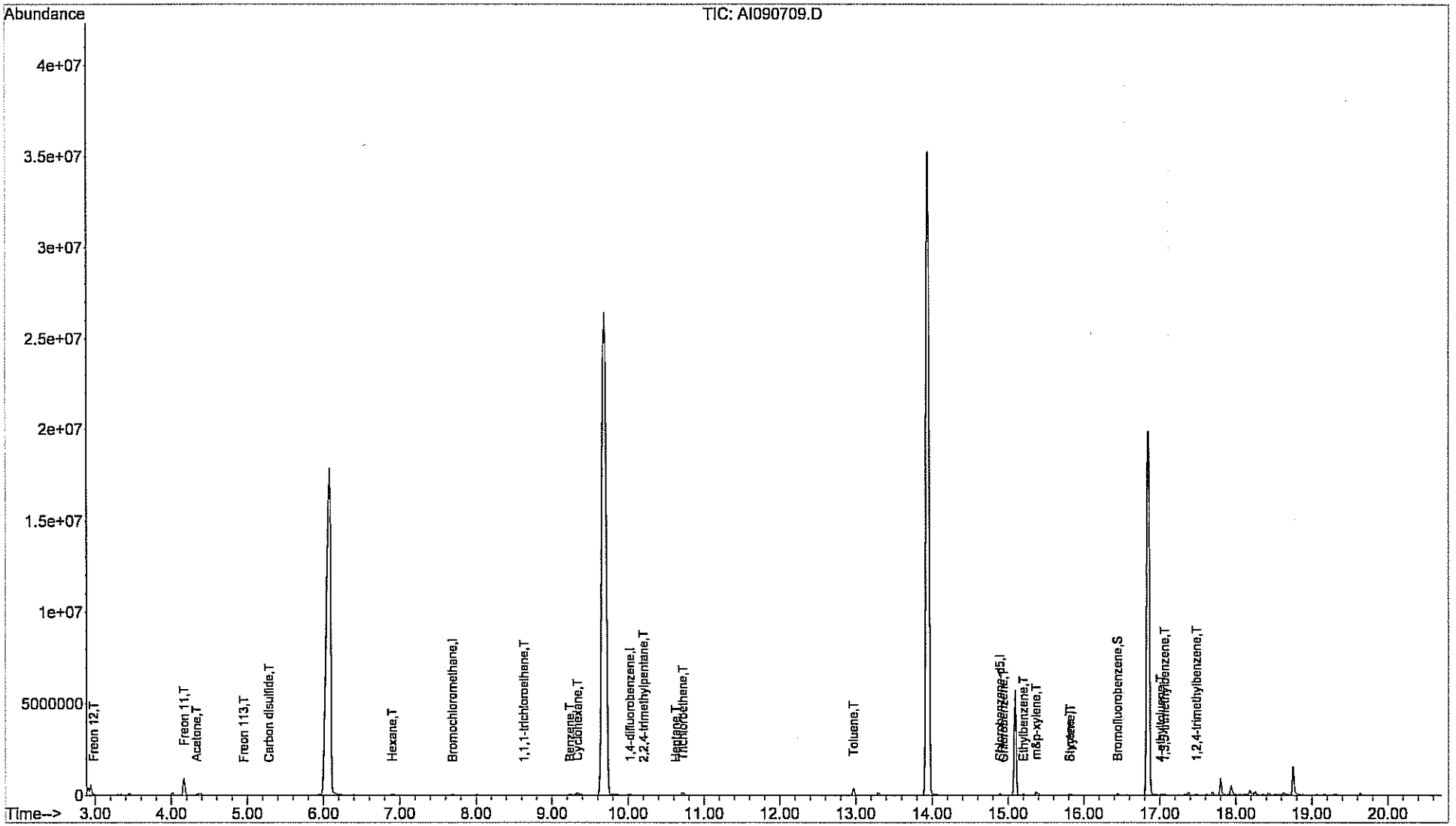
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13978	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	56781	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	49167	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	28615	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	30833	0.52	ppb		95
13) Freon 11	4.17	101	708174	15.27	ppb		99
14) Acetone	4.33	58	26628	5.40	ppb	#	53
17) Freon 113	4.94	101	3288	0.10	ppb		97
20) Carbon disulfide	5.28	76	17453	0.44	ppb		95
27) Hexane	6.91	57	35828	2.10	ppb		96
33) 1,1,1-trichloroethane	8.64	97	5021	0.12	ppb		97
34) Cyclohexane	9.35	56	82191	4.43	ppb	#	47
36) Benzene	9.24	78	57506	1.18	ppb		93
39) 2,2,4-trimethylpentane	10.20	57	25310	0.49	ppb		83
40) Heptane	10.63	43	14928	0.84	ppb		94
41) Trichloroethene	10.72	130	59529	2.01	ppb		99
48) Toluene	12.97	92	162995	5.08	ppb		92
54) Chlorobenzene	14.94	112	9106	0.18	ppb		97
55) Ethylbenzene	15.20	91	53972	0.82	ppb		99
56) m&p-xylene	15.37	91	144669	2.69	ppb		99
57) Styrene	15.80	104	10297	0.32	ppb		74
59) o-xylene	15.83	91	45651	0.73	ppb		99
63) 4-ethyltoluene	17.01	105	16825m	0.33	ppb		
64) 1,3,5-trimethylbenzene	17.07	105	20290m	0.36	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	37126	0.82	ppb		98

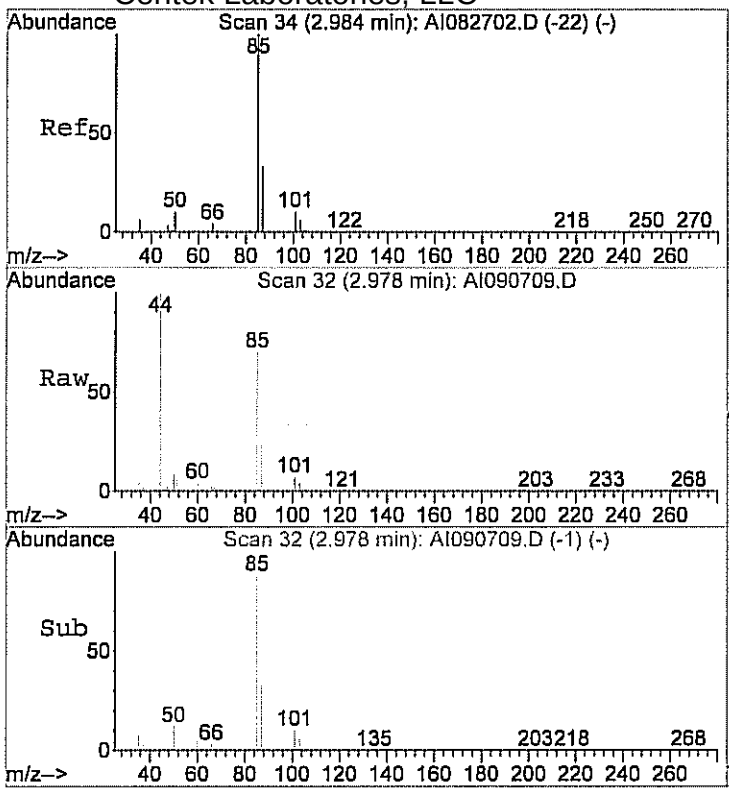
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090709.D Vial: 29
Acq On : 7 Sep 2011 3:42 pm Operator: RJP
Sample : C1108077-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:14 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



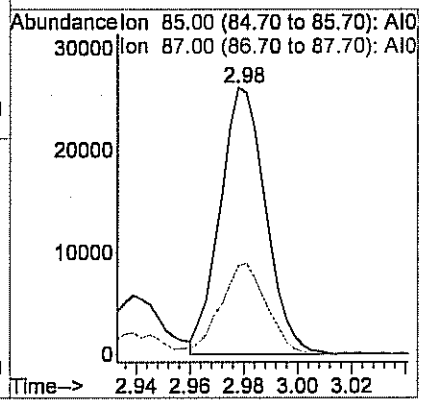
Centek Laboratories, LLC

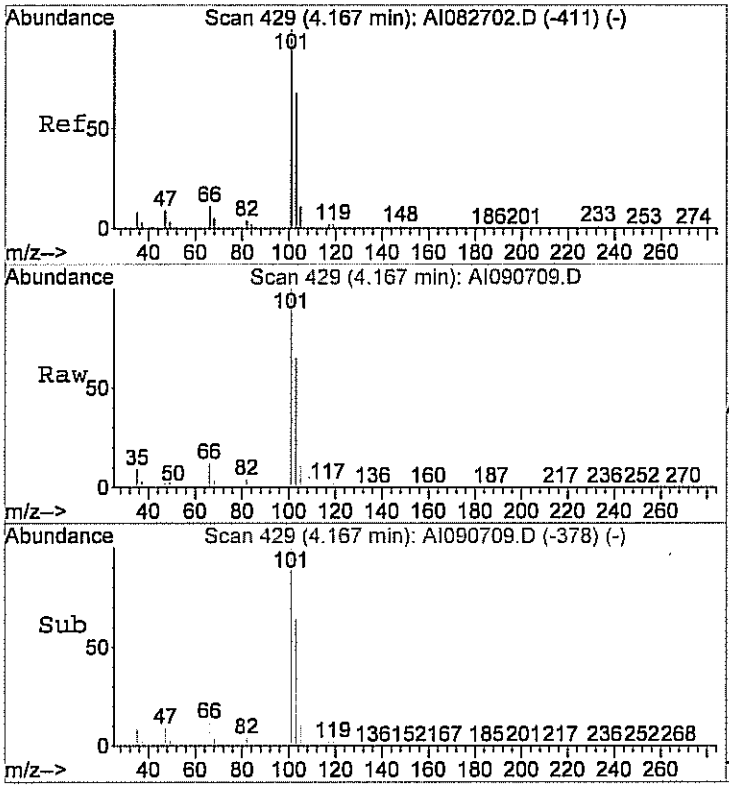


#3
Freon 12
Concen: 0.52 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 85 Resp: 30833

Ion	Ratio	Lower	Upper
85	100		
87	34.7	12.2	52.2

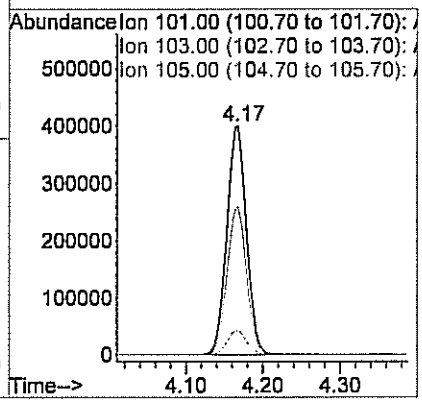


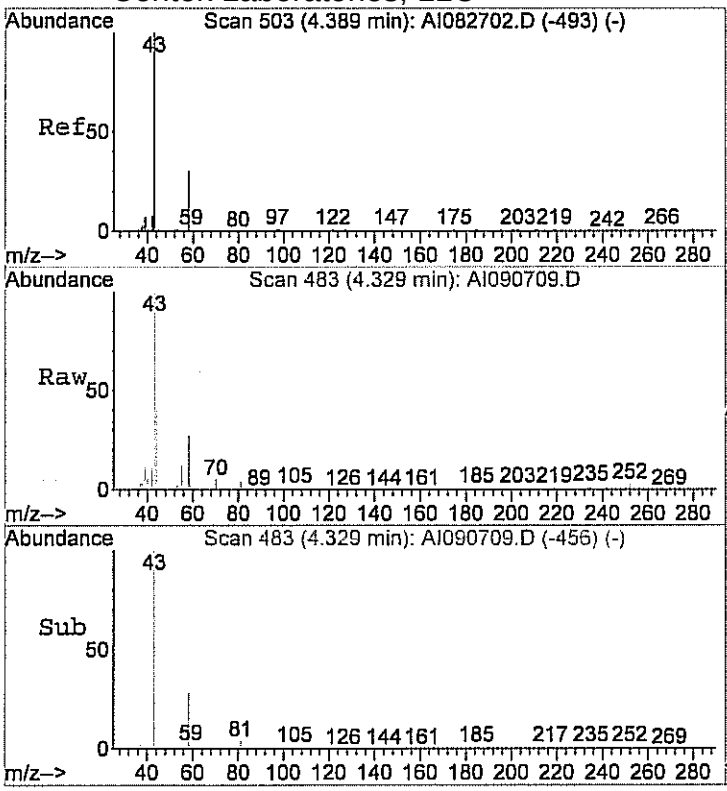


#13
Freon 11
Concen: 15.27 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:101 Resp: 708174

Ion	Ratio	Lower	Upper
101	100		
103	65.4	44.9	84.9
105	10.7	0.0	30.9

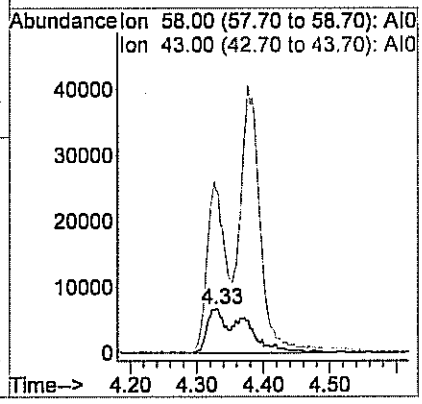


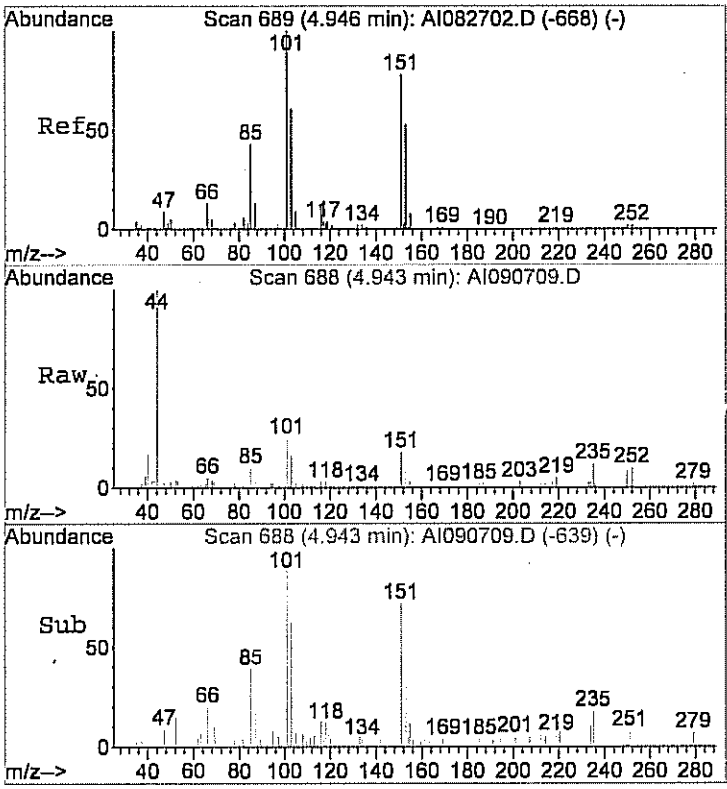


#14
Acetone
Concen: 5.40 ppb
RT: 4.33 min Scan# 483
Delta R.T. -0.07 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 58 Resp: 26628

Ion	Ratio	Lower	Upper
58	100		
43	500.1	360.8	420.8#

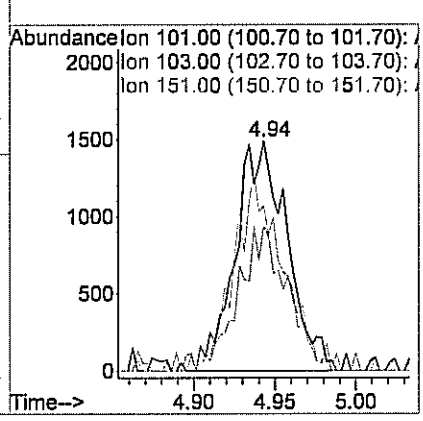


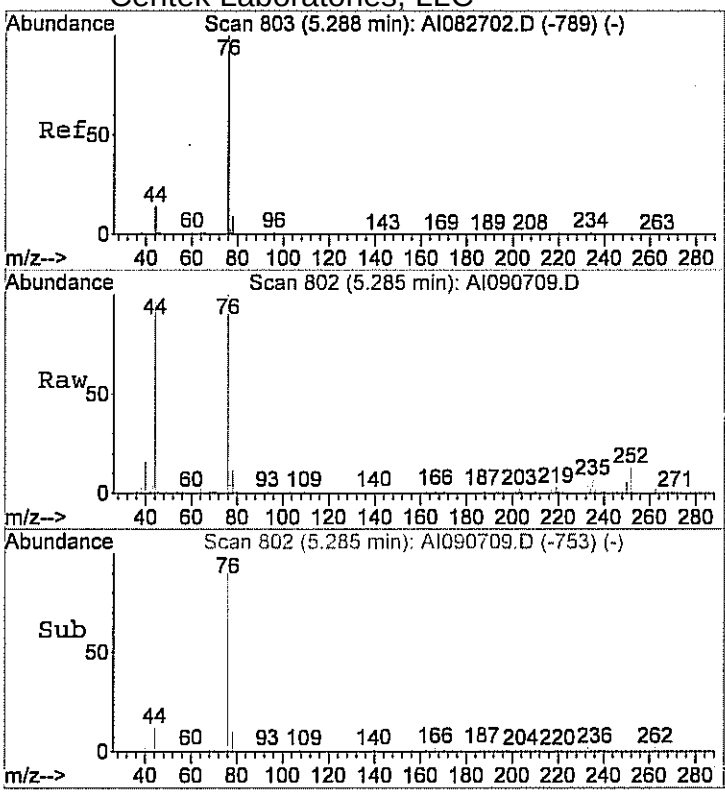


#17
Freon 113
Concen: 0.10 ppb
RT: 4.94 min Scan# 688
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:101 Resp: 3288

Ion	Ratio	Lower	Upper
101	100		
103	61.4	44.3	84.3
151	78.1	61.0	101.0

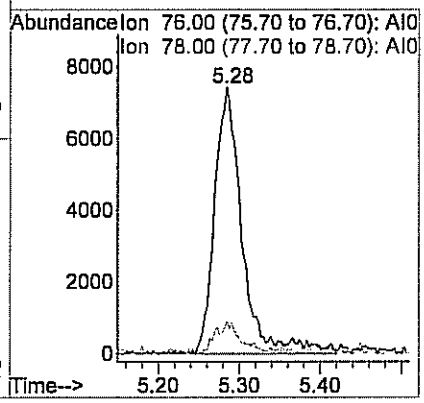


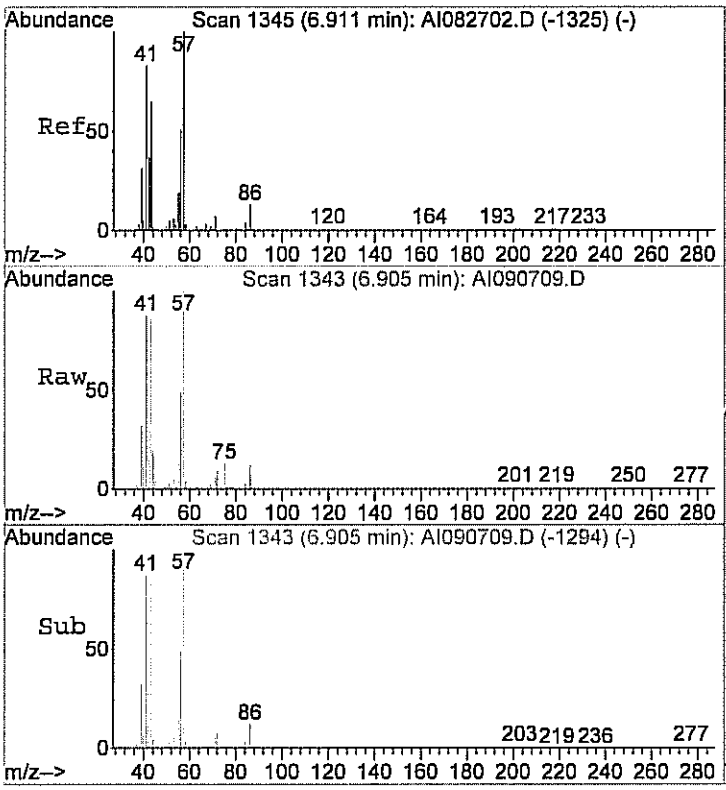


#20
Carbon disulfide
Concen: 0.44 ppb
RT: 5.28 min Scan# 802
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 76 Resp: 17453

Ion	Ratio	Lower	Upper
76	100		
78	11.4	0.0	29.6

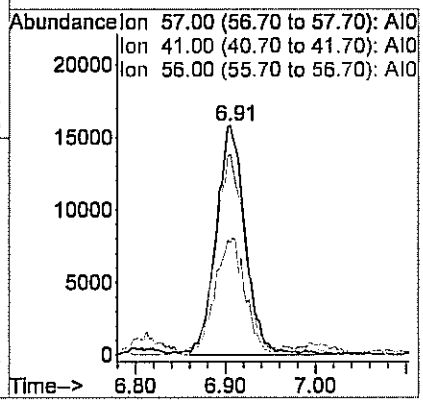


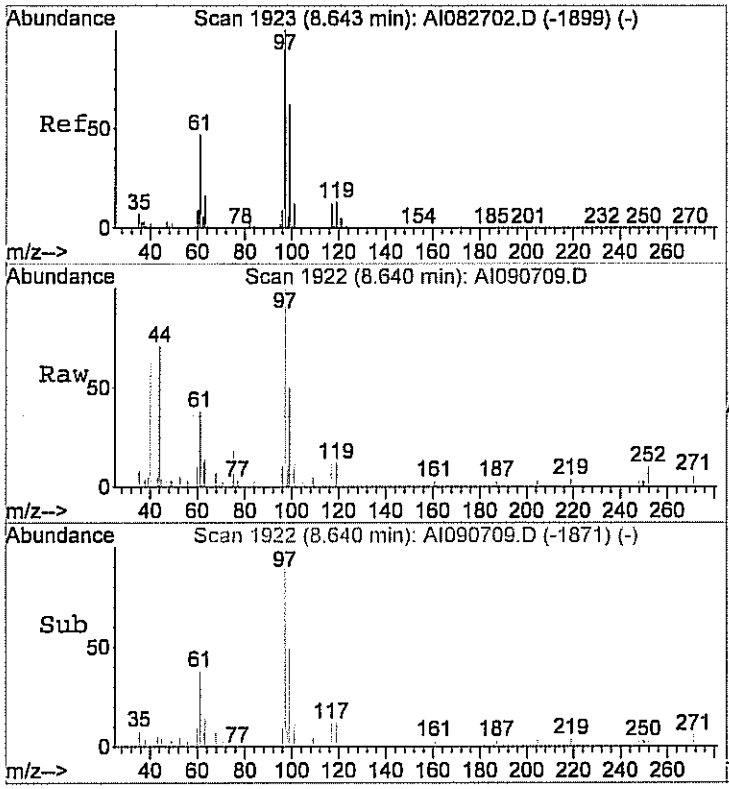


#27
Hexane
Concen: 2.10 ppb
RT: 6.91 min Scan# 1343
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 57 Resp: 35828

Ion	Ratio	Lower	Upper
57	100		
41	91.6	75.5	115.5
56	53.5	35.9	75.9

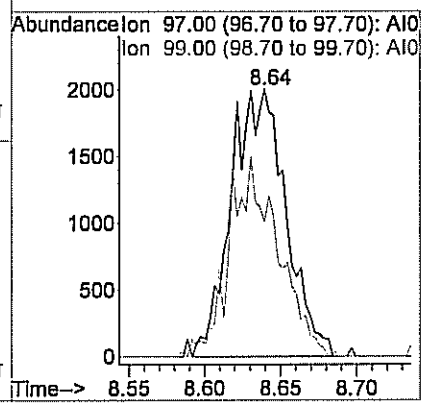


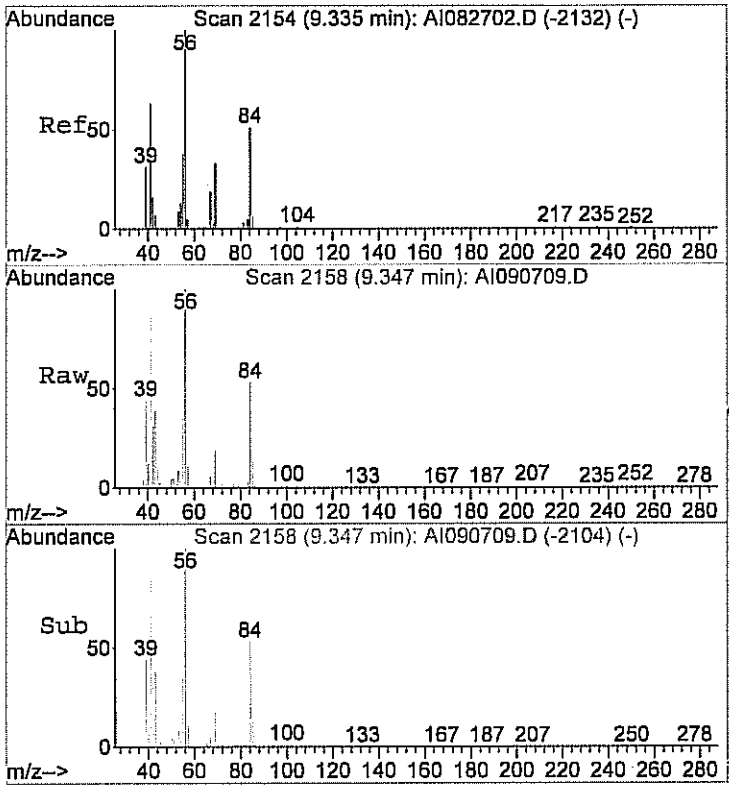


#33
1,1,1-trichloroethane
Concen: 0.12 ppb
RT: 8.64 min Scan# 1922
Delta R.T. 0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 97 Resp: 5021

Ion	Ratio	Lower	Upper
97	100		
99	66.5	43.8	83.8

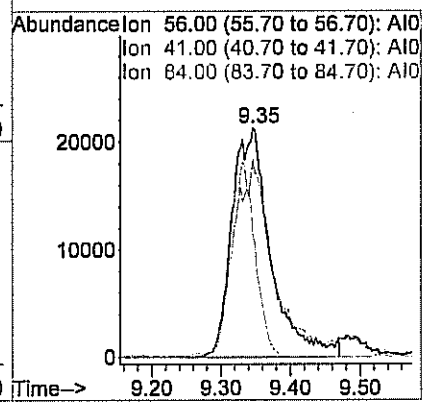


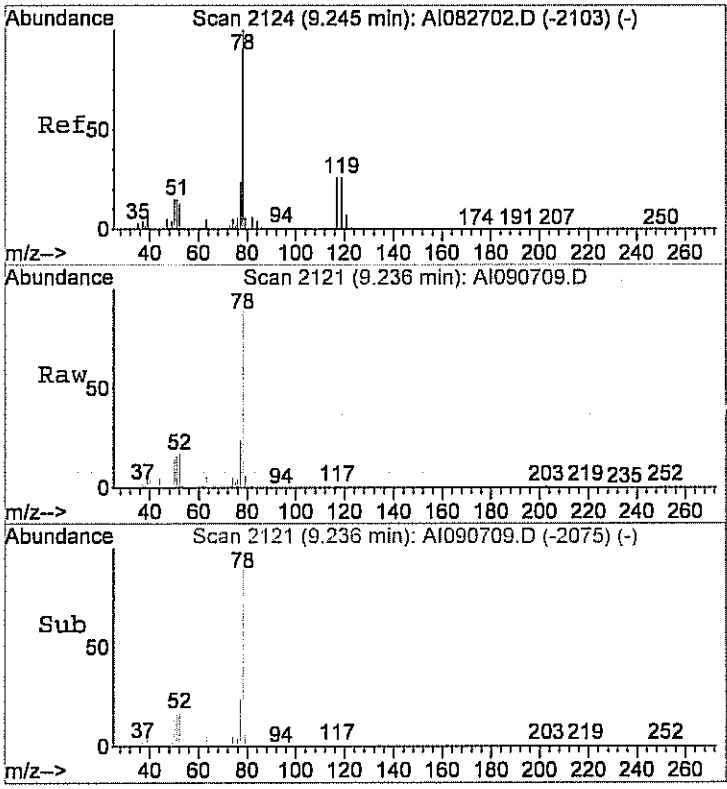


#34
Cyclohexane
Concen: 4.43 ppb
RT: 9.35 min Scan# 2158
Delta R.T. 0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 56 Resp: 82191

Ion	Ratio	Lower	Upper
56	100		
41	89.0	49.1	89.1
84	54.7	114.6	154.6#

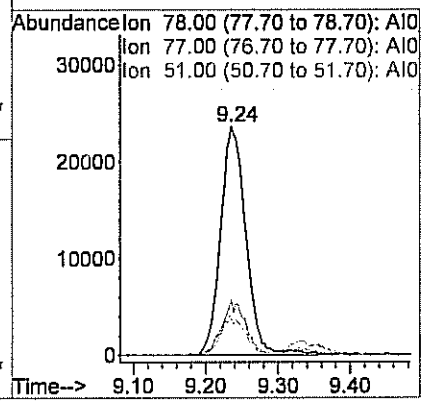


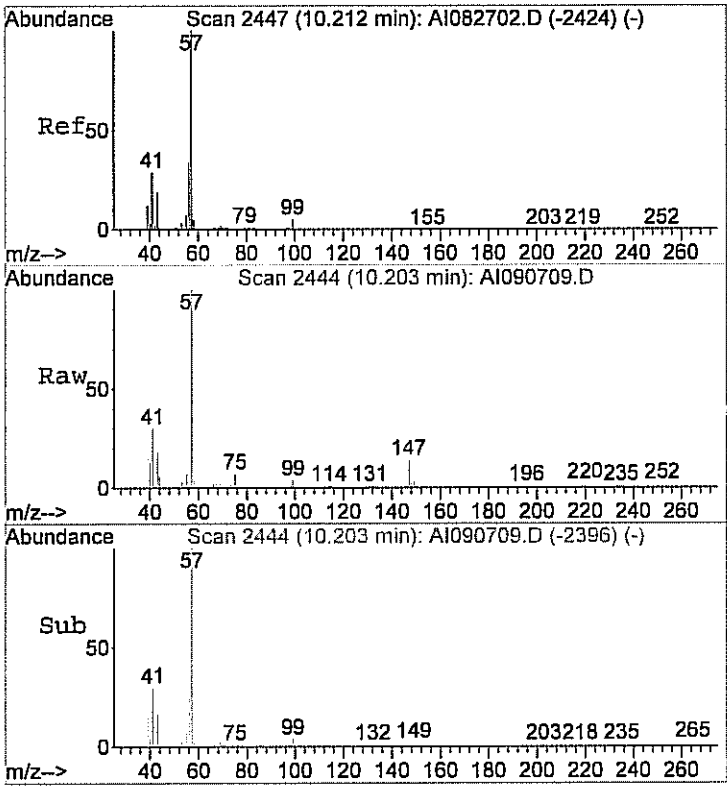


#36
Benzene
Concen: 1.18 ppb
RT: 9.24 min Scan# 2121
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 78 Resp: 57506

Ion	Ratio	Lower	Upper
78	100		
77	25.6	5.2	45.2
51	24.2	0.0	37.6

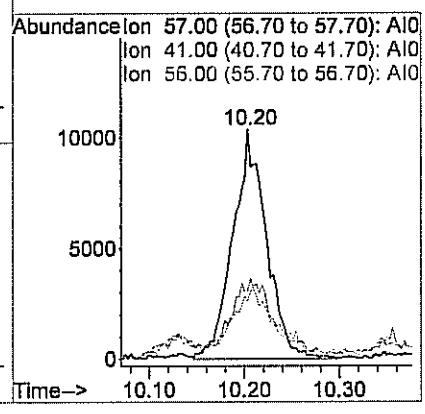


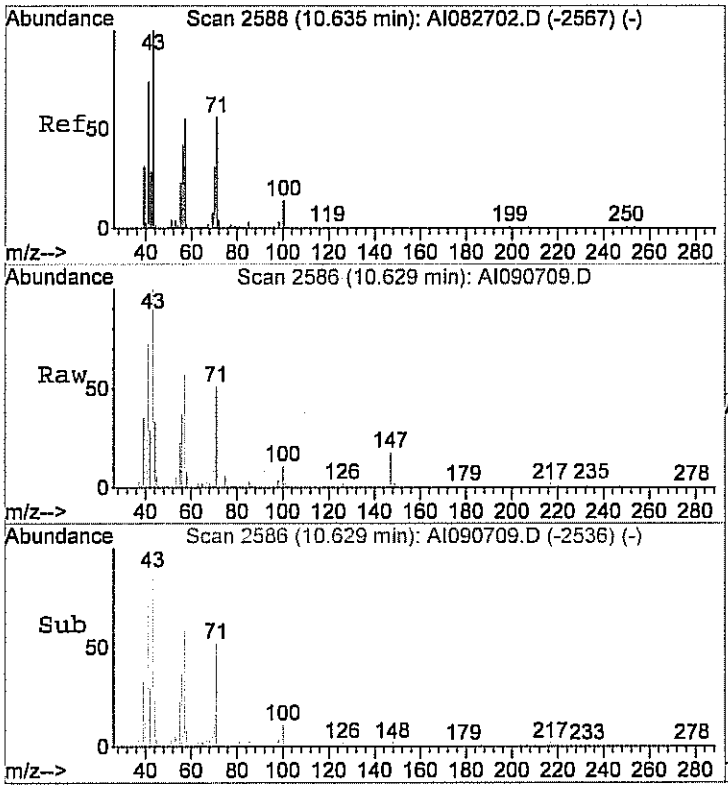


#39
2,2,4-trimethylpentane
Concen: 0.49 ppb
RT: 10.20 min Scan# 2444
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 57 Resp: 25310

Ion	Ratio	Lower	Upper
57	100		
41	32.4	17.9	57.9
56	48.7	13.7	53.7

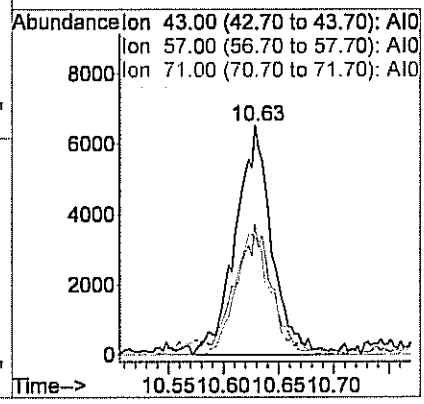


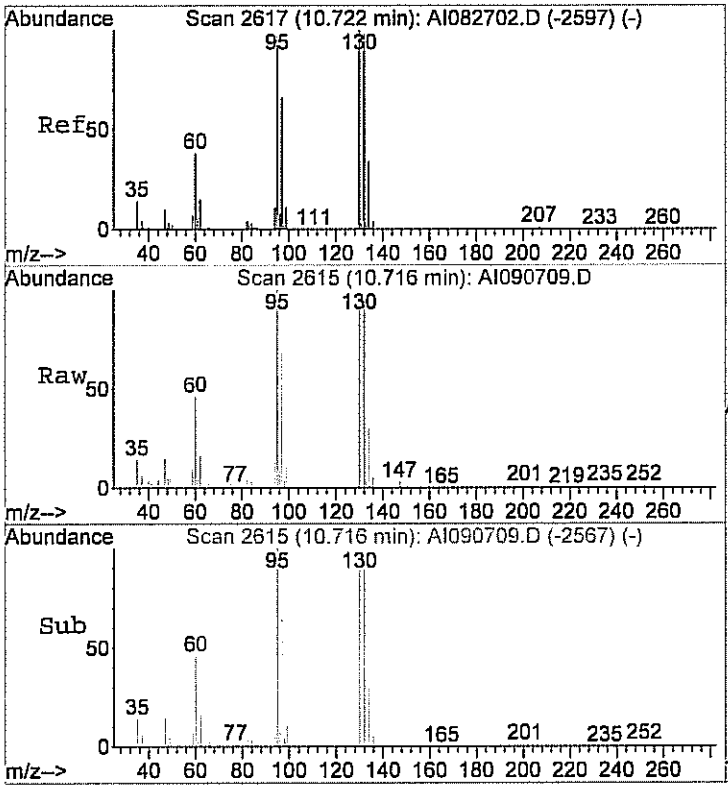


#40
Heptane
Concen: 0.84 ppb
RT: 10.63 min Scan# 2586
Delta R.T. 0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 43 Resp: 14928

Ion	Ratio	Lower	Upper
43	100		
57	57.4	32.1	72.1
71	52.6	35.5	75.5

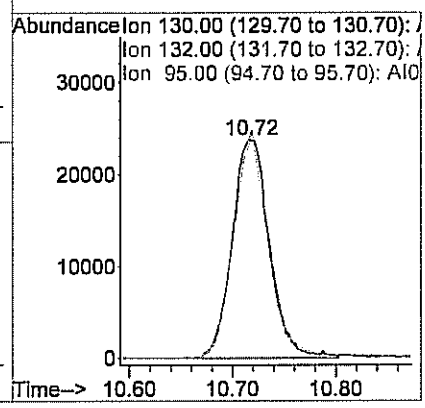


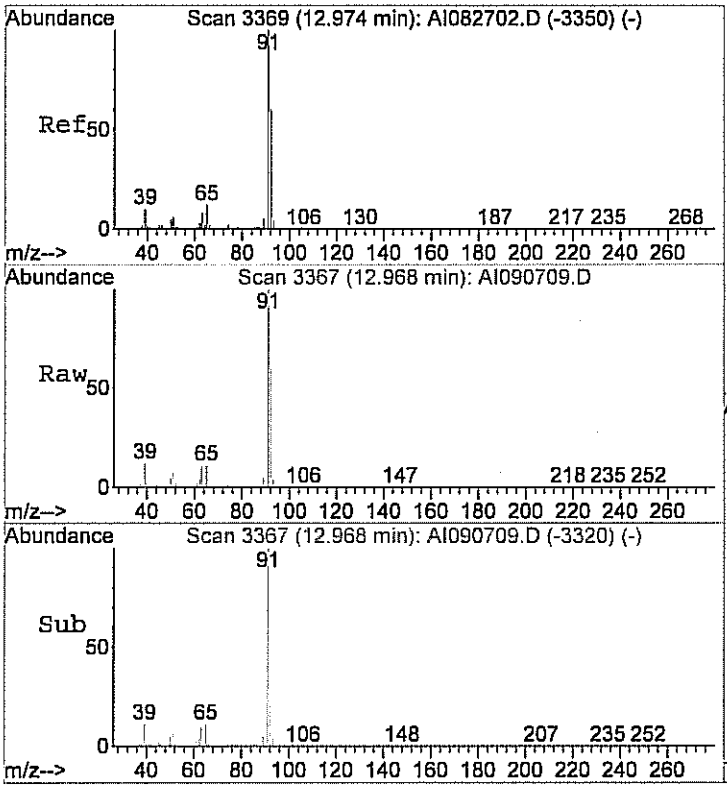


#41
Trichloroethene
Concen: 2.01 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:130 Resp: 59529

Ion	Ratio	Lower	Upper
130	100		
132	99.5	79.0	119.0
95	98.1	76.8	116.8

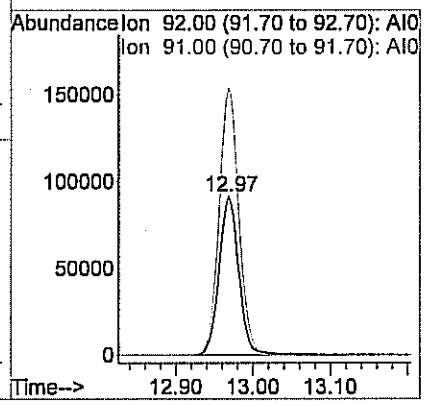


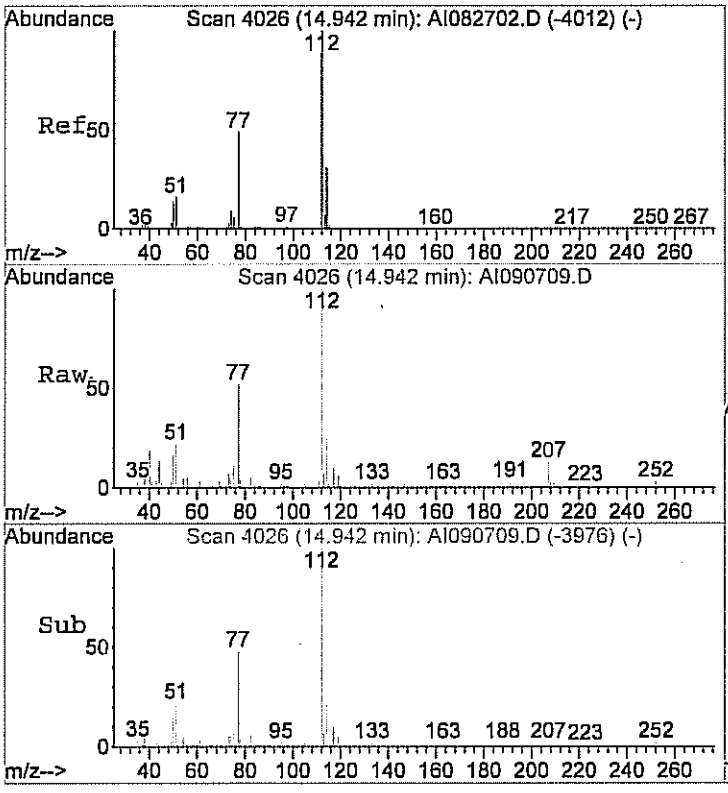


#48
Toluene
Concen: 5.08 ppb
RT: 12.97 min Scan# 3367
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 92 Resp: 162995

Ion	Ratio	Lower	Upper
92	100		
91	168.6	159.8	199.8

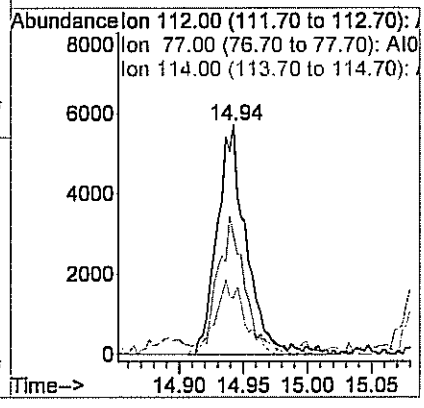


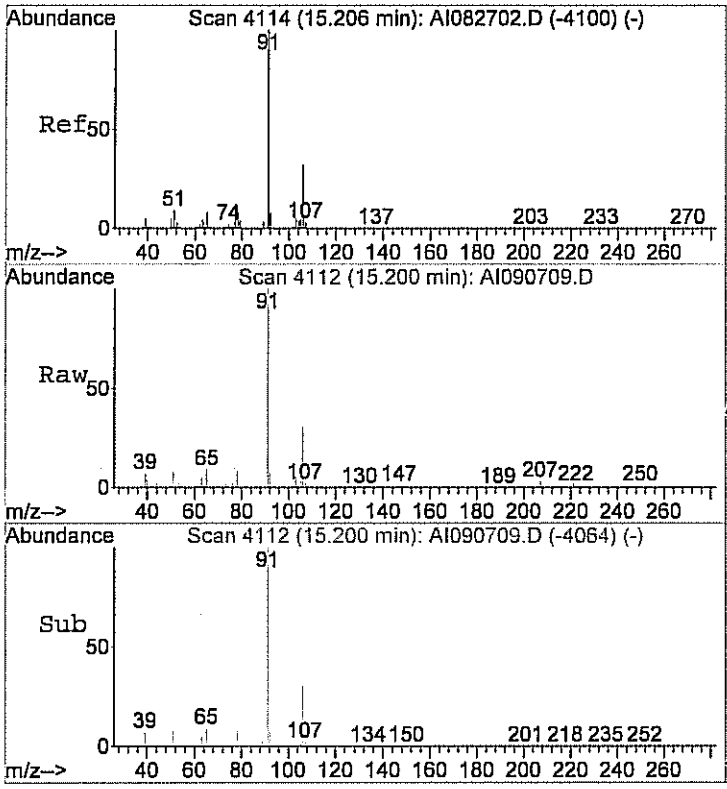


#54
Chlorobenzene
Concen: 0.18 ppb
RT: 14.94 min Scan# 4026
Delta R.T. 0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:112 Resp: 9106

Ion	Ratio	Lower	Upper
112	100		
77	51.2	32.4	72.4
114	30.9	13.1	53.1

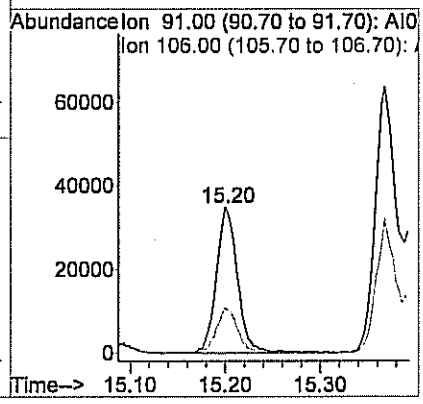


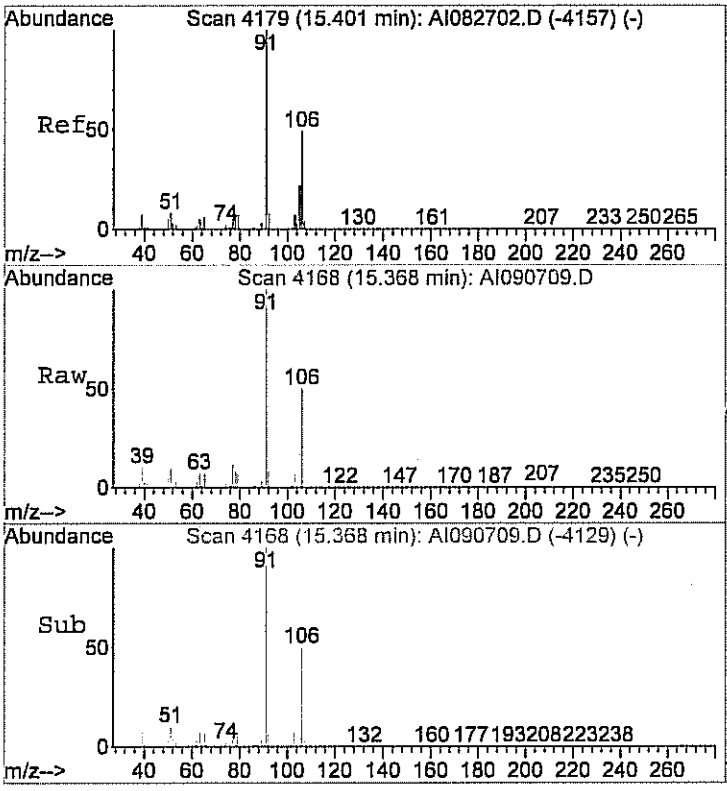


#55
Ethylbenzene
Concen: 0.82 ppb
RT: 15.20 min Scan# 4112
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 91 Resp: 53972

Ion	Ratio	Lower	Upper
91	100		
106	31.0	10.7	50.7

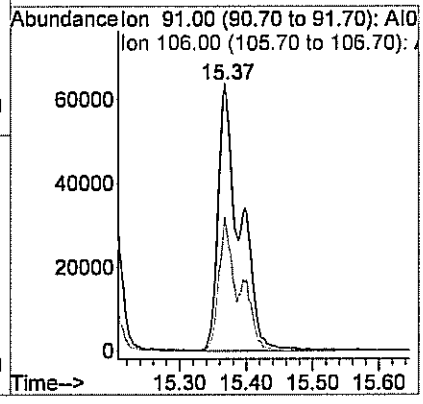


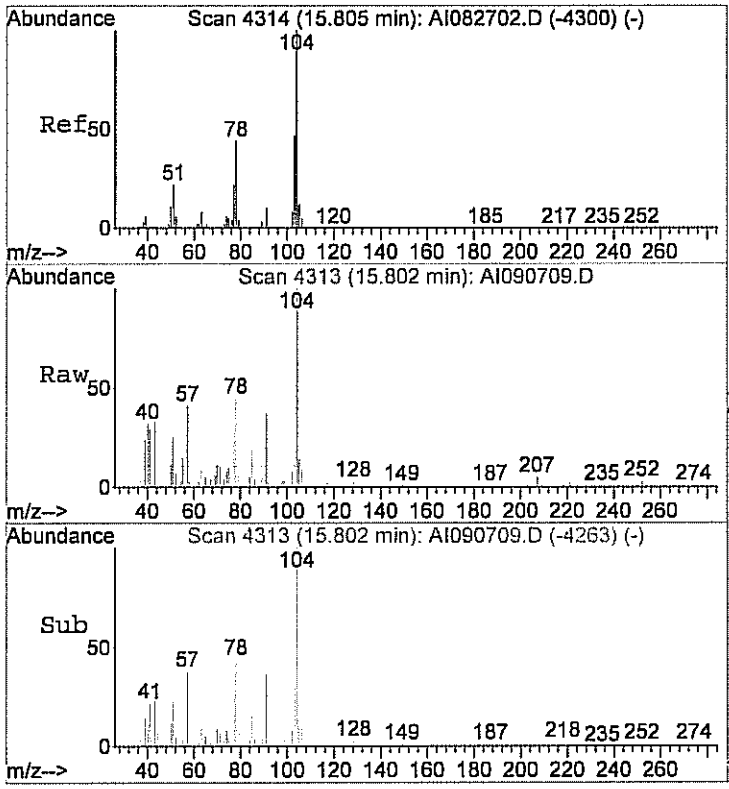


#56
m&p-xylene
Concen: 2.69 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 91 Resp: 144669

Ion	Ratio	Lower	Upper
91	100		
106	47.0	27.5	67.5

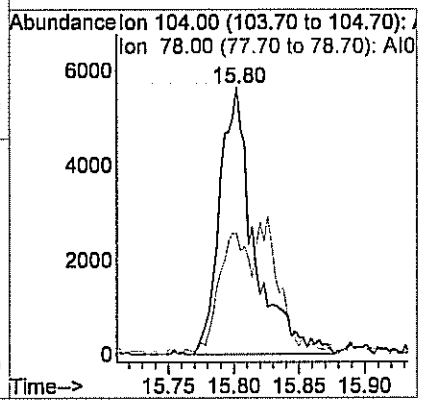


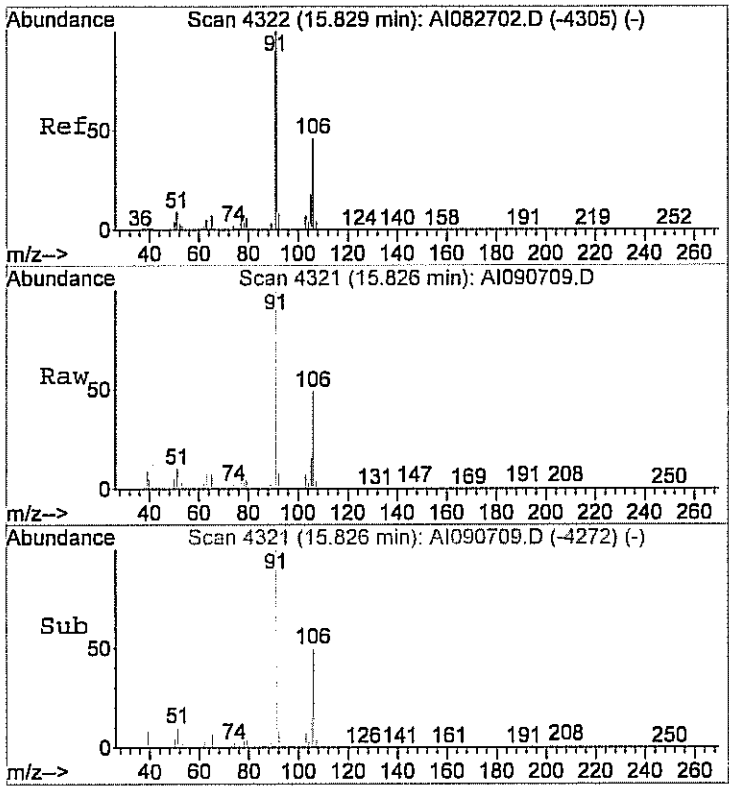


#57
Styrene
Concen: 0.32 ppb
RT: 15.80 min Scan# 4313
Delta R.T. 0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:104 Resp: 10297

Ion	Ratio	Lower	Upper
104	100		
78	75.9	36.7	76.7

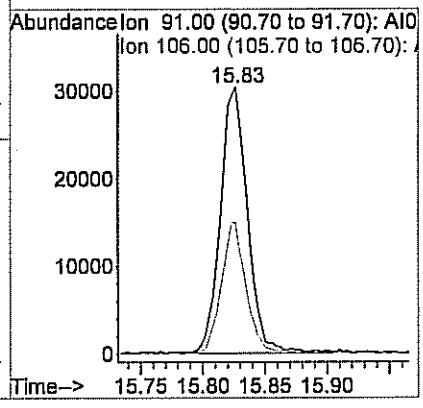


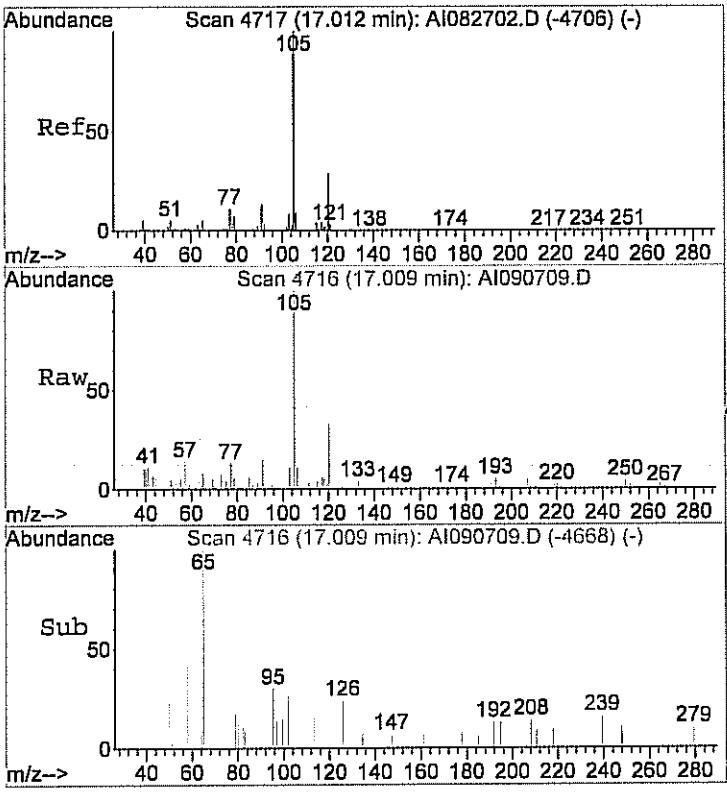


#59
o-xylene
Concen: 0.73 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion: 91 Resp: 45651

Ion	Ratio	Lower	Upper
91	100		
106	46.6	26.2	66.2

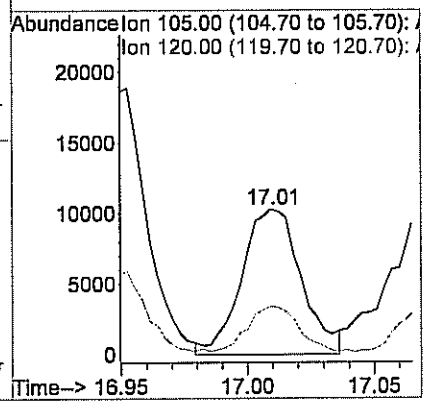


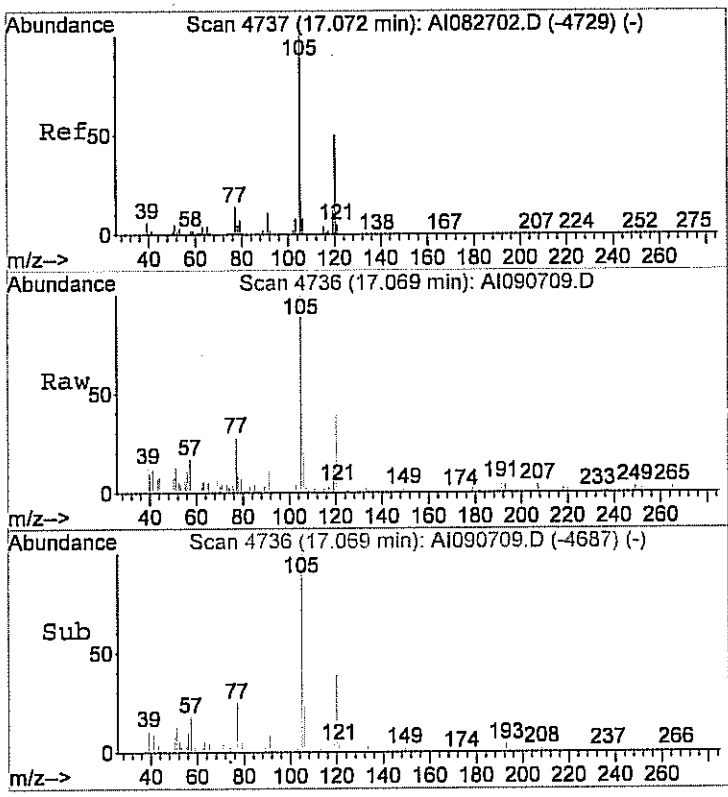


#63
4-ethyltoluene
Concen: 0.33 ppb m
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:105 Resp: 16825

Ion	Ratio	Lower	Upper
105	100		
120	29.6	8.1	48.1

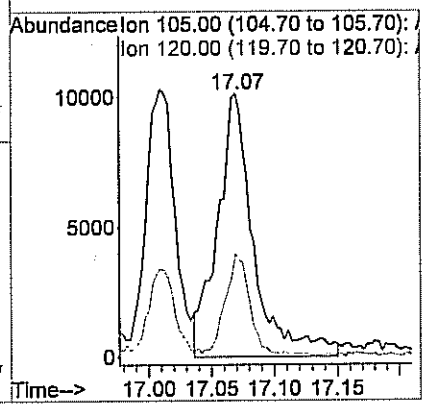


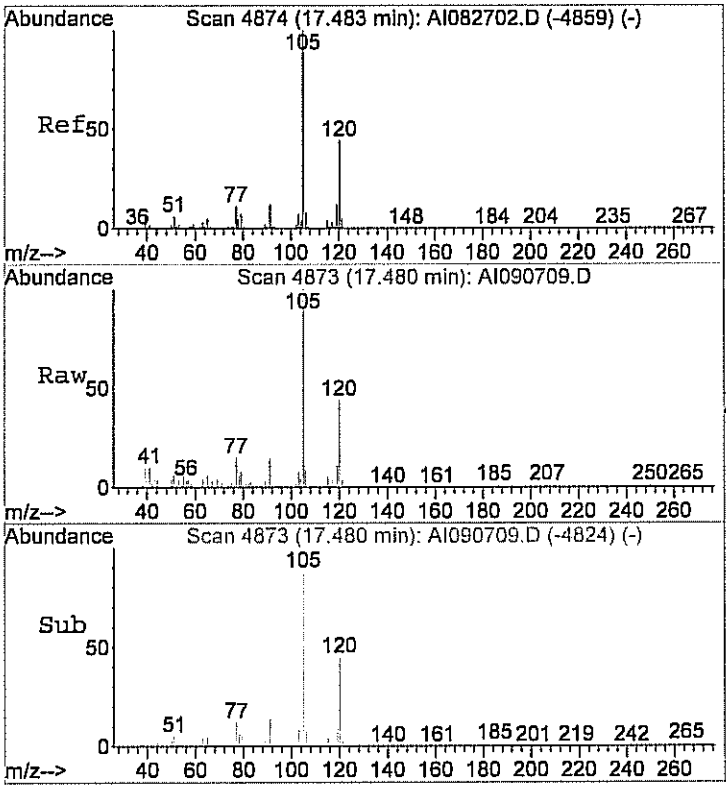


#64
1,3,5-trimethylbenzene
Concen: 0.36 ppb m
RT: 17.07 min Scan# 4736
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:105 Resp: 20290

Ion	Ratio	Lower	Upper
105	100		
120	39.5	26.2	66.2

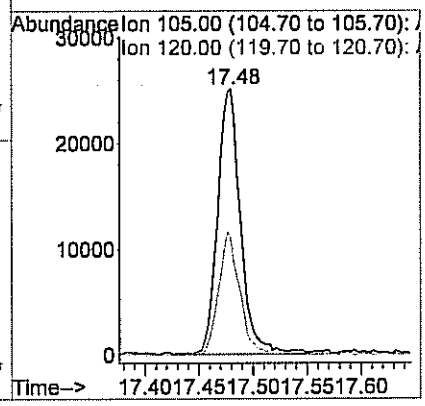




#65
1,2,4-trimethylbenzene
Concen: 0.82 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090709.D
Acq: 7 Sep 2011 3:42 pm

Tgt Ion:105 Resp: 37126

Ion	Ratio	Lower	Upper
105	100		
120	43.7	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090727.D Vial: 47
Acq On : 8 Sep 2011 1:35 am Operator: RJP
Sample : C1108077-003A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 01:56:47 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

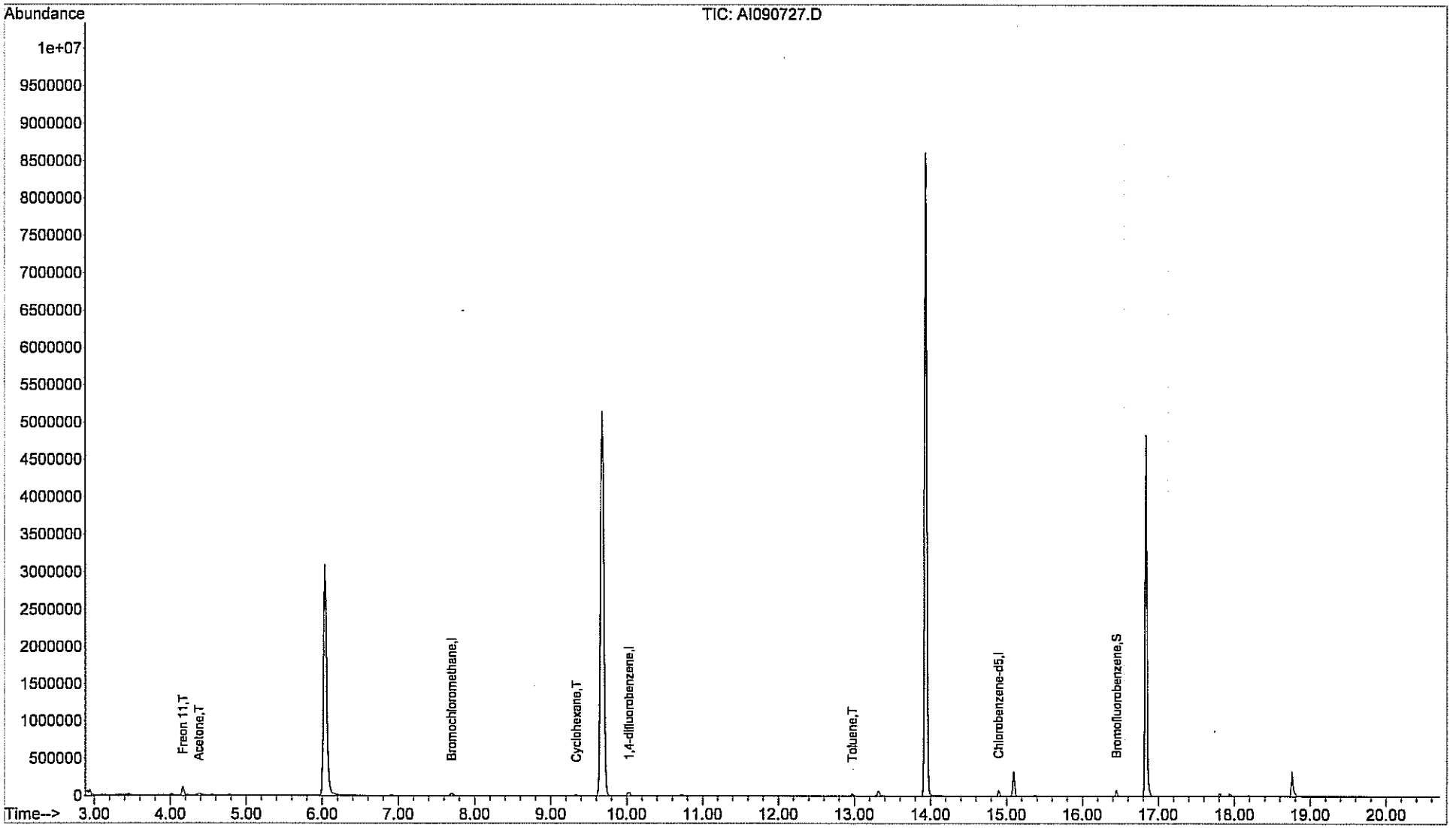
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13086	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	48250	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	43357	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24476	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
13) Freon 11	4.16	101	87964	2.03	ppb		98
14) Acetone	4.38	58	3682	0.80	ppb	#	70
34) Cyclohexane	9.33	56	4844	0.31	ppb	#	71
48) Toluene	12.97	92	11924	0.42	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090727.D A826_1UG.M Thu Sep 15 12:48:41 2011 MSD1 Page 1

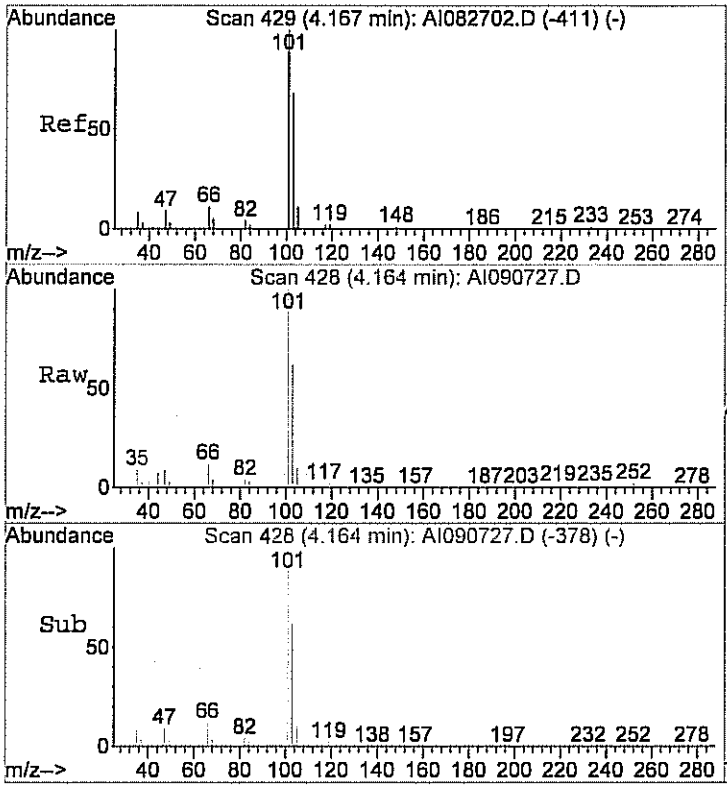
Data File : C:\HPCHEM\1\DATA\AI090727.D
Acq On : 8 Sep 2011 1:35 am
Sample : C1108077-003A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:56 2011

Vial: 47
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



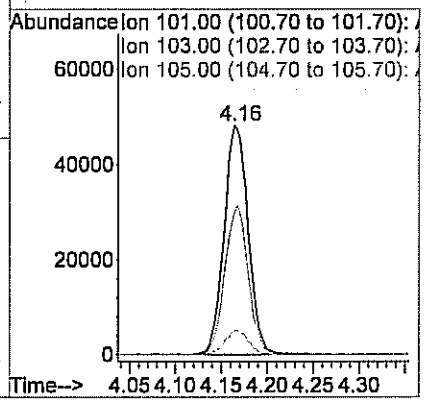
Centek Laboratories, LLC

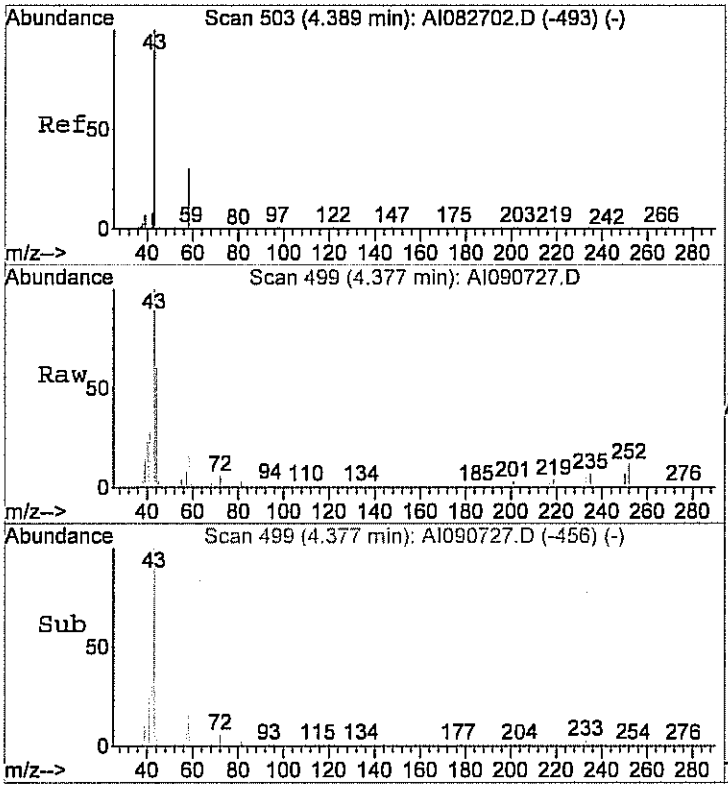


#13
Freon 11
Concen: 2.03 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090727.D
Acq: 8 Sep 2011 1:35 am

Tgt Ion:101 Resp: 87964

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.9	84.9
105	10.5	0.0	30.9

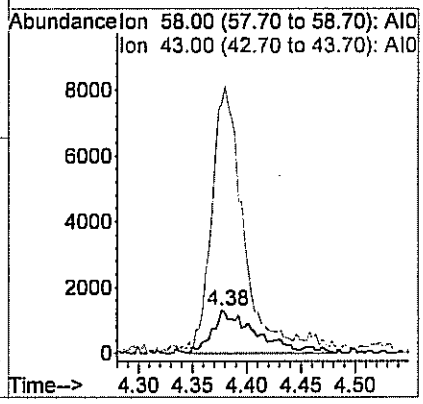


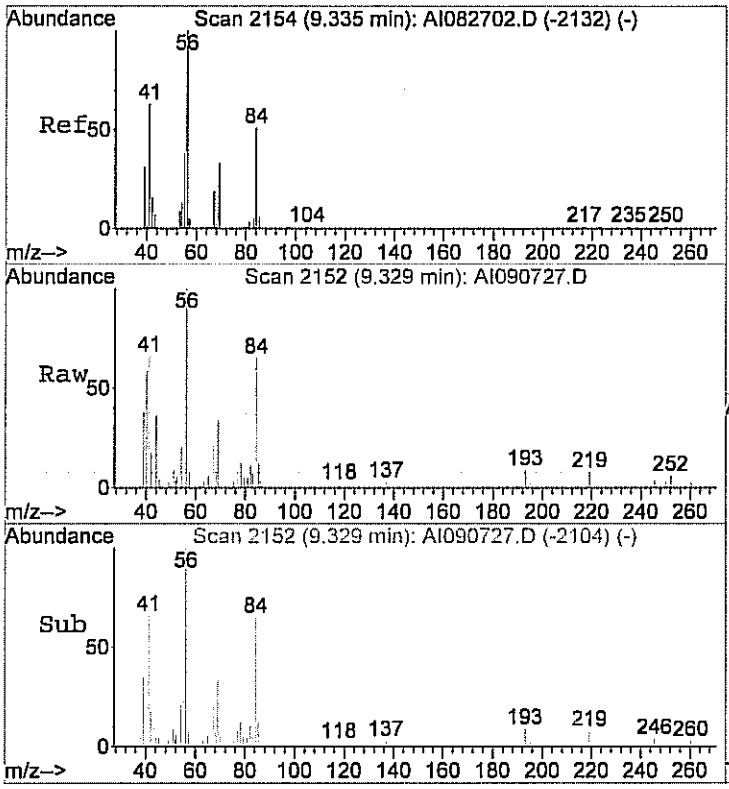


#14
Acetone
Concen: 0.80 ppb
RT: 4.38 min Scan# 499
Delta R.T. -0.02 min
Lab File: AI090727.D
Acq: 8 Sep 2011 1:35 am

Tgt Ion: 58 Resp: 3682

Ion	Ratio	Lower	Upper
58	100		
43	461.3	360.8	420.8#

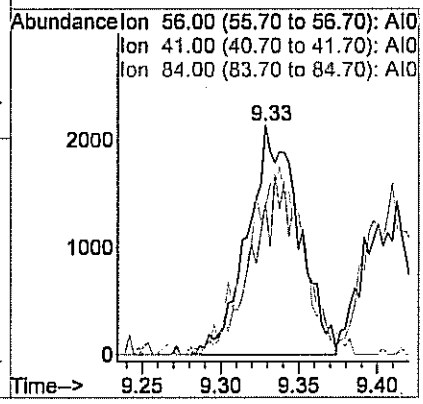


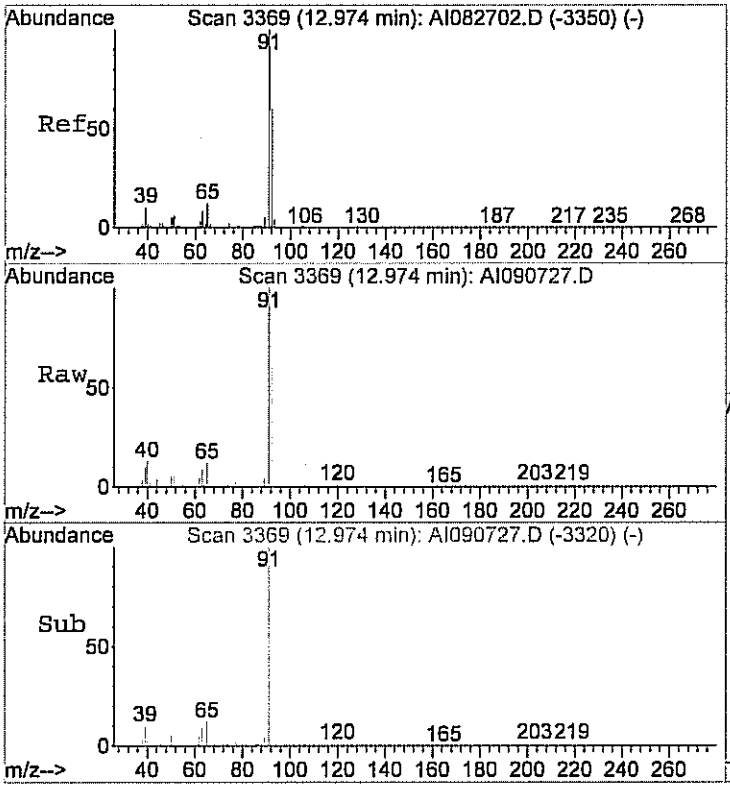


#34
Cyclohexane
Concen: 0.31 ppb
RT: 9.33 min Scan# 2152
Delta R.T. -0.01 min
Lab File: AI090727.D
Acq: 8 Sep 2011 1:35 am

Tgt Ion: 56 Resp: 4844

Ion	Ratio	Lower	Upper
56	100		
41	77.8	49.1	89.1
84	89.8	114.6	154.6#

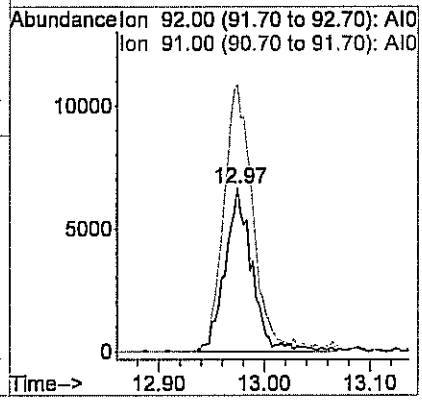




#48
Toluene
Concen: 0.42 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090727.D
Acq: 8 Sep 2011 1:35 am

Tgt Ion: 92 Resp: 11924

Ion	Ratio	Lower	Upper
92	100		
91	179.4	159.8	199.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	0.29	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	0.25	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Acetone	7.0	1.5		ppbV	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzene	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Cyclohexane	0.27	0.15		ppbV	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 4:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 12	0.61	0.15		ppbV	1	9/7/2011 4:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.21	0.30	J	ppbV	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	3.6	0.75		ppbV	5	9/8/2011 2:09:00 AM
Toluene	0.87	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Trichloroethene	3.4	0.75		ppbV	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	9/7/2011 4:16:00 PM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	1.5	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Acetone	17	3.6		ug/m3	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:16:00 PM
Benzene	0.65	0.49		ug/m3	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 4:16:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Cyclohexane	0.94	0.52		ug/m3	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 4:16:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 4:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	3.1	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.93	1.3	J	ug/m3	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	11	2.2		ug/m3	5	9/8/2011 2:09:00 AM
Toluene	3.3	0.57		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Trichloroethene	19	4.1		ug/m3	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090710.D Vial: 30
Acq On : 7 Sep 2011 4:16 pm Operator: RJP
Sample : C1108077-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 16:37:00 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

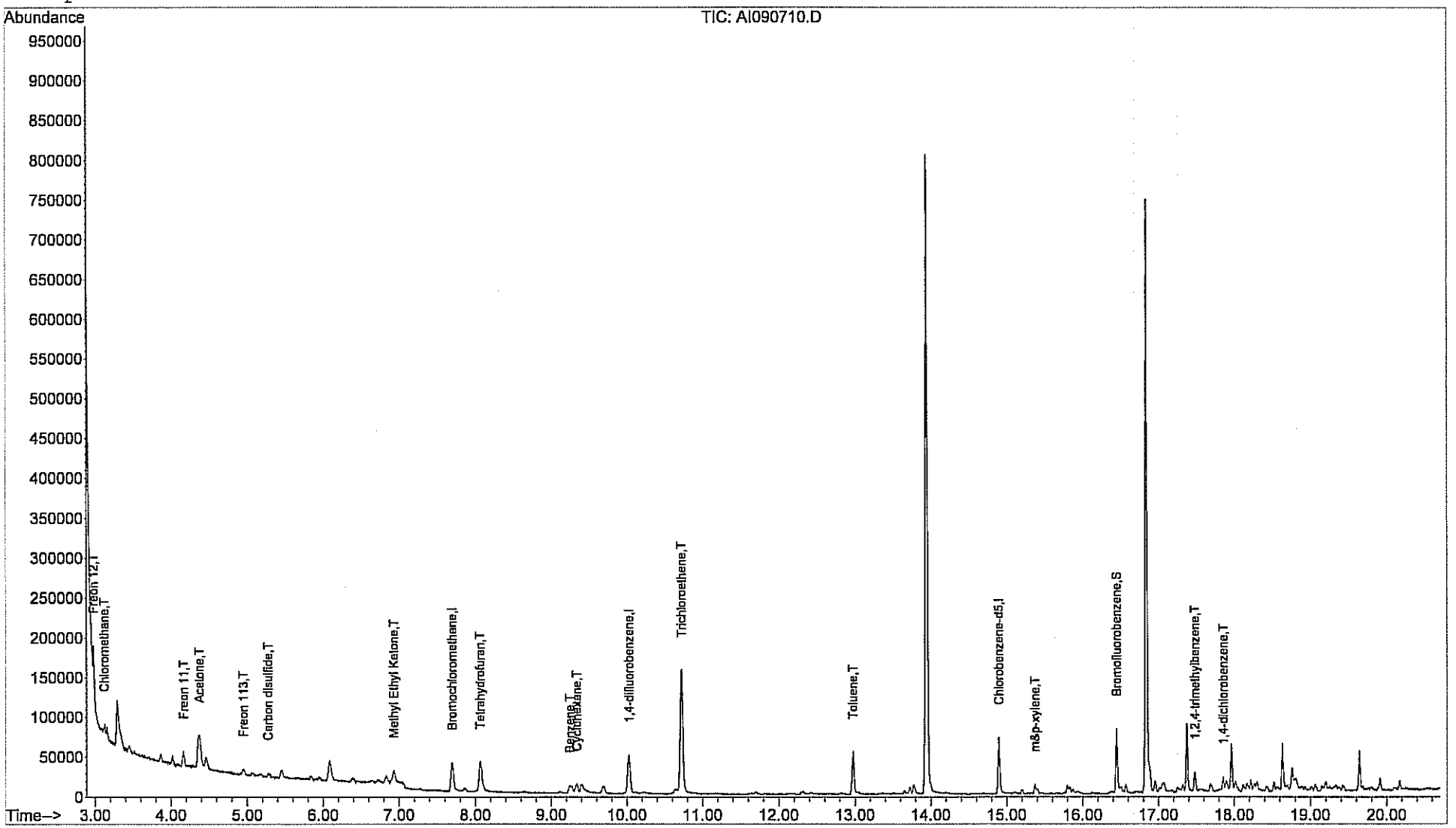
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	12848	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	47990	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	40100	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	25016	1.23	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	33638	0.61	ppb		100
4) Chloromethane	3.12	50	7383	0.54	ppb		80
13) Freon 11	4.17	101	13186	0.31	ppb		98
14) Acetone	4.37	58	26501	5.84	ppb	#	73
17) Freon 113	4.95	101	3127	0.10	ppb		92
20) Carbon disulfide	5.28	76	7419	0.20	ppb		89
25) Methyl Ethyl Ketone	6.94	72	5751	1.37	ppb	#	100
30) Tetrahydrofuran	8.07	42	25867	3.23	ppb		95
34) Cyclohexane	9.33	56	4173	0.27	ppb	#	68
36) Benzene	9.24	78	8327	0.20	ppb		99
41) Trichloroethene	10.72	130	65875	2.63	ppb		98
48) Toluene	12.97	92	22825	0.87	ppb		92
56) m&p-xylene	15.37	91	9241	0.21	ppb		98
65) 1,2,4-trimethylbenzene	17.48	105	10696	0.29	ppb		99
68) 1,4-dichlorobenzene	17.85	146	8069	0.25	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

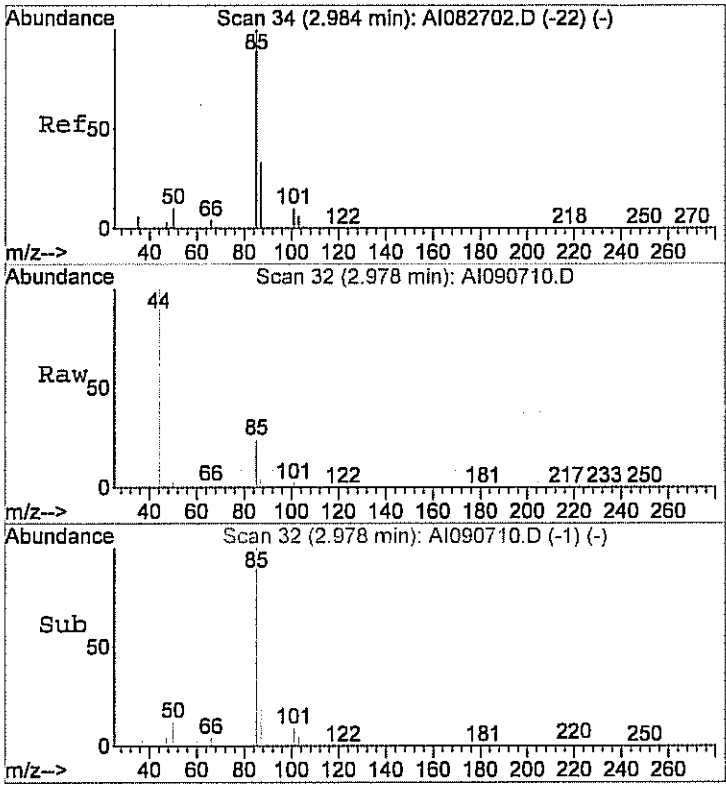
Data File : C:\HPCHEM\1\DATA\AI090710.D
Acq On : 7 Sep 2011 4:16 pm
Sample : C1108077-004A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:15 2011

Vial: 30
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



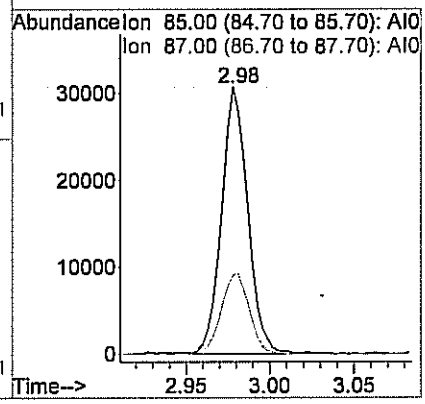
Centek Laboratories, LLC

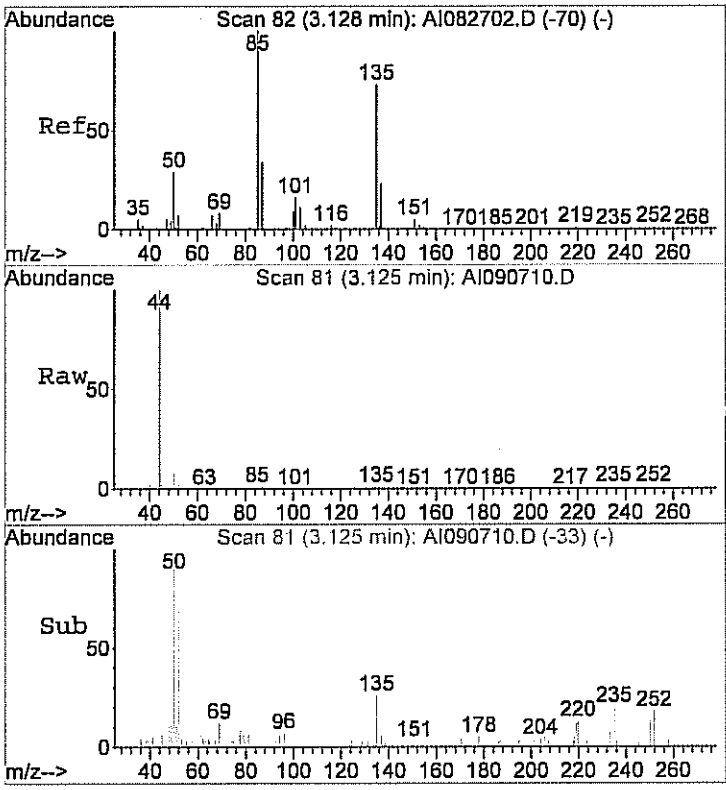


#3
Freon 12
Concen: 0.61 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 85 Resp: 33638

Ion	Ratio	Lower	Upper
85	100		
87	31.9	12.2	52.2

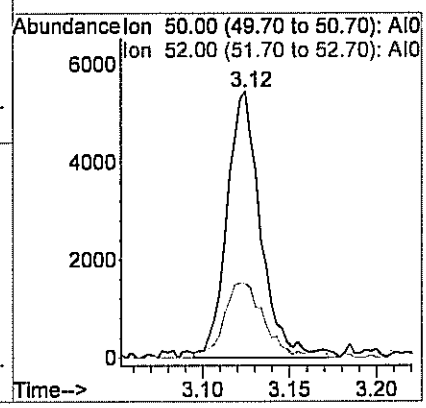


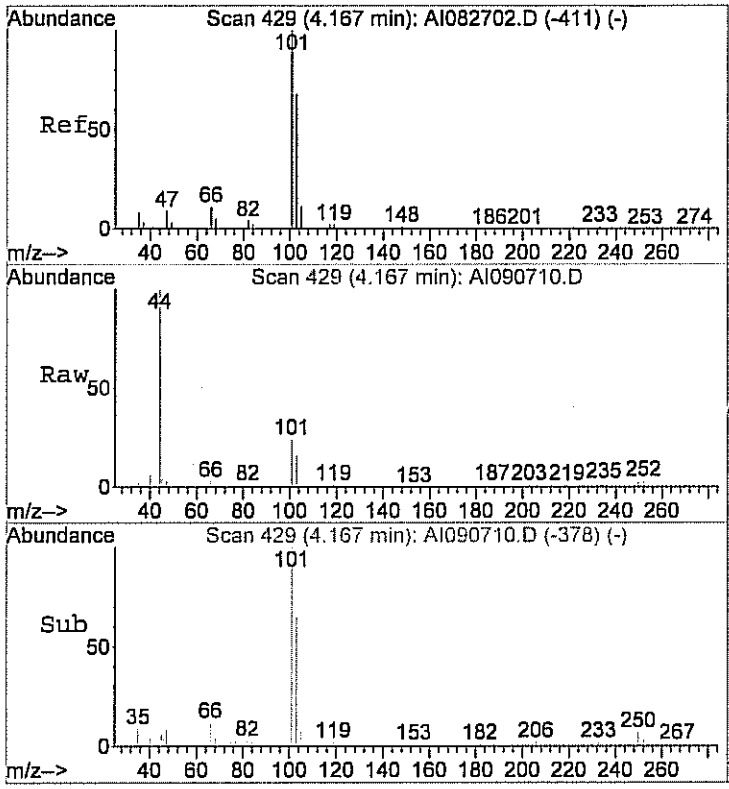


#4
Chloromethane
Concen: 0.54 ppb
RT: 3.12 min Scan# 81
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 50 Resp: 7383

Ion	Ratio	Lower	Upper
50	100		
52	34.0	4.1	44.1

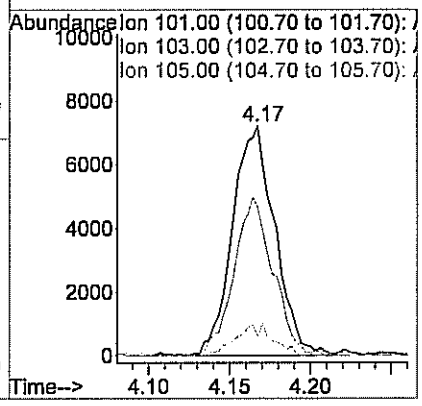


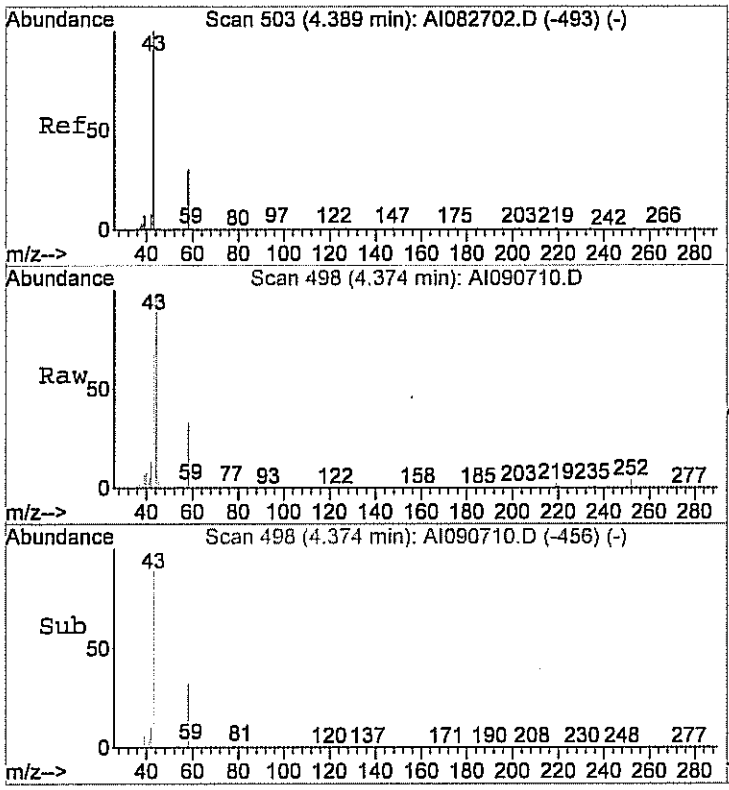


#13
Freon 11
Concen: 0.31 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion:101 Resp: 13186

Ion	Ratio	Lower	Upper
101	100		
103	63.8	44.9	84.9
105	12.2	0.0	30.9

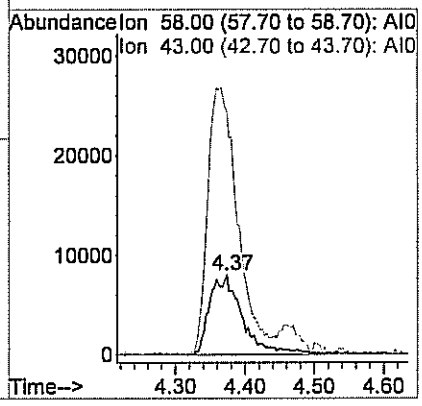


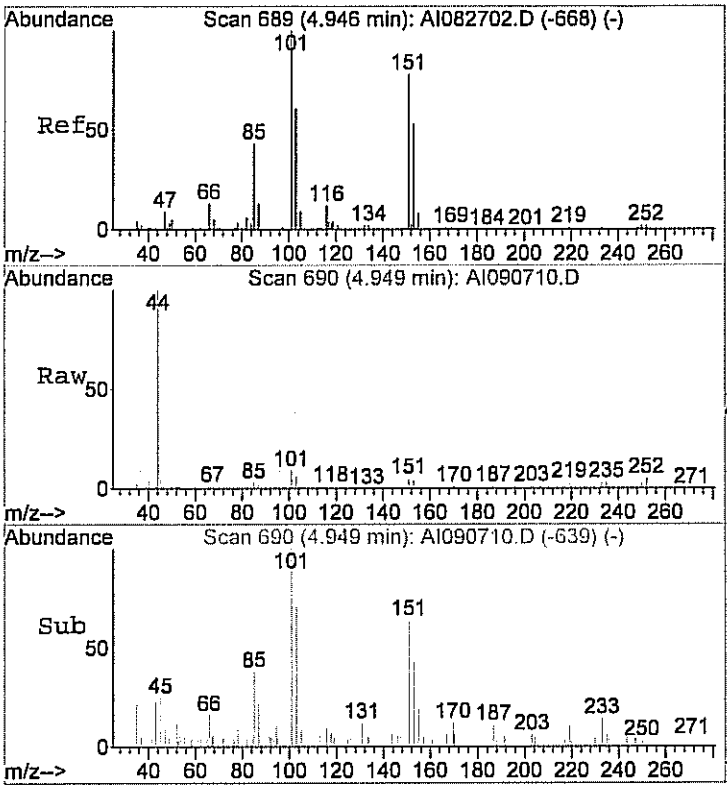


#14
Acetone
Concen: 5.84 ppb
RT: 4.37 min Scan# 498
Delta R.T. -0.02 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 58 Resp: 26501

Ion	Ratio	Lower	Upper
58	100		
43	326.7	360.8	420.8#

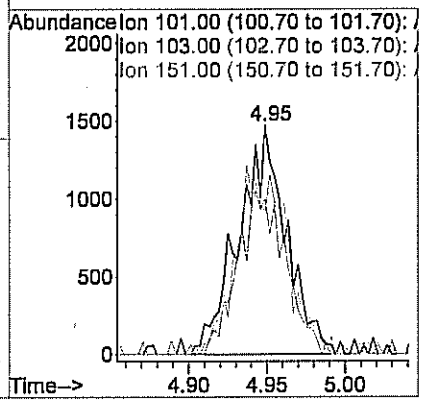


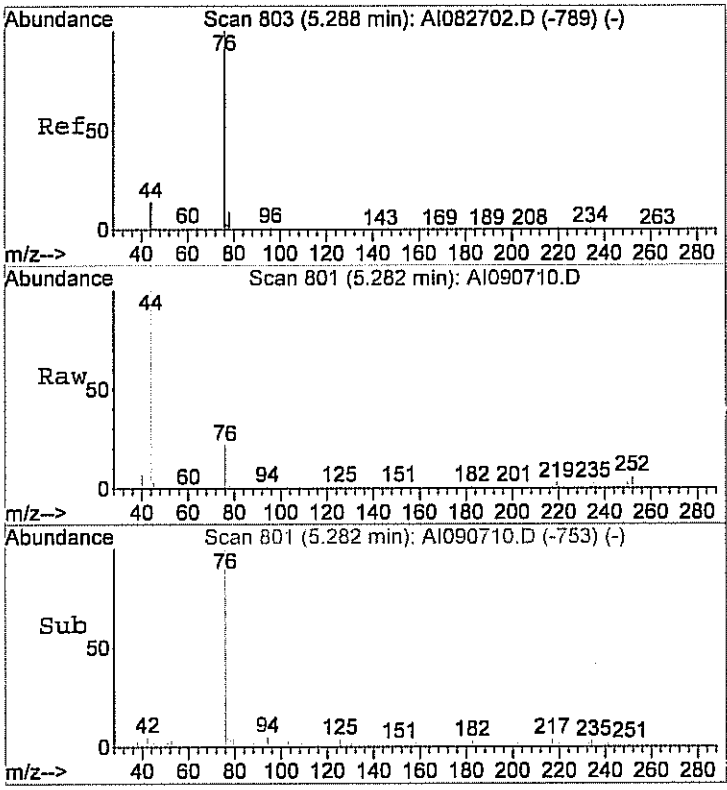


#17
Freon 113
Concen: 0.10 ppb
RT: 4.95 min Scan# 690
Delta R.T. 0.00 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion:101 Resp: 3127

Ion	Ratio	Lower	Upper
101	100		
103	72.4	44.3	84.3
151	85.8	61.0	101.0

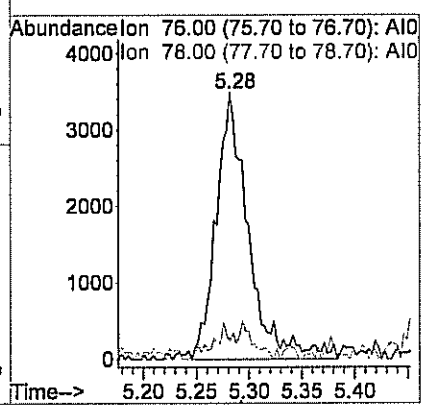


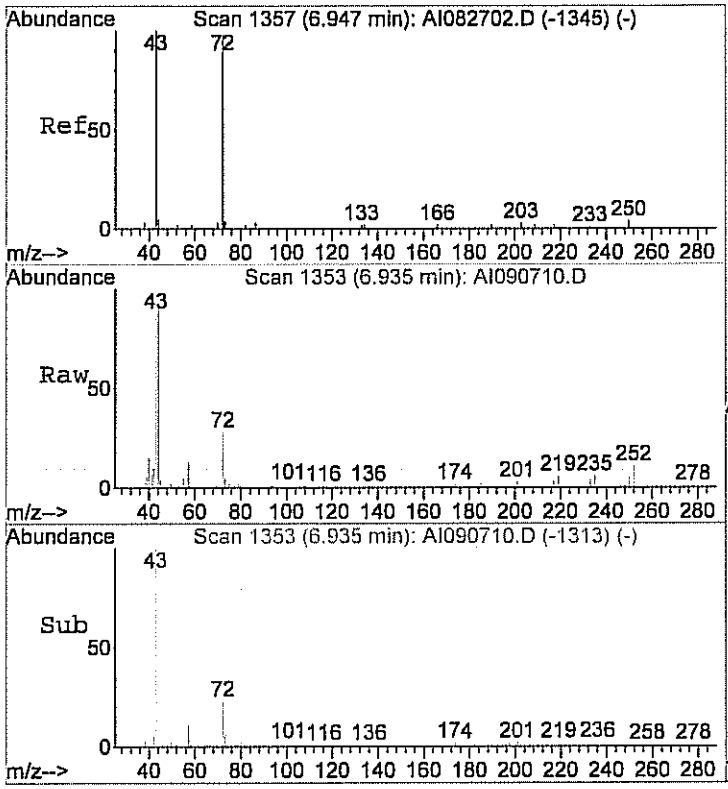


#20
Carbon disulfide
Concen: 0.20 ppb
RT: 5.28 min Scan# 801
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 76 Resp: 7419

Ion	Ratio	Lower	Upper
76	100		
78	13.5	0.0	29.6

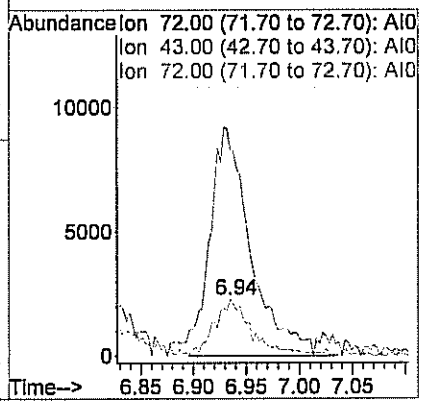


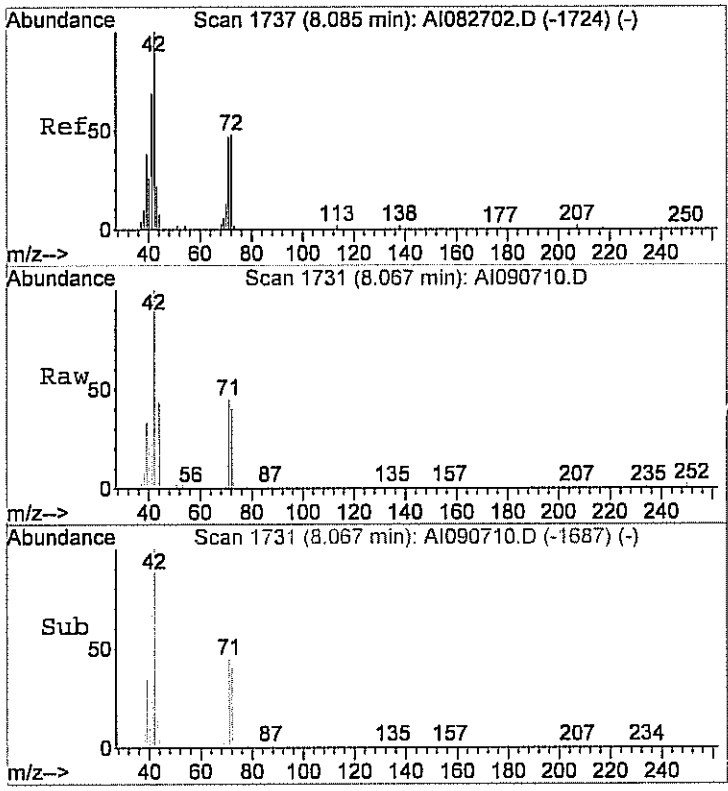


#25
Methyl Ethyl Ketone
Concen: 1.37 ppb
RT: 6.94 min Scan# 1353
Delta R.T. -0.03 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 72 Resp: 5751

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

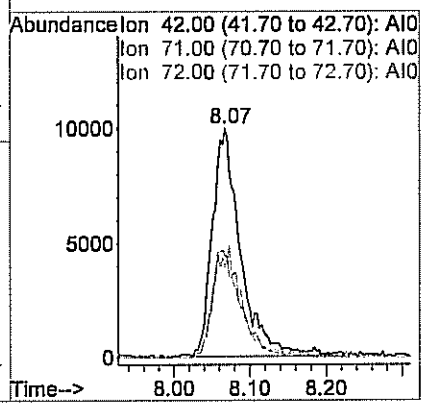


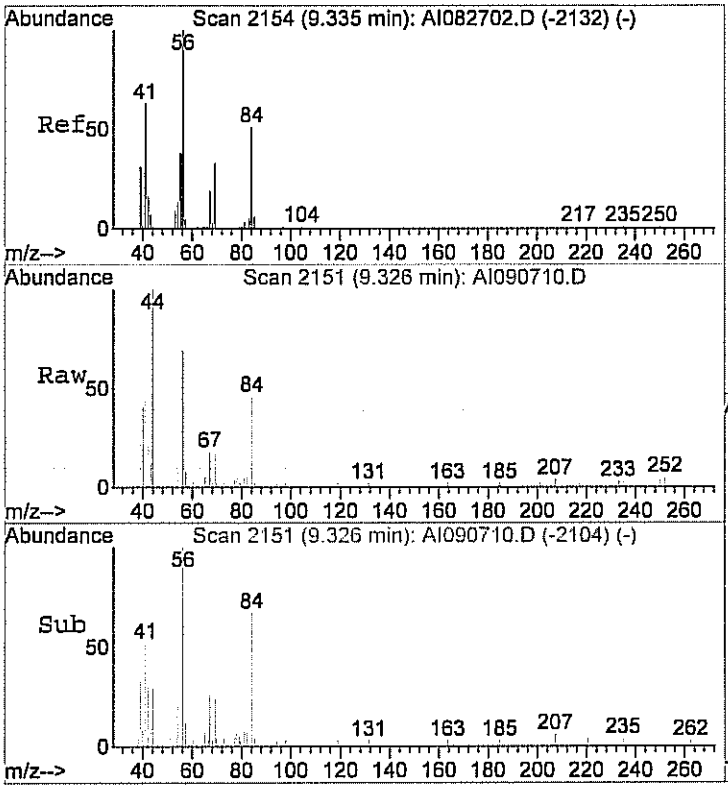


#30
Tetrahydrofuran
Concen: 3.23 ppb
RT: 8.07 min Scan# 1731
Delta R.T. -0.02 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 42 Resp: 25867

Ion	Ratio	Lower	Upper
42	100		
71	49.1	24.6	64.6
72	48.4	26.5	66.5

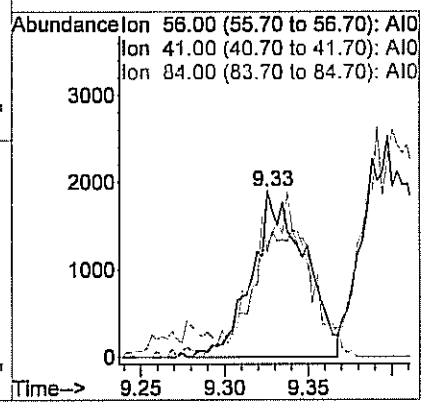


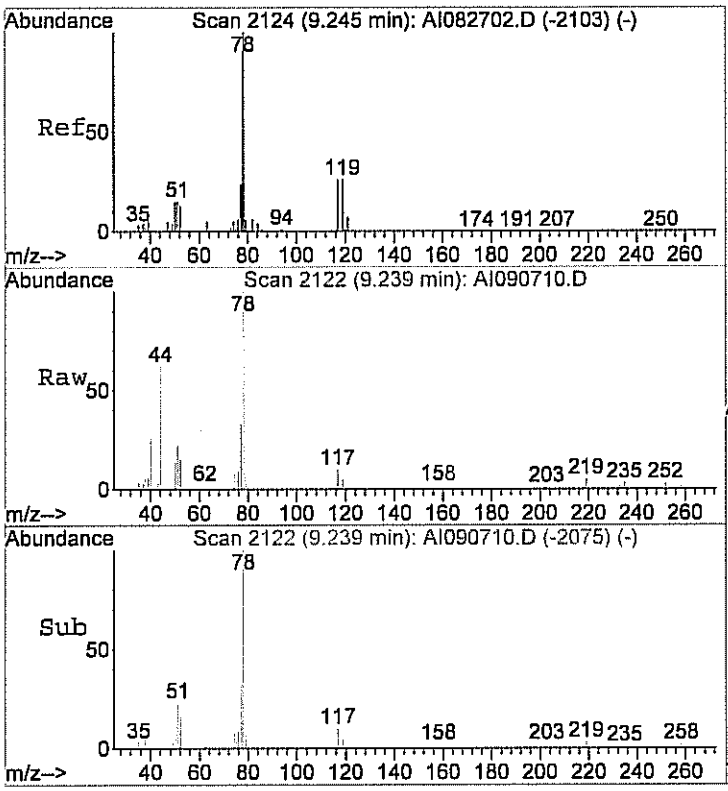


#34
Cyclohexane
Concen: 0.27 ppb
RT: 9.33 min Scan# 2151
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 56 Resp: 4173

Ion	Ratio	Lower	Upper
56	100		
41	90.9	49.1	89.1#
84	92.8	114.6	154.6#

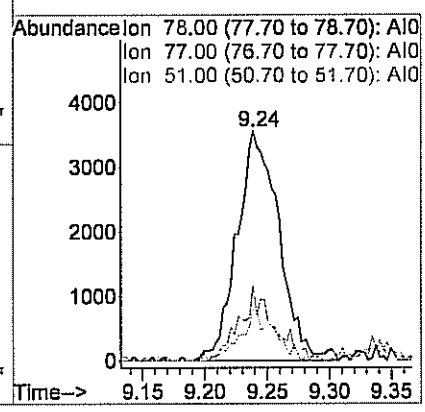


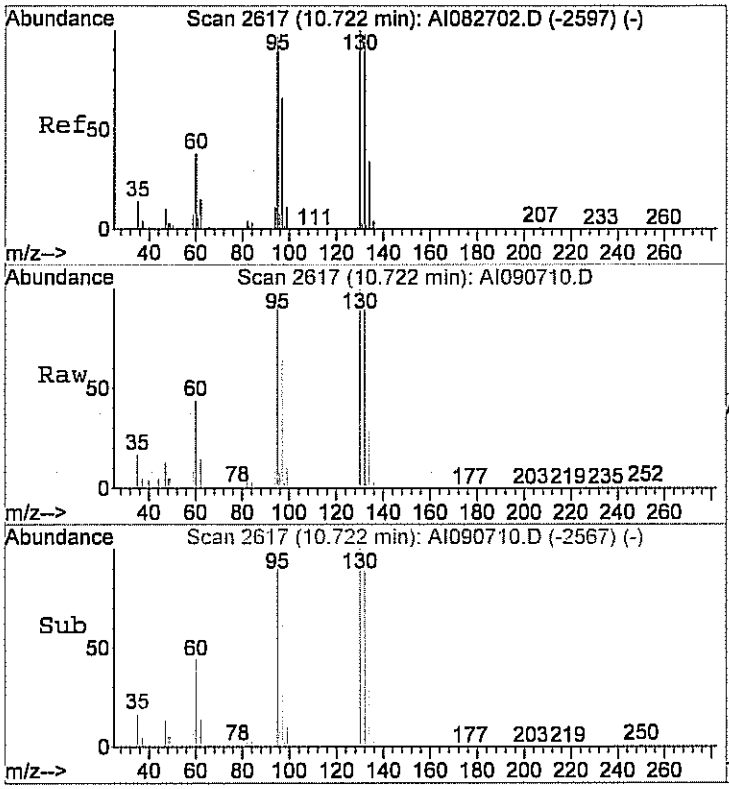


#36
Benzene
Concen: 0.20 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 78 Resp: 8327

Ion	Ratio	Lower	Upper
78	100		
77	26.2	5.2	45.2
51	17.9	0.0	37.6

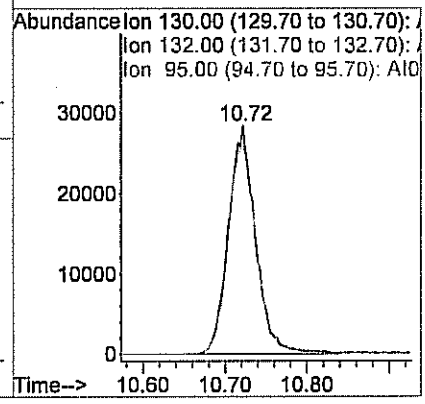


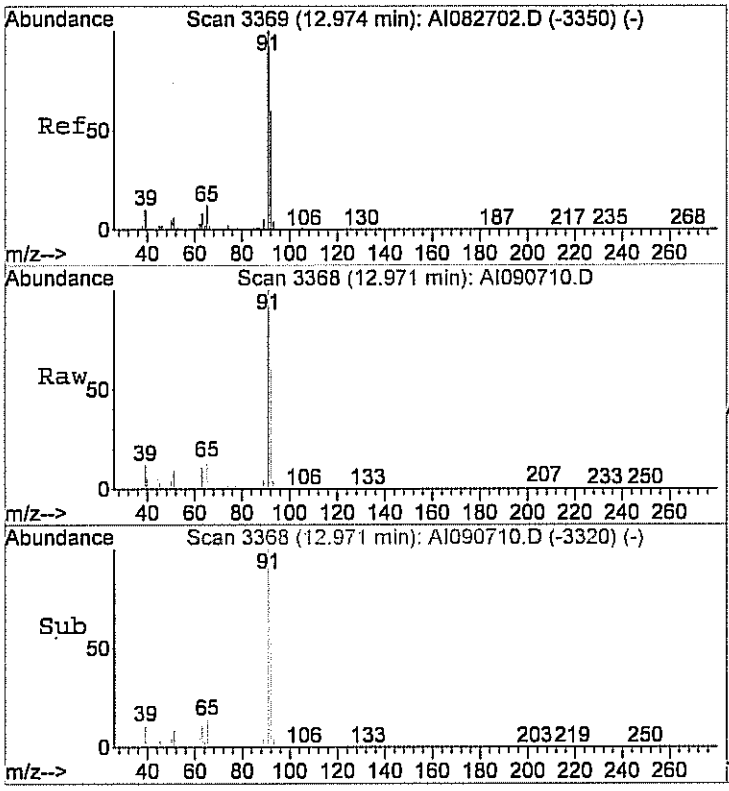


#41
Trichloroethene
Concen: 2.63 ppb
RT: 10.72 min Scan# 2617
Delta R.T. 0.00 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion:130 Resp: 65875

Ion	Ratio	Lower	Upper
130	100		
132	97.8	79.0	119.0
95	99.5	76.8	116.8

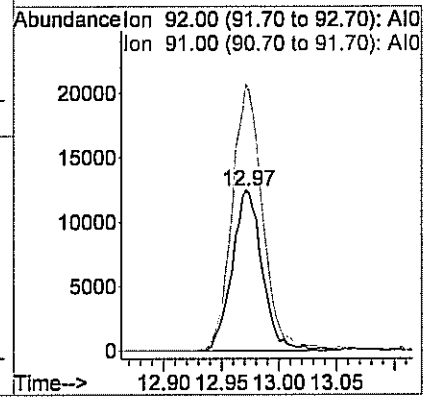


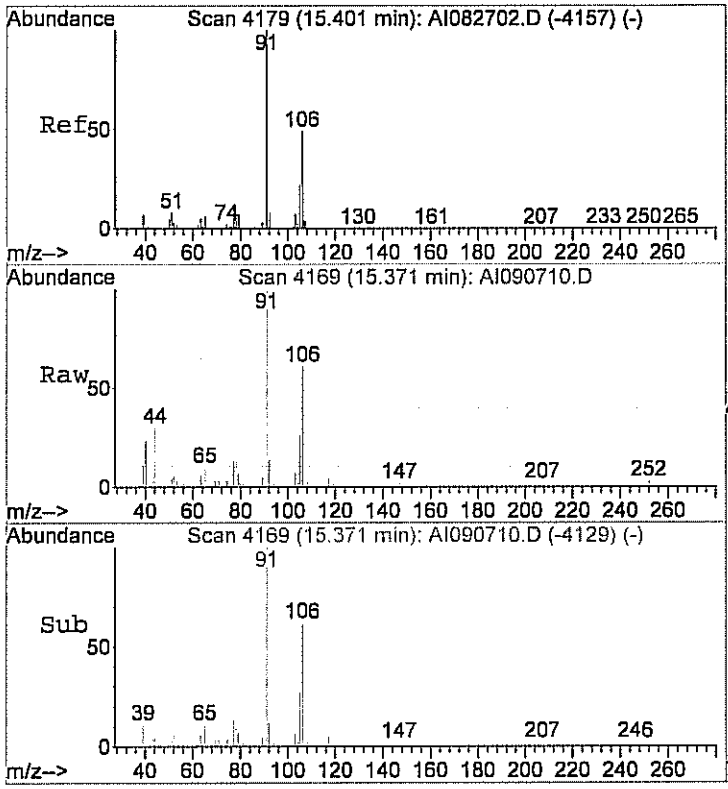


#48
Toluene
Concen: 0.87 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 92 Resp: 22825

Ion	Ratio	Lower	Upper
92	100		
91	168.7	159.8	199.8

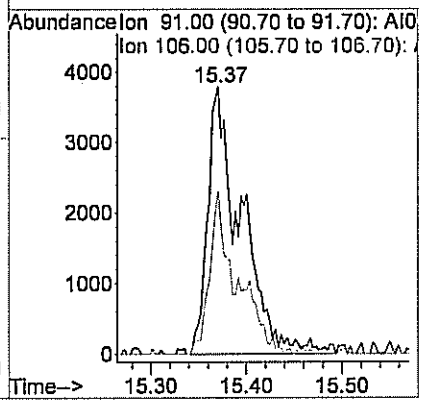


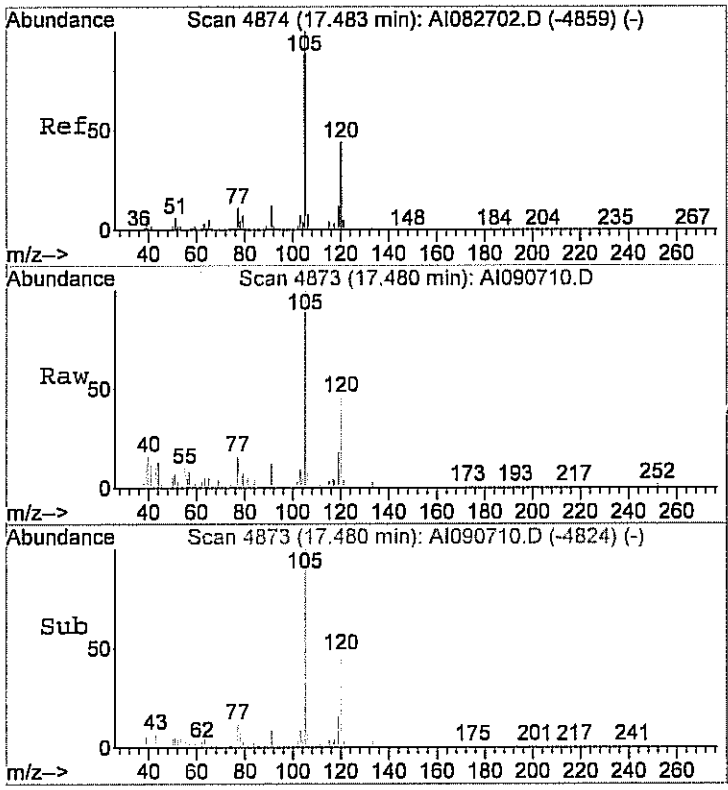


#56
m&p-xylene
Concen: 0.21 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion: 91 Resp: 9241

Ion	Ratio	Lower	Upper
91	100		
106	48.9	27.5	67.5

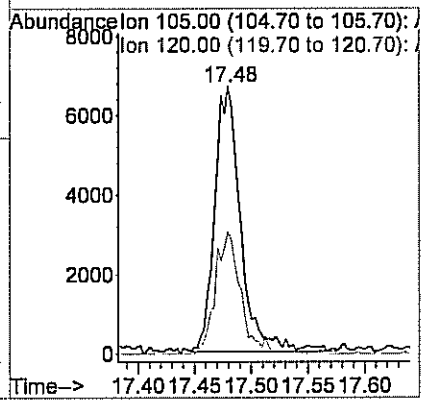


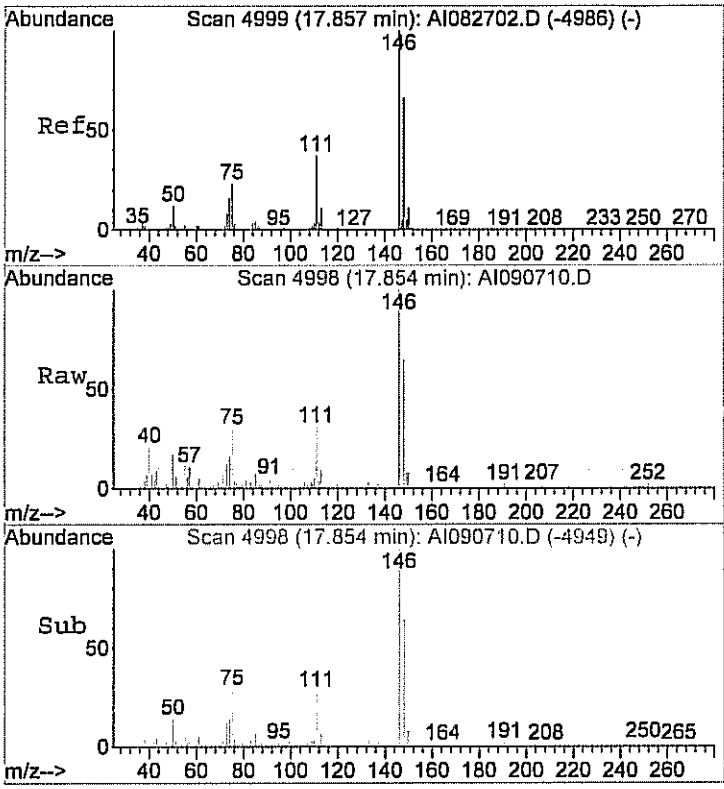


#65
1,2,4-trimethylbenzene
Concen: 0.29 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion:105 Resp: 10696

Ion	Ratio	Lower	Upper
105	100		
120	44.3	25.0	65.0

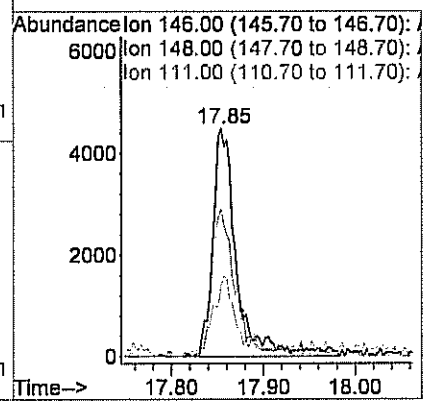




#68
1,4-dichlorobenzene
Concen: 0.25 ppb
RT: 17.85 min Scan# 4998
Delta R.T. -0.00 min
Lab File: AI090710.D
Acq: 7 Sep 2011 4:16 pm

Tgt Ion:146 Resp: 8069

Ion	Ratio	Lower	Upper
146	100		
148	63.3	44.1	84.1
111	38.3	15.0	55.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090728.D Vial: 48
Acq On : 8 Sep 2011 2:09 am Operator: RJP
Sample : C1108077-004A 5x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 02:30:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

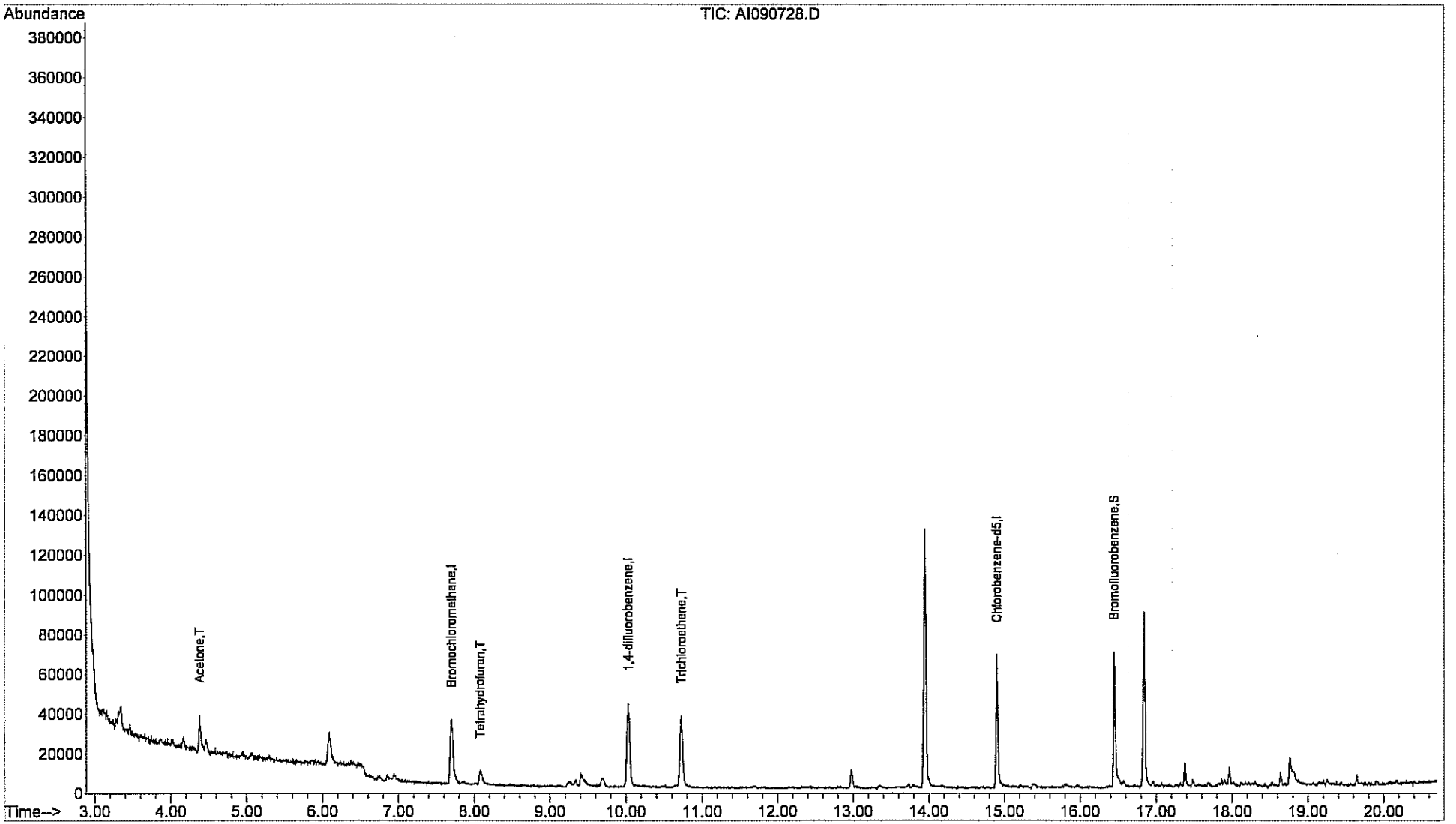
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13213	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	46052	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	40033	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	22459	1.11	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	6538	1.40	ppb	# 56
30) Tetrahydrofuran	8.09	42	5853m	0.71	ppb	
41) Trichloroethene	10.73	130	16518	0.69	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

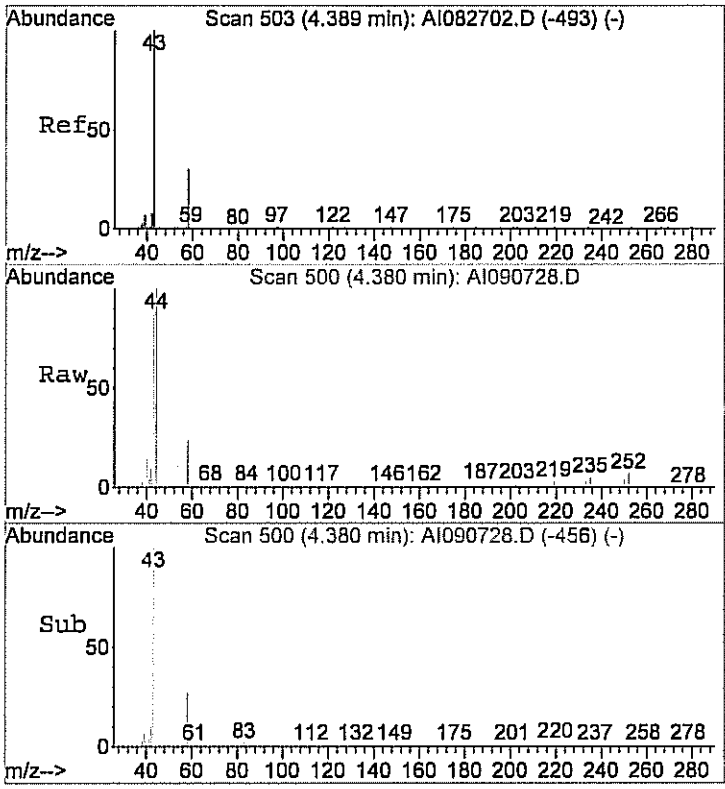
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090728.D Vial: 48
Acq On : 8 Sep 2011 2:09 am Operator: RJP
Sample : C1108077-004A 5x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:57 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



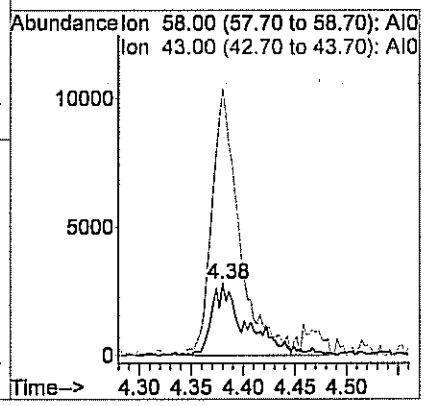
Centek Laboratories, LLC

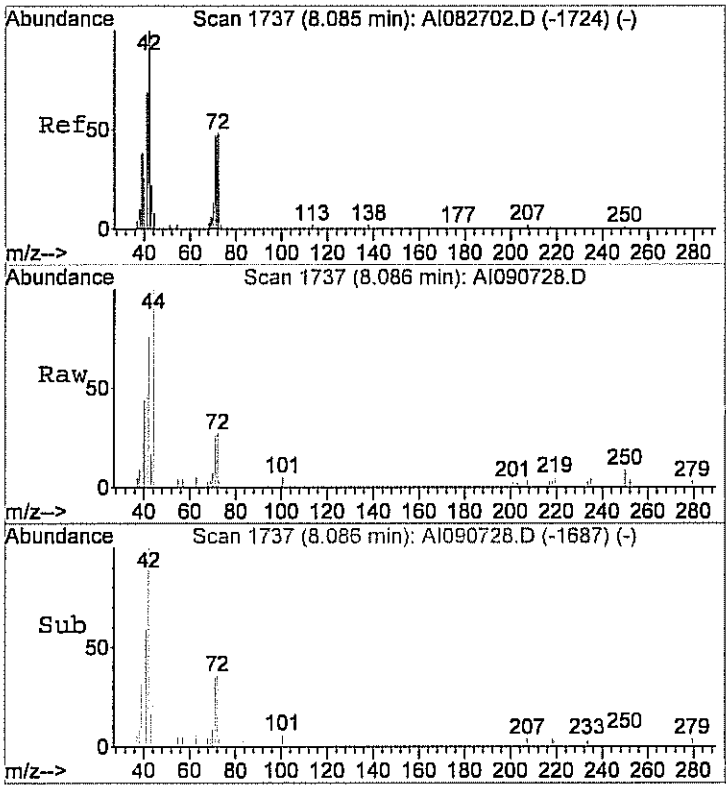


#14
Acetone
Concen: 1.40 ppb
RT: 4.38 min Scan# 500
Delta R.T. -0.02 min
Lab File: AI090728.D
Acq: 8 Sep 2011 2:09 am

Tgt Ion: 58 Resp: 6538

Ion	Ratio	Lower	Upper
58	100		
43	288.3	360.8	420.8#

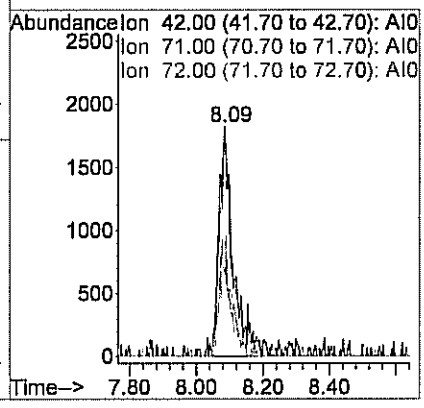


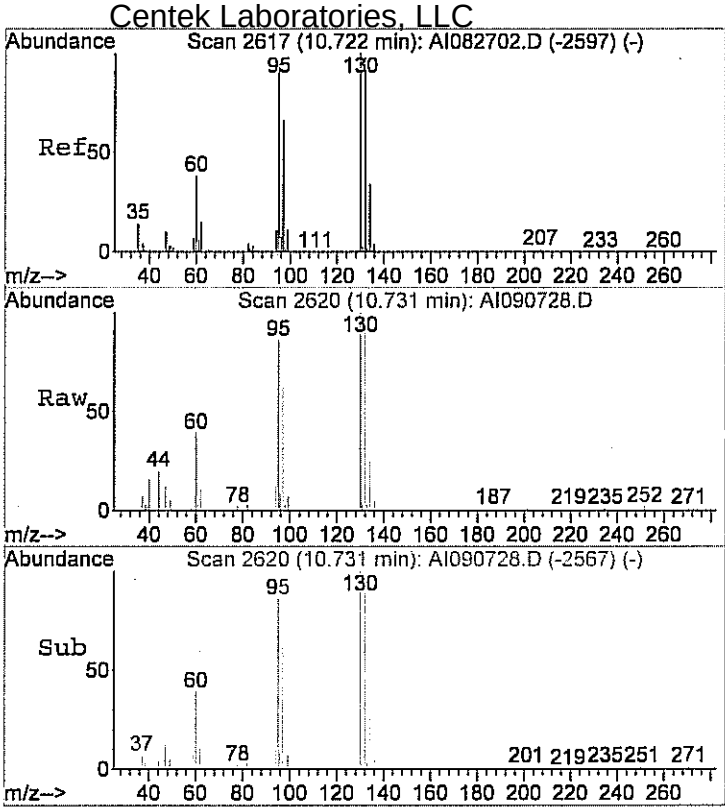


#30
Tetrahydrofuran
Concen: 0.71 ppb m
RT: 8.09 min Scan# 1737
Delta R.T. 0.00 min
Lab File: AI090728.D
Acq: 8 Sep 2011 2:09 am

Tgt Ion: 42 Resp: 5853

Ion	Ratio	Lower	Upper
42	100		
71	39.8	24.6	64.6
72	38.9	26.5	66.5

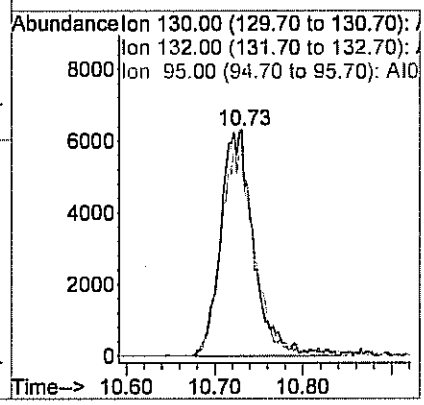




#41
Trichloroethene
Concen: 0.69 ppb
RT: 10.73 min Scan# 2620
Delta R.T. 0.01 min
Lab File: AI090728.D
Acq: 8 Sep 2011 2:09 am

Tgt Ion:130 Resp: 16518

Ion	Ratio	Lower	Upper
130	100		
132	95.5	79.0	119.0
95	94.2	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.13	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	0.43	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	0.32	0.15		ppbV	1	9/7/2011 4:49:00 PM
4-ethyltoluene	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Acetone	6.7	3.0		ppbV	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Carbon disulfide	4.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.14	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloroform	0.16	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Cyclohexane	2.7	1.5		ppbV	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	1.4	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 4:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Heptane	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexane	2.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	0.93	0.15		ppbV	1	9/7/2011 4:49:00 PM
m&p-Xylene	3.2	3.0		ppbV	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
o-Xylene	1.2	0.15		ppbV	1	9/7/2011 4:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Toluene	6.1	1.5		ppbV	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Trichloroethene	16	1.5		ppbV	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	0.72	0.83	J	ug/m3	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	2.1	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	1.5	0.71		ug/m3	1	9/7/2011 4:49:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Acetone	16	7.2		ug/m3	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:49:00 PM
Benzene	4.2	0.49		ug/m3	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:49:00 PM
Carbon disulfide	13	4.7		ug/m3	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.66	0.70	J	ug/m3	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:49:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Cyclohexane	9.4	5.2		ug/m3	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
Ethylbenzene	6.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 4:49:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 4:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Heptane	5.3	0.62		ug/m3	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Hexane	7.9	5.4		ug/m3	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	2.3	0.37		ug/m3	1	9/7/2011 4:49:00 PM
m&p-Xylene	14	13		ug/m3	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:49:00 PM
o-Xylene	5.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 4:49:00 PM
Toluene	23	5.7		ug/m3	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Trichloroethene	88	8.2		ug/m3	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090711.D Vial: 31
Acq On : 7 Sep 2011 4:49 pm Operator: RJP
Sample : C1108077-005A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 17:10:25 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

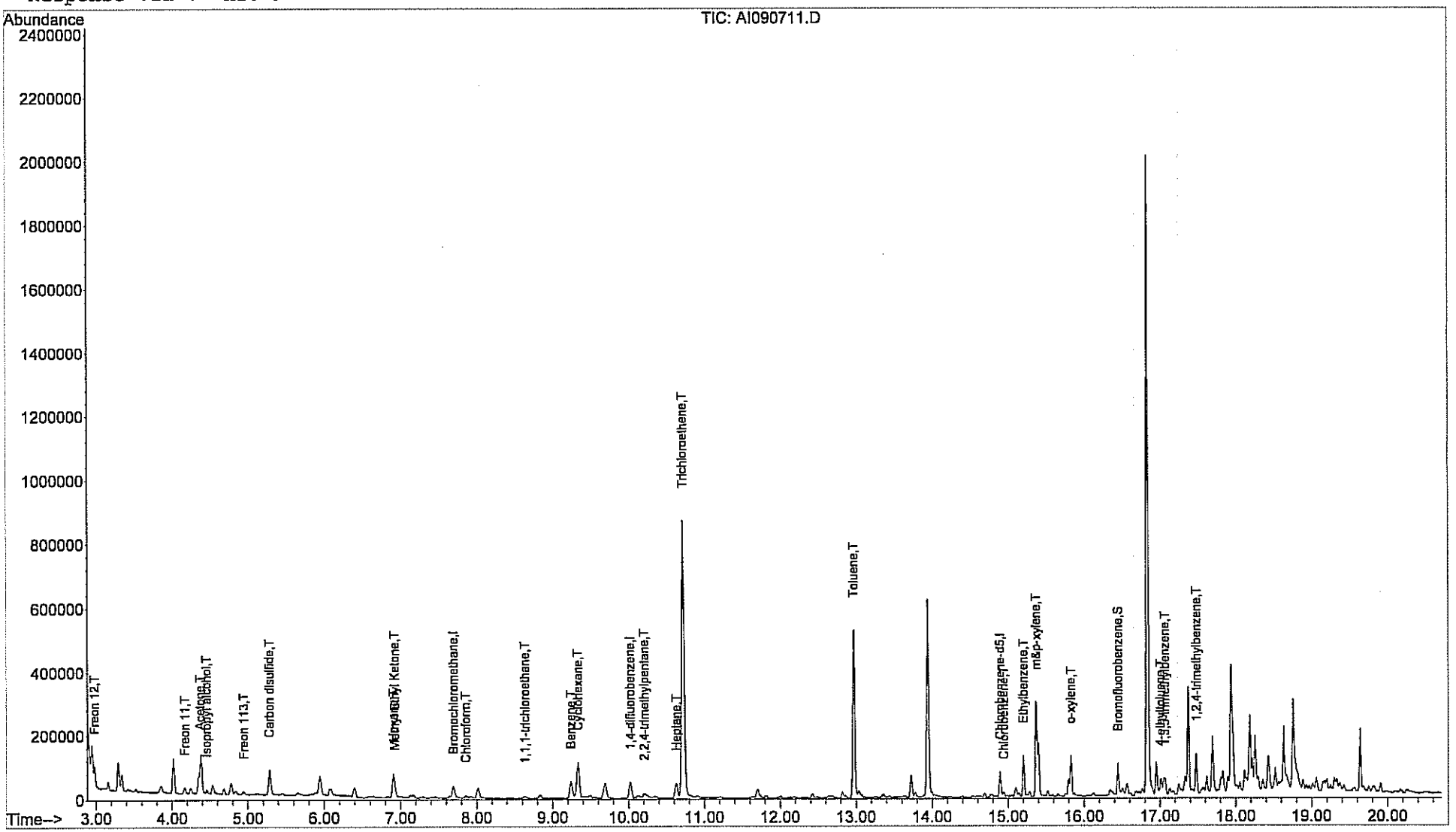
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13846	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	50477	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	45663	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	28793	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32323	0.55	ppb		97
13) Freon 11	4.17	101	13487	0.29	ppb		98
14) Acetone	4.36	58	24154	4.94	ppb	#	47
15) Isopropyl alcohol	4.46	45	9299	0.93	ppb	#	100
17) Freon 113	4.95	101	3630	0.11	ppb		98
20) Carbon disulfide	5.29	76	130117	3.31	ppb		99
25) Methyl Ethyl Ketone	6.93	72	4062	0.90	ppb	#	100
27) Hexane	6.91	57	37526	2.22	ppb		97
29) Chloroform	7.86	83	6910	0.16	ppb		87
33) 1,1,1-trichloroethane	8.64	97	4703	0.13	ppb		96
34) Cyclohexane	9.33	56	49316	2.99	ppb	#	62
36) Benzene	9.24	78	56289	1.30	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	14621	0.32	ppb	#	23
40) Heptane	10.63	43	20185	1.28	ppb		92
41) Trichloroethene	10.72	130	360784	13.68	ppb		98
48) Toluene	12.97	92	230473	7.73	ppb		92
54) Chlorobenzene	14.94	112	6748	0.14	ppb		95
55) Ethylbenzene	15.20	91	85001	1.39	ppb		99
56) m&p-xylene	15.37	91	244289	4.89	ppb		100
59) o-xylene	15.83	91	66722	1.15	ppb		99
63) 4-ethyltoluene	17.01	105	26317	0.55	ppb		98
64) 1,3,5-trimethylbenzene	17.07	105	22297	0.43	ppb		86
65) 1,2,4-trimethylbenzene	17.48	105	56532	1.34	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

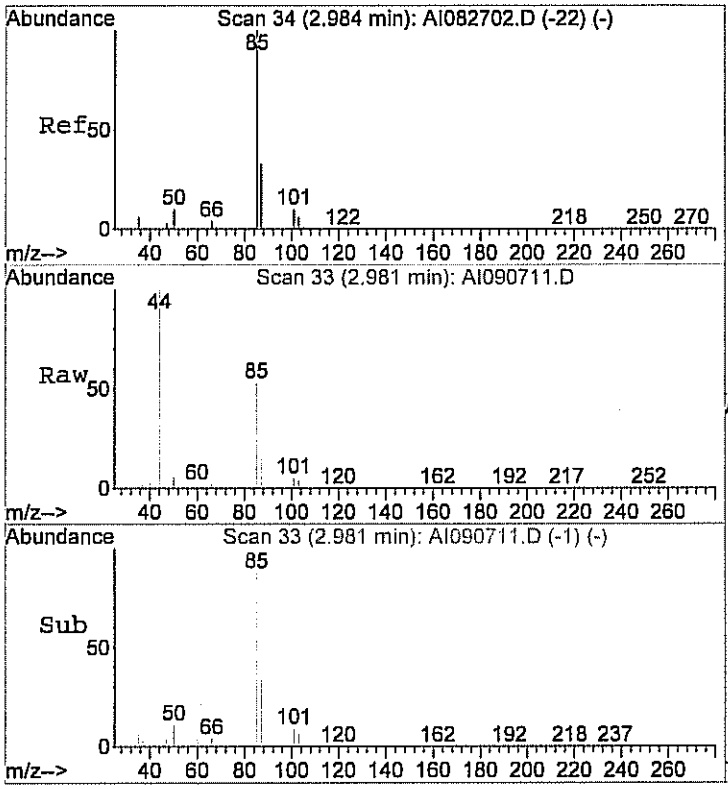
Data File : C:\HPCHEM\1\DATA\AI090711.D
Acq On : 7 Sep 2011 4:49 pm
Sample : C1108077-005A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:17 2011

Vial: 31
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



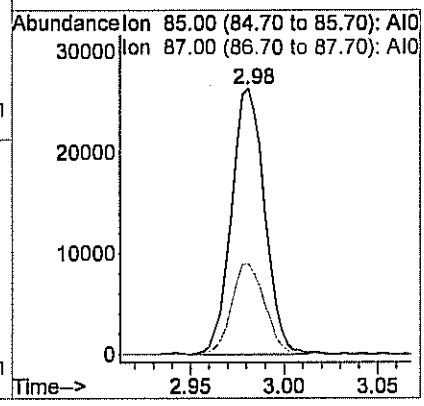
Centek Laboratories, LLC

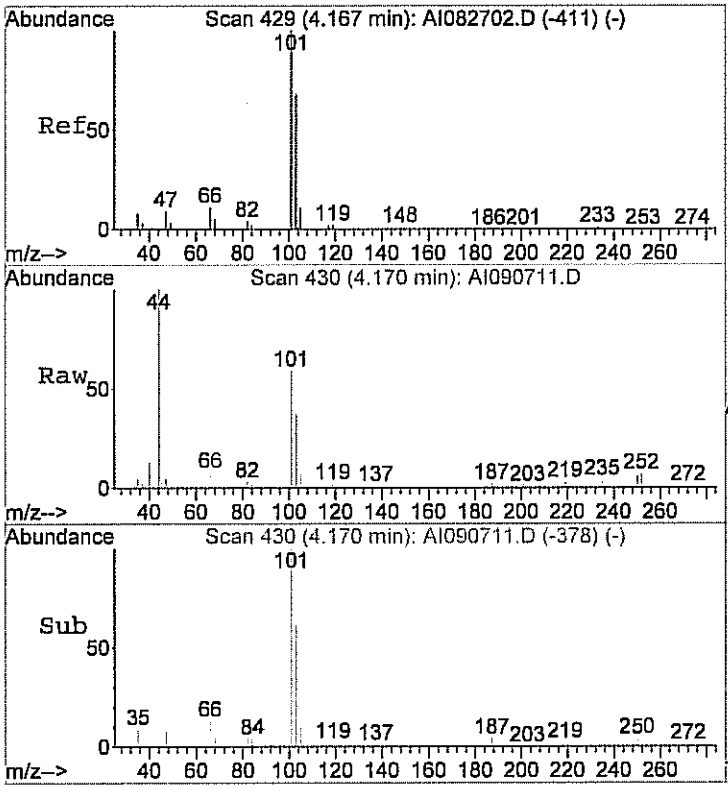


#3
Freon 12
Concen: 0.55 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 85 Resp: 32323

Ion	Ratio	Lower	Upper
85	100		
87	34.1	12.2	52.2

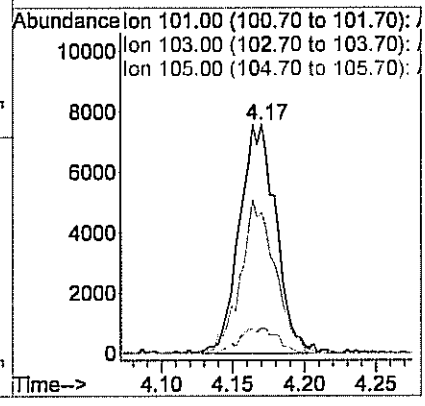


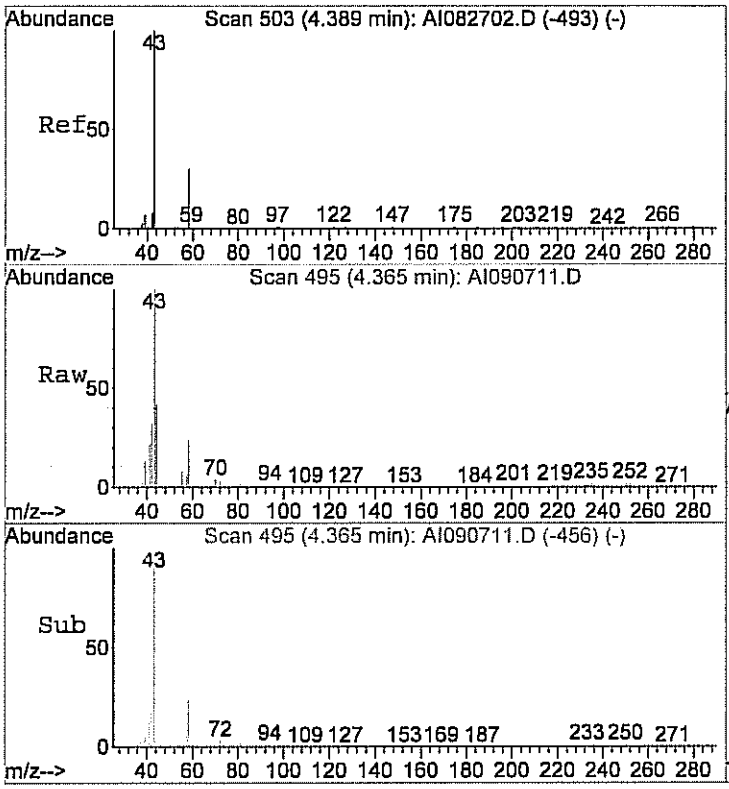


#13
Freon 11
Concen: 0.29 ppb
RT: 4.17 min Scan# 430
Delta R.T. 0.01 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:101 Resp: 13487

Ion	Ratio	Lower	Upper
101	100		
103	63.3	44.9	84.9
105	11.7	0.0	30.9

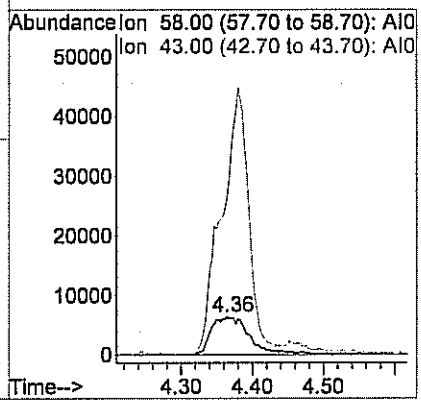


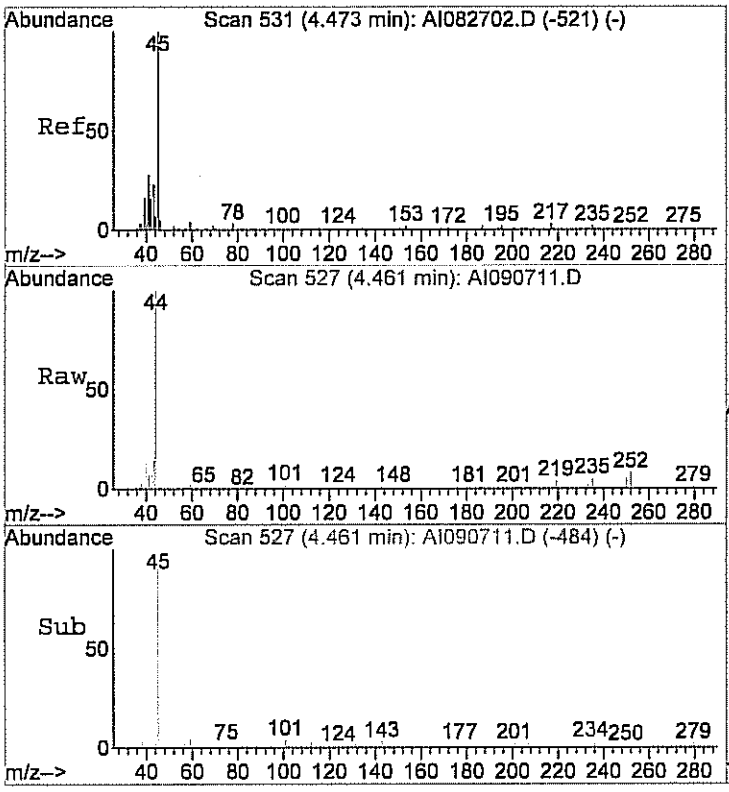


#14
Acetone
Concen: 4.94 ppb
RT: 4.36 min Scan# 495
Delta R.T. -0.03 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 58 Resp: 24154

Ion	Ratio	Lower	Upper
58	100		
43	515.4	360.8	420.8#

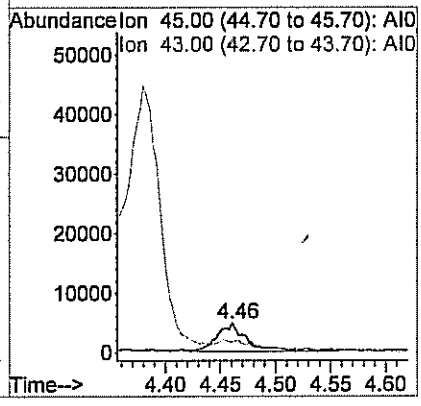


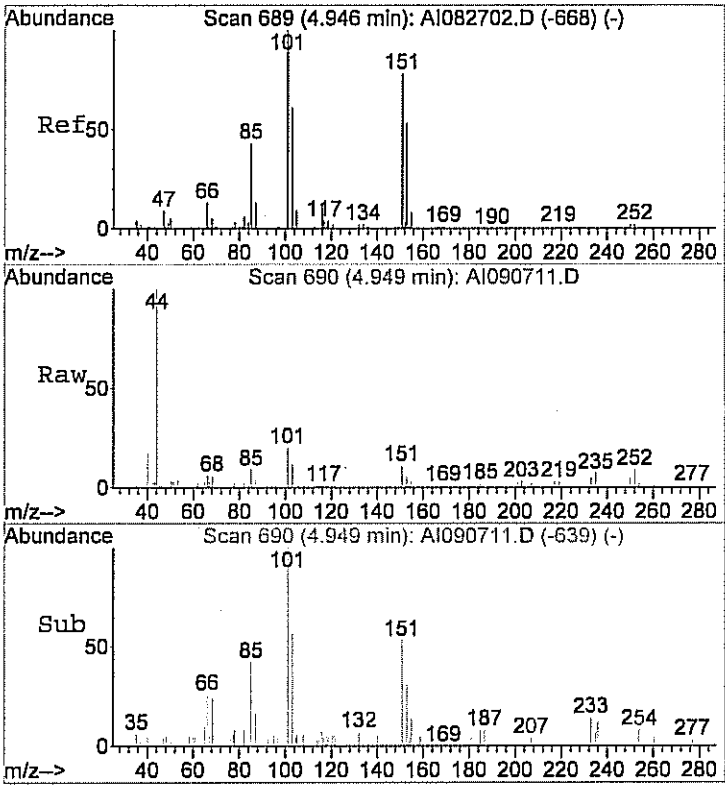


#15
Isopropyl alcohol
Concen: 0.93 ppb
RT: 4.46 min Scan# 527
Delta R.T. -0.02 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 45 Resp: 9299

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

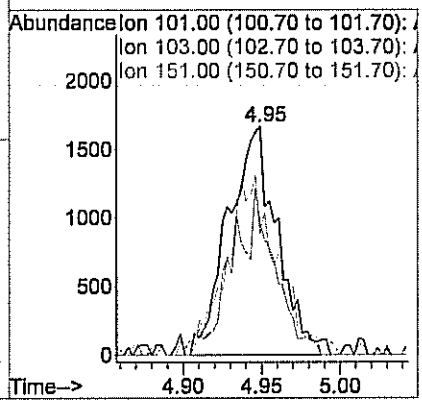


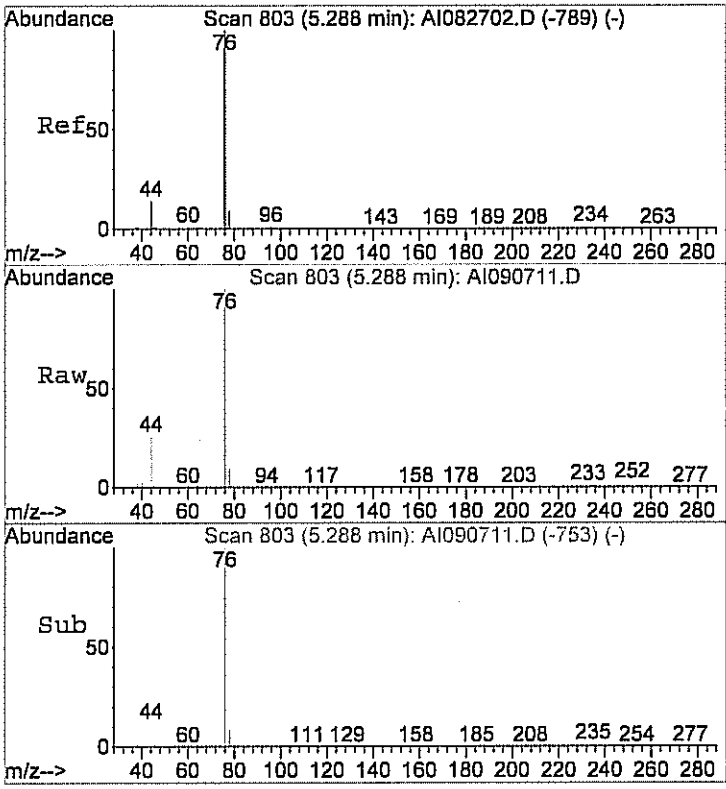


#17
Freon 113
Concen: 0.11 ppb
RT: 4.95 min Scan# 690
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:101 Resp: 3630

Ion	Ratio	Lower	Upper
101	100		
103	64.5	44.3	84.3
151	78.3	61.0	101.0

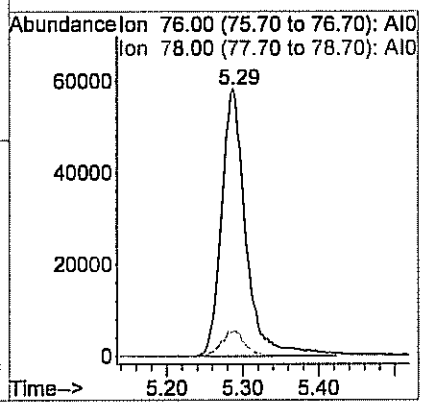


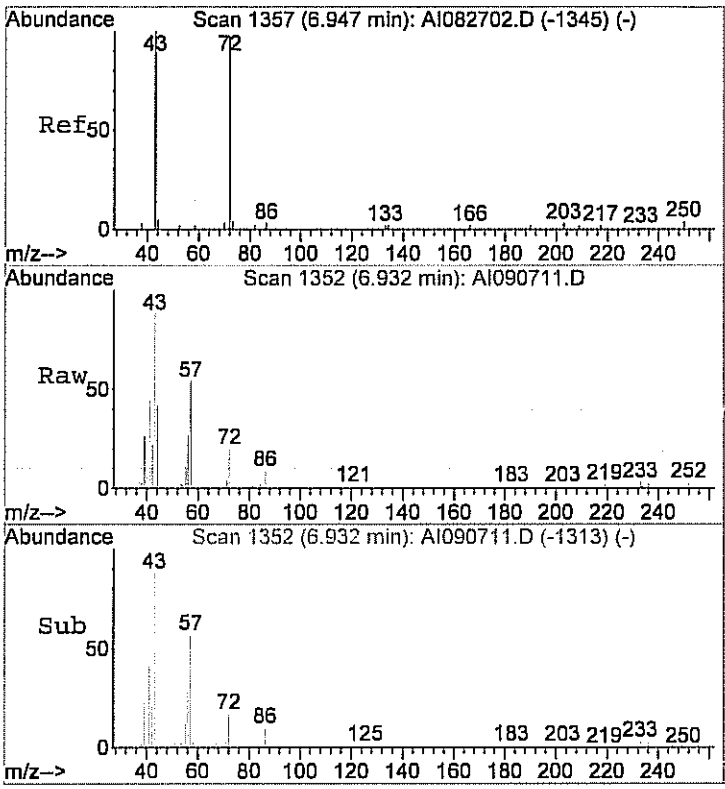


#20
Carbon disulfide
Concen: 3.31 ppb
RT: 5.29 min Scan# 803
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 76 Resp: 130117

Ion	Ratio	Lower	Upper
76	100		
78	10.1	0.0	29.6

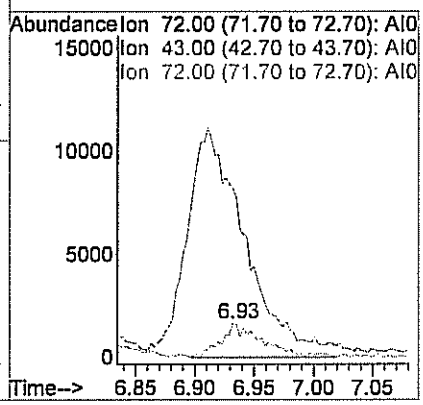


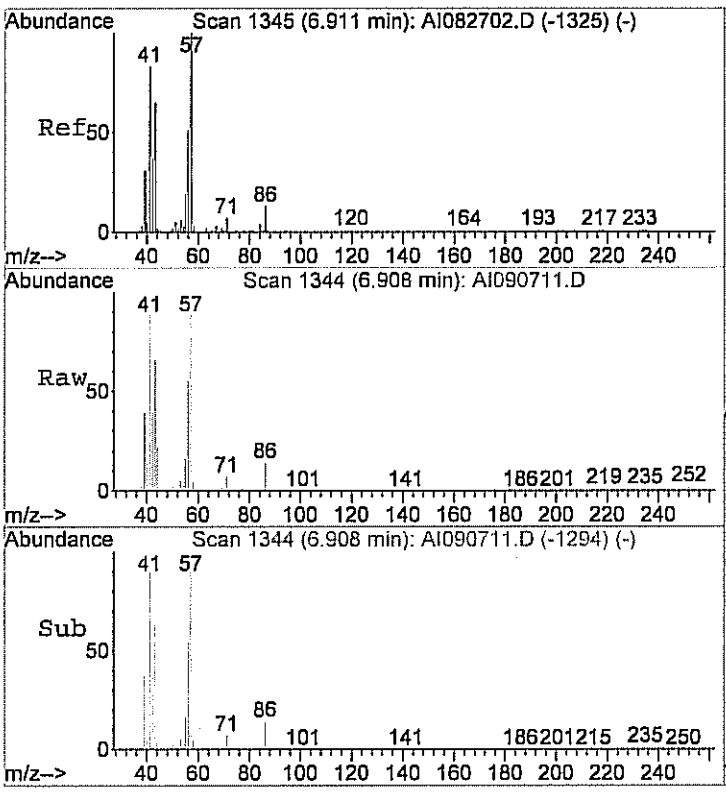


#25
Methyl Ethyl Ketone
Concen: 0.90 ppb
RT: 6.93 min Scan# 1352
Delta R.T. -0.03 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 72 Resp: 4062

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

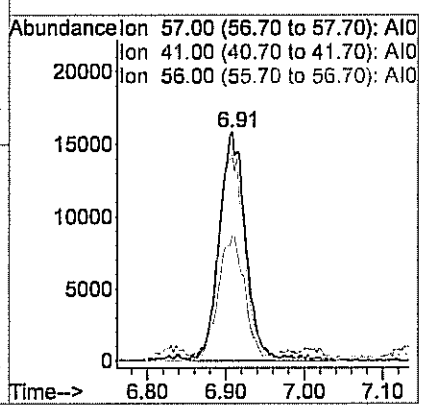


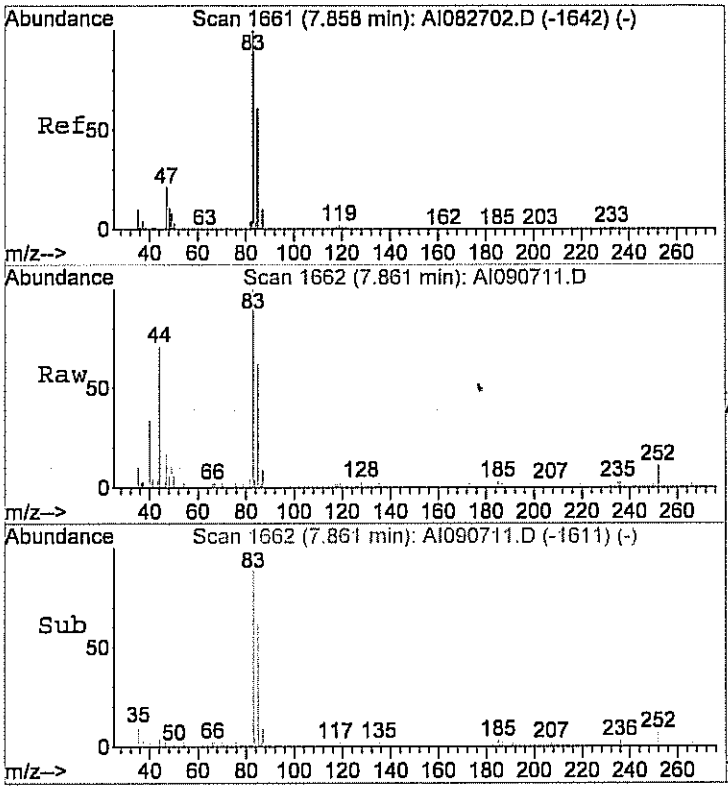


#27
Hexane
Concen: 2.22 ppb
RT: 6.91 min Scan# 1344
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 57 Resp: 37526

Ion	Ratio	Lower	Upper
57	100		
41	91.0	75.5	115.5
56	55.8	35.9	75.9

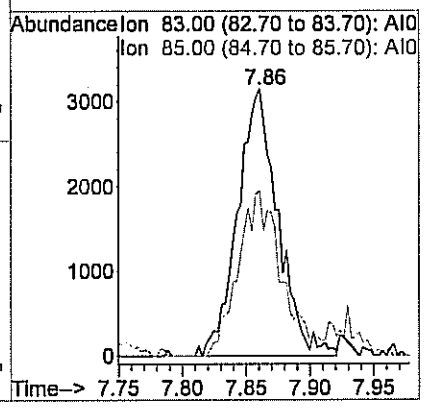


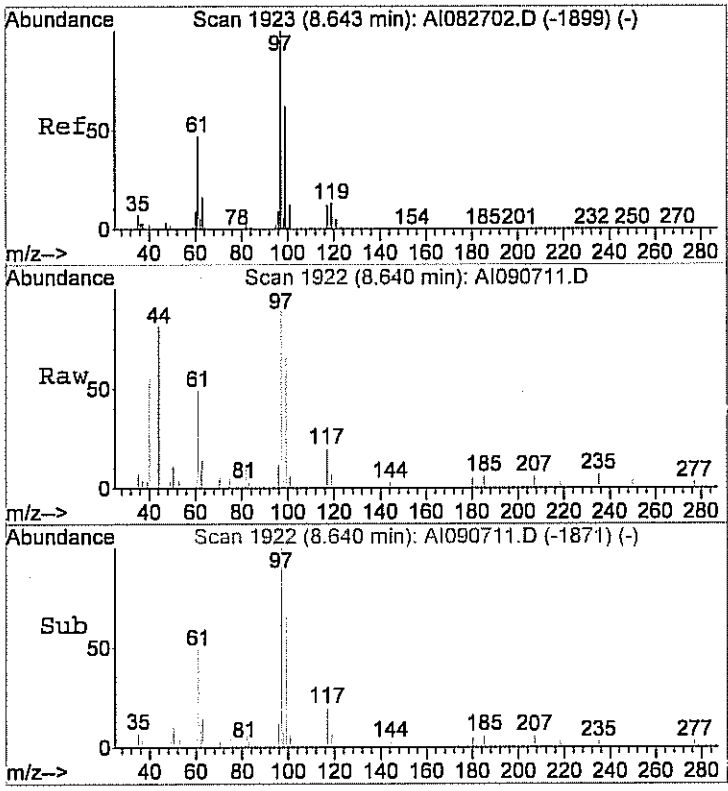


#29
Chloroform
Concen: 0.16 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 83 Resp: 6910

Ion	Ratio	Lower	Upper
83	100		
85	75.0	45.0	85.0

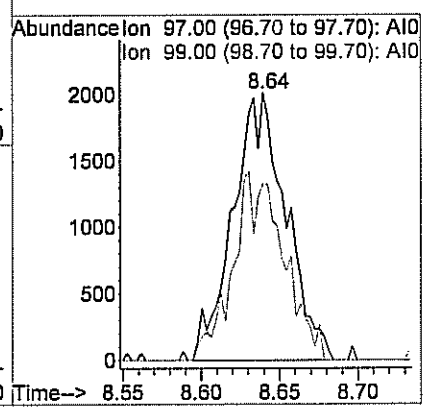


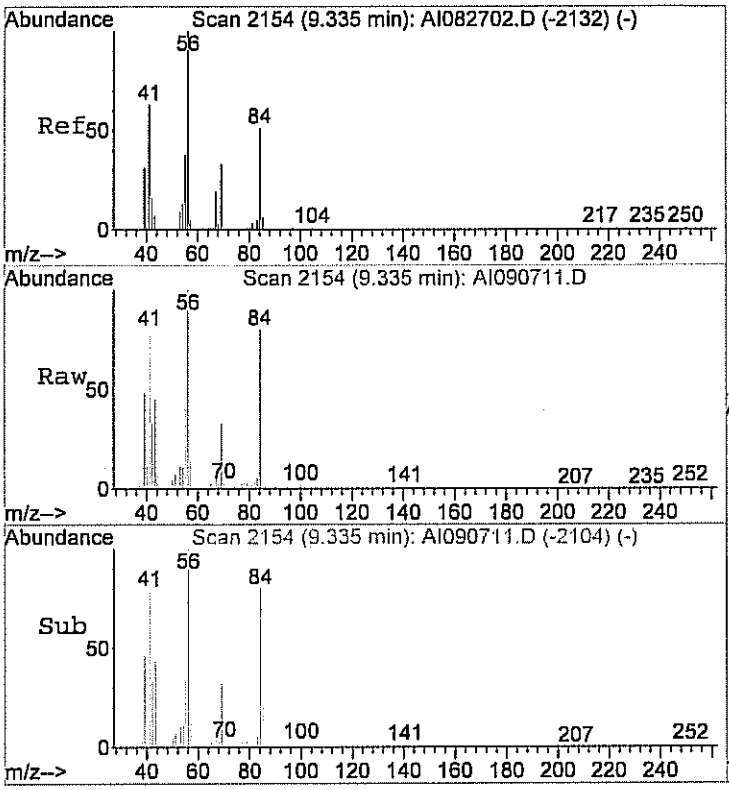


#33
1,1,1-trichloroethane
Concen: 0.13 ppb
RT: 8.64 min Scan# 1922
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 97 Resp: 4703

Ion	Ratio	Lower	Upper
97	100		
99	67.1	43.8	83.8

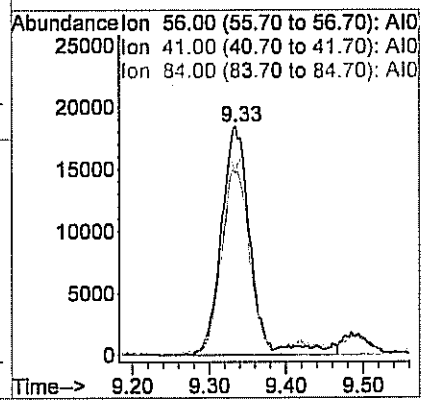


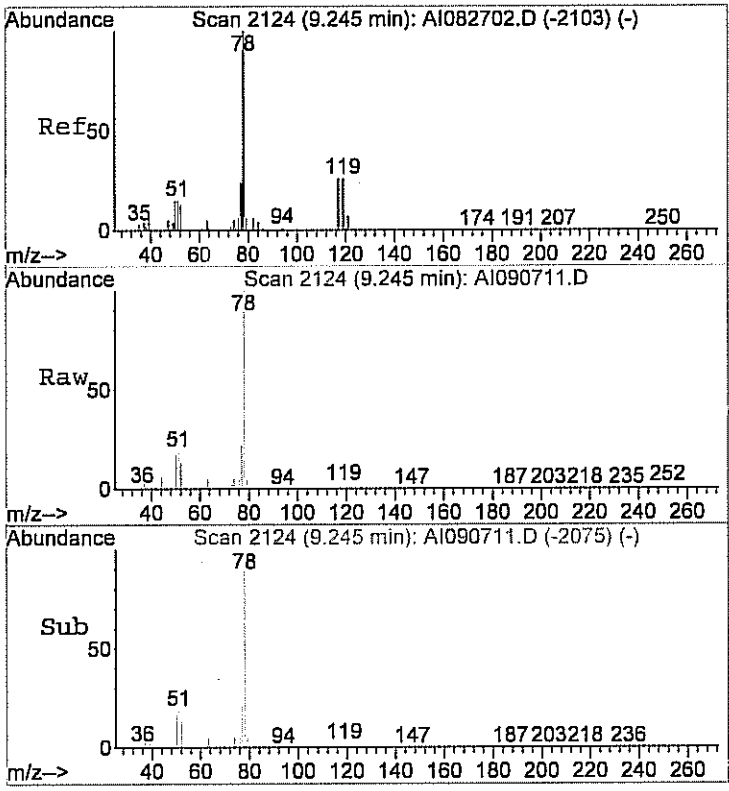


#34
Cyclohexane
Concen: 2.99 ppb
RT: 9.33 min Scan# 2154
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 56 Resp: 49316

Ion	Ratio	Lower	Upper
56	100		
41	85.7	49.1	89.1
84	79.5	114.6	154.6#

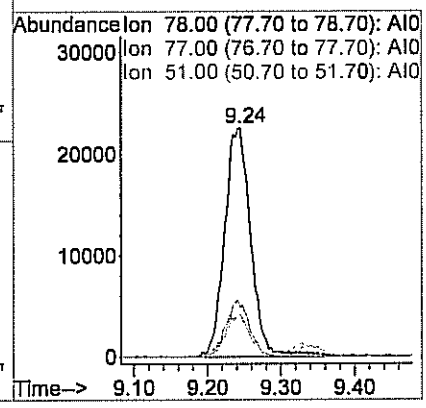


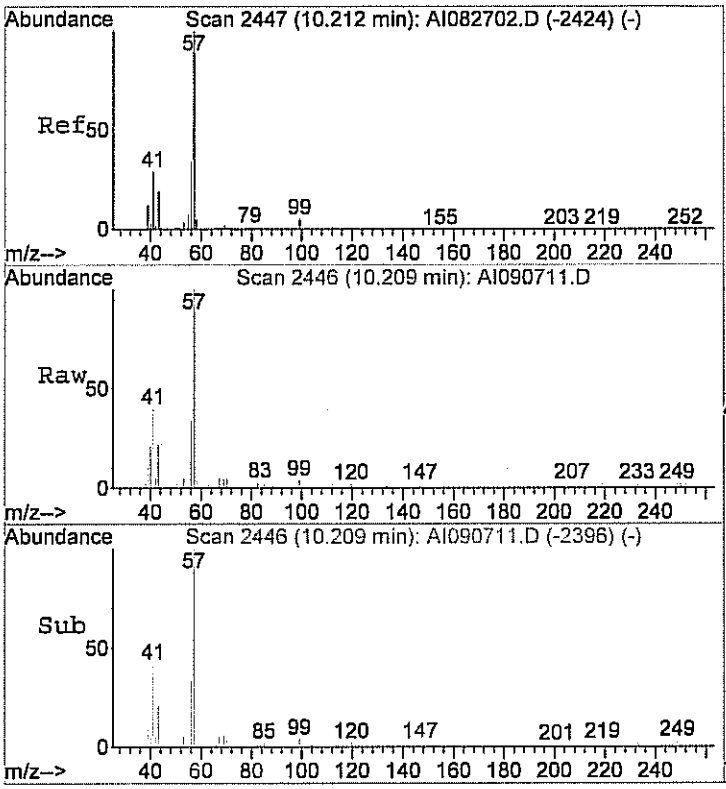


#36
Benzene
Concen: 1.30 ppb
RT: 9.24 min Scan# 2124
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 78 Resp: 56289

Ion	Ratio	Lower	Upper
78	100		
77	22.4	5.2	45.2
51	17.2	0.0	37.6

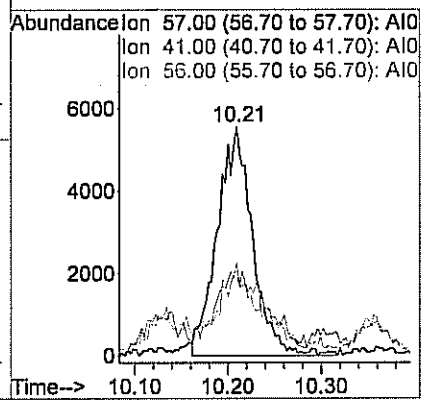


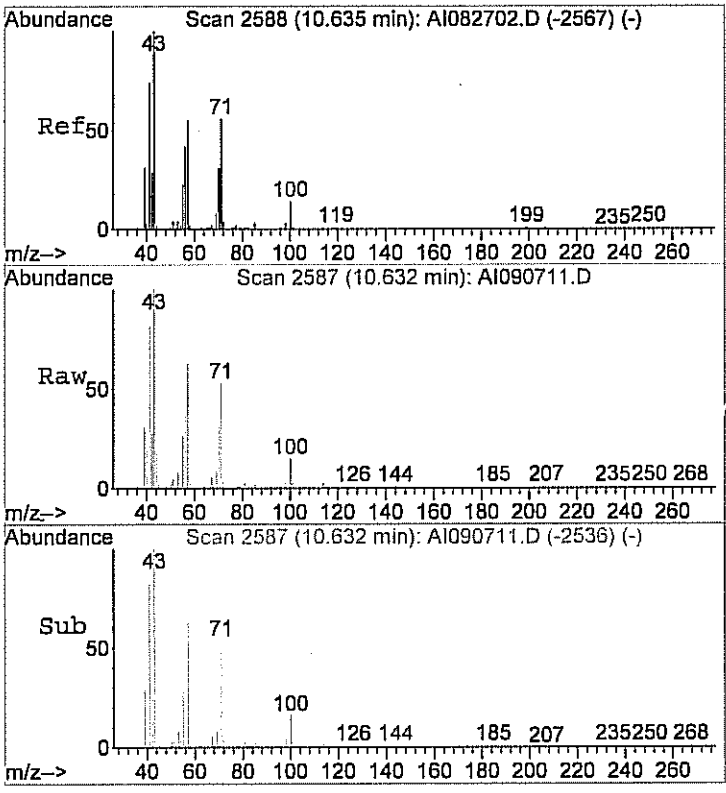


#39
2,2,4-trimethylpentane
Concen: 0.32 ppb
RT: 10.21 min Scan# 2446
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 57 Resp: 14621

Ion	Ratio	Lower	Upper
57	100		
41	87.6	17.9	57.9#
56	74.4	13.7	53.7#

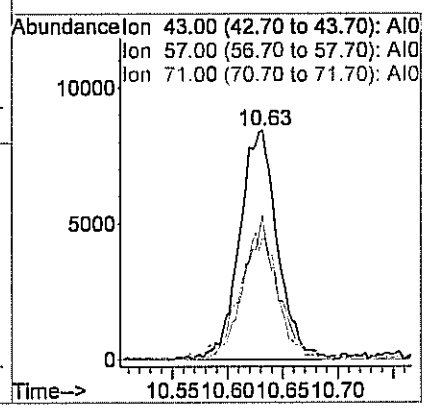


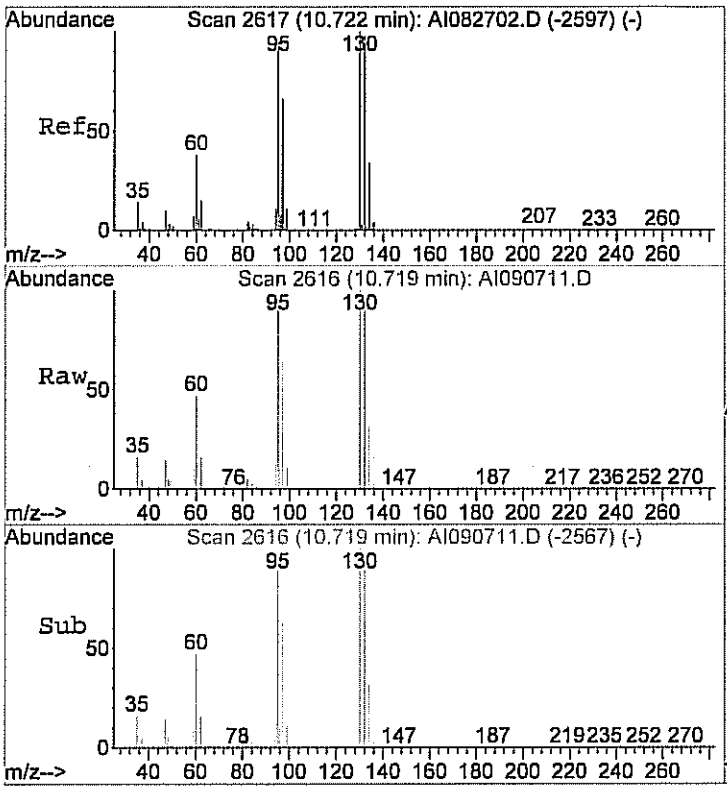


#40
Heptane
Concen: 1.28 ppb
RT: 10.63 min Scan# 2587
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 43 Resp: 20185

Ion	Ratio	Lower	Upper
43	100		
57	61.5	32.1	72.1
71	53.4	35.5	75.5

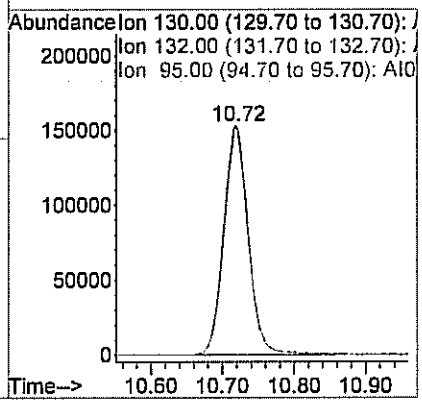


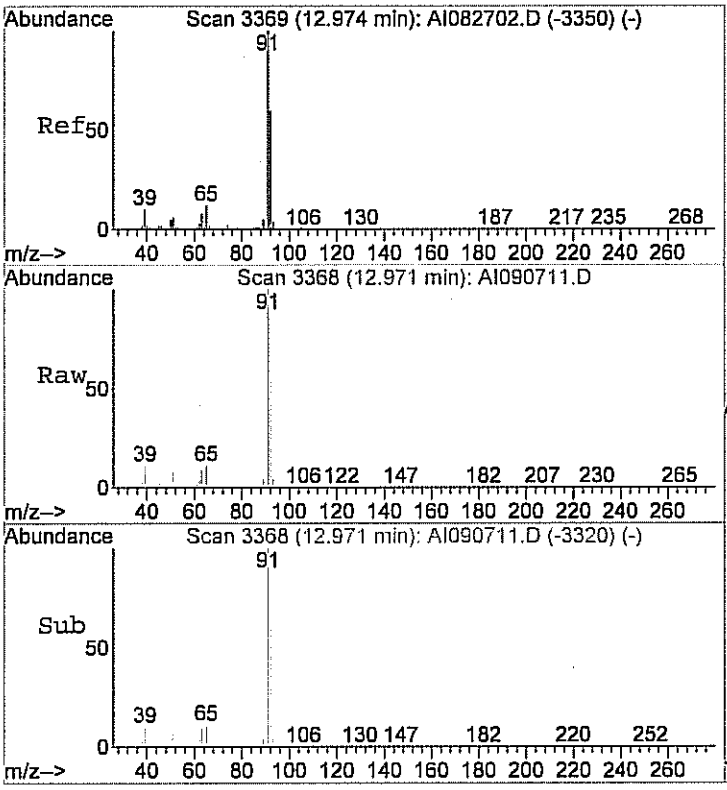


#41
Trichloroethene
Concen: 13.68 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:130 Resp: 360784

Ion	Ratio	Lower	Upper
130	100		
132	97.2	79.0	119.0
95	98.0	76.8	116.8

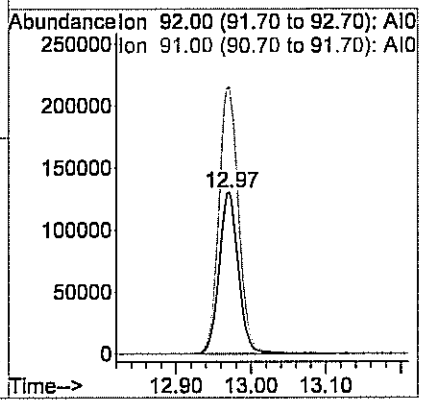


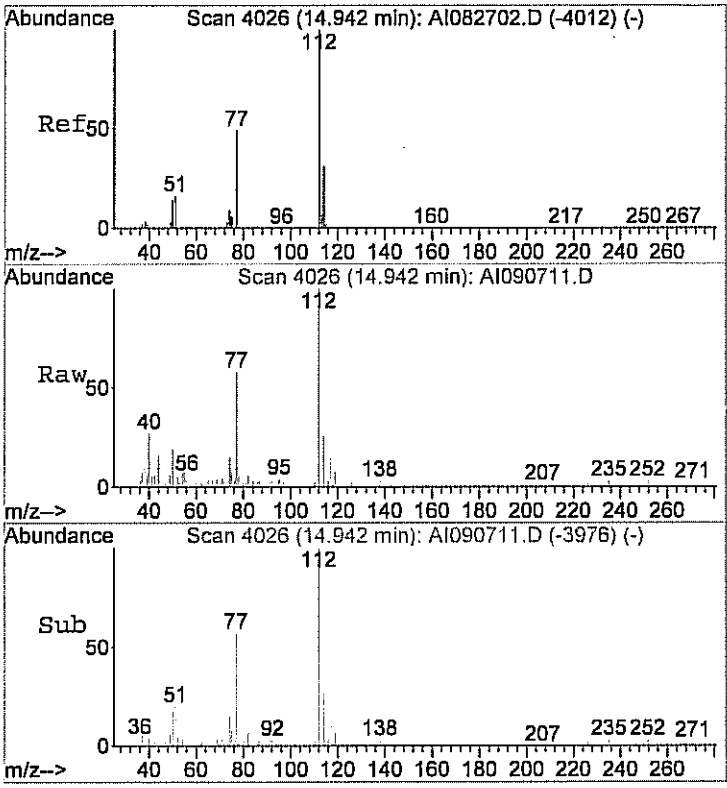


#48
Toluene
Concen: 7.73 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 92 Resp: 230473

Ion	Ratio	Lower	Upper
92	100		
91	169.0	159.8	199.8

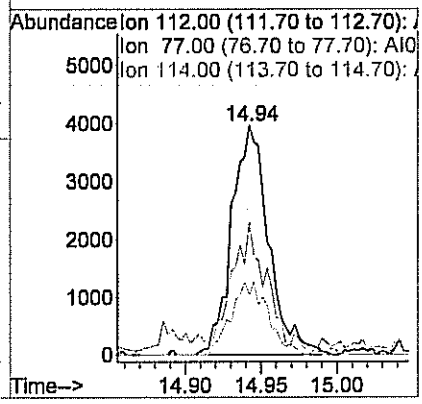


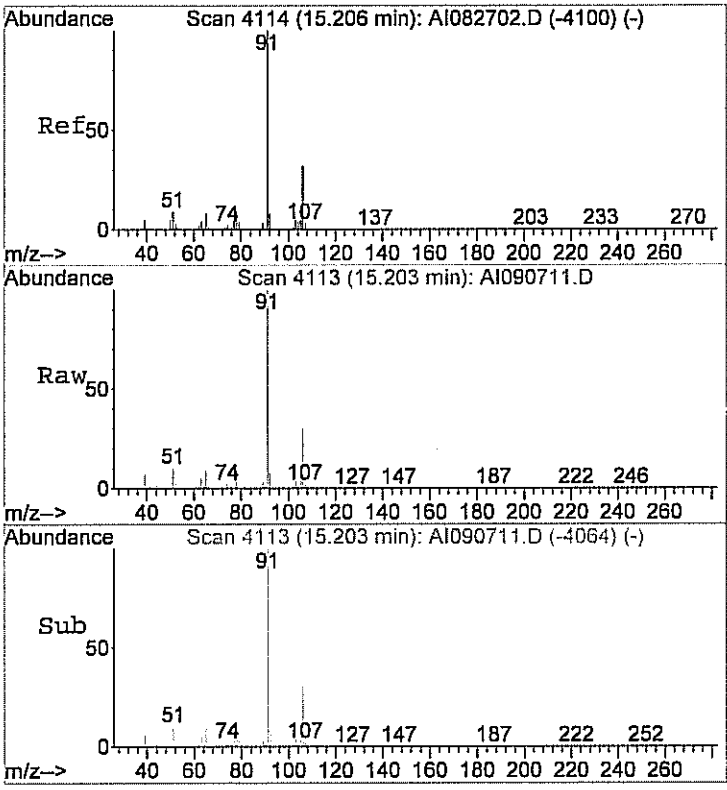


#54
Chlorobenzene
Concen: 0.14 ppb
RT: 14.94 min Scan# 4026
Delta R.T. 0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:112 Resp: 6748

Ion	Ratio	Lower	Upper
112	100		
77	57.4	32.4	72.4
114	31.9	13.1	53.1

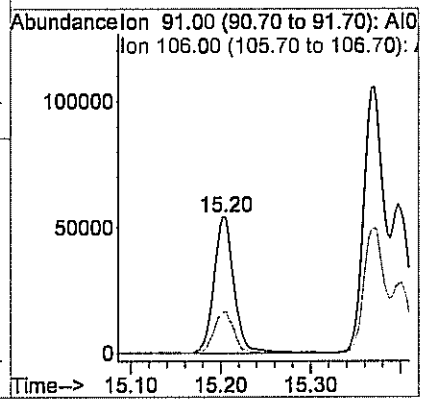


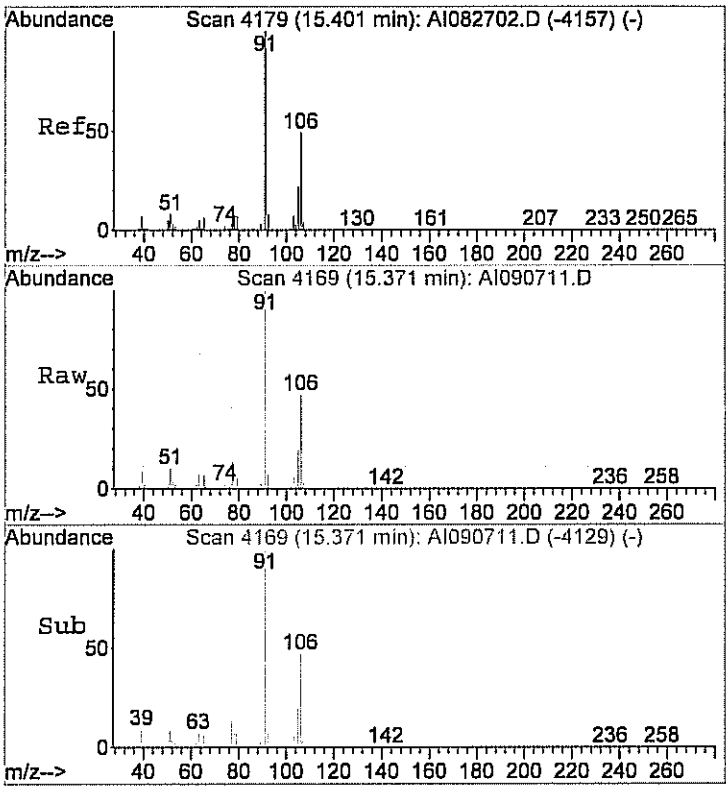


#55
Ethylbenzene
Concen: 1.39 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 91 Resp: 85001

Ion	Ratio	Lower	Upper
91	100		
106	30.4	10.7	50.7

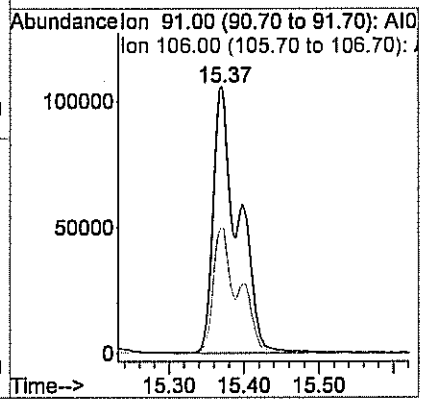


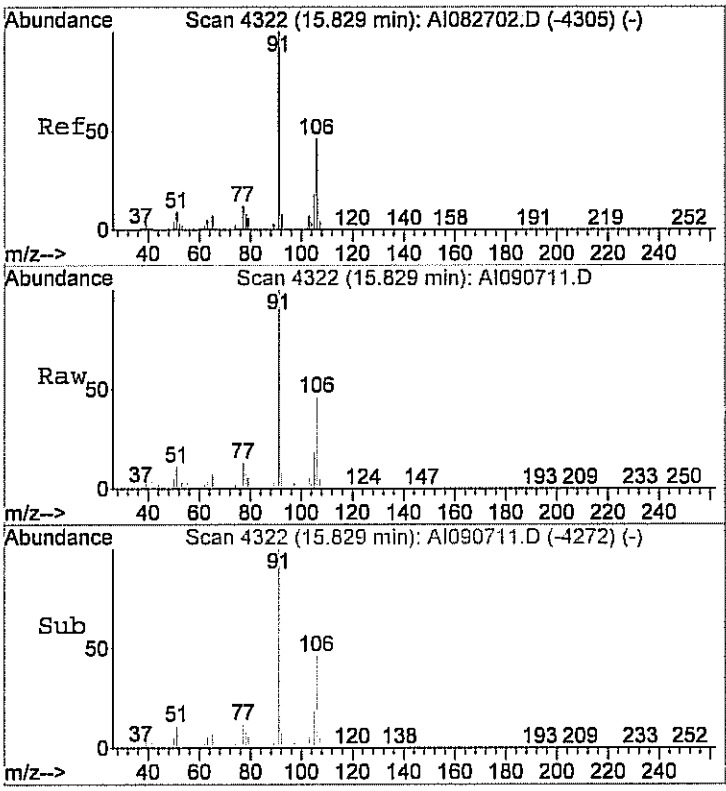


#56
m&p-xylene
Concen: 4.89 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 91 Resp: 244289

Ion	Ratio	Lower	Upper
91	100		
106	47.5	27.5	67.5

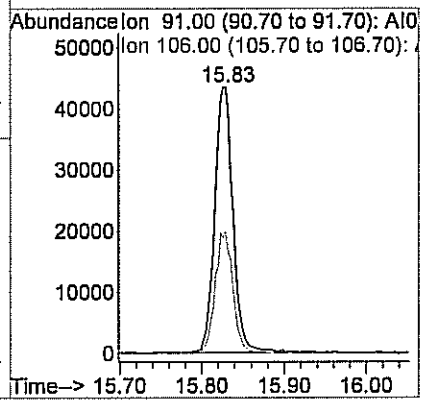


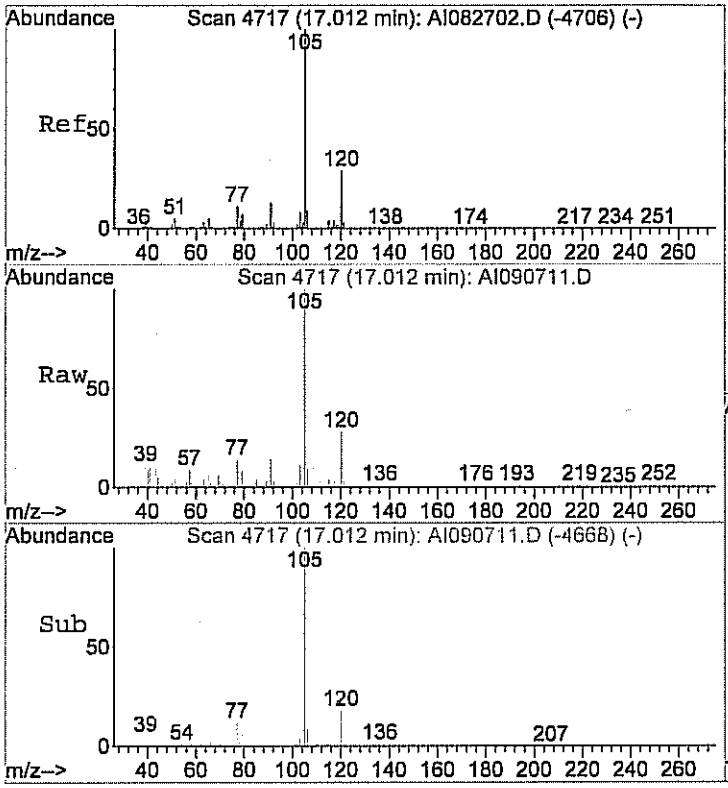


#59
o-xylene
Concen: 1.15 ppb
RT: 15.83 min Scan# 4322
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion: 91 Resp: 66722

Ion	Ratio	Lower	Upper
91	100		
106	45.5	26.2	66.2

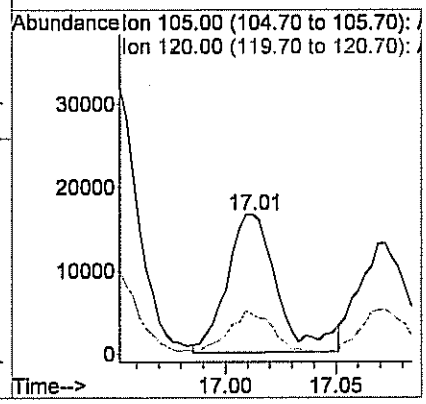


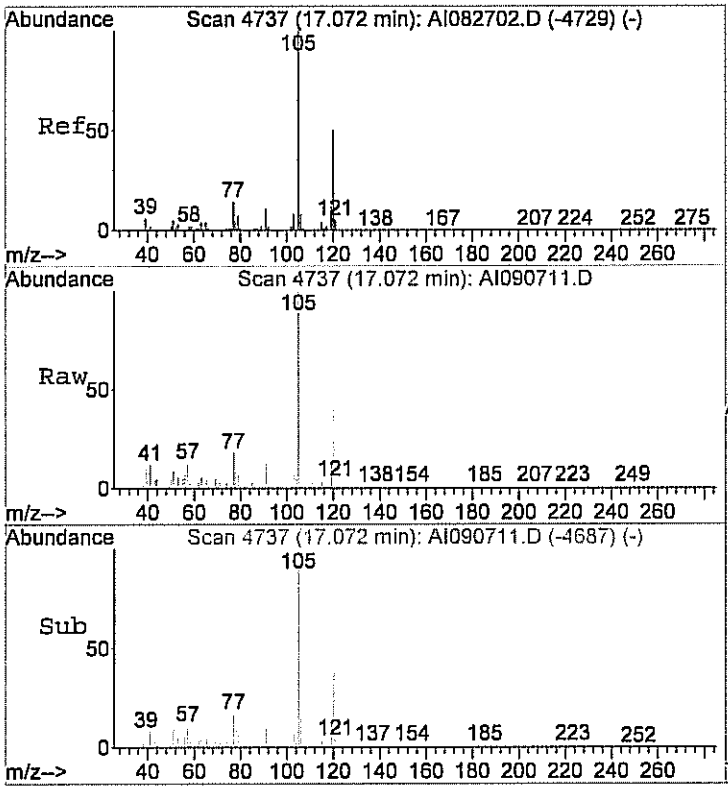


#63
4-ethyltoluene
Concen: 0.55 ppb
RT: 17.01 min Scan# 4717
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:105 Resp: 26317

Ion	Ratio	Lower	Upper
105	100		
120	27.3	8.1	48.1

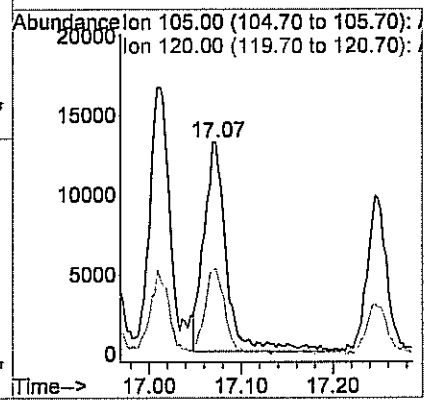


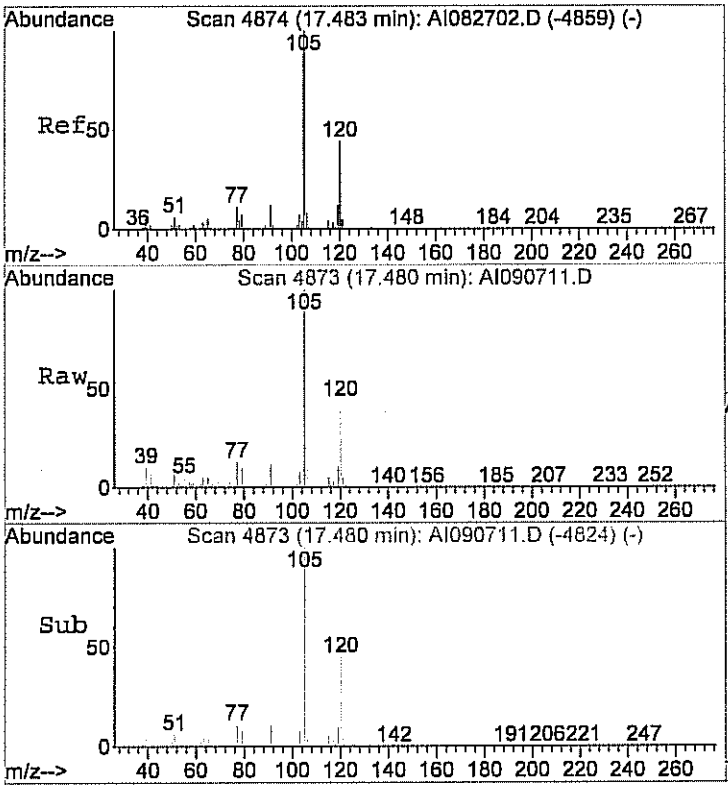


#64
1,3,5-trimethylbenzene
Concen: 0.43 ppb
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:105 Resp: 22297

Ion	Ratio	Lower	Upper
105	100		
120	37.1	26.2	66.2

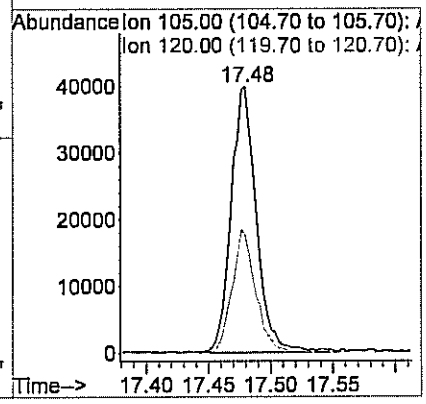




#65
1,2,4-trimethylbenzene
Concen: 1.34 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090711.D
Acq: 7 Sep 2011 4:49 pm

Tgt Ion:105 Resp: 56532

Ion	Ratio	Lower	Upper
105	100		
120	44.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090729.D Vial: 49
Acq On : 8 Sep 2011 2:42 am Operator: RJP
Sample : C1108077-005A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 03:03:07 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

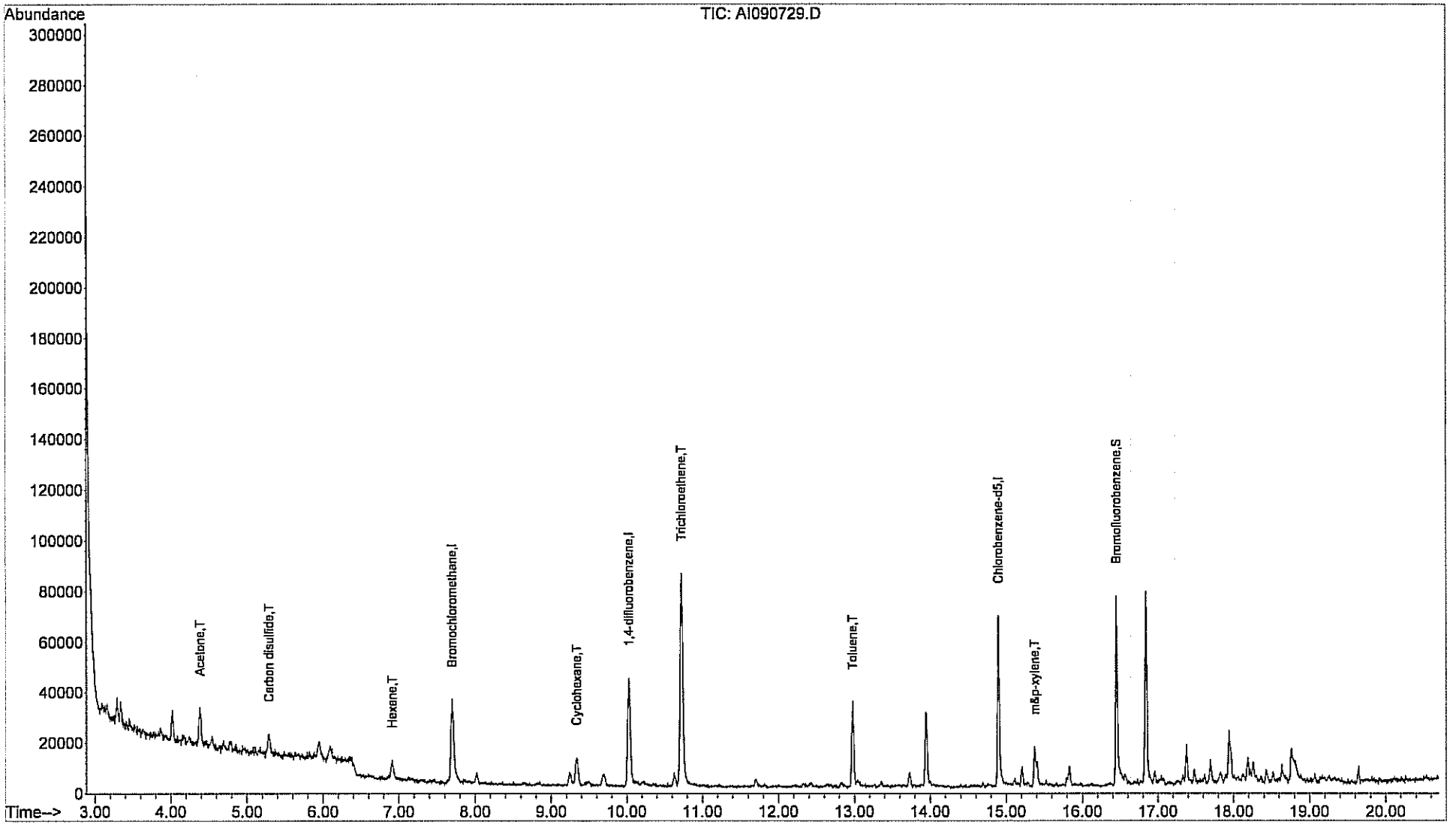
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	12638	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	43692	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	39445	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24450	1.23	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%				
Target Compounds							Qvalue
14) Acetone	4.38	58	2978	0.67	ppb	#	86
20) Carbon disulfide	5.29	76	15207	0.42	ppb		94
27) Hexane	6.91	57	3454m	0.22	ppb		
34) Cyclohexane	9.34	56	3838	0.27	ppb	#	67
41) Trichloroethene	10.72	130	37063	1.62	ppb		99
48) Toluene	12.98	92	15627	0.61	ppb		91
56) m&p-xylene	15.38	91	13944	0.32	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

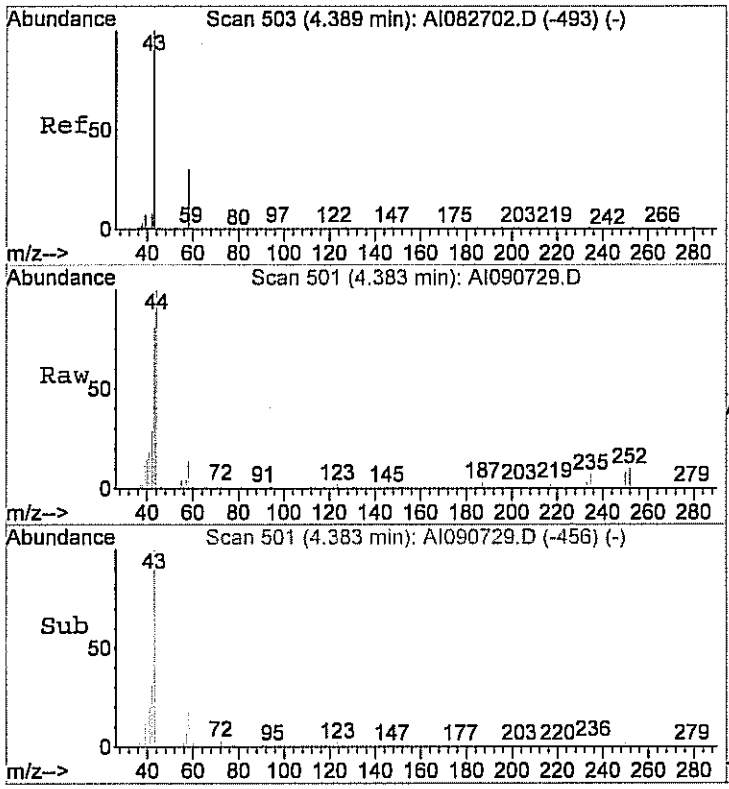
Data File : C:\HPCHEM\1\DATA\AI090729.D
Acq On : 8 Sep 2011 2:42 am
Sample : C1108077-005A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:58 2011

Vial: 49
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



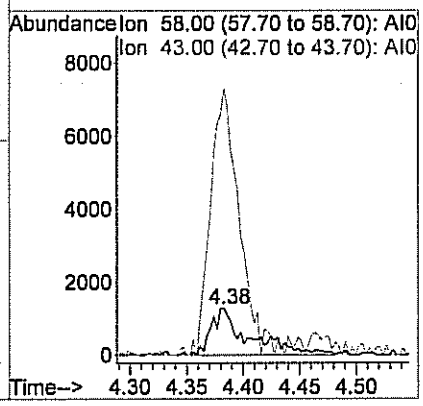
Centek Laboratories, LLC

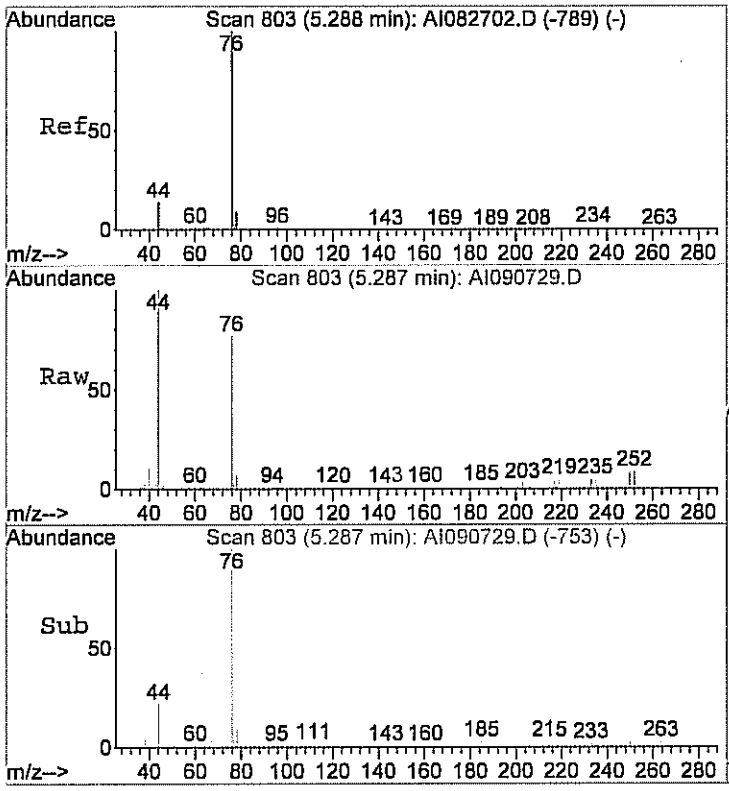


#14
Acetone
Concen: 0.67 ppb
RT: 4.38 min Scan# 501
Delta R.T. -0.02 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 58 Resp: 2978

Ion	Ratio	Lower	Upper
58	100		
43	422.7	360.8	420.8#

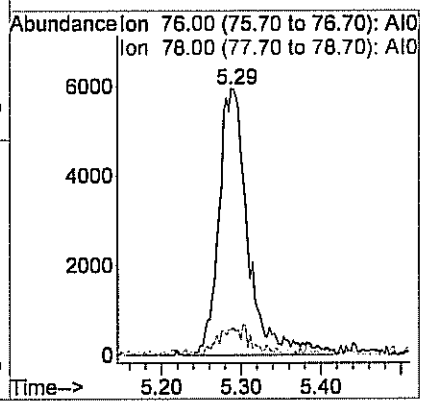


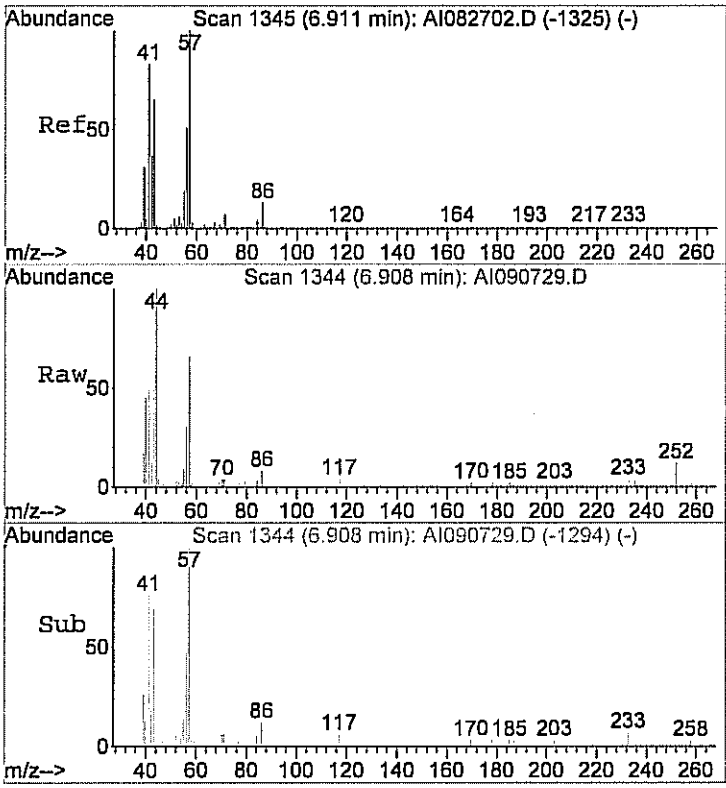


#20
Carbon disulfide
Concen: 0.42 ppb
RT: 5.29 min Scan# 803
Delta R.T. -0.00 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 76 Resp: 15207

Ion	Ratio	Lower	Upper
76	100		
78	11.8	0.0	29.6

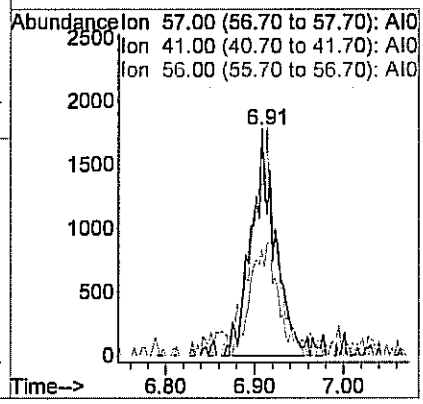


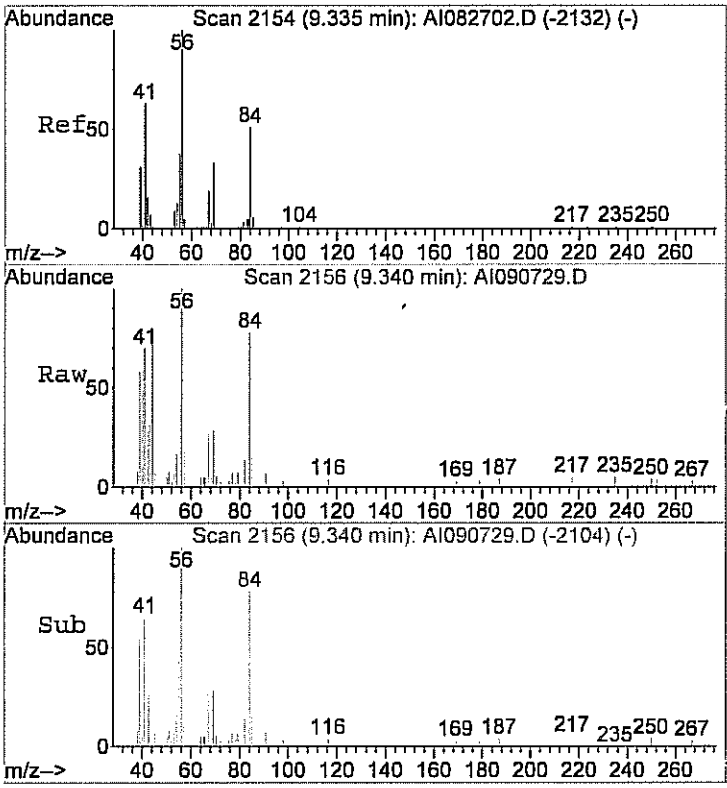


#27
Hexane
Concen: 0.22 ppb m
RT: 6.91 min Scan# 1344
Delta R.T. -0.00 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 57 Resp: 3454

Ion	Ratio	Lower	Upper
57	100		
41	93.1	75.5	115.5
56	54.6	35.9	75.9

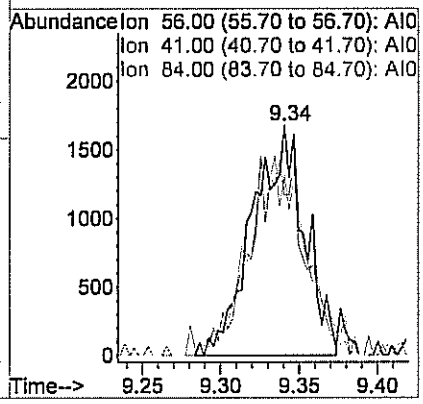


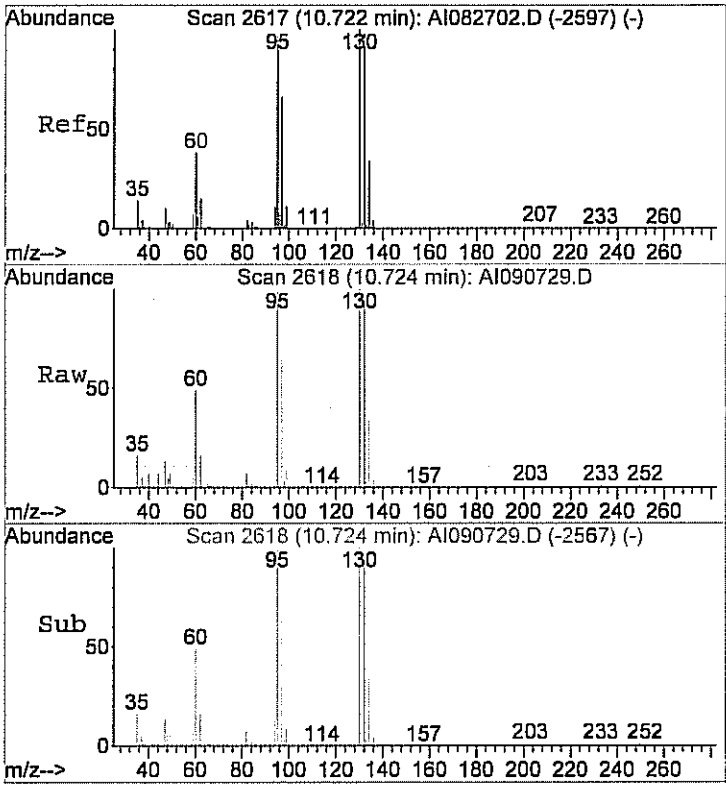


#34
Cyclohexane
Concen: 0.27 ppb
RT: 9.34 min Scan# 2156
Delta R.T. 0.01 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 56 Resp: 3838

Ion	Ratio	Lower	Upper
56	100		
41	92.4	49.1	89.1#
84	92.4	114.6	154.6#

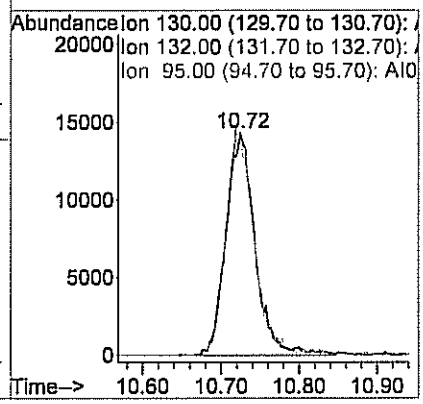


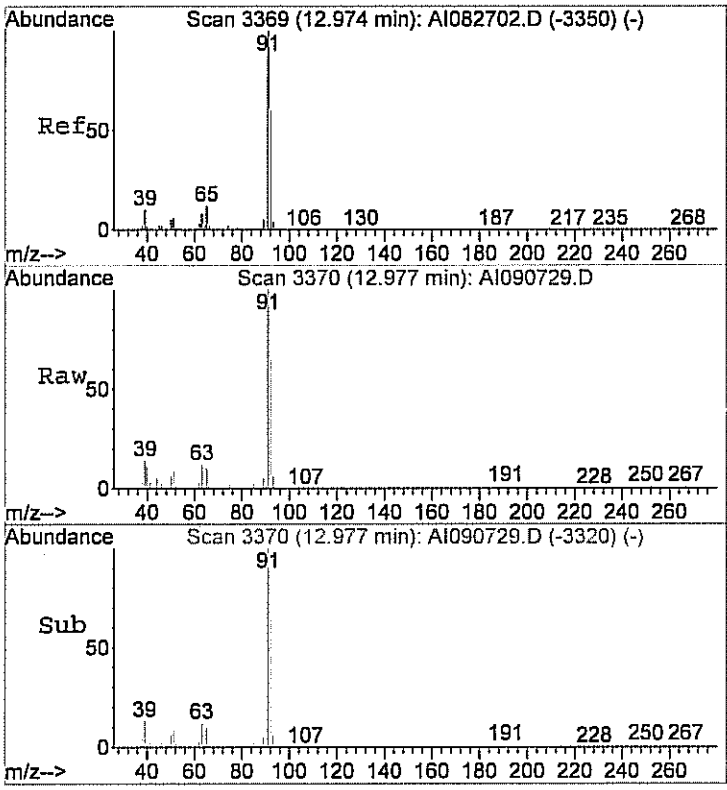


#41
Trichloroethene
Concen: 1.62 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion:130 Resp: 37063

Ion	Ratio	Lower	Upper
130	100		
132	99.8	79.0	119.0
95	97.5	76.8	116.8

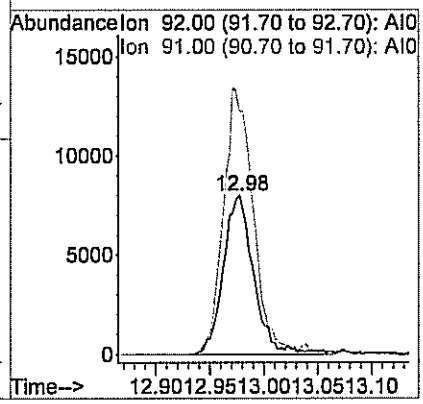


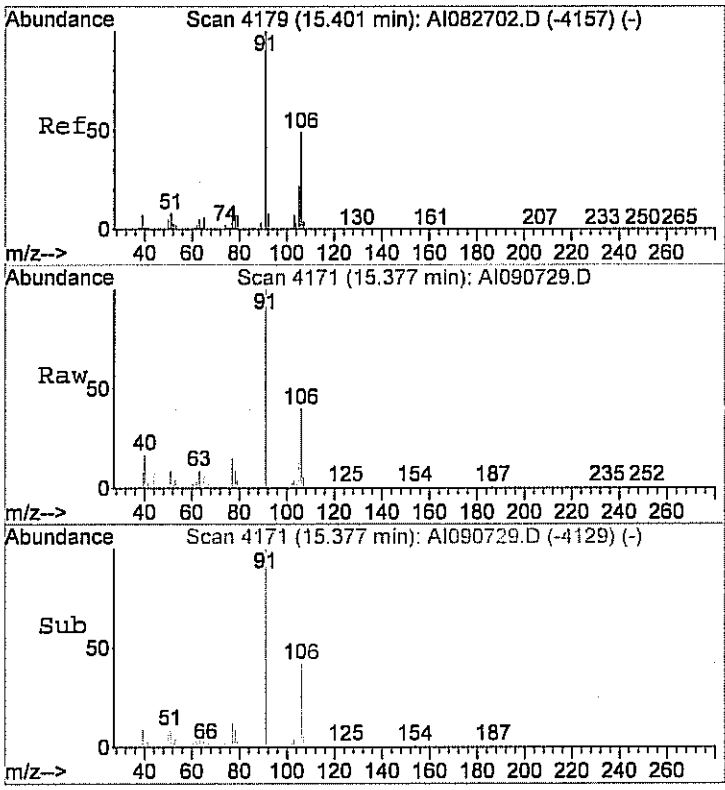


#48
Toluene
Concen: 0.61 ppb
RT: 12.98 min Scan# 3370
Delta R.T. -0.00 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 92 Resp: 15627

Ion	Ratio	Lower	Upper
92	100		
91	167.1	159.8	199.8

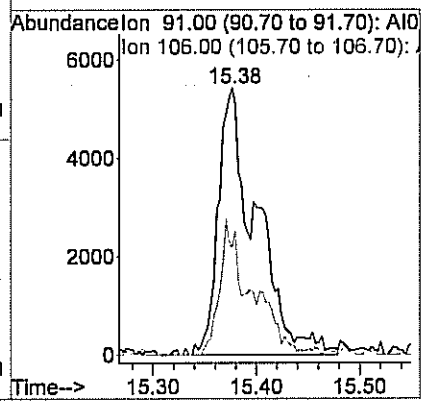




#56
m&p-xylene
Concen: 0.32 ppb
RT: 15.38 min Scan# 4171
Delta R.T. -0.02 min
Lab File: AI090729.D
Acq: 8 Sep 2011 2:42 am

Tgt Ion: 91 Resp: 13944

Ion	Ratio	Lower	Upper
91	100		
106	42.7	27.5	67.5



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.86	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	0.45	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.17	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.10	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Acetone	8.7	3.0		ppbV	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroform	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 11	0.39	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 5:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 3:15:00 AM
m&p-Xylene	1.8	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	0.66	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Methylene chloride	1.0	0.15		ppbV	1	9/7/2011 5:23:00 PM
o-Xylene	0.68	0.15		ppbV	1	9/7/2011 5:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	0.32	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Toluene	0.55	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Trichloroethene	110	14		ppbV	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collectiou Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.85	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.50	0.75	J	ug/m3	1	9/7/2011 5:23:00 PM
Acetone	21	7.2		ug/m3	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:23:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:23:00 PM
Chloroform	2.8	0.74		ug/m3	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	2.1	0.60		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
Ethylbenzene	2.3	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Freon 11	2.2	0.86		ug/m3	1	9/7/2011 5:23:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 5:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 3:15:00 AM
m&p-Xylene	8.2	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:23:00 PM
Methylene chloride	3.7	0.53		ug/m3	1	9/7/2011 5:23:00 PM
o-Xylene	3.0	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	2.2	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:23:00 PM
Toluene	2.1	0.57		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Trichloroethene	610	76		ug/m3	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090712.D Vial: 32
Acq On : 7 Sep 2011 5:23 pm Operator: RJP
Sample : C1108077-006A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 17:44:46 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

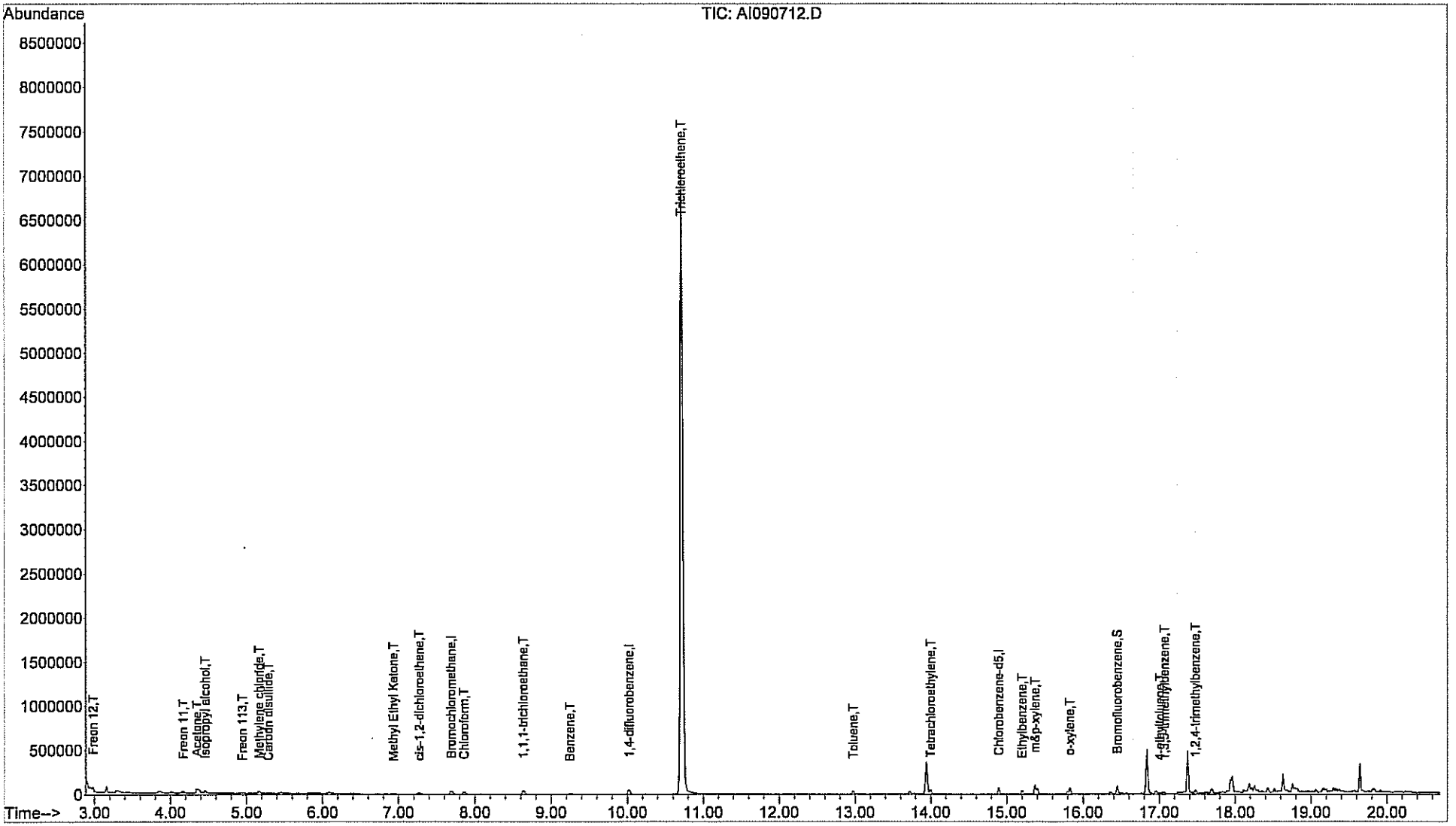
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13685	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	49698	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	41644	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	26378	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	33252	0.57	ppb		99
13) Freon 11	4.17	101	17630	0.39	ppb		98
14) Acetone	4.35	58	29050	6.01	ppb	#	86
15) Isopropyl alcohol	4.46	45	25975	2.63	ppb	#	100
17) Freon 113	4.95	101	3406	0.11	ppb		97
18) Methylene chloride	5.17	84	12894	1.04	ppb		94
20) Carbon disulfide	5.29	76	4497	0.12	ppb		85
25) Methyl Ethyl Ketone	6.94	72	2974	0.66	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	10224	0.51	ppb		93
29) Chloroform	7.86	83	24086	0.57	ppb		99
33) 1,1,1-trichloroethane	8.63	97	31359	0.86	ppb		97
36) Benzene	9.24	78	5185	0.12	ppb		97
41) Trichloroethene	10.72	130	3022944	116.41	ppb		99
48) Toluene	12.97	92	14946	0.55	ppb		95
53) Tetrachloroethylene	14.00	164	9255	0.32	ppb		96
55) Ethylbenzene	15.20	91	28424	0.51	ppb		99
56) m&p-xylene	15.37	91	84348	1.85	ppb		98
59) o-xylene	15.83	91	36044	0.68	ppb		98
63) 4-ethyltoluene	17.02	105	4539m	0.10	ppb		
64) 1,3,5-trimethylbenzene	17.07	105	8183m	0.17	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	17418	0.45	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

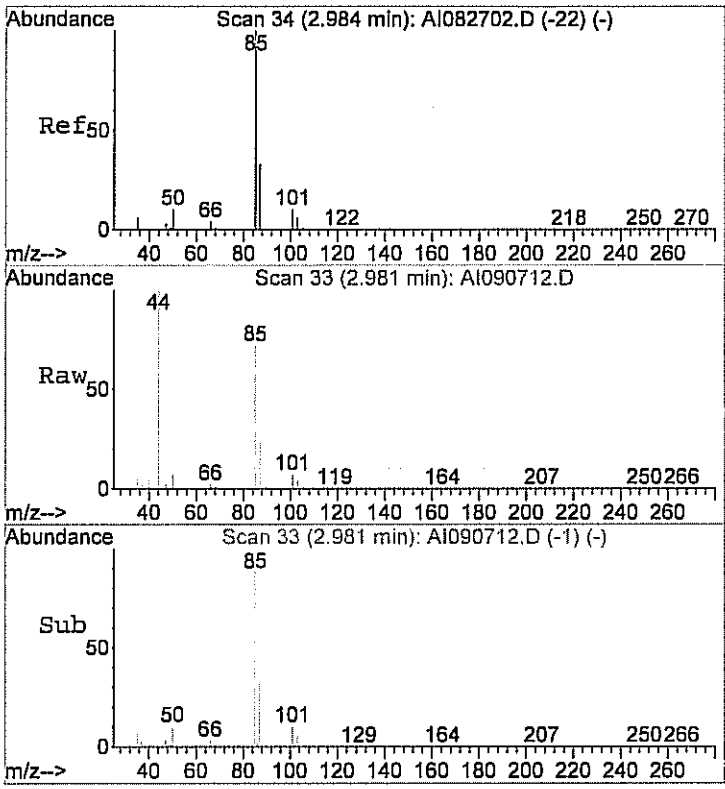
Data File : C:\HPCHEM\1\DATA\AI090712.D
Acq On : 7 Sep 2011 5:23 pm
Sample : C1108077-006A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:18 2011

Vial: 32
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



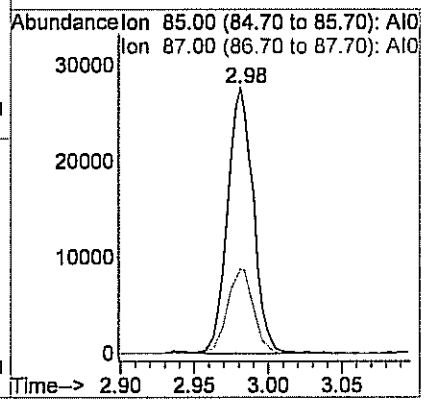
Centek Laboratories, LLC

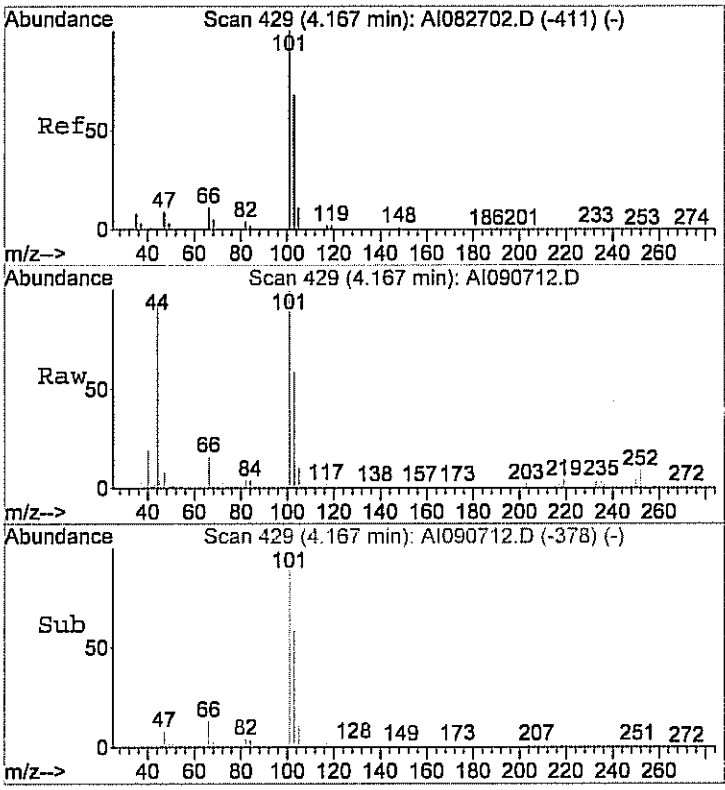


#3
Freon 12
Concen: 0.57 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 85 Resp: 33252

Ion	Ratio	Lower	Upper
85	100		
87	31.9	12.2	52.2

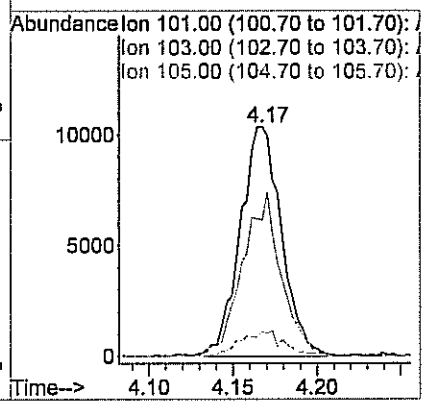


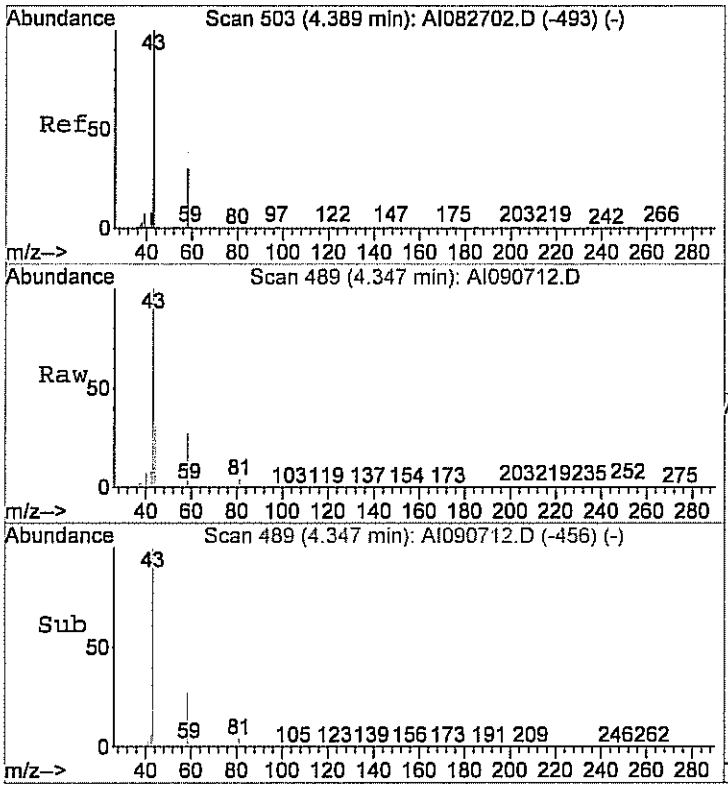


#13
Freon 11
Concen: 0.39 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:101 Resp: 17630

Ion	Ratio	Lower	Upper
101	100		
103	66.7	44.9	84.9
105	11.8	0.0	30.9

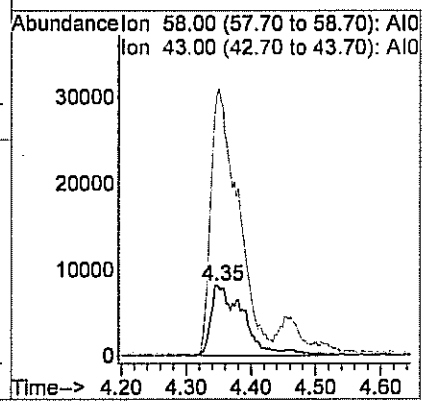


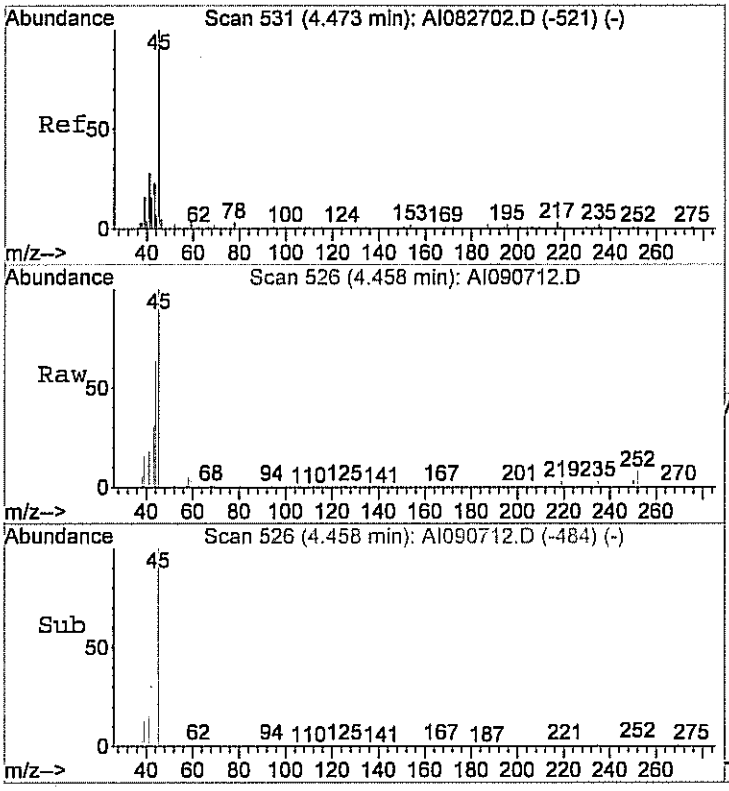


#14
Acetone
Concen: 6.01 ppb
RT: 4.35 min Scan# 489
Delta R.T. -0.05 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 58 Resp: 29050

Ion	Ratio	Lower	Upper
58	100		
43	358.2	360.8	420.8#

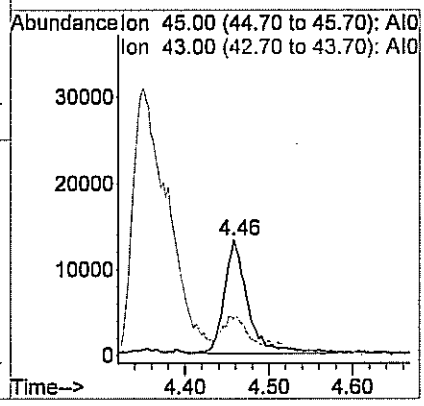


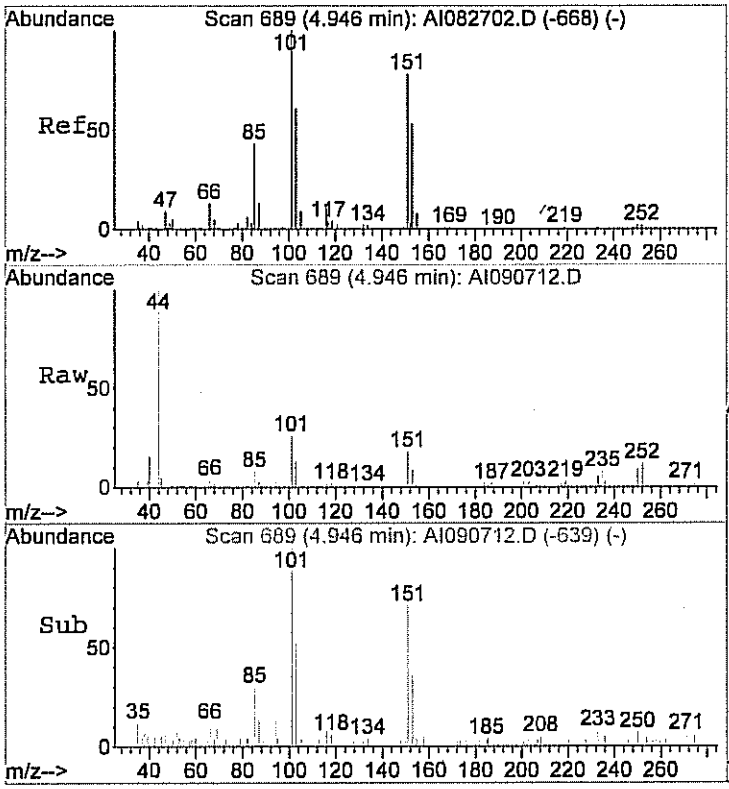


#15
Isopropyl alcohol
Concen: 2.63 ppb
RT: 4.46 min Scan# 526
Delta R.T. -0.02 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 45 Resp: 25975

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

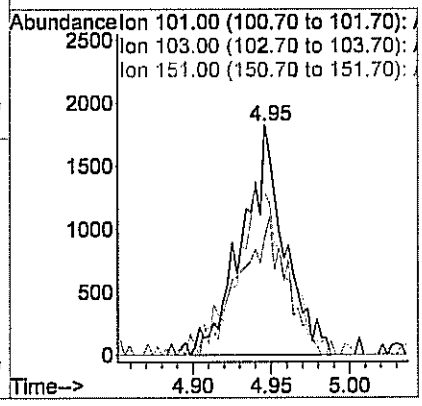


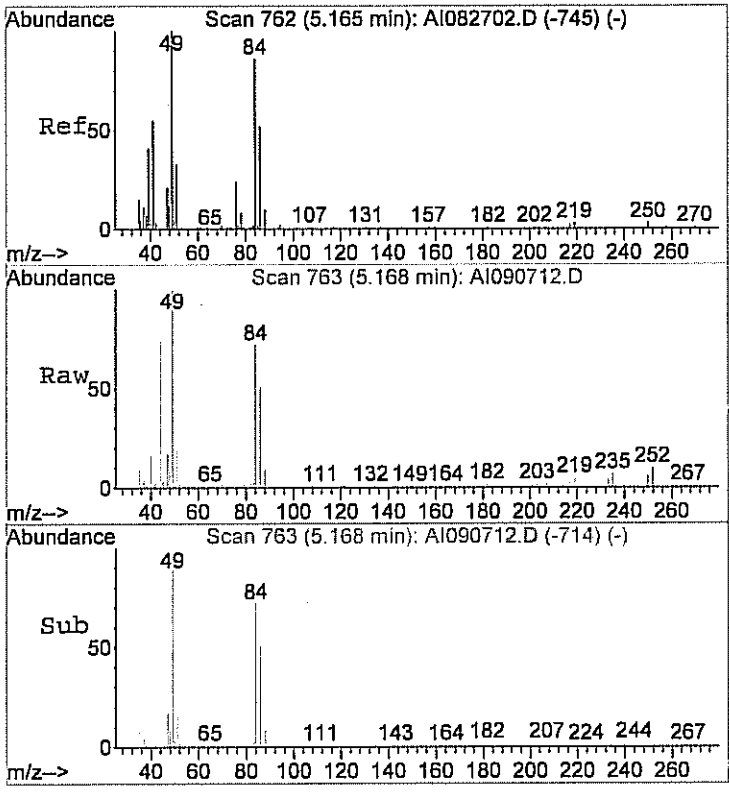


#17
Freon 113
Concen: 0.11 ppb
RT: 4.95 min Scan# 689
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:101 Resp: 3406

Ion	Ratio	Lower	Upper
101	100		
103	63.2	44.3	84.3
151	85.0	61.0	101.0

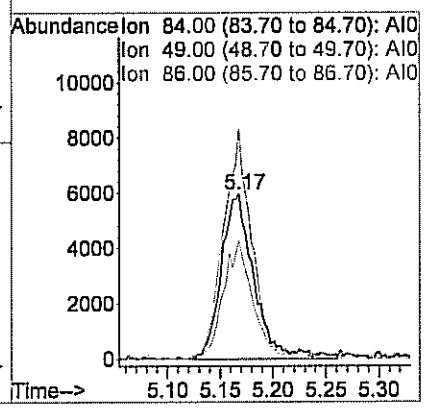


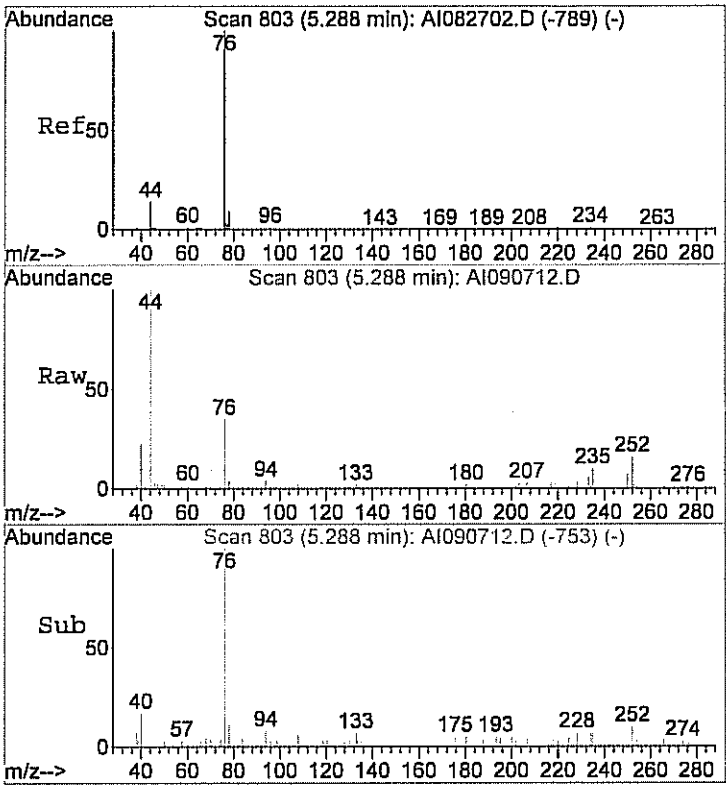


#18
Methylene chloride
Concen: 1.04 ppb
RT: 5.17 min Scan# 763
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 84 Resp: 12894

Ion	Ratio	Lower	Upper
84	100		
49	126.6	116.9	156.9
86	66.1	46.7	86.7

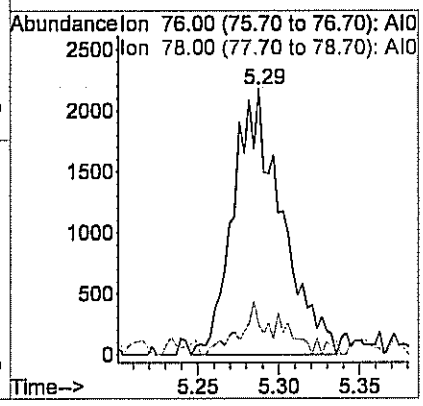


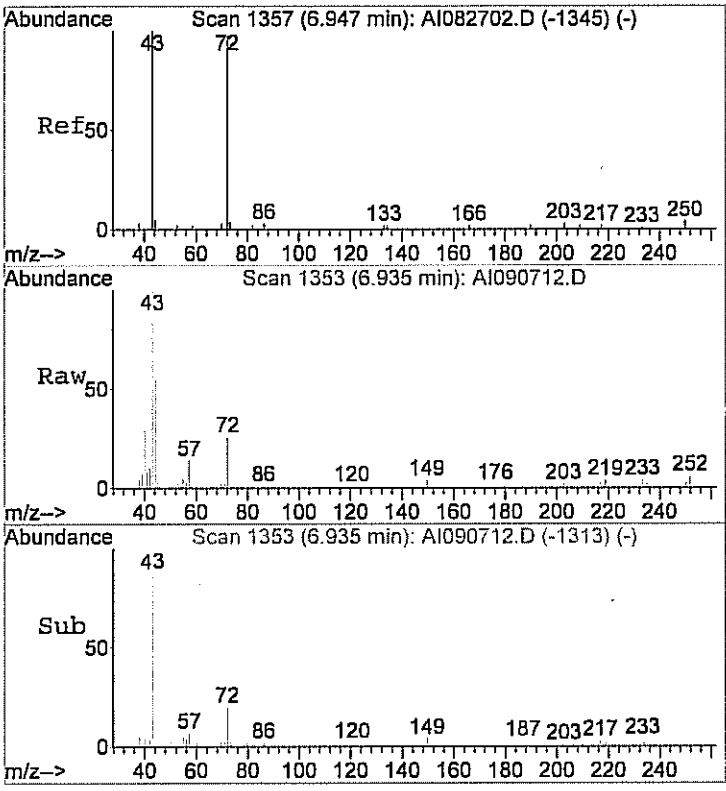


#20
Carbon disulfide
Concen: 0.12 ppb
RT: 5.29 min Scan# 803
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 76 Resp: 4497

Ion	Ratio	Lower	Upper
76	100		
78	14.9	0.0	29.6

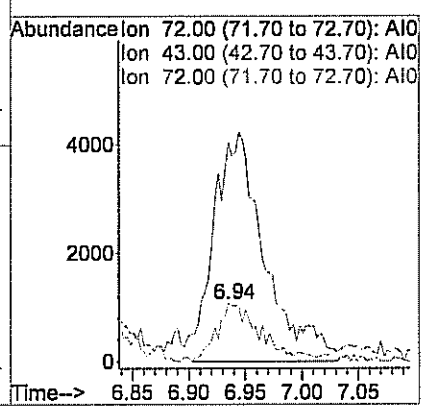


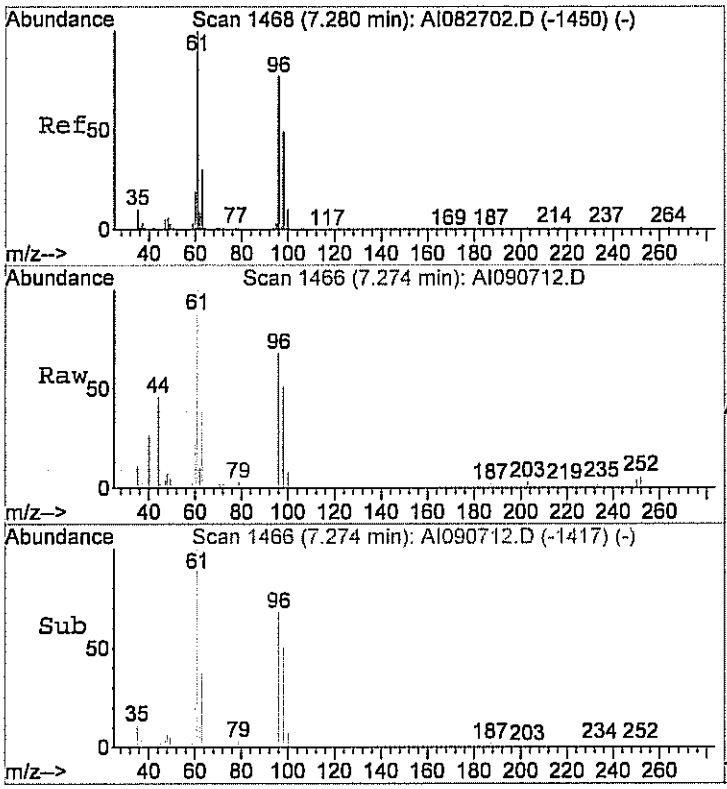


#25
Methyl Ethyl Ketone
Concen: 0.66 ppb
RT: 6.94 min Scan# 1353
Delta R.T. -0.03 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 72 Resp: 2974

Ion	Ratio	Lower	Upper
72	100		
43	465.6	0.0	20.0#
72	100.0	80.0	120.0

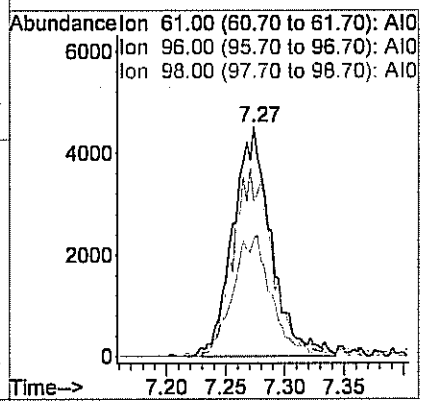


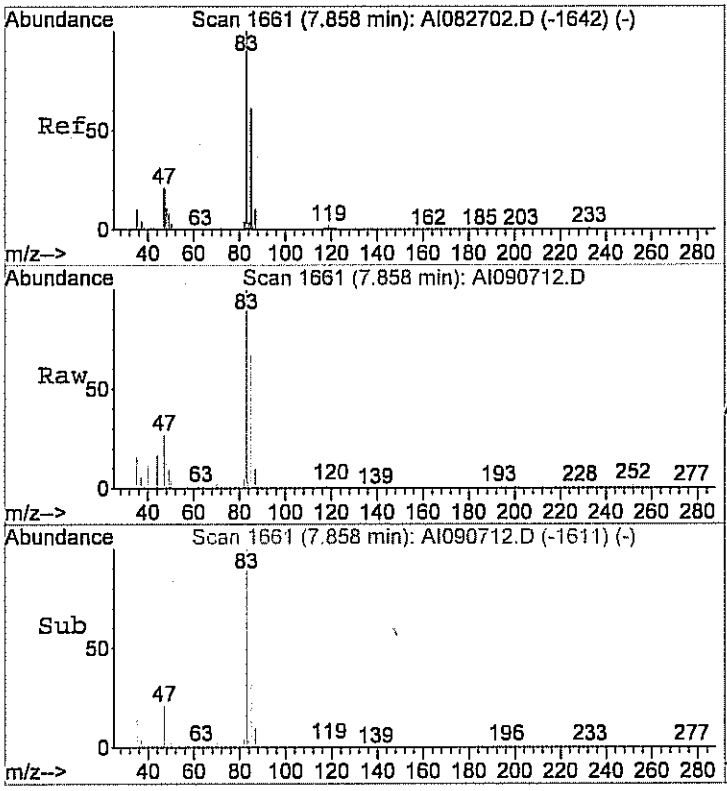


#26
cis-1,2-dichloroethene
Concen: 0.51 ppb
RT: 7.27 min Scan# 1466
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 61 Resp: 10224

Ion	Ratio	Lower	Upper
61	100		
96	85.4	56.6	96.6
98	52.3	30.4	70.4

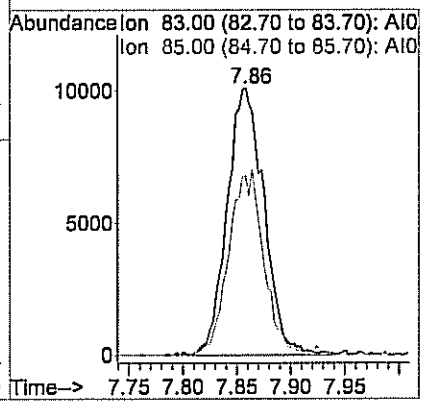


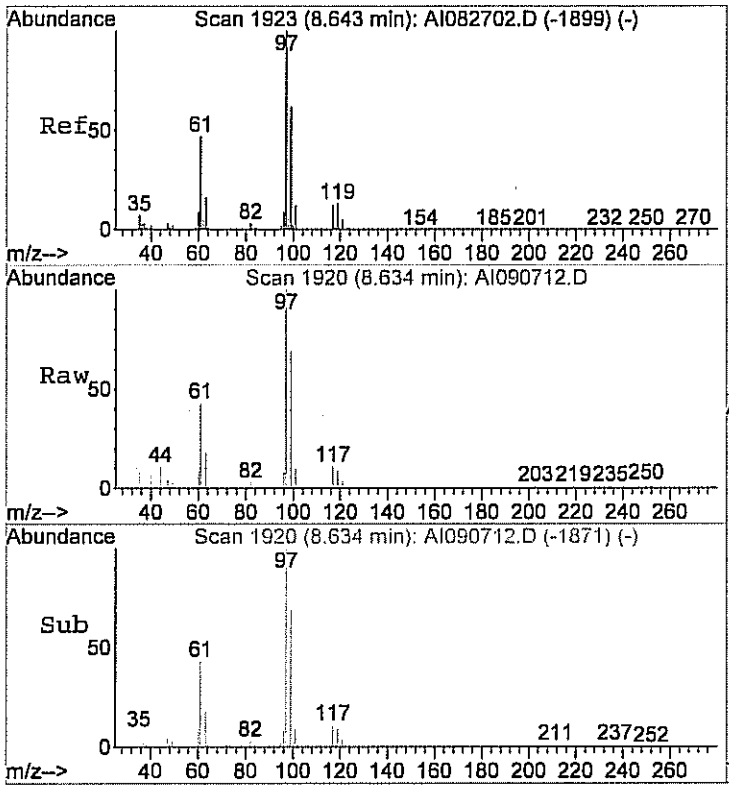


#29
Chloroform
Concen: 0.57 ppb
RT: 7.86 min Scan# 1661
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 83 Resp: 24086

Ion	Ratio	Lower	Upper
83	100		
85	65.6	45.0	85.0

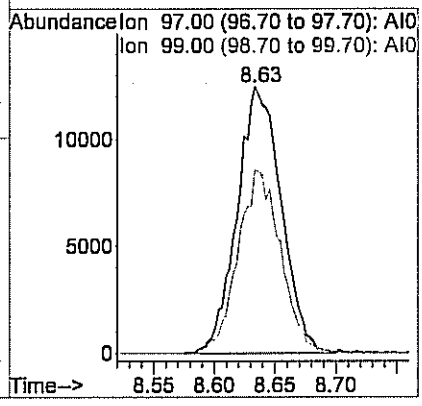


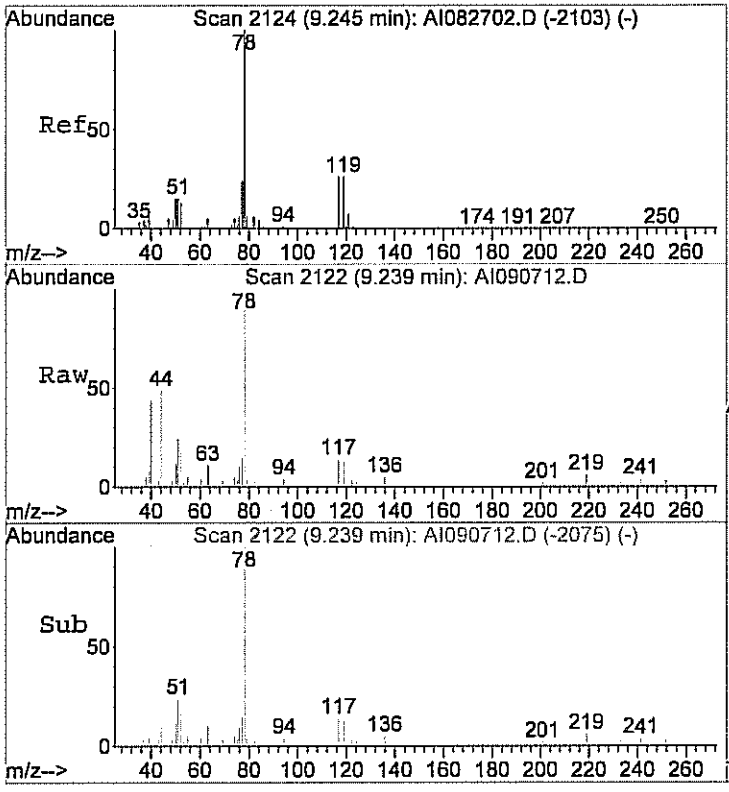


#33
1,1,1-trichloroethane
Concen: 0.86 ppb
RT: 8.63 min Scan# 1920
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 97 Resp: 31359

Ion	Ratio	Lower	Upper
97	100		
99	66.3	43.8	83.8

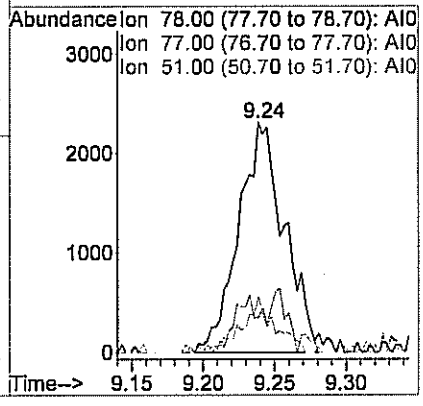


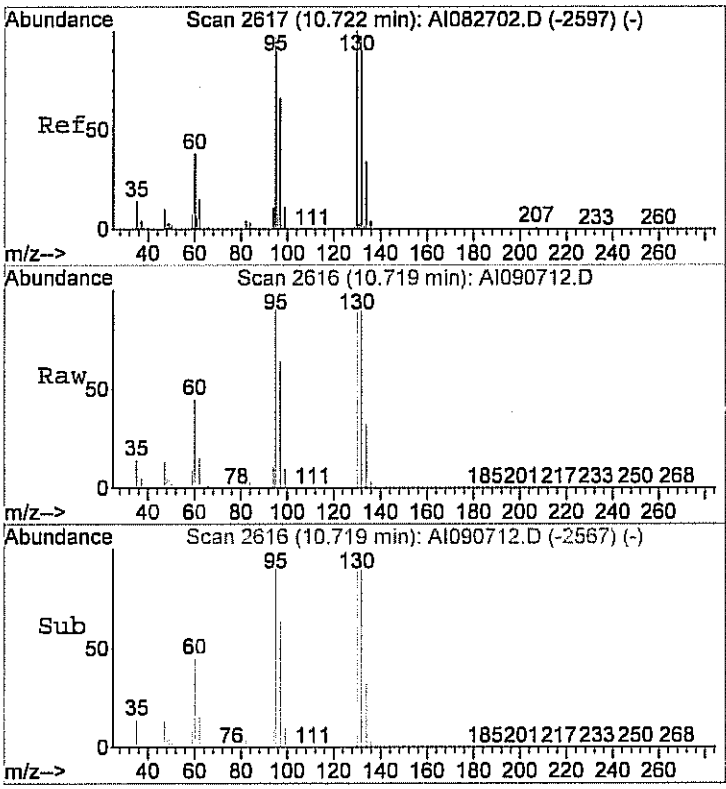


#36
Benzene
Concen: 0.12 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 78 Resp: 5185

Ion	Ratio	Lower	Upper
78	100		
77	23.2	5.2	45.2
51	16.5	0.0	37.6

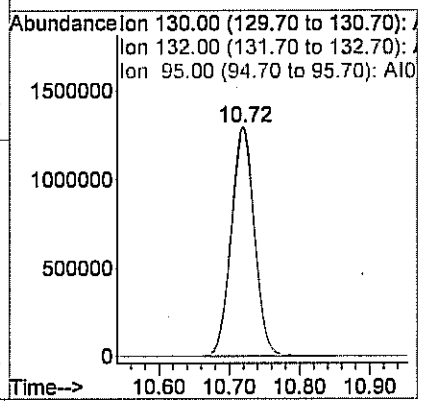


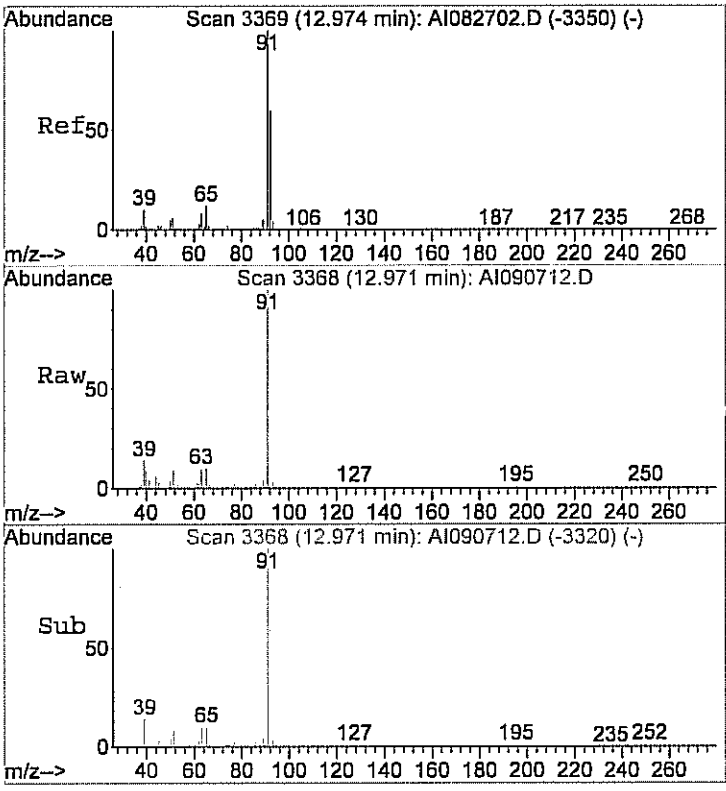


#41
Trichloroethene
Concen: 116.41 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:130 Resp: 3022944

Ion	Ratio	Lower	Upper
130	100		
132	97.2	79.0	119.0
95	97.0	76.8	116.8

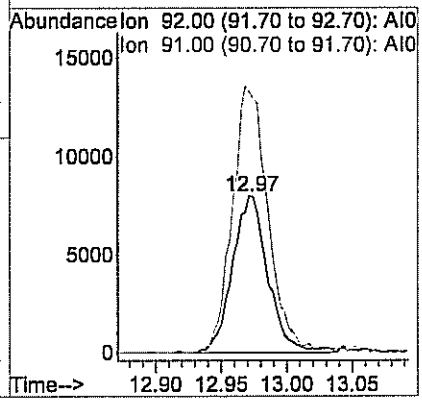


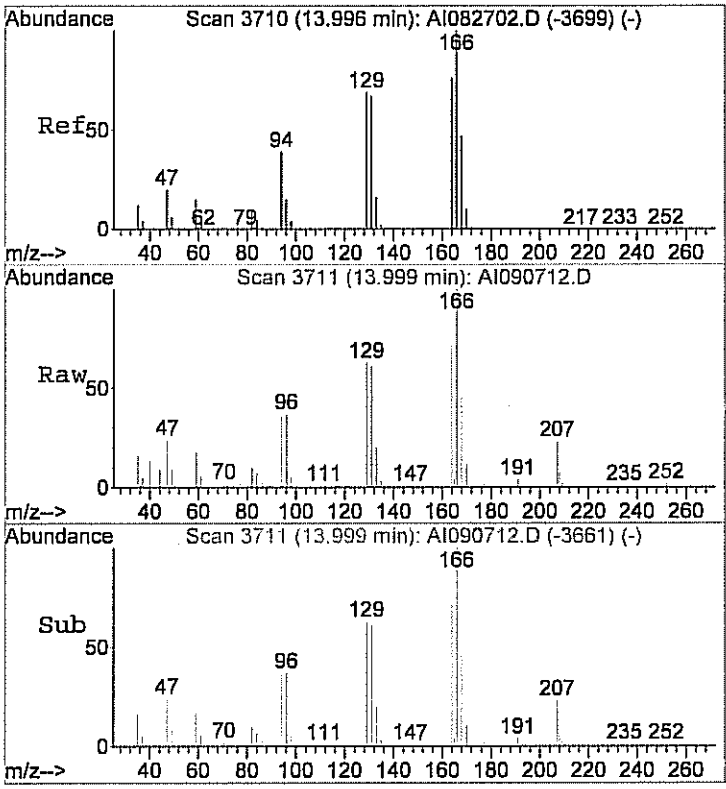


#48
Toluene
Concen: 0.55 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 92 Resp: 14946

Ion	Ratio	Lower	Upper
92	100		
91	172.3	159.8	199.8

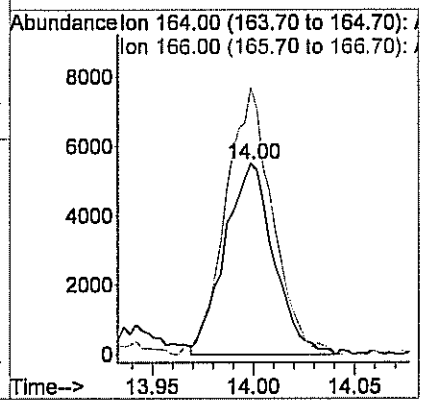


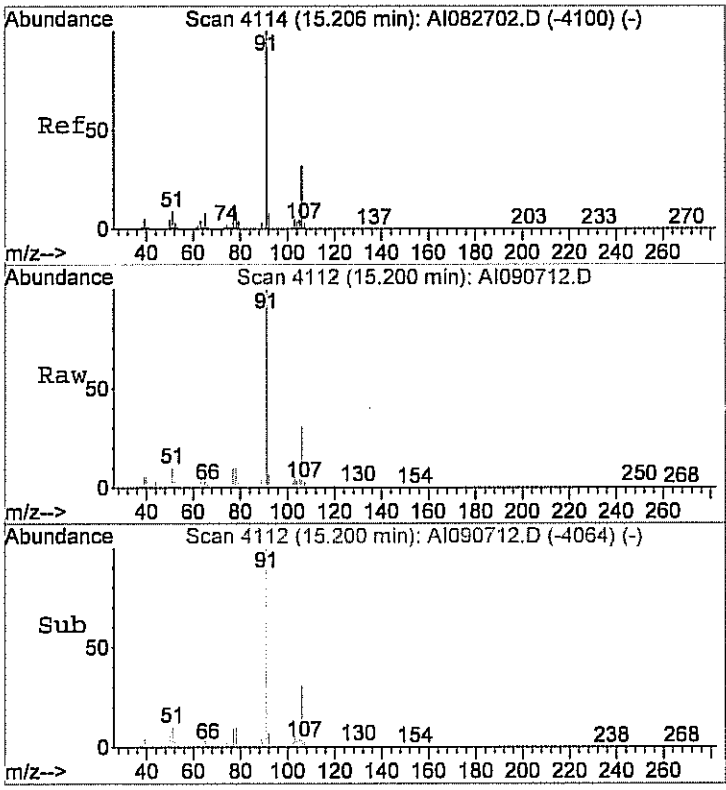


#53
Tetrachloroethylene
Concen: 0.32 ppb
RT: 14.00 min Scan# 3711
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:164 Resp: 9255

Ion	Ratio	Lower	Upper
164	100		
166	133.6	109.4	149.4

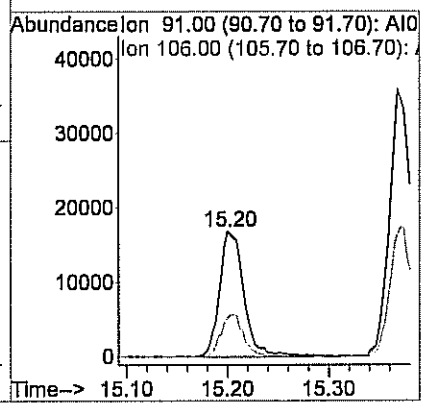


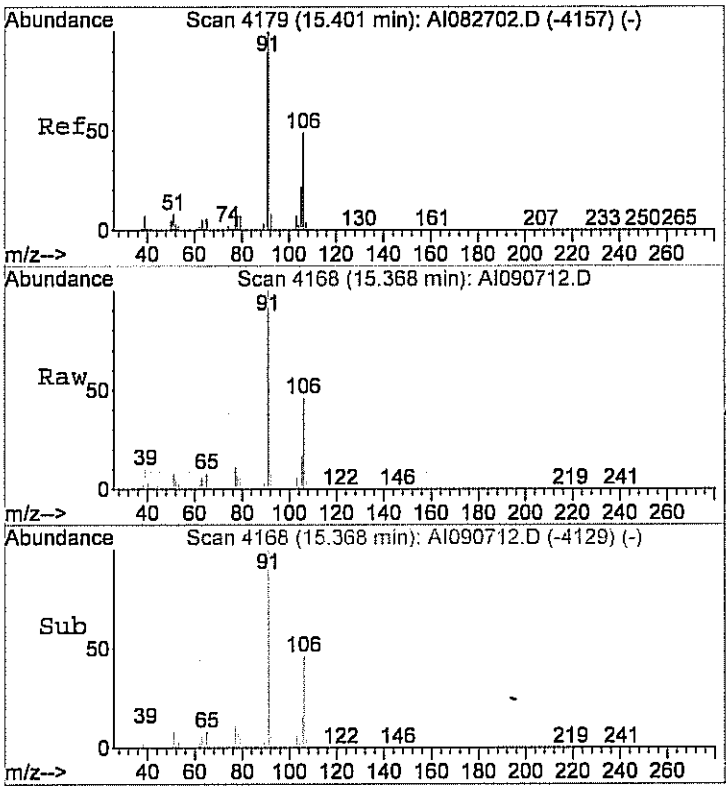


#55
Ethylbenzene
Concen: 0.51 ppb
RT: 15.20 min Scan# 4112
Delta R.T. -0.01 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 91 Resp: 28424

Ion	Ratio	Lower	Upper
91	100		
106	31.0	10.7	50.7

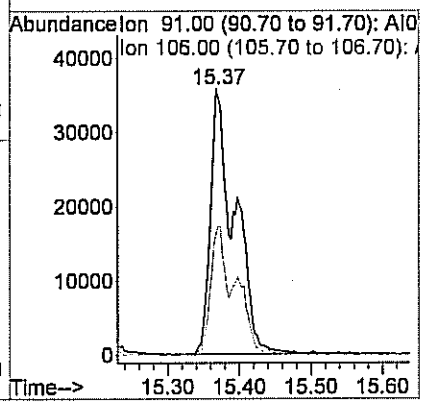


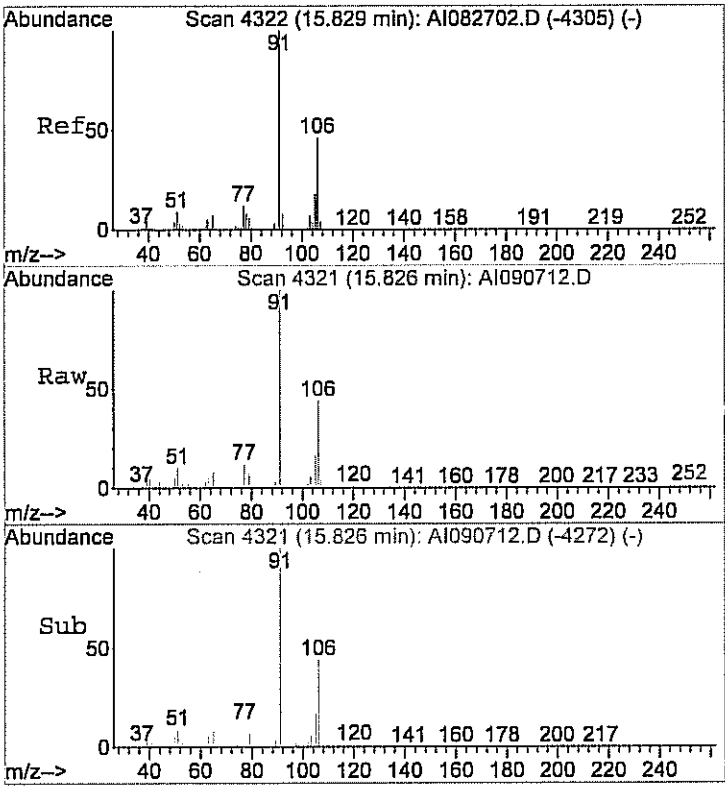


#56
m&p-xylene
Concen: 1.85 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 91 Resp: 84348

Ion	Ratio	Lower	Upper
91	100		
106	49.1	27.5	67.5

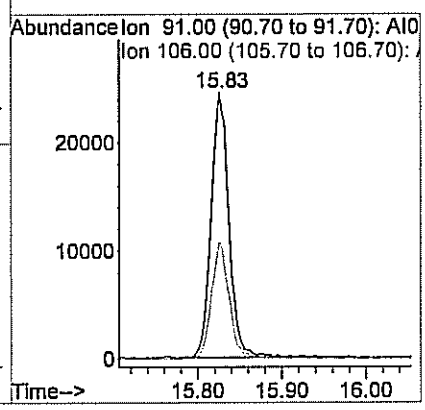


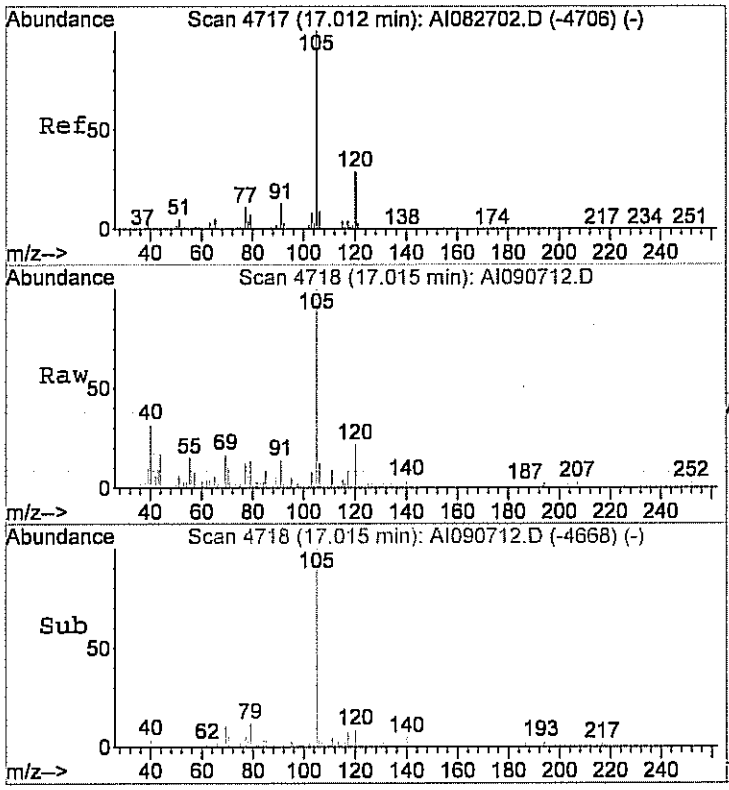


#59
o-xylene
Concen: 0.68 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion: 91 Resp: 36044

Ion	Ratio	Lower	Upper
91	100		
106	44.7	26.2	66.2

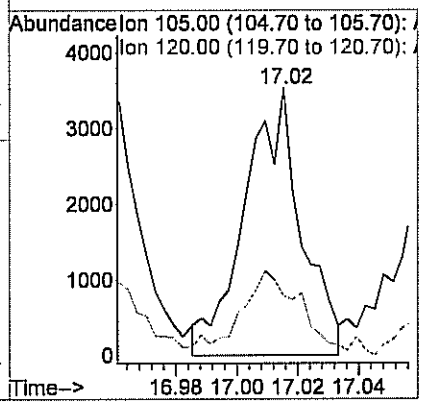


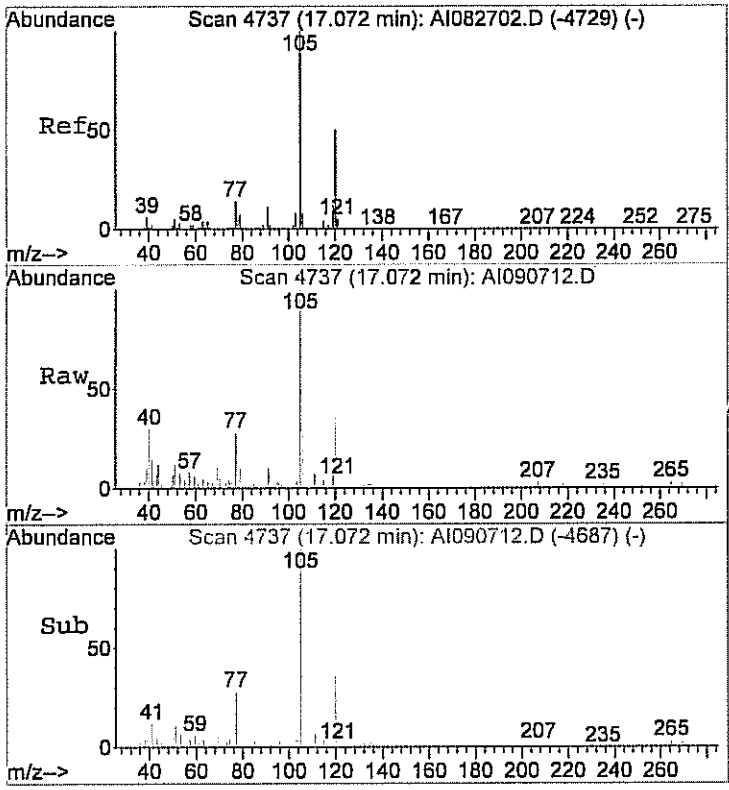


#63
4-ethyltoluene
Concen: 0.10 ppb m
RT: 17.02 min Scan# 4718
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:105 Resp: 4539

Ion	Ratio	Lower	Upper
105	100		
120	33.2	8.1	48.1

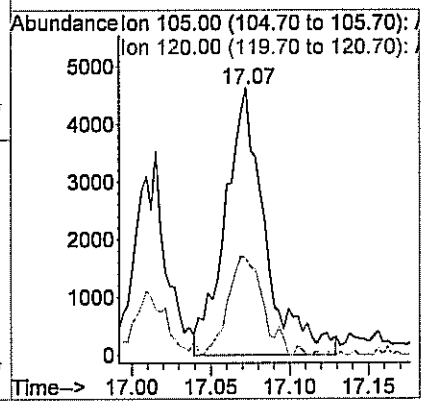


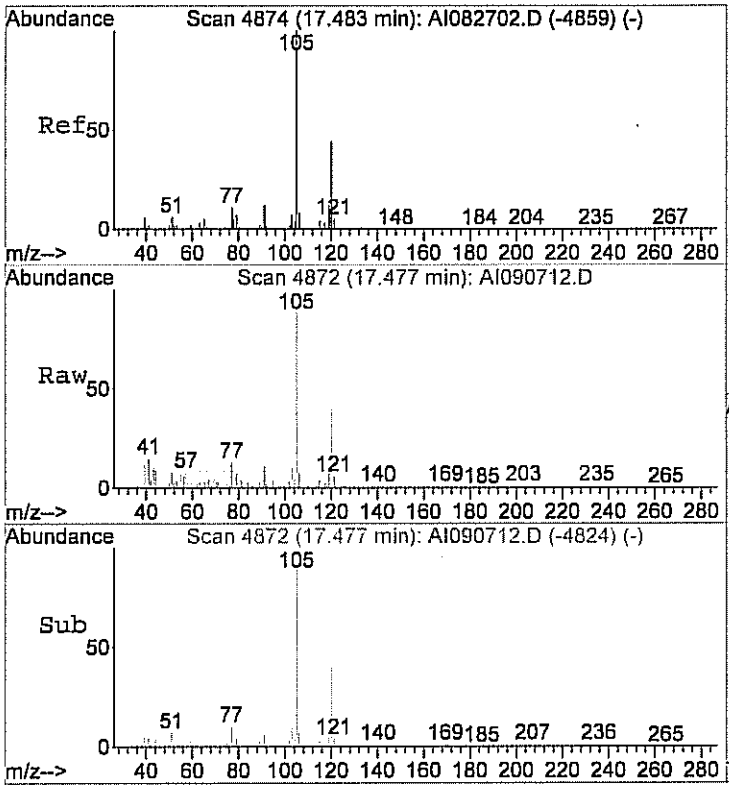


#64
1,3,5-trimethylbenzene
Concen: 0.17 ppb m
RT: 17.07 min Scan# 4737
Delta R.T. 0.00 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:105 Resp: 8183

Ion	Ratio	Lower	Upper
105	100		
120	31.9	26.2	66.2

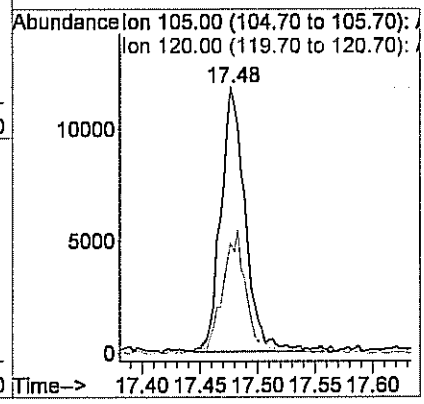




#65
1,2,4-trimethylbenzene
Concen: 0.45 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090712.D
Acq: 7 Sep 2011 5:23 pm

Tgt Ion:105 Resp: 17418

Ion	Ratio	Lower	Upper
105	100		
120	42.5	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090730.D Vial: 50
Acq On : 8 Sep 2011 3:15 am Operator: RJP
Sample : C1108077-006A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 03:36:10 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

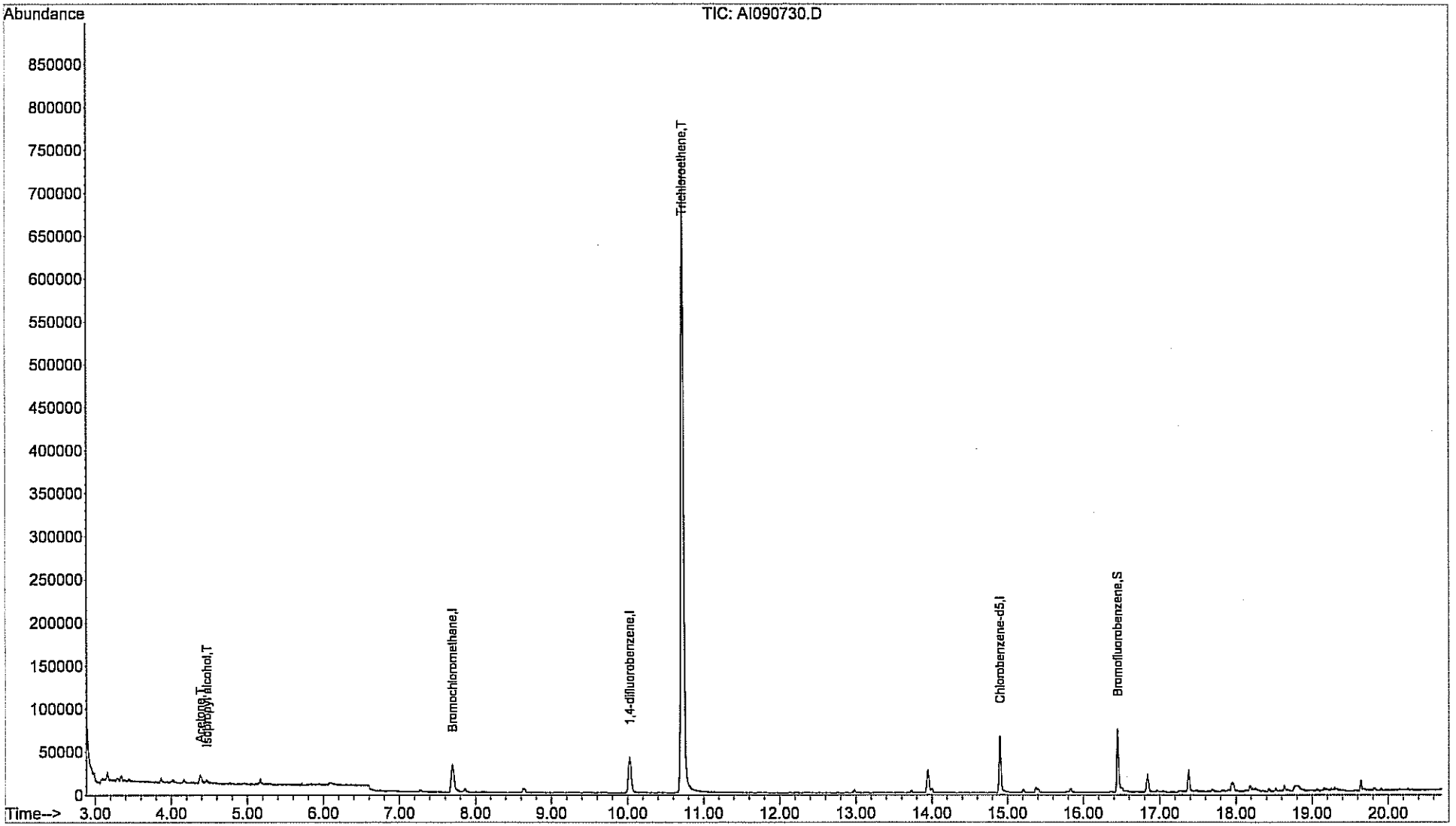
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13049	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	43628	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	37677	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	23448	1.23	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%			
Target Compounds						Qvalue
14) Acetone	4.39	58	3996	0.87	ppb	# 59
15) Isopropyl alcohol	4.46	45	3063	0.33	ppb	# 100
41) Trichloroethene	10.72	130	313923	13.77	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090730.D A826_1UG.M Thu Sep 15 12:48:54 2011 MSD1 Page 1

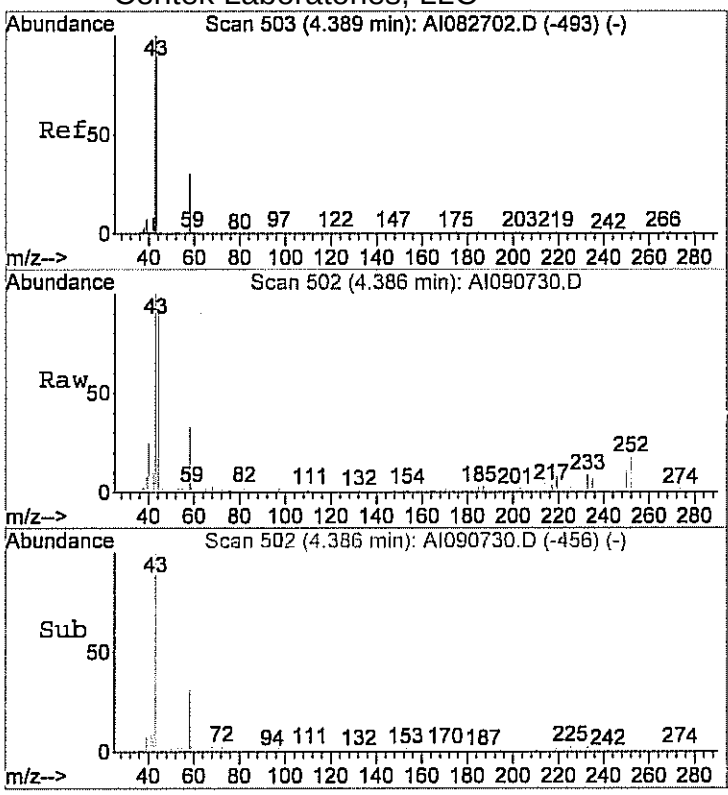
Data File : C:\HPCHEM\1\DATA\AI090730.D
Acq On : 8 Sep 2011 3:15 am
Sample : C1108077-006A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 15:59 2011

Vial: 50
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



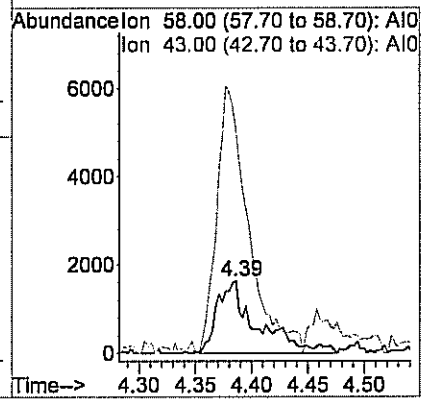
Centek Laboratories, LLC

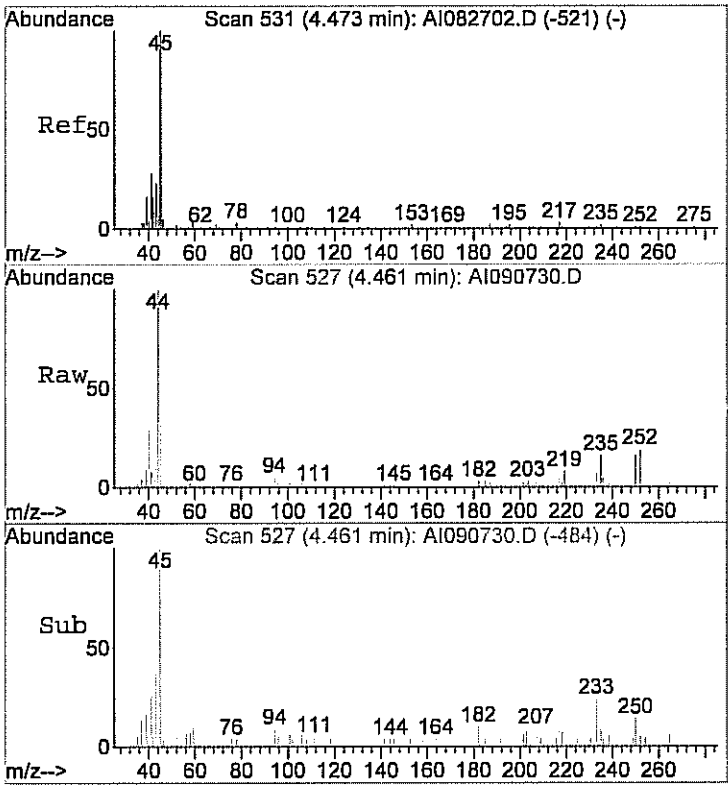


#14
Acetone
Concen: 0.87 ppb
RT: 4.39 min Scan# 502
Delta R.T. -0.01 min
Lab File: AI090730.D
Acq: 8 Sep 2011 3:15 am

Tgt Ion: 58 Resp: 3996

Ion	Ratio	Lower	Upper
58	100		
43	294.8	360.8	420.8#

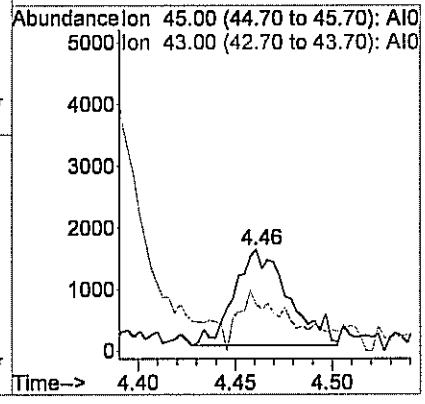


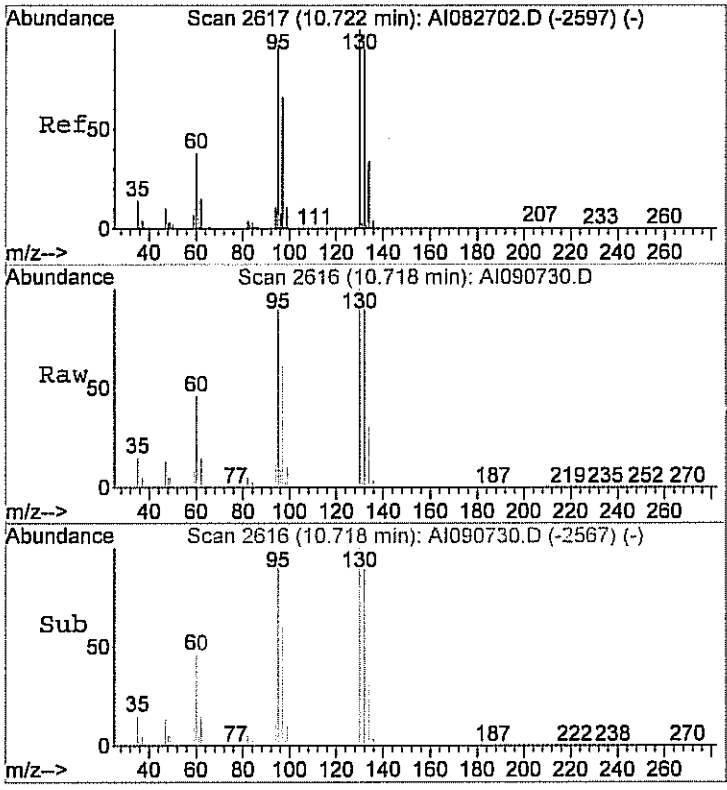


#15
Isopropyl alcohol
Concen: 0.33 ppb
RT: 4.46 min Scan# 527
Delta R.T. -0.02 min
Lab File: AI090730.D
Acq: 8 Sep 2011 3:15 am

Tgt Ion: 45 Resp: 3063

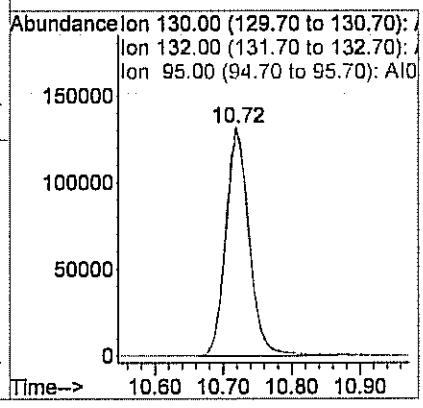
Ion	Ratio	Lower	Upper
45	100		
43	68.1	0.0	20.0#





#41
Trichloroethene
Concen: 13.77 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090730.D
Acq: 8 Sep 2011 3:15 am

Tgt Ion:130	Resp:	313923	
Ion	Ratio	Lower	Upper
130	100		
132	97.5	79.0	119.0
95	97.8	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090812.D Vial: 10
Acq On : 8 Sep 2011 4:39 pm Operator: RJP
Sample : C1108077-006A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 17:00:05 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

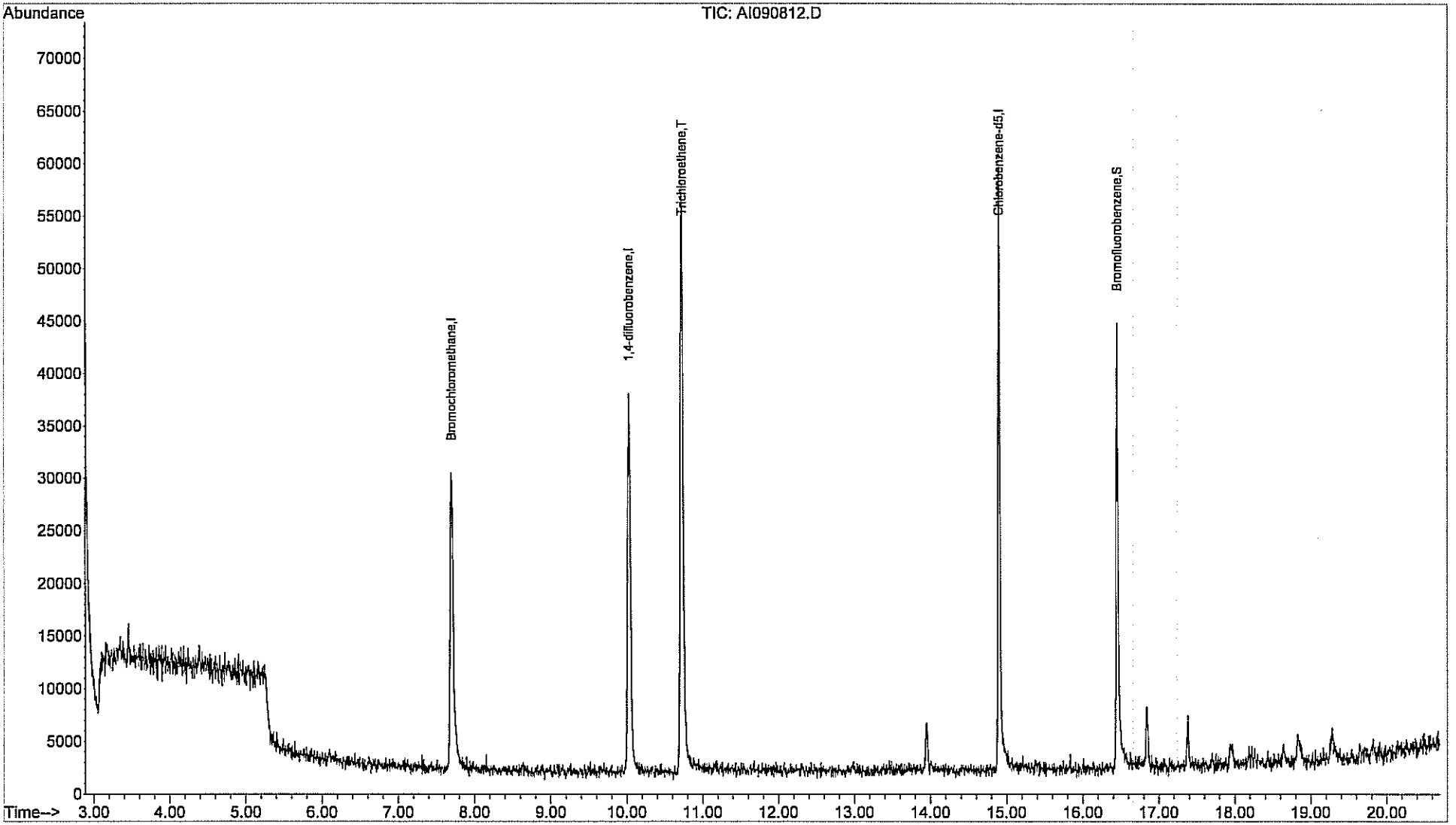
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12023	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	39152	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	36184	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14536	0.79	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 79.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.72	130	25496	1.25	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

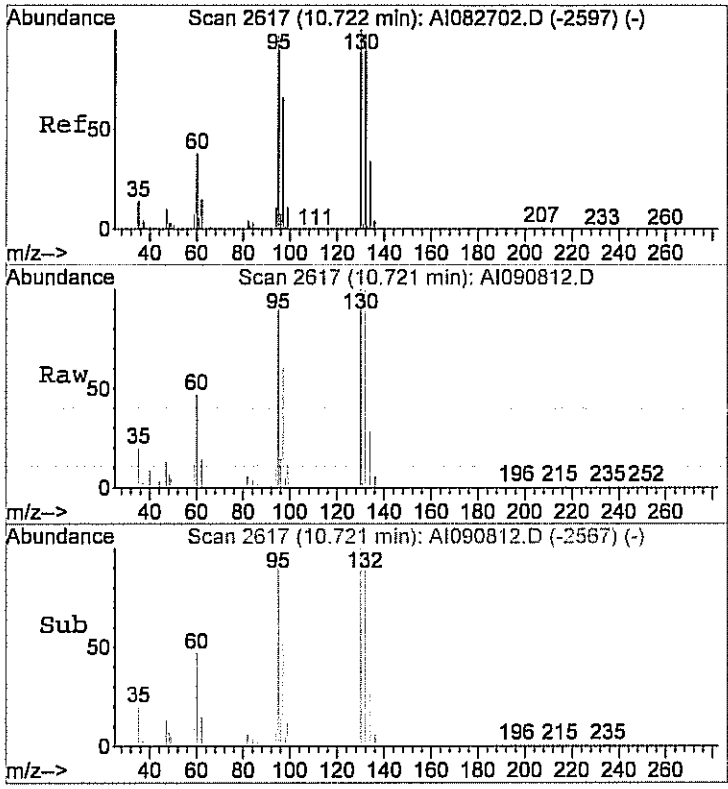
Data File : C:\HPCHEM\1\DATA\AI090812.D
Acq On : 8 Sep 2011 4:39 pm
Sample : C1108077-006A 90X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 17:07 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



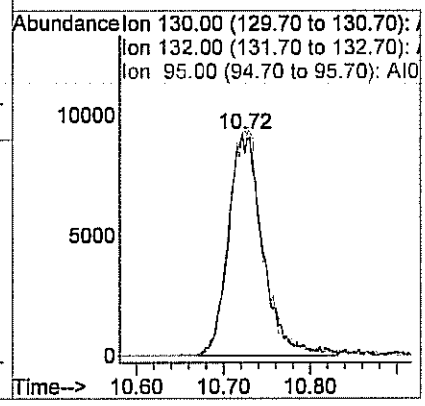
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 1.25 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090812.D
Acq: 8 Sep 2011 4:39 pm

Tgt Ion:130 Resp: 25496

Ion	Ratio	Lower	Upper
130	100		
132	100.8	79.0	119.0
95	99.8	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	0.39	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
4-ethyltoluene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Acetone	8.3	3.0		ppbV	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzene	0.94	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroform	0.17	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Cyclohexane	0.72	0.15		ppbV	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	1.0	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/7/2011 5:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 5:56:00 PM
Heptane	0.82	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexane	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	5.8	1.5		ppbV	10	9/8/2011 4:21:00 AM
m&p-Xylene	4.2	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	0.78	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
o-Xylene	1.1	0.15		ppbV	1	9/7/2011 5:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Toluene	3.9	1.5		ppbV	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	6.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	1.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.95	0.71		ug/m3	1	9/7/2011 5:56:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Acetone	20	7.2		ug/m3	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:56:00 PM
Benzene	3.1	0.49		ug/m3	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:56:00 PM
Chloroform	0.84	0.74		ug/m3	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
Ethylbenzene	4.6	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 5:56:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/7/2011 5:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Heptane	3.4	0.62		ug/m3	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Hexane	4.9	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	14	3.7		ug/m3	10	9/8/2011 4:21:00 AM
m&p-Xylene	19	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 5:56:00 PM
o-Xylene	4.9	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	3.7	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:56:00 PM
Toluene	15	5.7		ug/m3	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090713.D Vial: 33
Acq On : 7 Sep 2011 5:56 pm Operator: RJP
Sample : C1108077-007A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 18:17:45 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13090	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	49671	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	39672	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	23963	1.20	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32339	0.58	ppb		97
13) Freon 11	4.16	101	13260	0.31	ppb		94
14) Acetone	4.34	58	27659	5.99	ppb	#	64
15) Isopropyl alcohol	4.45	45	37415	3.96	ppb	#	100
17) Freon 113	4.95	101	3204	0.11	ppb		97
20) Carbon disulfide	5.29	76	7564	0.20	ppb		96
25) Methyl Ethyl Ketone	6.94	72	3359	0.78	ppb	#	100
27) Hexane	6.91	57	22096	1.38	ppb		97
29) Chloroform	7.85	83	7030	0.17	ppb		98
34) Cyclohexane	9.34	56	11669m	0.72	ppb		
36) Benzene	9.24	78	40051	0.94	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	9136	0.20	ppb		87
40) Heptane	10.63	43	12743	0.82	ppb		91
41) Trichloroethene	10.72	130	371517	14.31	ppb		99
48) Toluene	12.97	92	158180	6.10	ppb		95
53) Tetrachloroethylene	14.00	164	14945	0.54	ppb		95
55) Ethylbenzene	15.20	91	55327	1.04	ppb		100
56) m&p-xylene	15.37	91	183617	4.23	ppb		99
59) o-xylene	15.83	91	56158	1.11	ppb		99
63) 4-ethyltoluene	17.01	105	22464	0.54	ppb		99
64) 1,3,5-trimethylbenzene	17.07	105	17881	0.39	ppb		94
65) 1,2,4-trimethylbenzene	17.48	105	50830	1.39	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

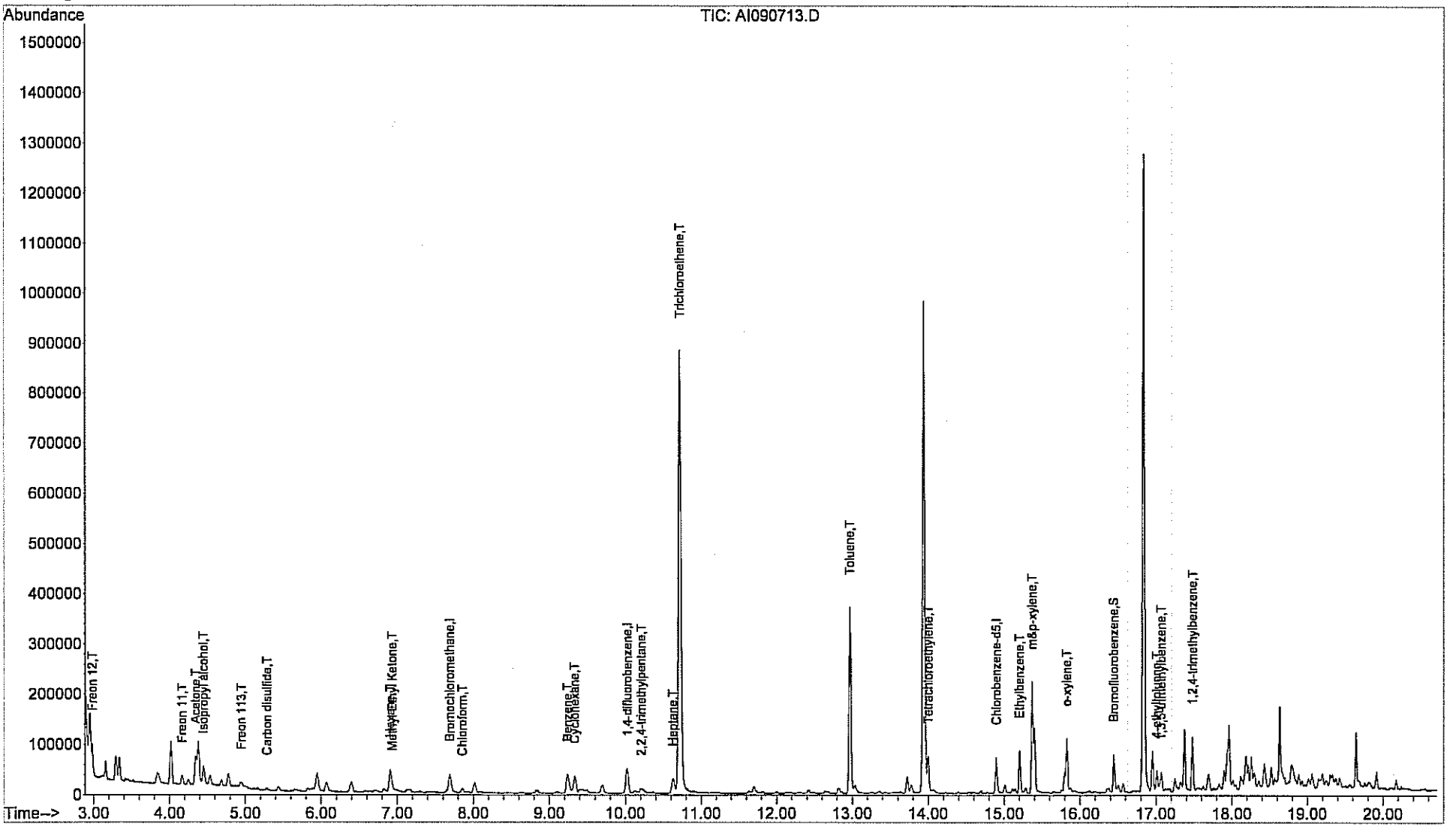
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090713.D
Acq On : 7 Sep 2011 5:56 pm
Sample : C1108077-007A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:20 2011

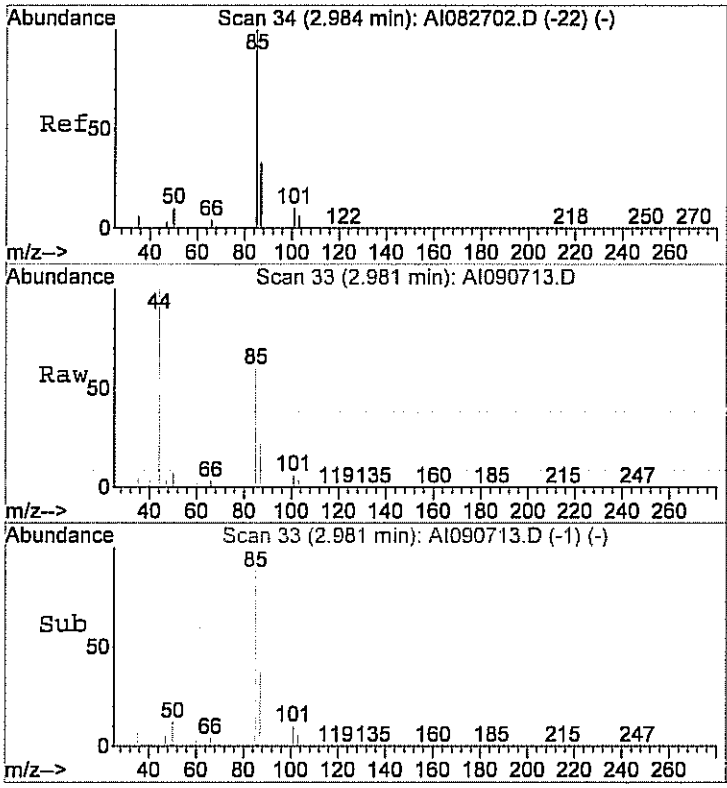
Vial: 33
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



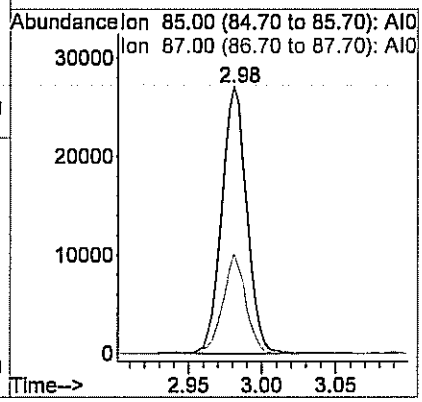
Centek Laboratories, LLC

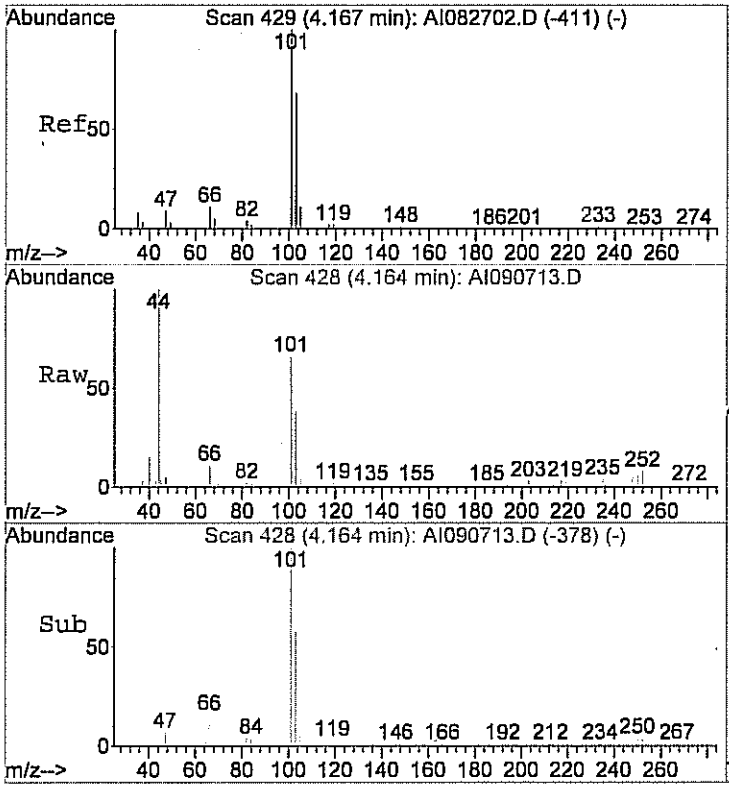


#3
Freon 12
Concen: 0.58 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 85 Resp: 32339

Ion	Ratio	Lower	Upper
85	100		
87	34.0	12.2	52.2

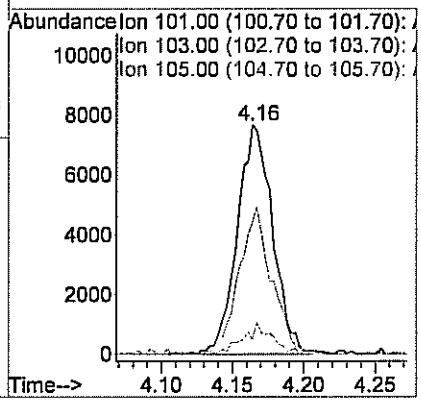


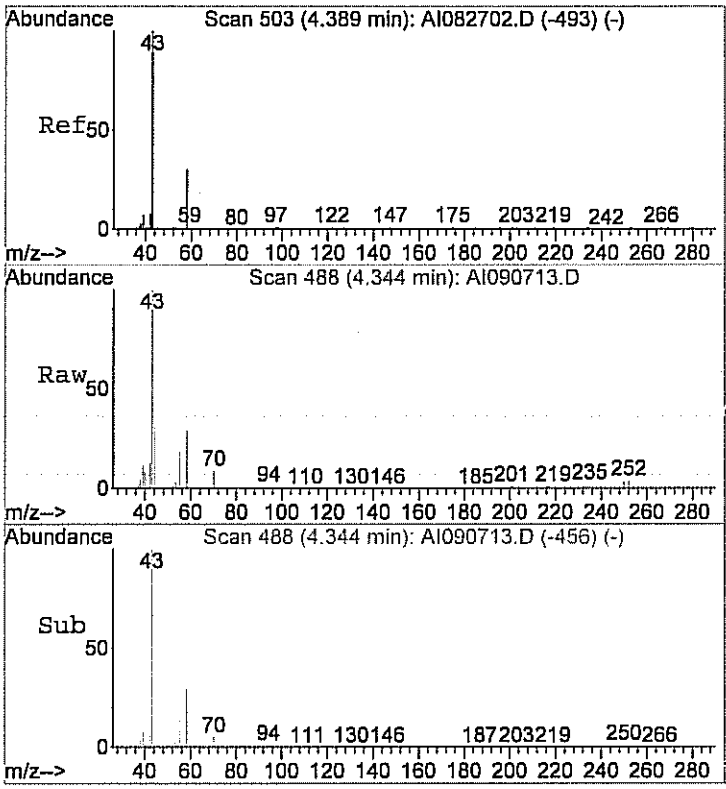


#13
Freon 11
Concen: 0.31 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:101 Resp: 13260

Ion	Ratio	Lower	Upper
101	100		
103	60.1	44.9	84.9
105	11.7	0.0	30.9

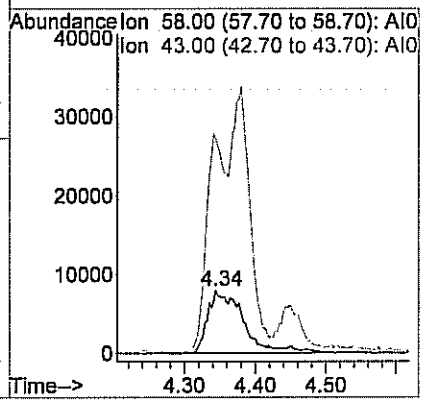


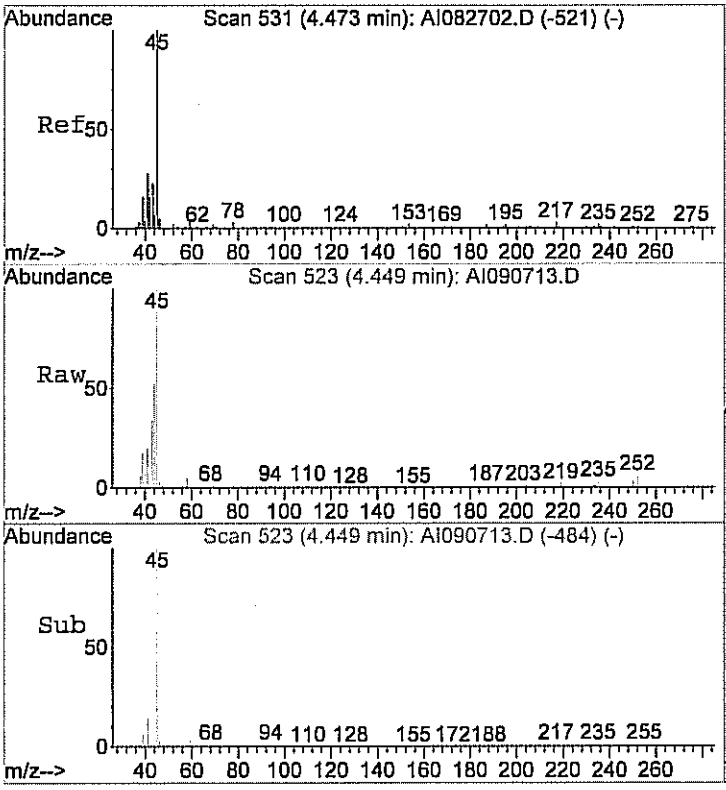


#14
Acetone
Concen: 5.99 ppb
RT: 4.34 min Scan# 488
Delta R.T. -0.05 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 58 Resp: 27659

Ion	Ratio	Lower	Upper
58	100		
43	474.2	360.8	420.8#

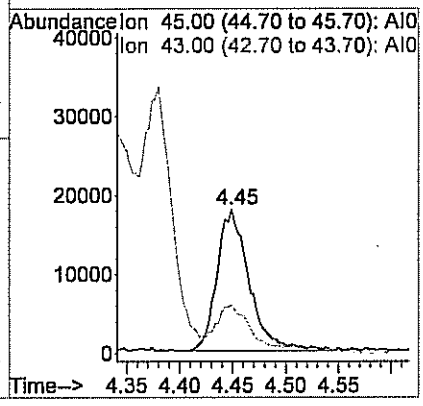


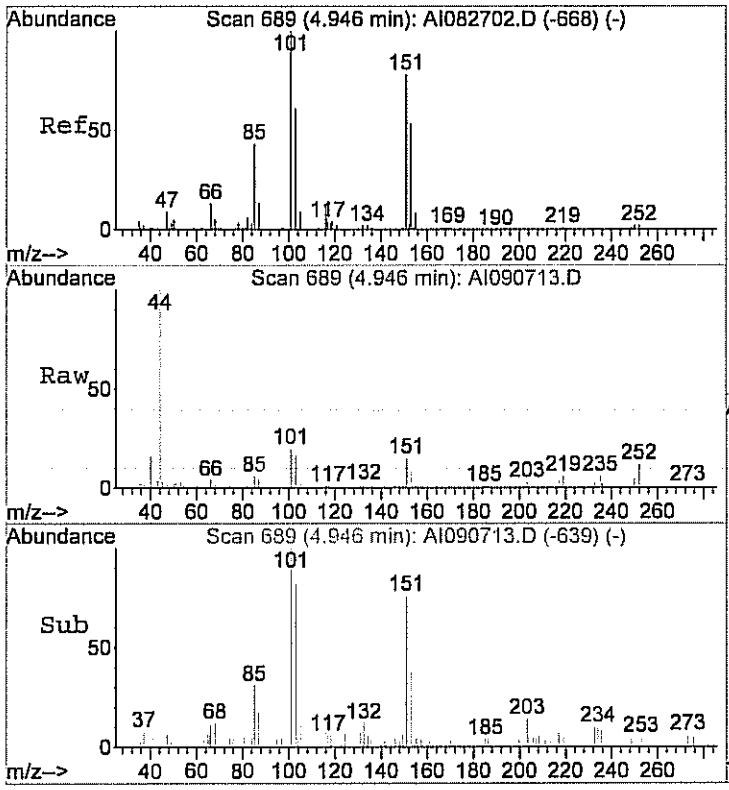


#15
Isopropyl alcohol
Concen: 3.96 ppb
RT: 4.45 min Scan# 523
Delta R.T. -0.03 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 45 Resp: 37415

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

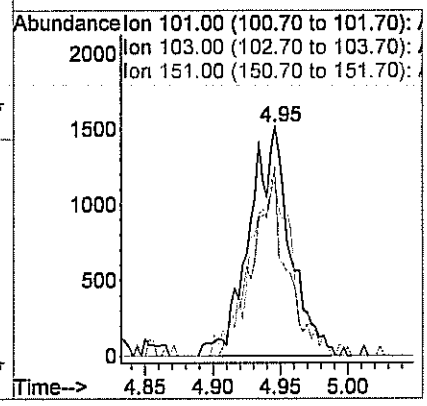


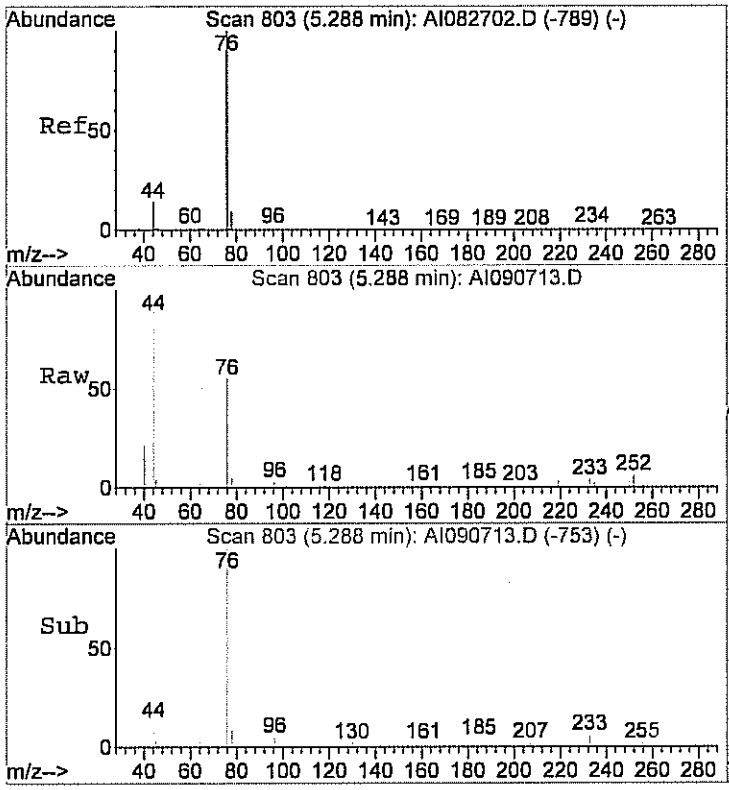


#17
Freon 113
Concen: 0.11 ppb
RT: 4.95 min Scan# 689
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:101 Resp: 3204

Ion	Ratio	Lower	Upper
101	100		
103	68.2	44.3	84.3
151	82.3	61.0	101.0

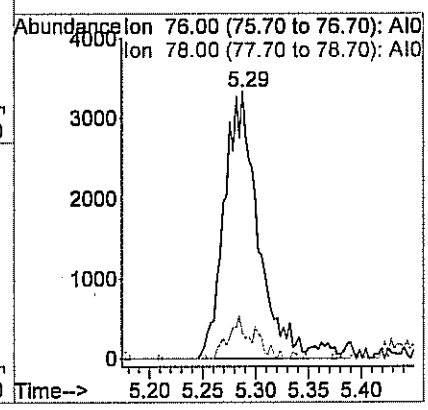


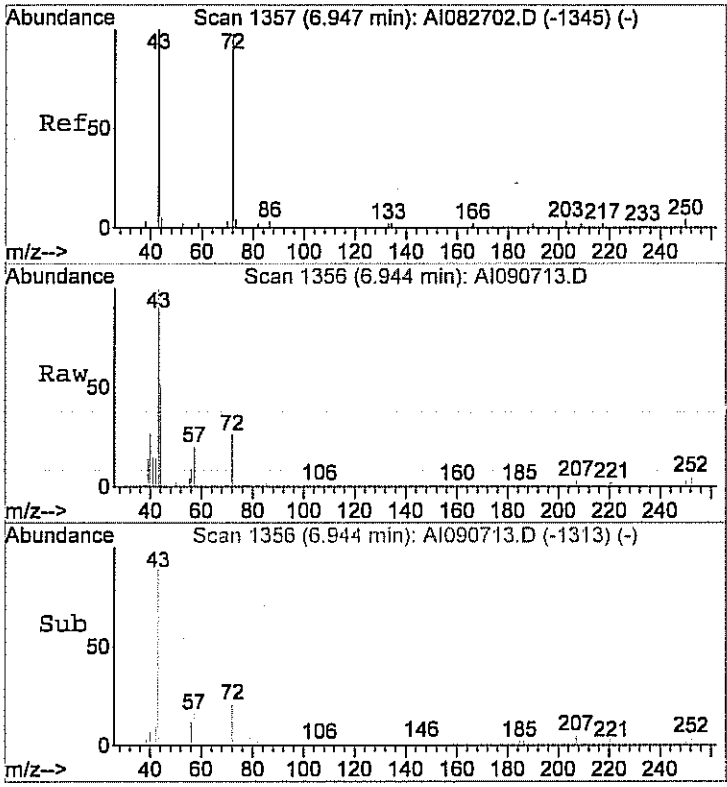


#20
Carbon disulfide
Concen: 0.20 ppb
RT: 5.29 min Scan# 803
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 76 Resp: 7564

Ion	Ratio	Lower	Upper
76	100		
78	11.2	0.0	29.6

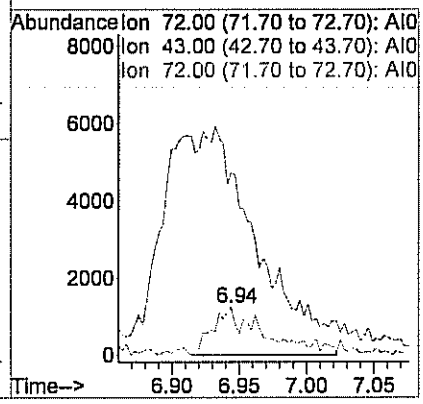


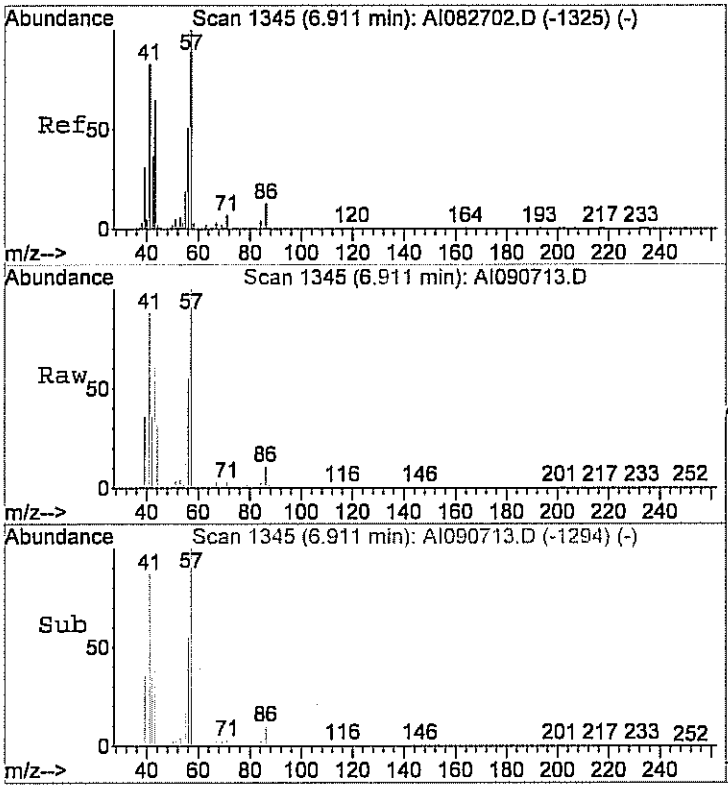


#25
Methyl Ethyl Ketone
Concen: 0.78 ppb
RT: 6.94 min Scan# 1356
Delta R.T. -0.02 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 72 Resp: 3359

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

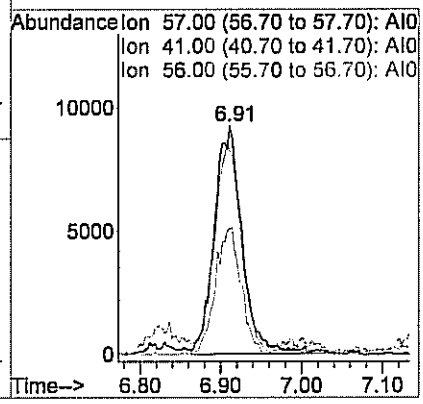


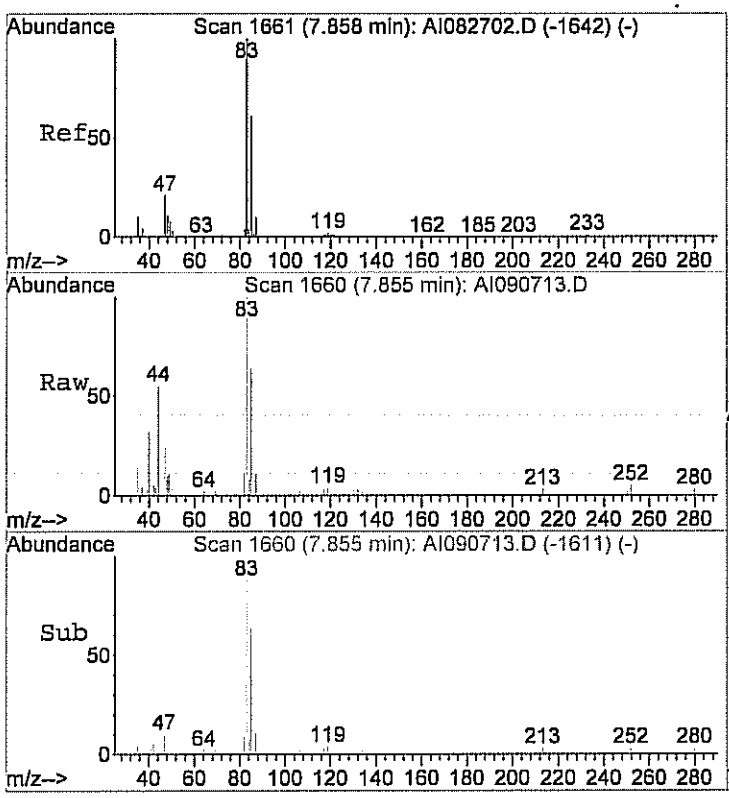


#27
Hexane
Concen: 1.38 ppb
RT: 6.91 min Scan# 1345
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 57 Resp: 22096

Ion	Ratio	Lower	Upper
57	100		
41	93.6	75.5	115.5
56	52.2	35.9	75.9

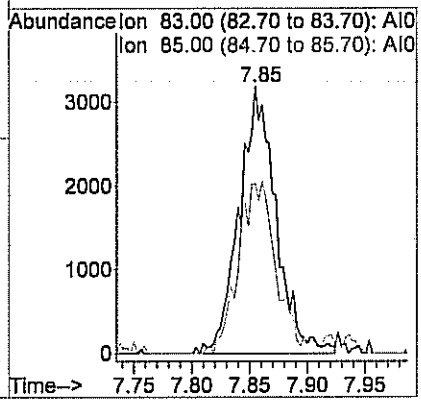


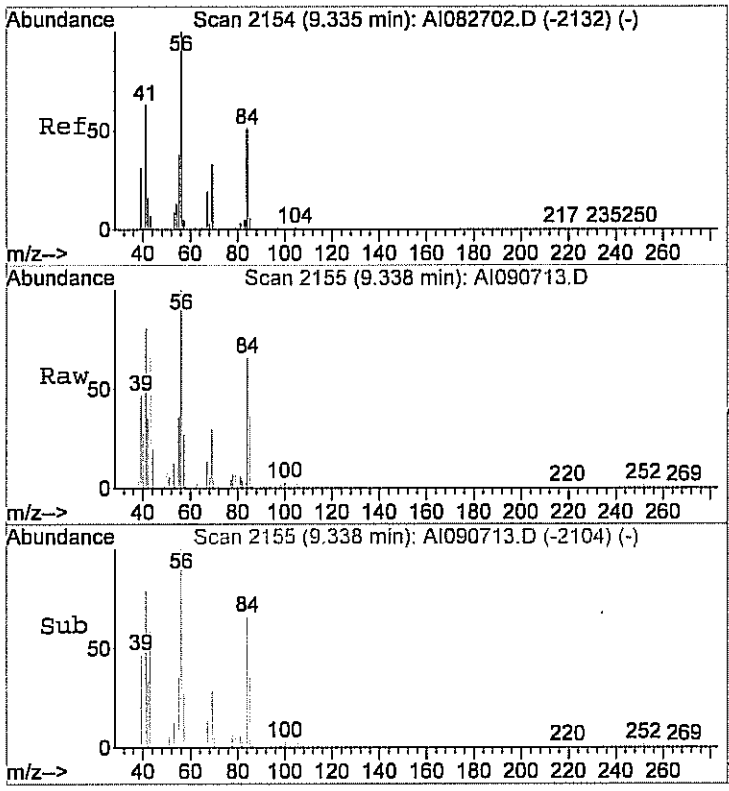


#29
Chloroform
Concen: 0.17 ppb
RT: 7.85 min Scan# 1660
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 83 Resp: 7030

Ion	Ratio	Lower	Upper
83	100		
85	66.9	45.0	85.0

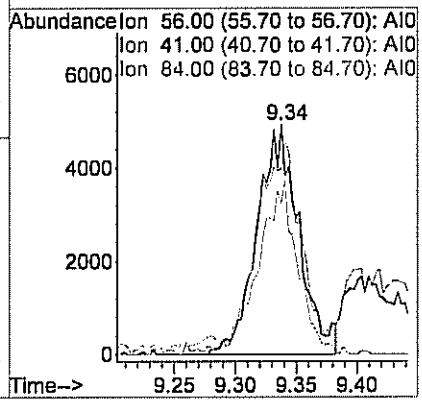


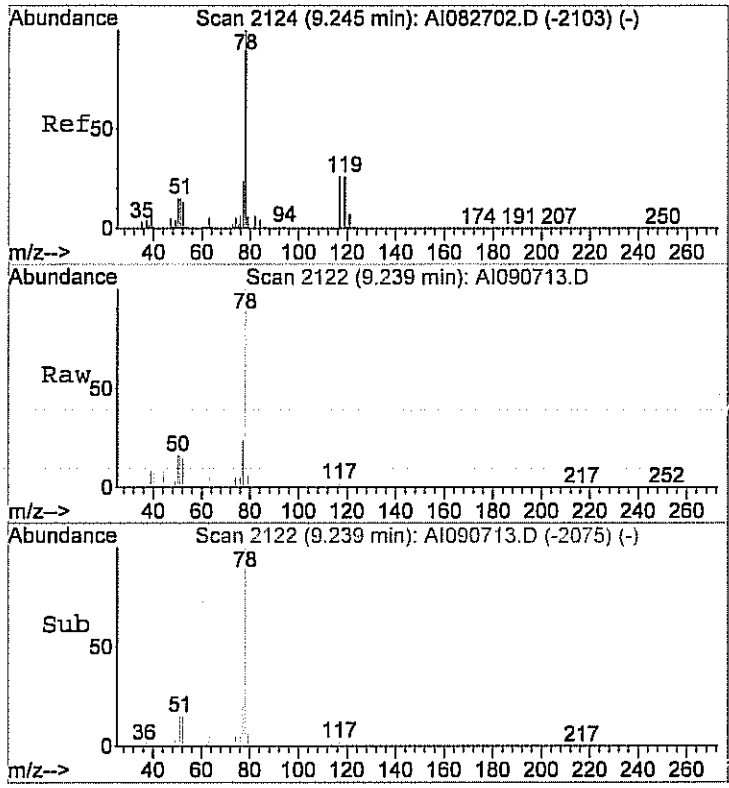


#34
Cyclohexane
Concen: 0.72 ppb m
RT: 9.34 min Scan# 2155
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 56 Resp: 11669

Ion	Ratio	Lower	Upper
56	100		
41	157.8	49.1	89.1#
84	69.0	114.6	154.6#

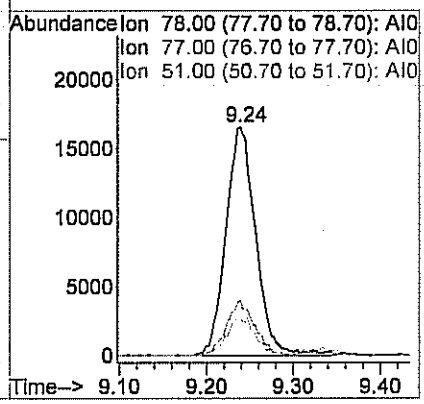


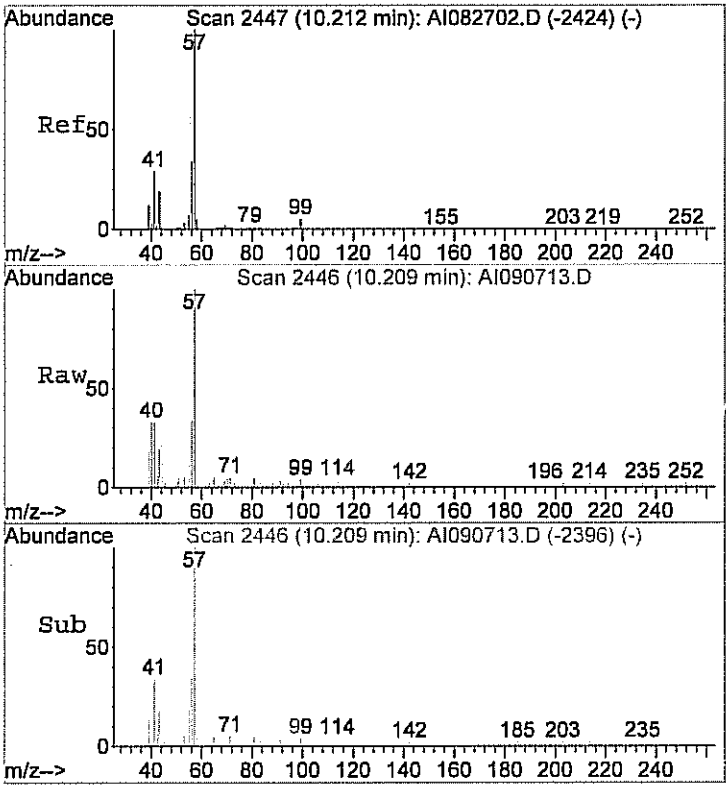


#36
Benzene
Concen: 0.94 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 78 Resp: 40051

Ion	Ratio	Lower	Upper
78	100		
77	22.9	5.2	45.2
51	16.6	0.0	37.6

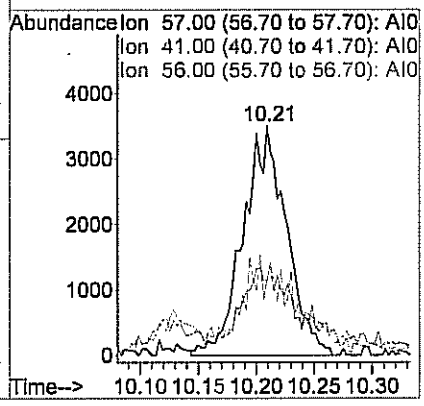


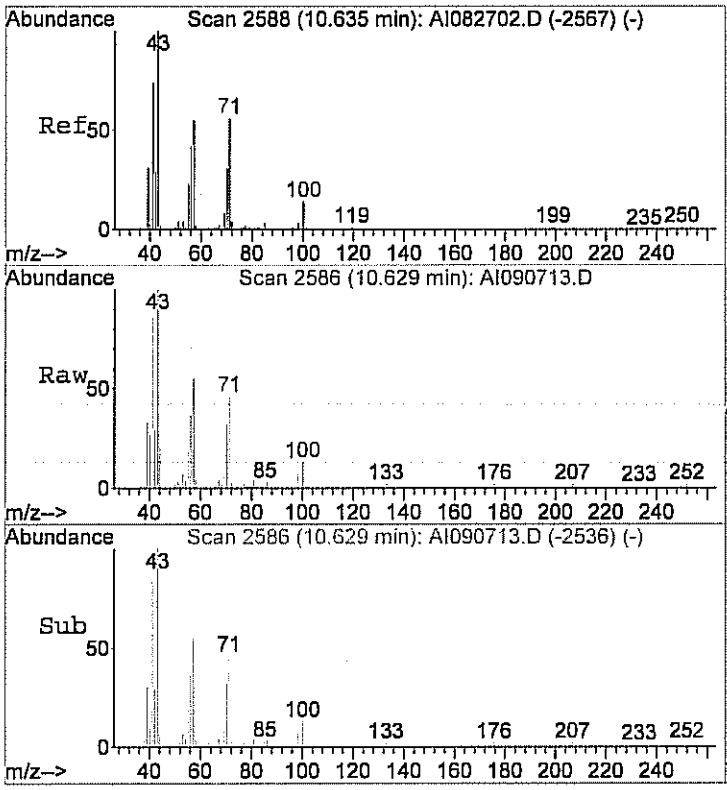


#39
2,2,4-trimethylpentane
Concen: 0.20 ppb
RT: 10.21 min Scan# 2446
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 57 Resp: 9136

Ion	Ratio	Lower	Upper
57	100		
41	37.0	17.9	57.9
56	48.0	13.7	53.7

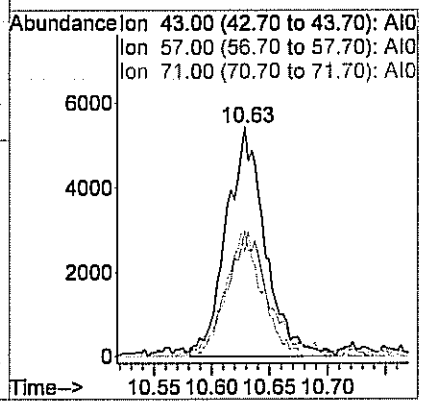


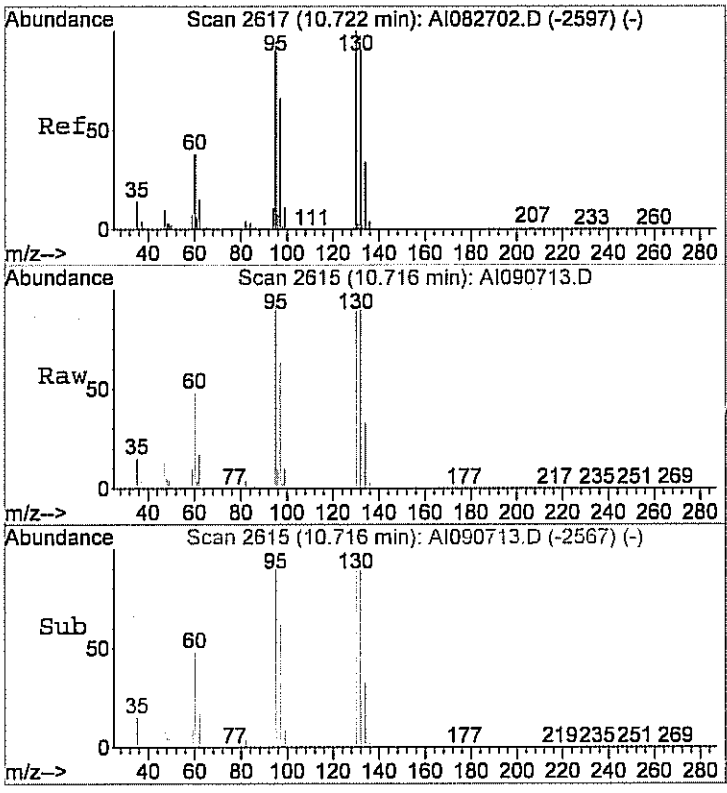


#40
Heptane
Concen: 0.82 ppb
RT: 10.63 min Scan# 2586
Delta R.T. 0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 43 Resp: 12743

Ion	Ratio	Lower	Upper
43	100		
57	60.5	32.1	72.1
71	50.3	35.5	75.5

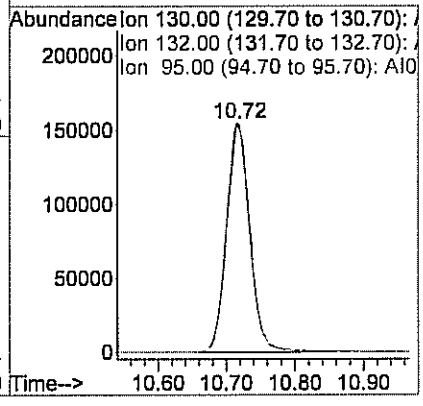


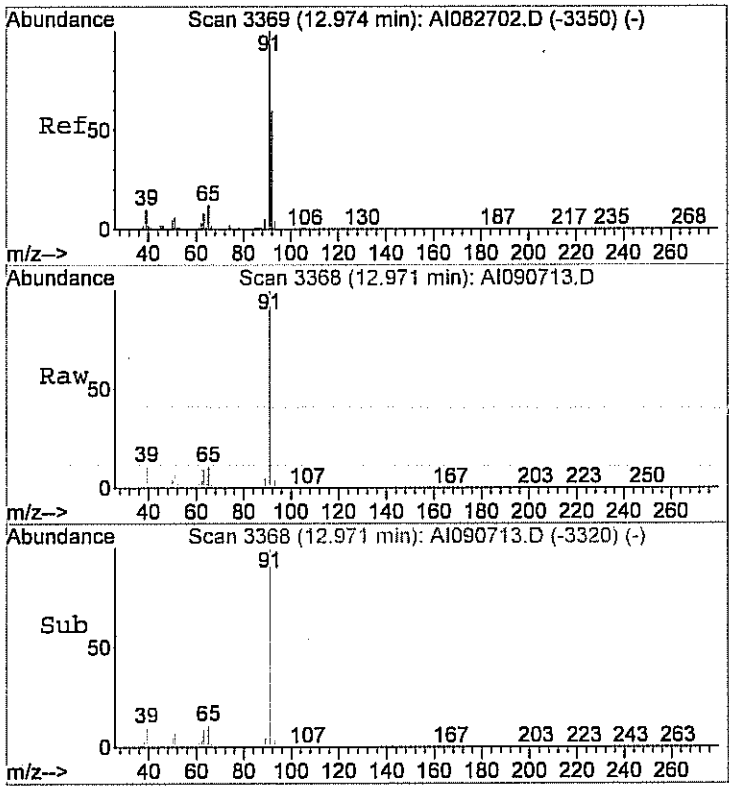


#41
Trichloroethene
Concen: 14.31 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:130 Resp: 371517

Ion	Ratio	Lower	Upper
130	100		
132	97.4	79.0	119.0
95	98.0	76.8	116.8

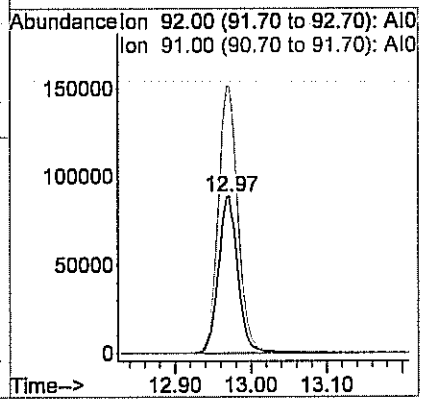


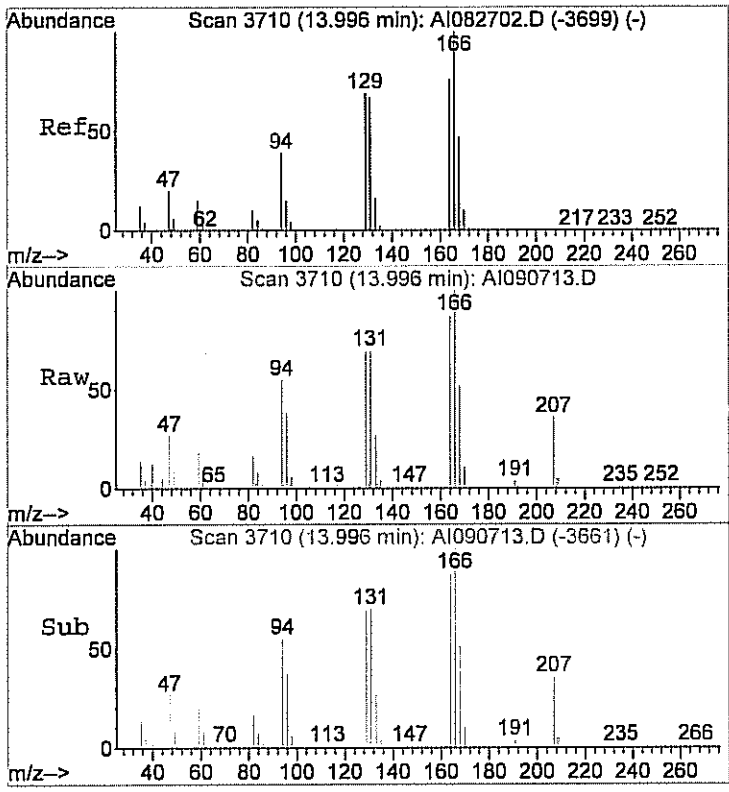


#48
Toluene
Concen: 6.10 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 92 Resp: 158180

Ion	Ratio	Lower	Upper
92	100		
91	173.3	159.8	199.8

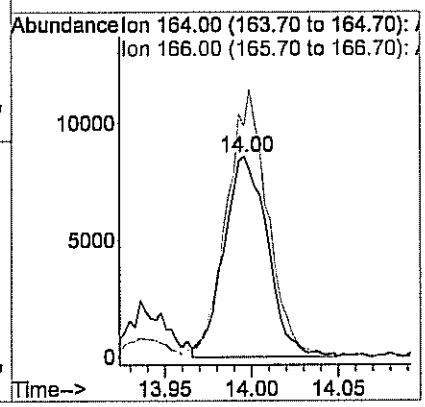


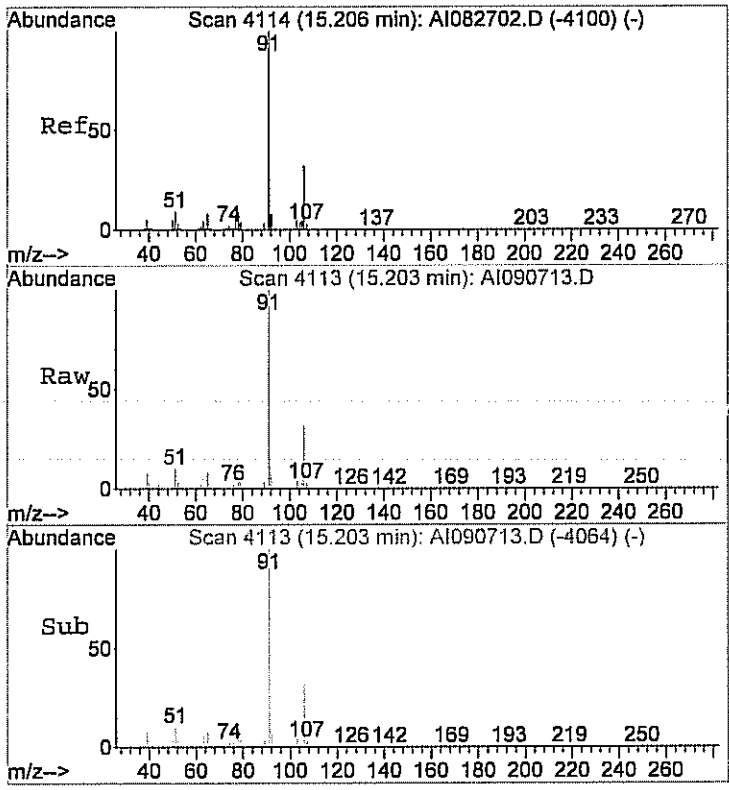


#53
Tetrachloroethylene
Concen: 0.54 ppb
RT: 14.00 min Scan# 3710
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:164 Resp: 14945

Ion	Ratio	Lower	Upper
164	100		
166	123.1	109.4	149.4

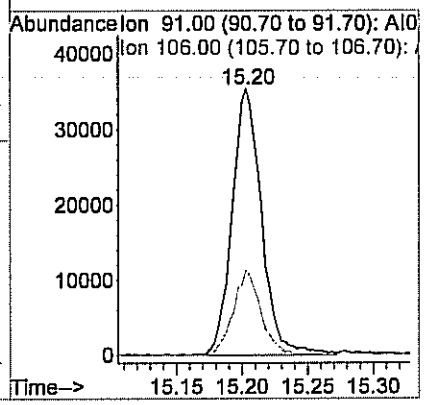


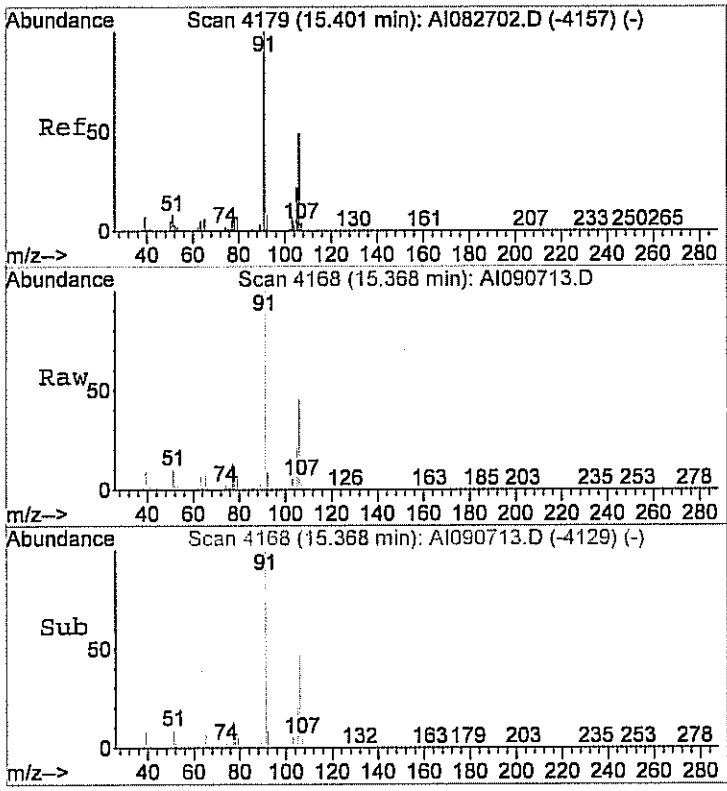


#55
Ethylbenzene
Concen: 1.04 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 91 Resp: 55327

Ion	Ratio	Lower	Upper
91	100		
106	30.4	10.7	50.7

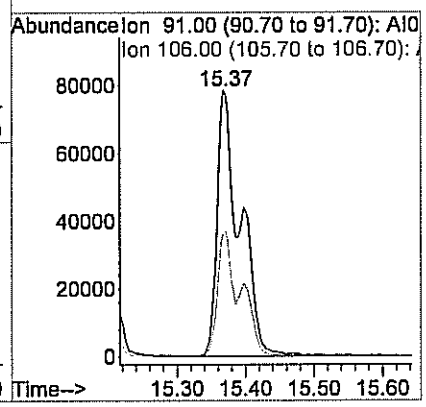


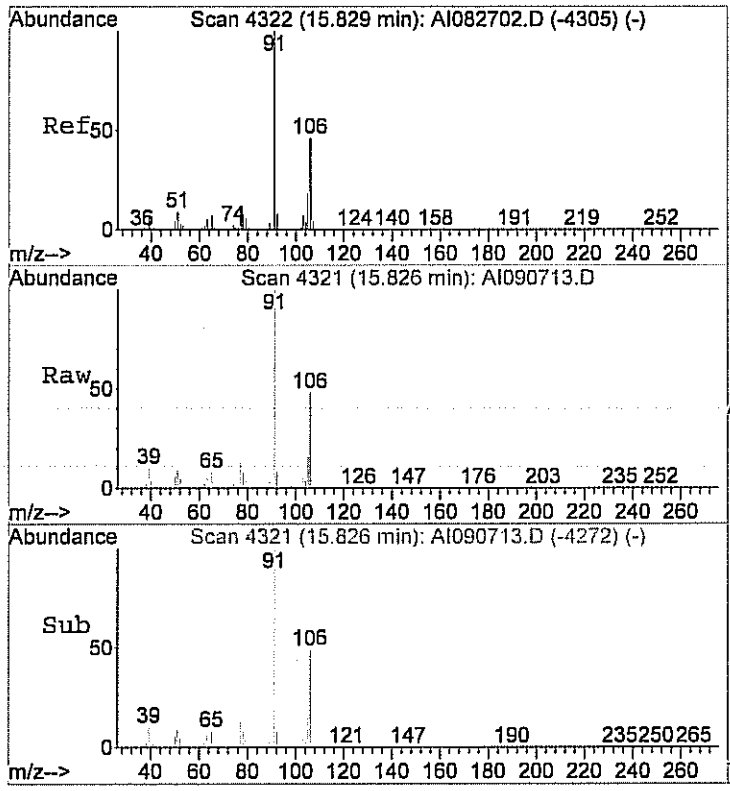


#56
m&p-xylene
Concen: 4.23 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 91 Resp: 183617

Ion	Ratio	Lower	Upper
91	100		
106	47.9	27.5	67.5

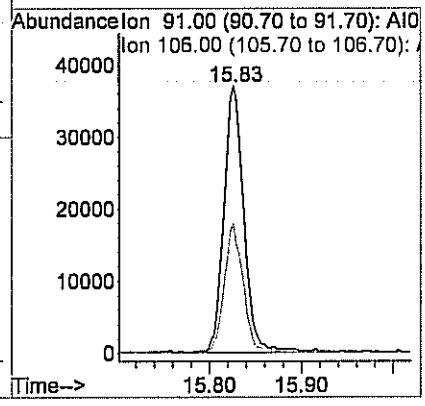


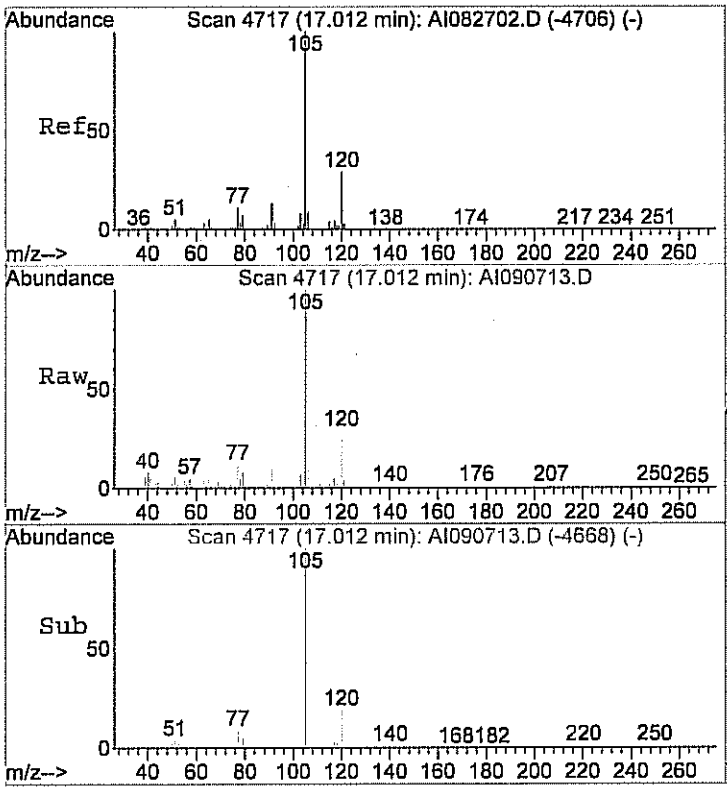


#59
o-xylene
Concen: 1.11 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion: 91 Resp: 56158

Ion	Ratio	Lower	Upper
91	100		
106	46.9	26.2	66.2

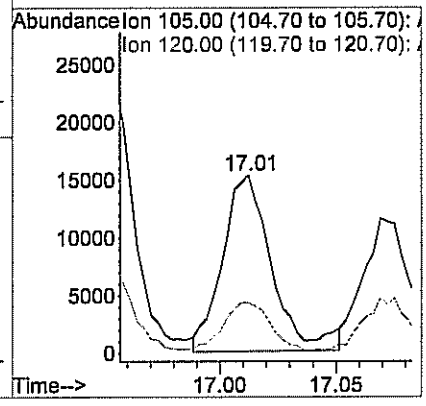


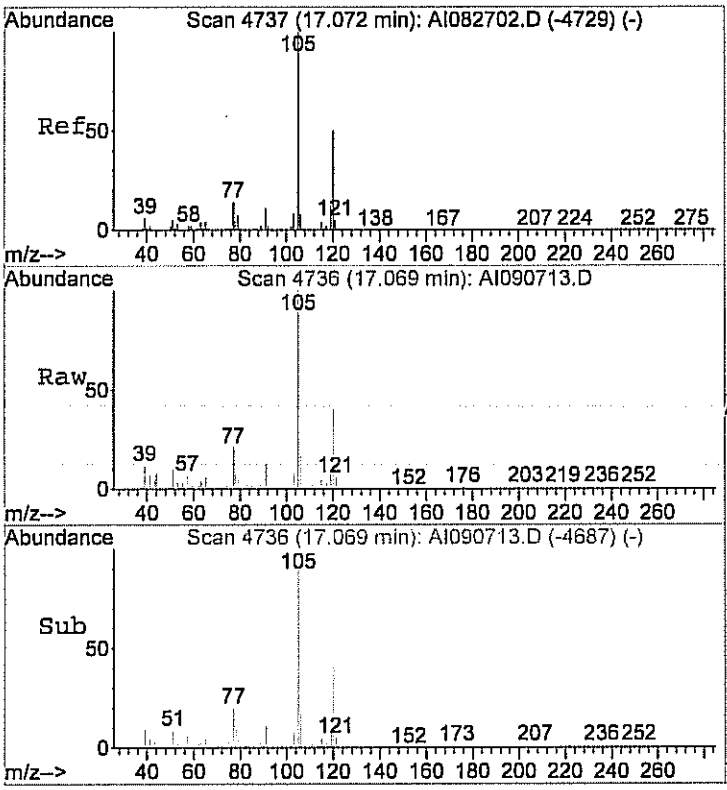


#63
4-ethyltoluene
Concen: 0.54 ppb
RT: 17.01 min Scan# 4717
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:105 Resp: 22464

Ion	Ratio	Lower	Upper
105	100		
120	28.7	8.1	48.1

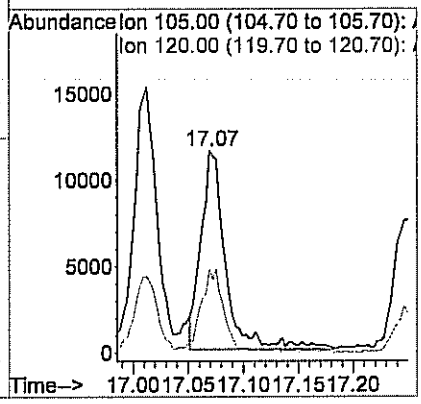


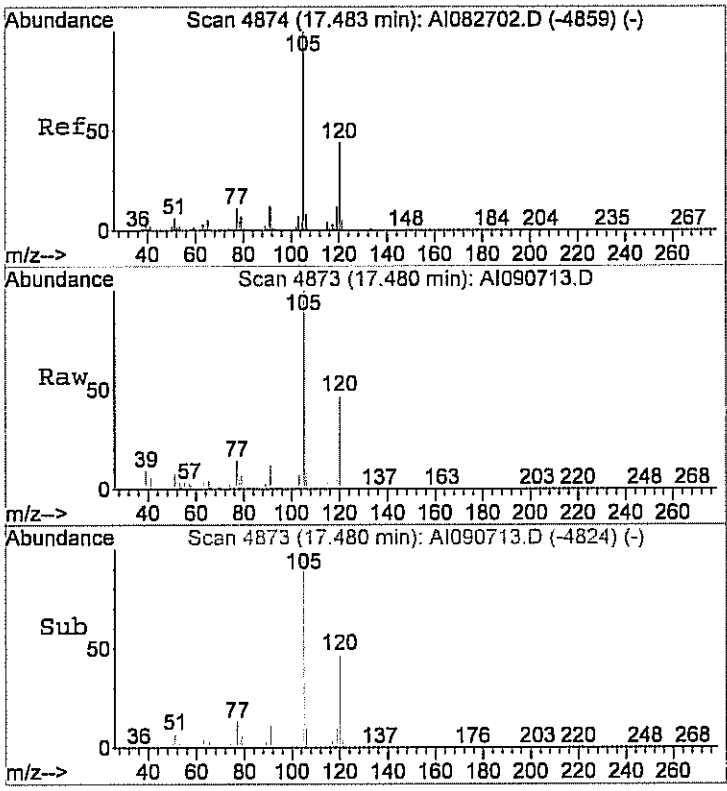


#64
1,3,5-trimethylbenzene
Concen: 0.39 ppb
RT: 17.07 min Scan# 4736
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:105 Resp: 17881

Ion	Ratio	Lower	Upper
105	100		
120	42.4	26.2	66.2

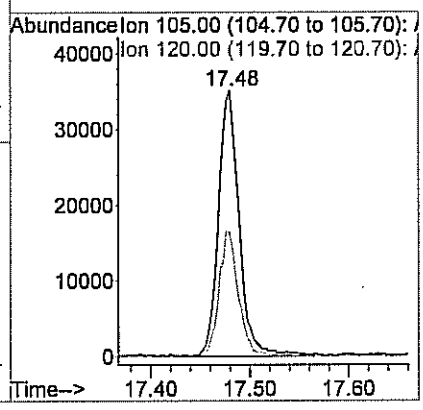




#65
1,2,4-trimethylbenzene
Concen: 1.39 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090713.D
Acq: 7 Sep 2011 5:56 pm

Tgt Ion:105 Resp: 50830

Ion	Ratio	Lower	Upper
105	100		
120	45.3	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090732.D Vial: 52
Acq On : 8 Sep 2011 4:21 am Operator: RJP
Sample : C1108077-007A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 04:42:24 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

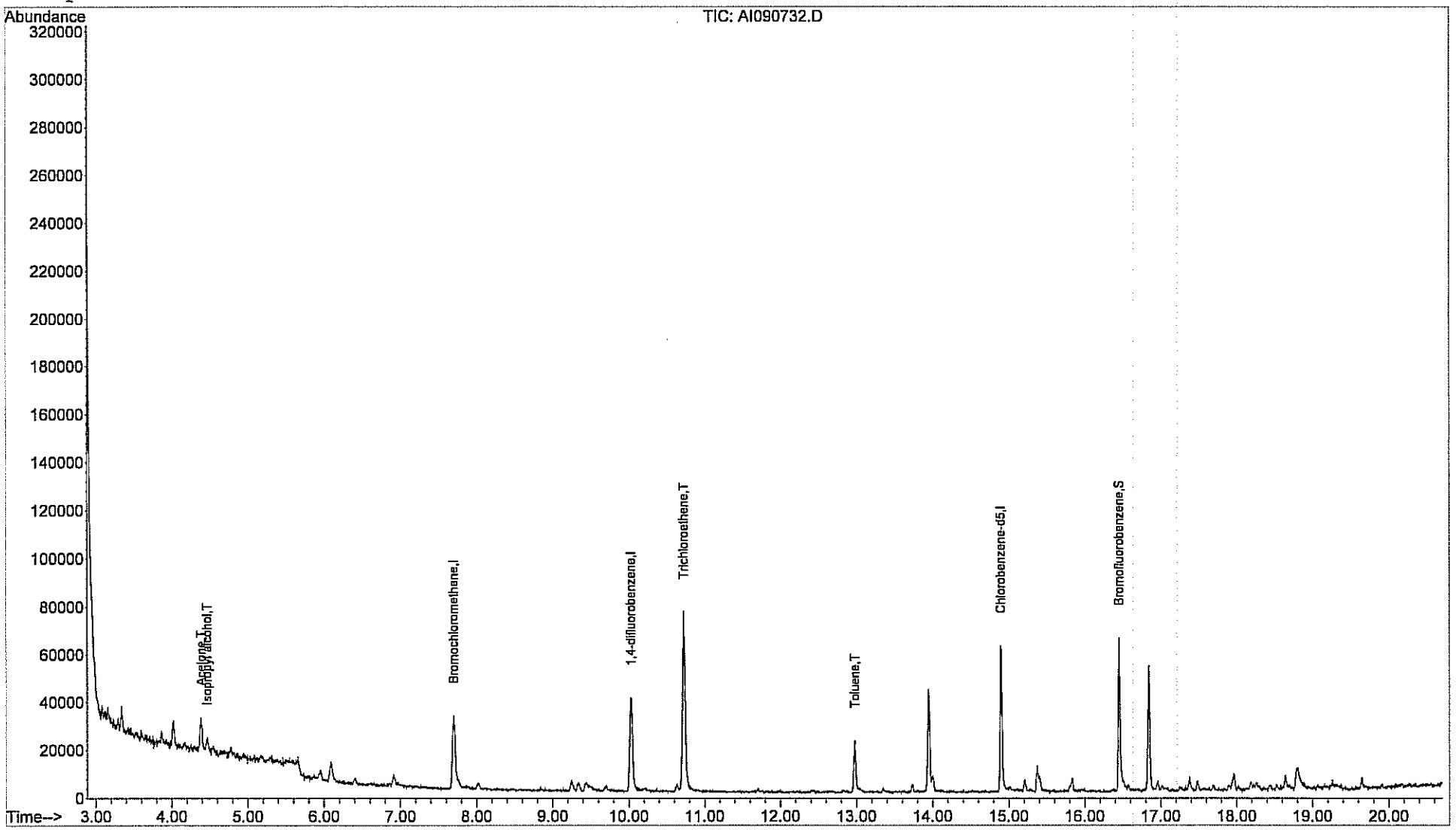
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12309	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	41307	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	37629	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	21278	1.12	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	3592	0.83	ppb	88
15) Isopropyl alcohol	4.46	45	5117m	0.58	ppb	
41) Trichloroethene	10.72	130	33108	1.53	ppb	97
48) Toluene	12.98	92	9664	0.39	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090732.D A826_1UG.M Thu Sep 15 12:48:57 2011 MSD1 Page 1

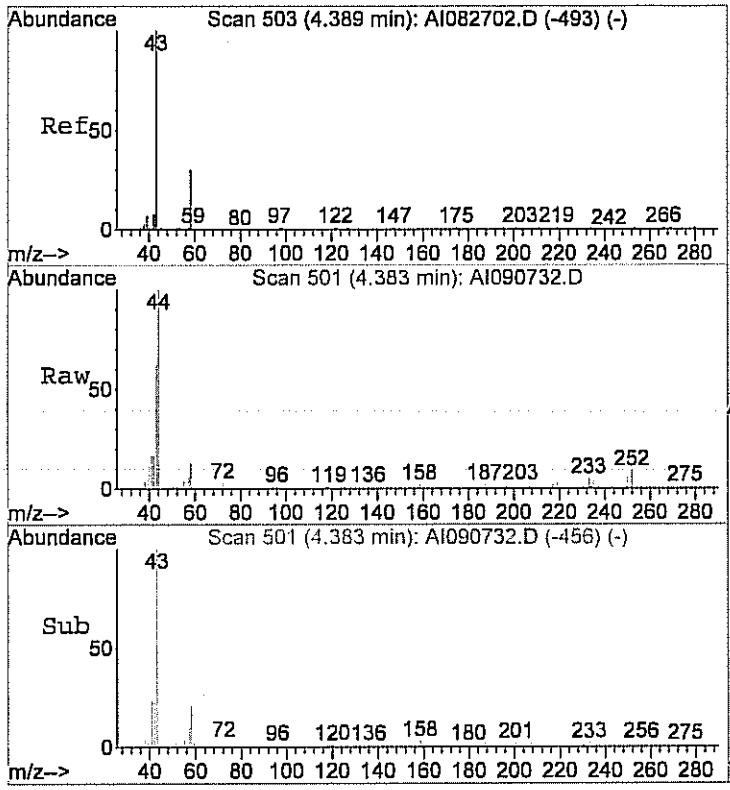
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090732.D Vial: 52
Acq On : 8 Sep 2011 4:21 am Operator: RJP
Sample : C1108077-007A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:00 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



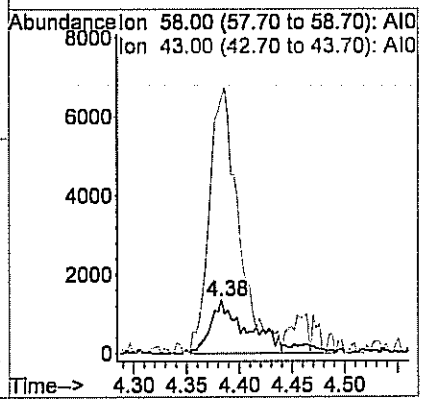
Centek Laboratories, LLC

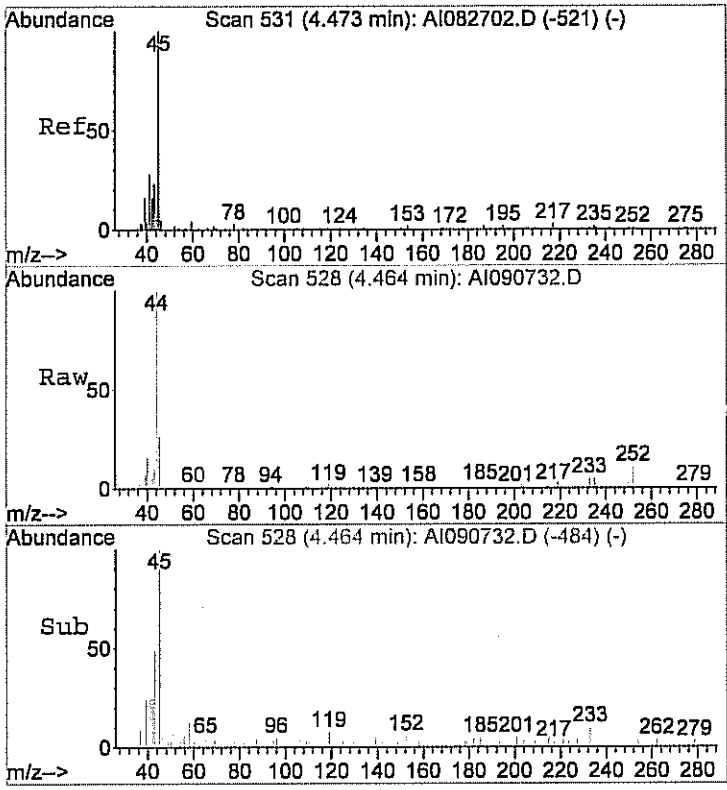


#14
Acetone
Concen: 0.83 ppb
RT: 4.38 min Scan# 501
Delta R.T. -0.01 min
Lab File: AI090732.D
Acq: 8 Sep 2011 4:21 am

Tgt Ion: 58 Resp: 3592

Ion	Ratio	Lower	Upper
58	100		
43	362.8	360.8	420.8

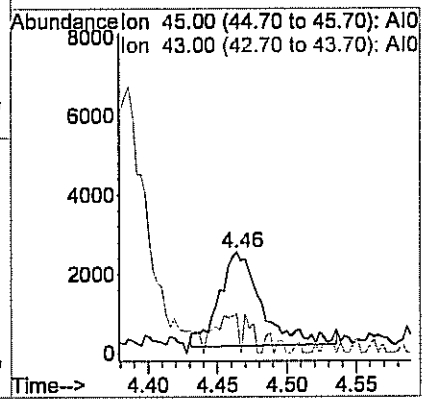


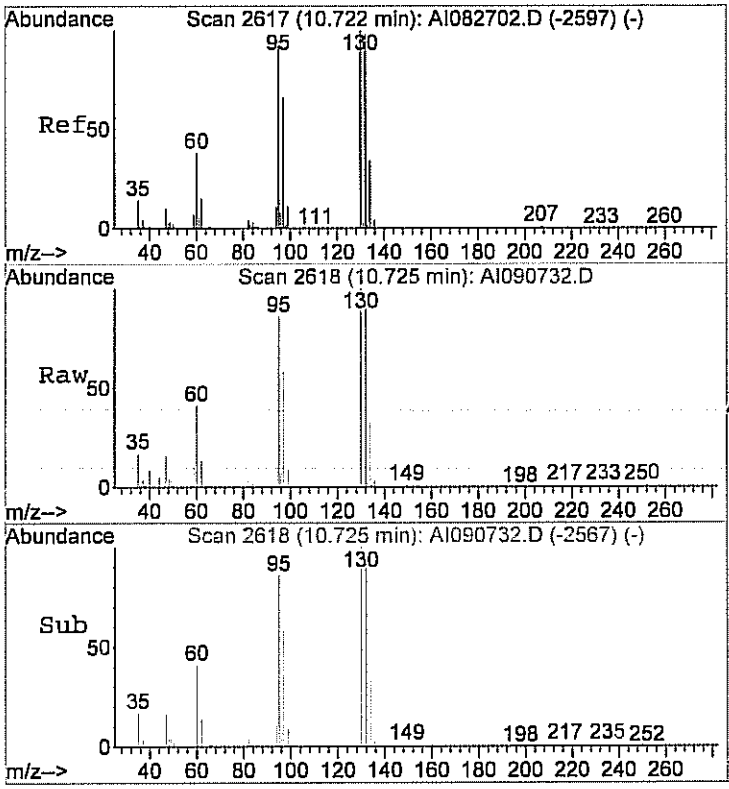


#15
Isopropyl alcohol
Concen: 0.58 ppb m
RT: 4.46 min Scan# 528
Delta R.T. -0.02 min
Lab File: AI090732.D
Acq: 8 Sep 2011 4:21 am

Tgt Ion: 45 Resp: 5117

Ion	Ratio	Lower	Upper
45	100		
43	21.6	0.0	20.0#

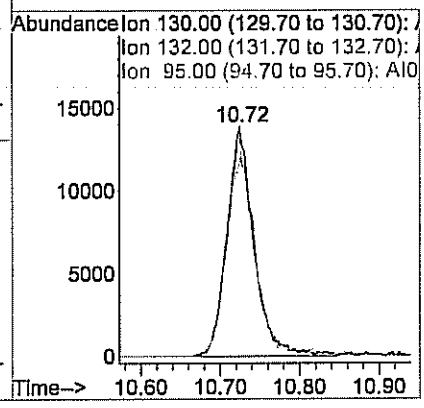


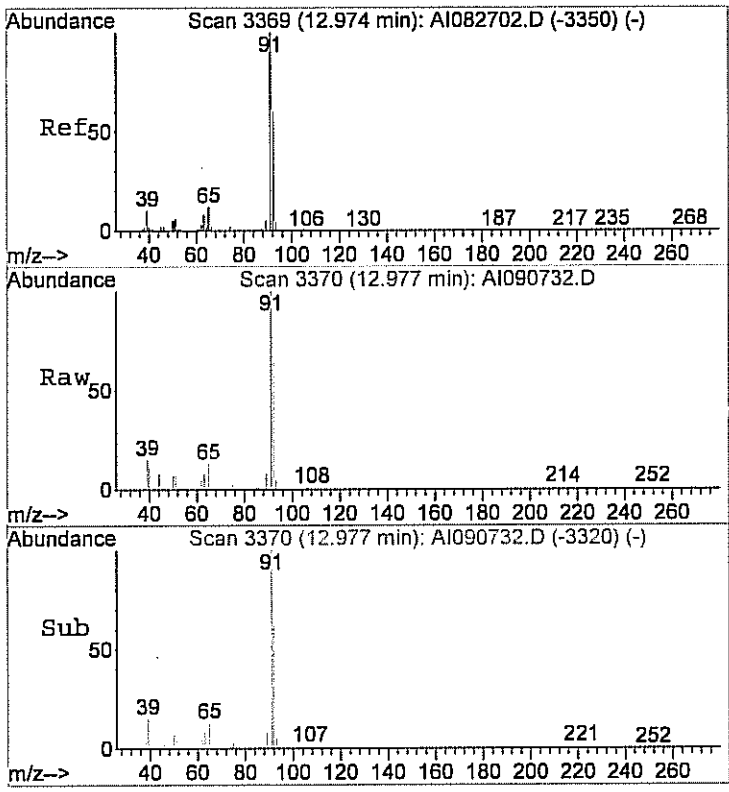


#41
Trichloroethene
Concen: 1.53 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090732.D
Acq: 8 Sep 2011 4:21 am

Tgt Ion:130 Resp: 33108

Ion	Ratio	Lower	Upper
130	100		
132	95.9	79.0	119.0
95	94.5	76.8	116.8

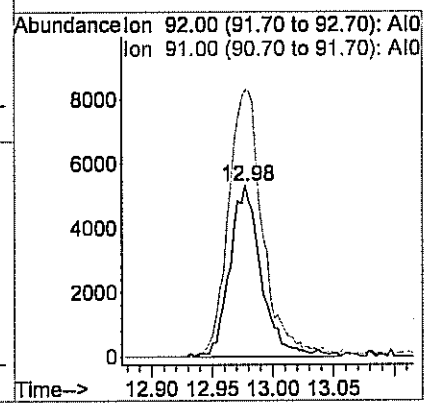




#48
Toluene
Concen: 0.39 ppb
RT: 12.98 min Scan# 3370
Delta R.T. 0.00 min
Lab File: AI090732.D
Acq: 8 Sep 2011 4:21 am

Tgt Ion: 92 Resp: 9664

Ion	Ratio	Lower	Upper
92	100		
91	173.8	159.8	199.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.75	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	1.5	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	0.62	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
4-ethyltoluene	0.40	0.15		ppbV	1	9/7/2011 6:29:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Benzene	0.10	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromodichloromethane	0.47	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon disulfide	0.43	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroform	21	1.5		ppbV	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Ethyl acetate	0.31	0.25		ppbV	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.0	1.5		ppbV	10	9/8/2011 4:54:00 AM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 113	0.14	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 6:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
m&p-Xylene	7.3	3.0		ppbV	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	2.9	3.0	J	ppbV	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Methylene chloride	6.4	1.5		ppbV	10	9/8/2011 4:54:00 AM
o-Xylene	1.5	1.5		ppbV	10	9/8/2011 4:54:00 AM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Styrene	0.50	0.15		ppbV	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Toluene	4.3	1.5		ppbV	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Trichloroethene	47	6.0		ppbV	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	4.2	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	7.5	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 6:29:00 PM
4-ethyltoluene	2.0	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Acetone	25	7.2		ug/m3	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 6:29:00 PM
Benzene	0.32	0.49	J	ug/m3	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 6:29:00 PM
Bromodichloromethane	3.2	1.0		ug/m3	1	9/7/2011 6:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 6:29:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 6:29:00 PM
Chloroform	100	7.4		ug/m3	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 6:29:00 PM
Ethyl acetate	1.1	0.92		ug/m3	1	9/7/2011 6:29:00 PM
Ethylbenzene	8.8	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 6:29:00 PM
Freon 113	1.1	1.2	J	ug/m3	1	9/7/2011 6:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 6:29:00 PM
m&p-Xylene	32	13		ug/m3	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	8.7	9.0	J	ug/m3	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 6:29:00 PM
Methylene chloride	23	5.3		ug/m3	10	9/8/2011 4:54:00 AM
o-Xylene	6.6	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 6:29:00 PM
Styrene	2.2	0.65		ug/m3	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 6:29:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Trichloroethene	260	33		ug/m3	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090714.D Vial: 34
Acq On : 7 Sep 2011 6:29 pm Operator: RJP
Sample : C1108077-008A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 18:50:39 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

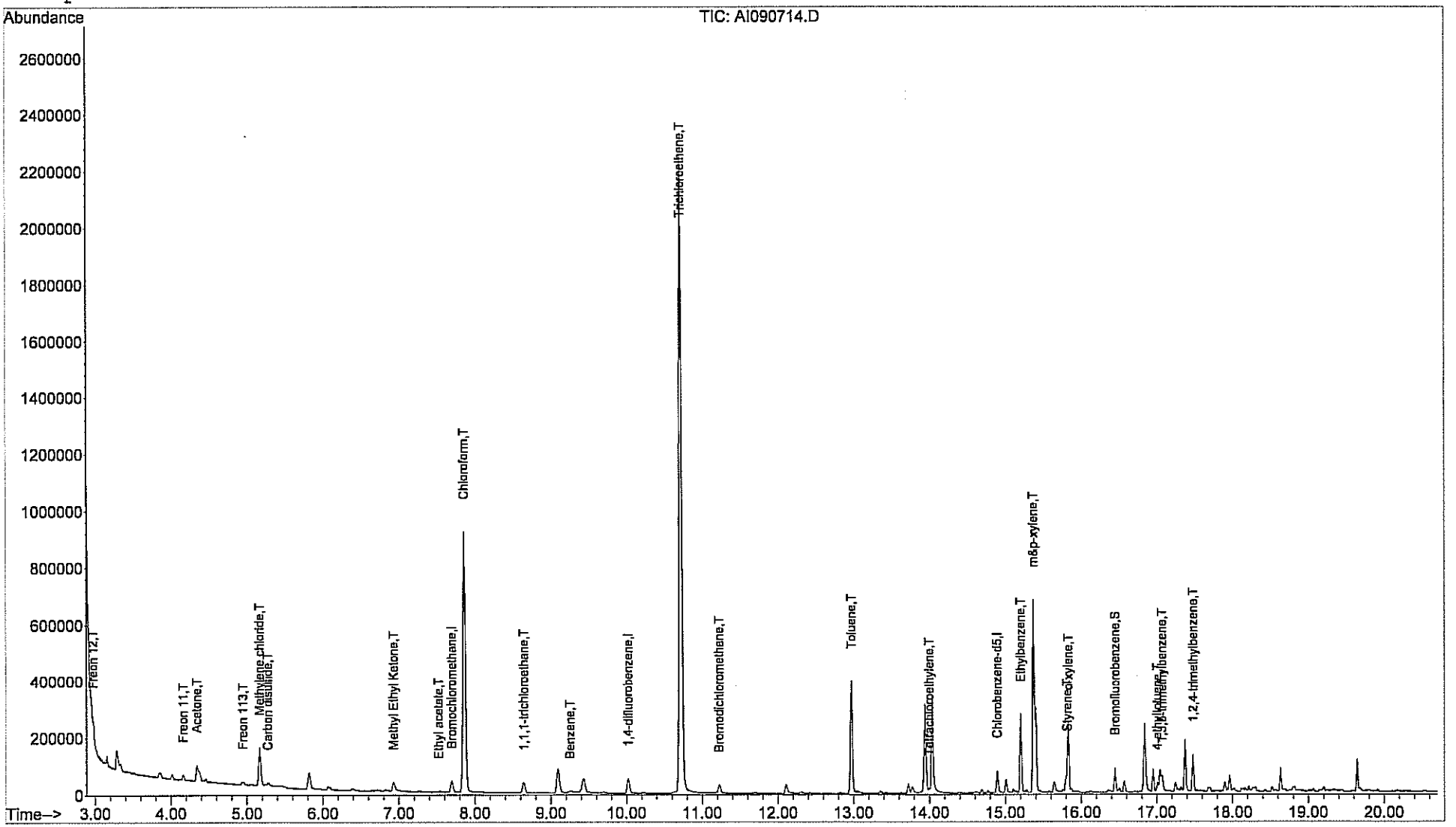
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13511	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	48891	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	44082	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	26189	1.18	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32459	0.56	ppb		100
13) Freon 11	4.16	101	13351	0.30	ppb		96
14) Acetone	4.34	58	35202	7.38	ppb	#	68
17) Freon 113	4.95	101	4482	0.14	ppb		94
18) Methylene chloride	5.17	84	64238	5.27	ppb		94
20) Carbon disulfide	5.28	76	16653	0.43	ppb		100
25) Methyl Ethyl Ketone	6.93	72	12242	2.77	ppb	#	100
28) Ethyl acetate	7.53	43	5926	0.31	ppb		80
29) Chloroform	7.86	83	812786	19.52	ppb		99
33) 1,1,1-trichloroethane	8.63	97	26907	0.75	ppb		98
36) Benzene	9.24	78	4349	0.10	ppb		96
41) Trichloroethene	10.72	130	928136	36.33	ppb		99
43) Bromodichloromethane	11.22	83	19847	0.47	ppb		97
48) Toluene	12.97	92	169240	5.88	ppb		94
53) Tetrachloroethylene	14.00	164	3663	0.12	ppb		91
55) Ethylbenzene	15.20	91	181409	3.07	ppb		100
56) m&p-xylene	15.37	91	518178	10.75	ppb		100
57) Styrene	15.80	104	14583	0.50	ppb	#	31
59) o-xylene	15.83	91	127747	2.28	ppb		100
63) 4-ethyltoluene	17.01	105	18550m	0.40	ppb		
64) 1,3,5-trimethylbenzene	17.07	105	31519m	0.62	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	61505	1.51	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

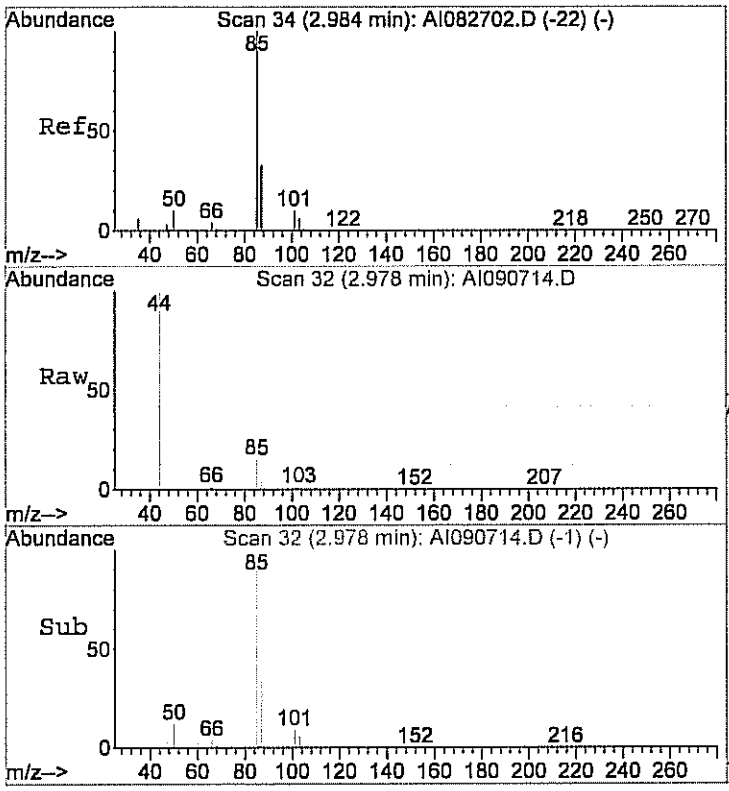
Data File : C:\HPCHEM\1\DATA\AI090714.D
Acq On : 7 Sep 2011 6:29 pm
Sample : C1108077-008A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:22 2011

Vial: 34
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



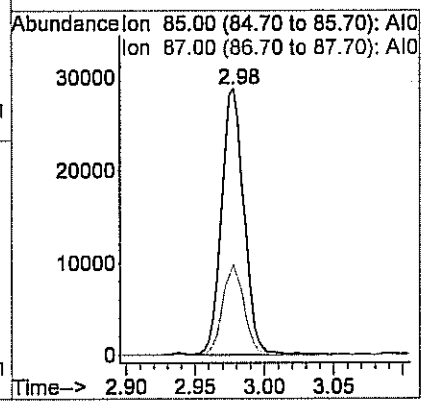
Centek Laboratories, LLC

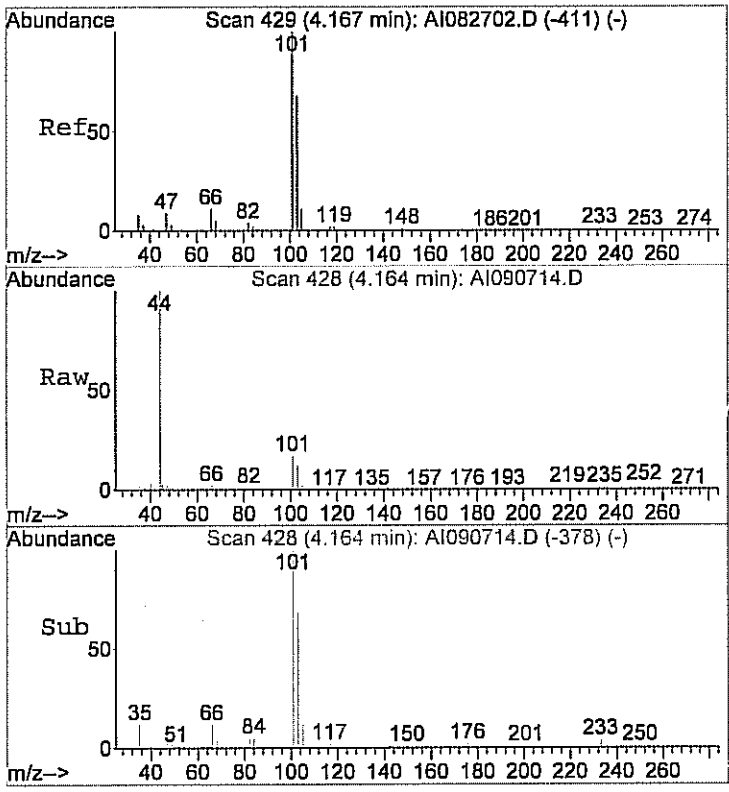


#3
Freon 12
Concen: 0.56 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 85 Resp: 32459

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.2	52.2

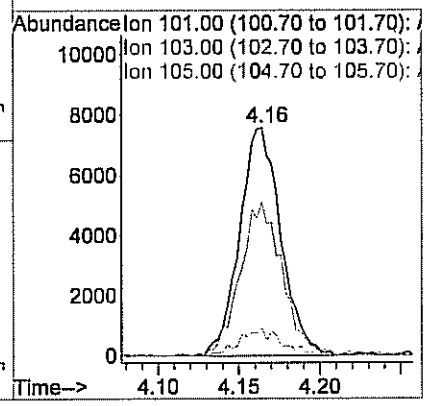


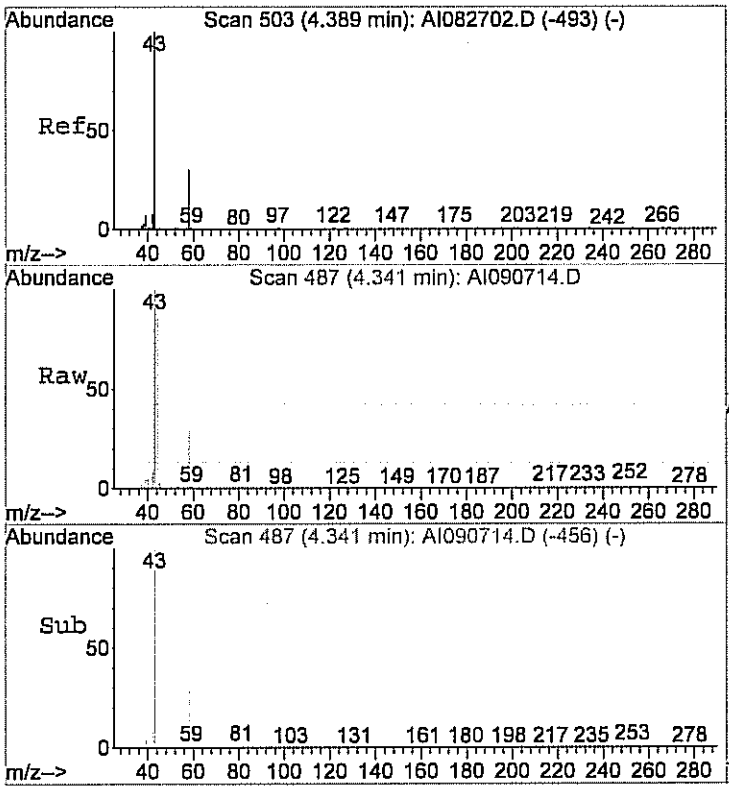


#13
Freon 11
Concen: 0.30 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:101 Resp: 13351

Ion	Ratio	Lower	Upper
101	100		
103	68.1	44.9	84.9
105	12.3	0.0	30.9

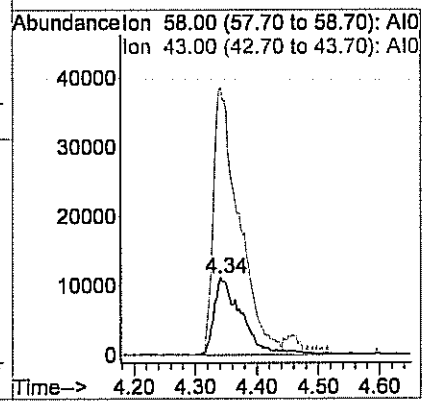


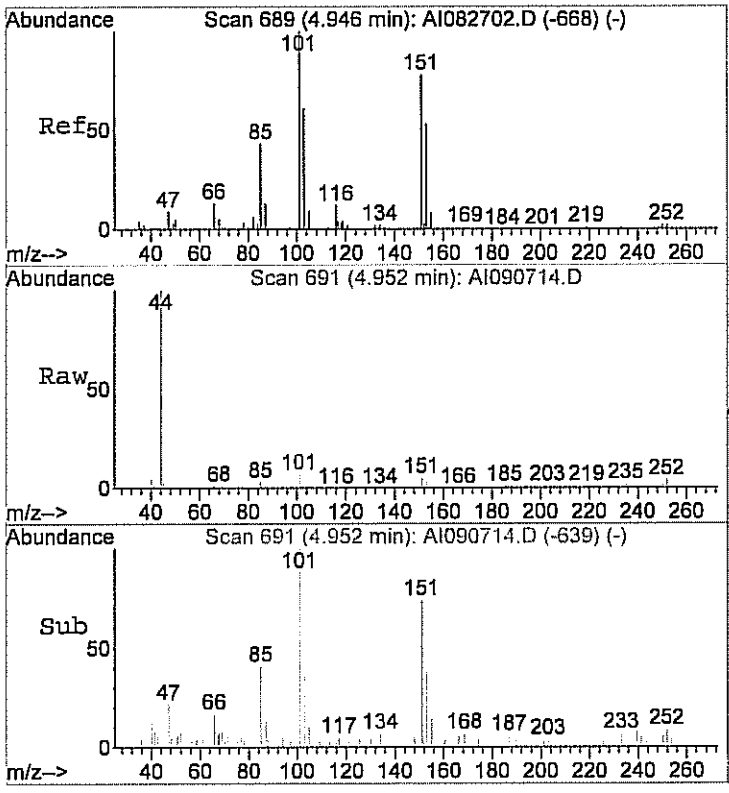


#14
Acetone
Concen: 7.38 ppb
RT: 4.34 min Scan# 487
Delta R.T. -0.06 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 58 Resp: 35202

Ion	Ratio	Lower	Upper
58	100		
43	315.4	360.8	420.8#

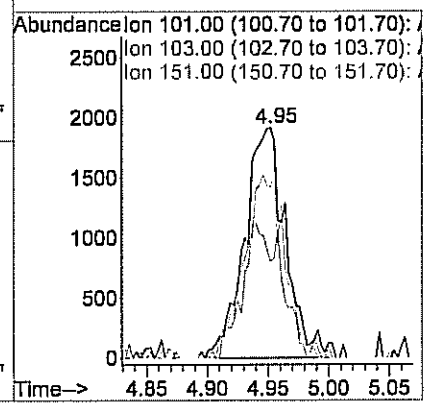


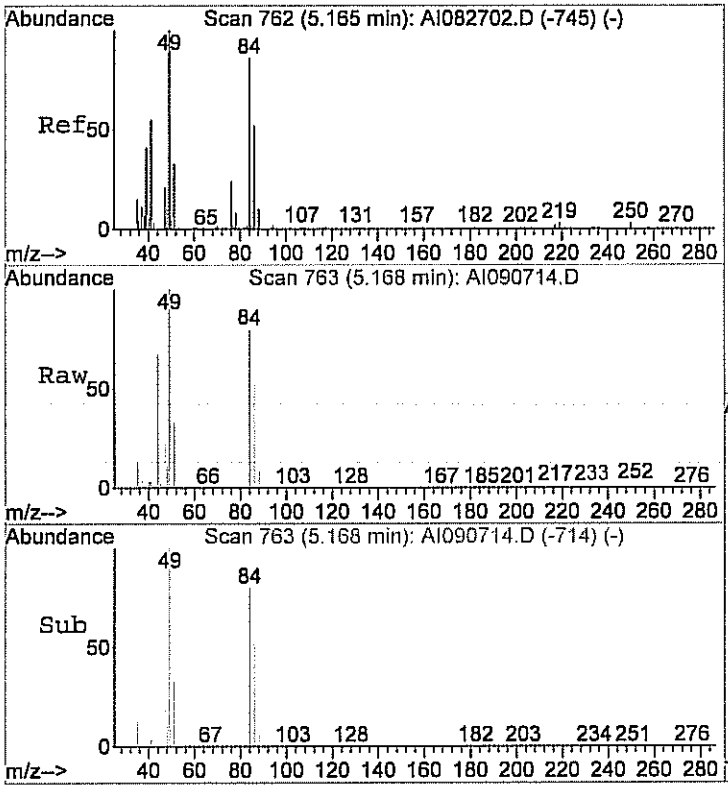


#17
Freon 113
Concen: 0.14 ppb
RT: 4.95 min Scan# 691
Delta R.T. 0.01 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:101 Resp: 4482

Ion	Ratio	Lower	Upper
101	100		
103	55.6	44.3	84.3
151	78.7	61.0	101.0

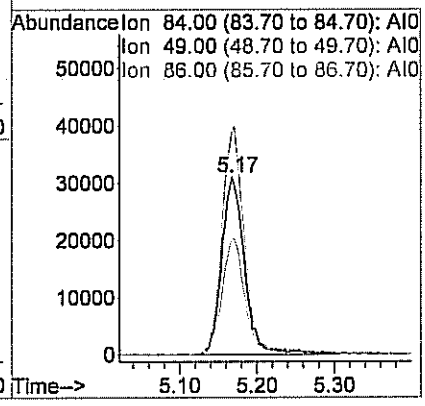


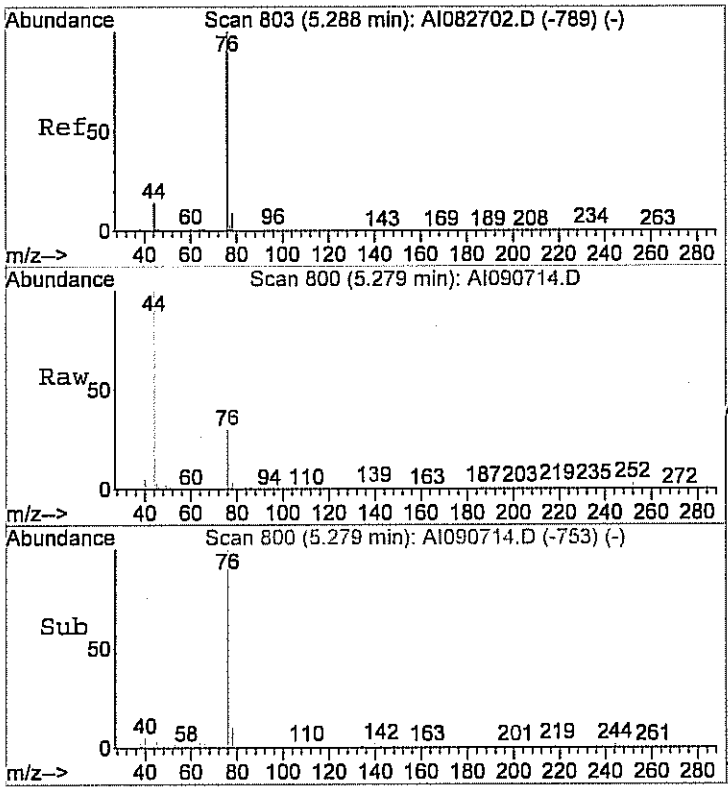


#18
Methylene chloride
Concen: 5.27 ppb
RT: 5.17 min Scan# 763
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 84 Resp: 64238

Ion	Ratio	Lower	Upper
84	100		
49	127.4	116.9	156.9
86	66.2	46.7	86.7

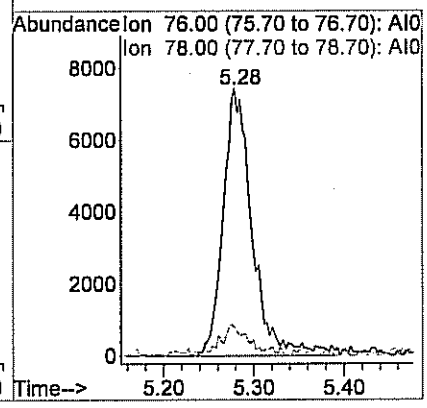


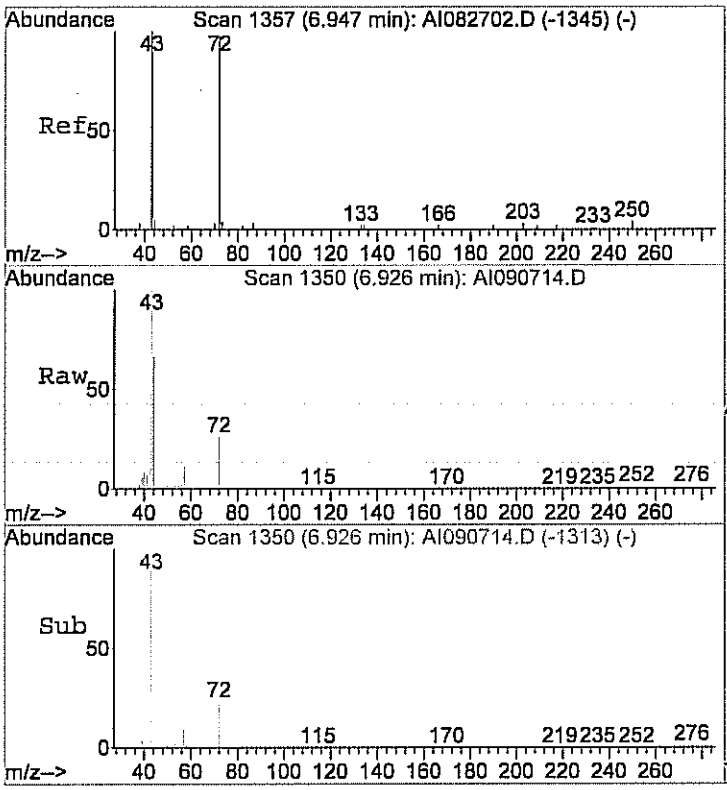


#20
Carbon disulfide
Concen: 0.43 ppb
RT: 5.28 min Scan# 800
Delta R.T. -0.01 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 76 Resp: 16653

Ion	Ratio	Lower	Upper
76	100		
78	9.6	0.0	29.6

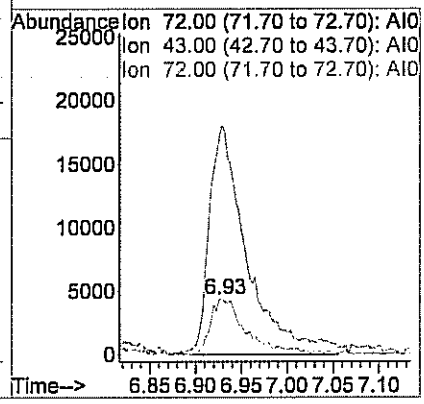


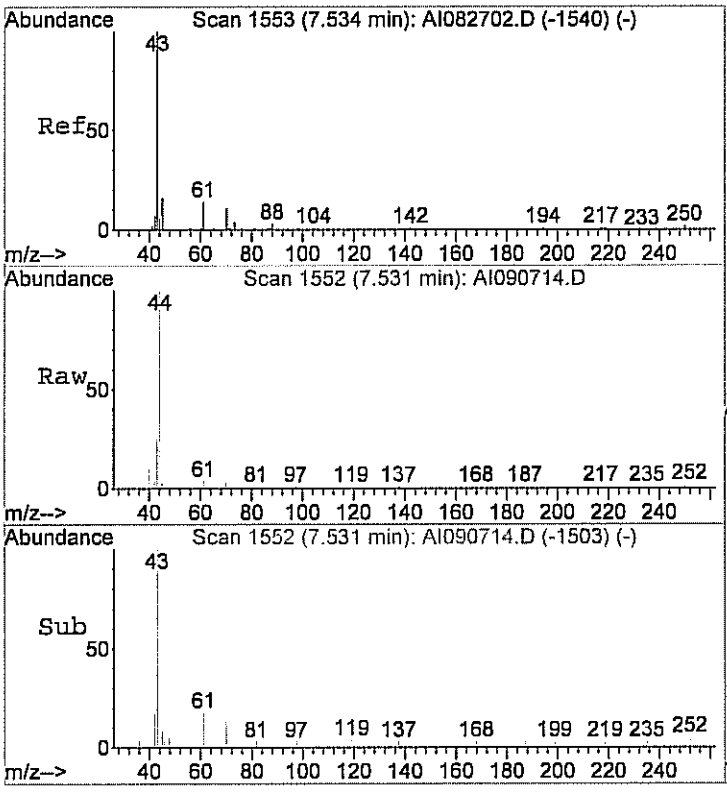


#25
Methyl Ethyl Ketone
Concen: 2.77 ppb
RT: 6.93 min Scan# 1350
Delta R.T. -0.04 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 72 Resp: 12242

Ion	Ratio	Lower	Upper
72	100		
43	422.9	0.0	20.0#
72	100.0	80.0	120.0

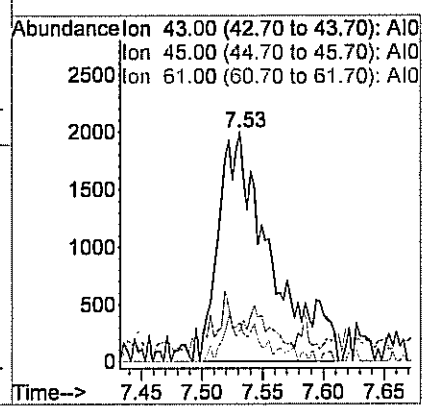


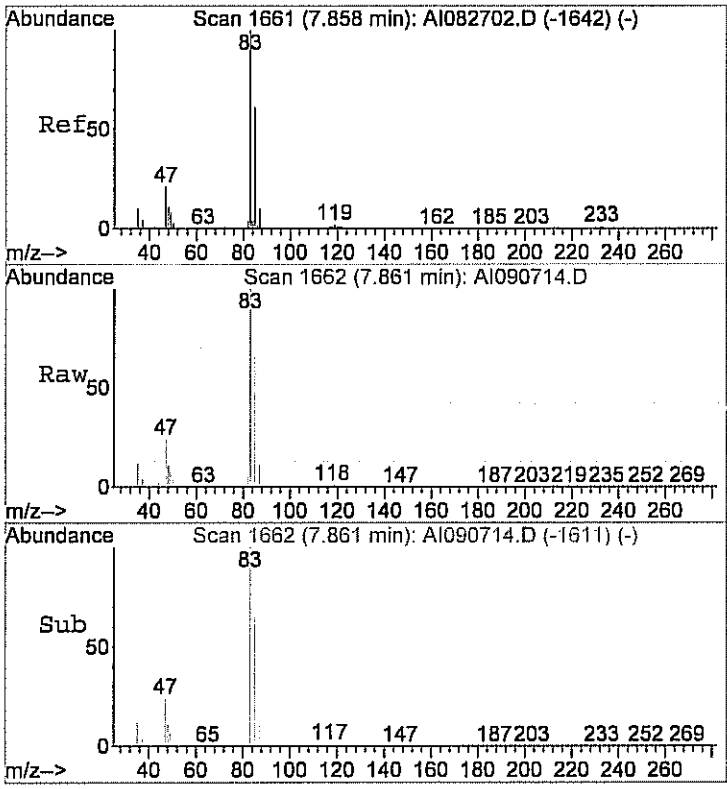


#28
Ethyl acetate
Concen: 0.31 ppb
RT: 7.53 min Scan# 1552
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 43 Resp: 5926

Ion	Ratio	Lower	Upper
43	100		
45	29.4	0.0	34.5
61	12.9	0.0	34.0

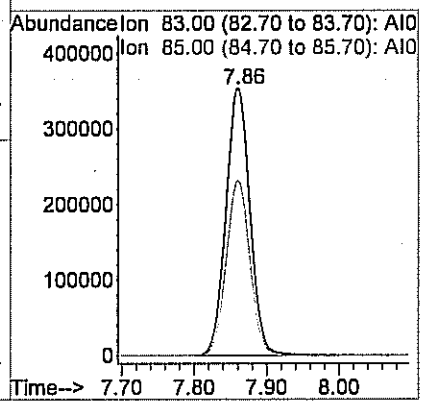


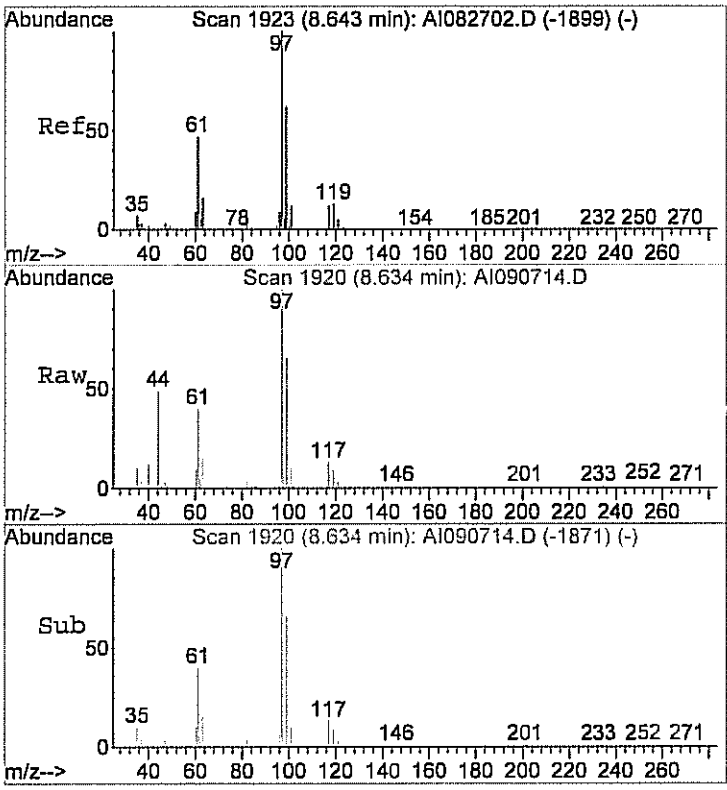


#29
Chloroform
Concen: 19.52 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 83 Resp: 812786

Ion	Ratio	Lower	Upper
83	100		
85	65.4	45.0	85.0

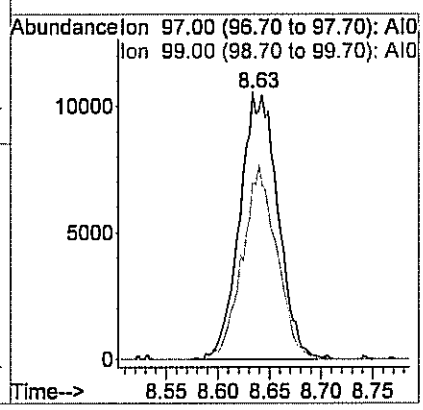


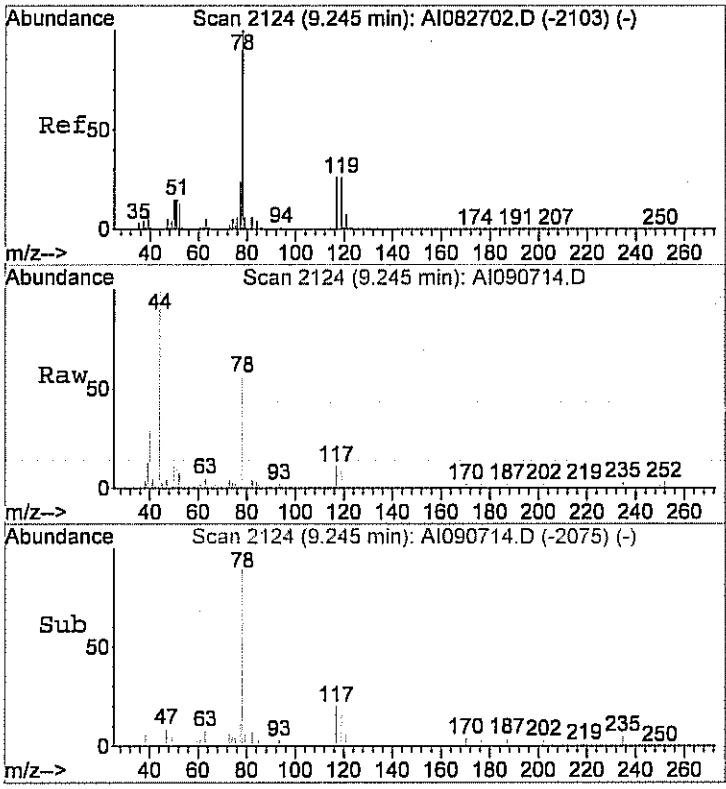


#33
1,1,1-trichloroethane
Concen: 0.75 ppb
RT: 8.63 min Scan# 1920
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 97 Resp: 26907

Ion	Ratio	Lower	Upper
97	100		
99	65.3	43.8	83.8

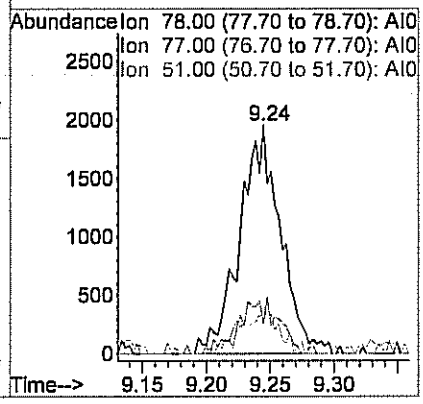


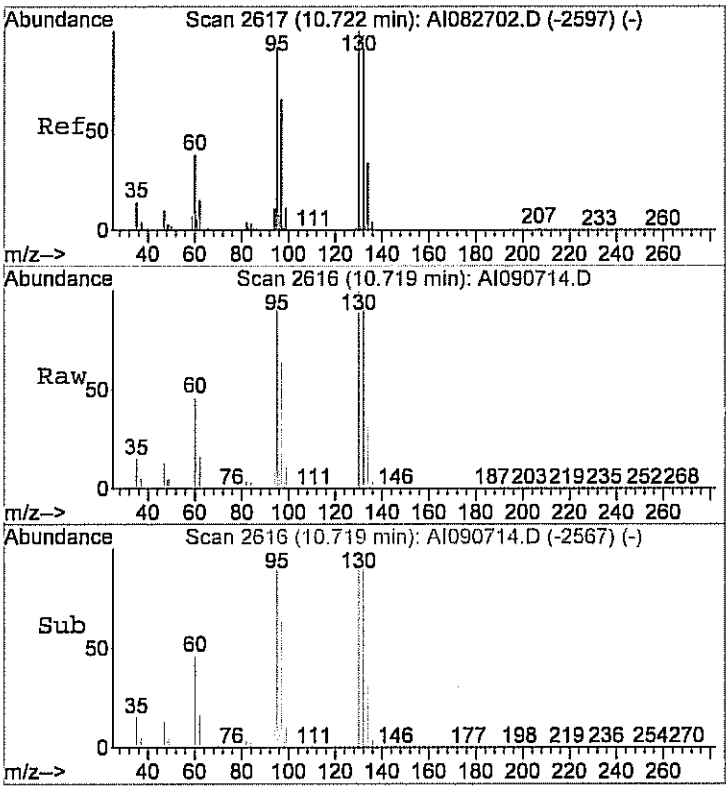


#36
Benzene
Concen: 0.10 ppb
RT: 9.24 min Scan# 2124
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 78 Resp: 4349

Ion	Ratio	Lower	Upper
78	100		
77	22.9	5.2	45.2
51	18.7	0.0	37.6

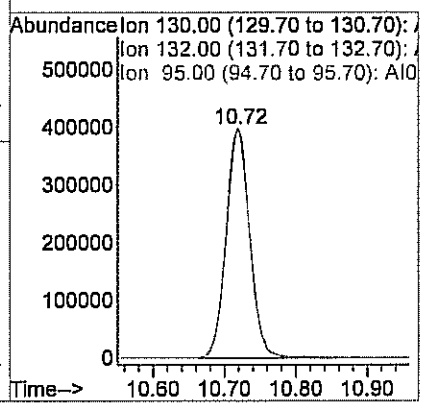


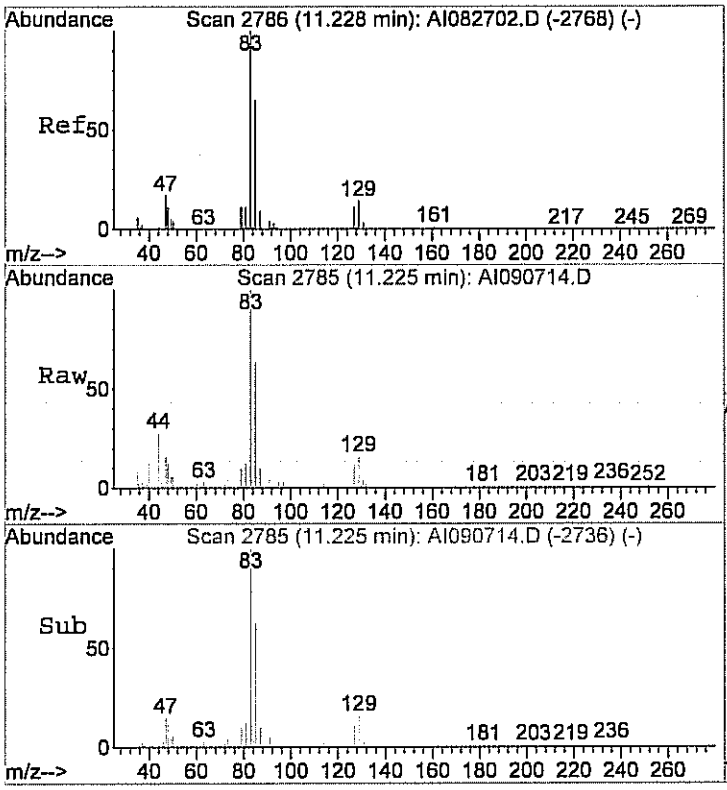


#41
Trichloroethene
Concen: 36.33 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:130 Resp: 928136

Ion	Ratio	Lower	Upper
130	100		
132	97.2	79.0	119.0
95	97.5	76.8	116.8

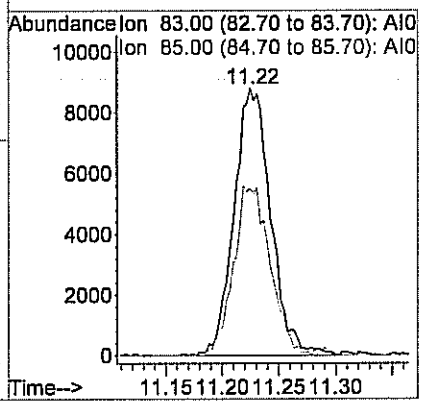


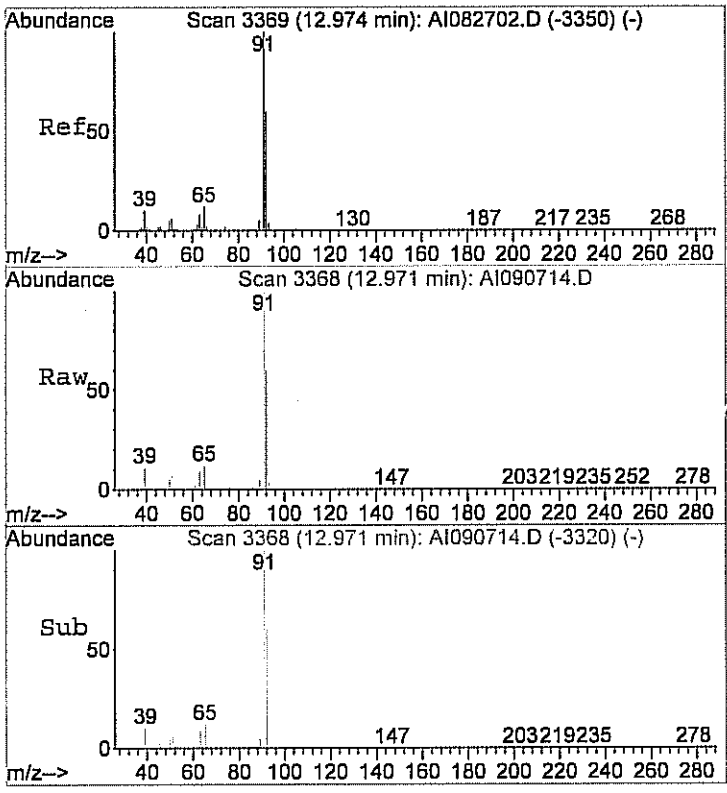


#43
Bromodichloromethane
Concen: 0.47 ppb
RT: 11.22 min Scan# 2785
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 83 Resp: 19847

Ion	Ratio	Lower	Upper
83	100		
85	63.4	46.0	86.0

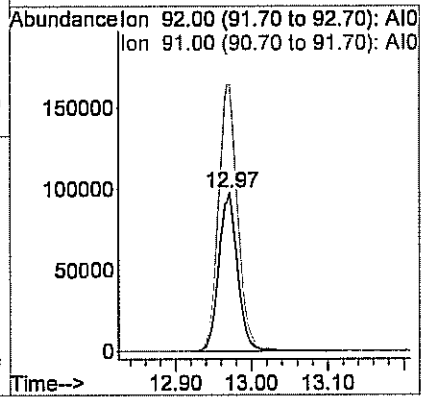


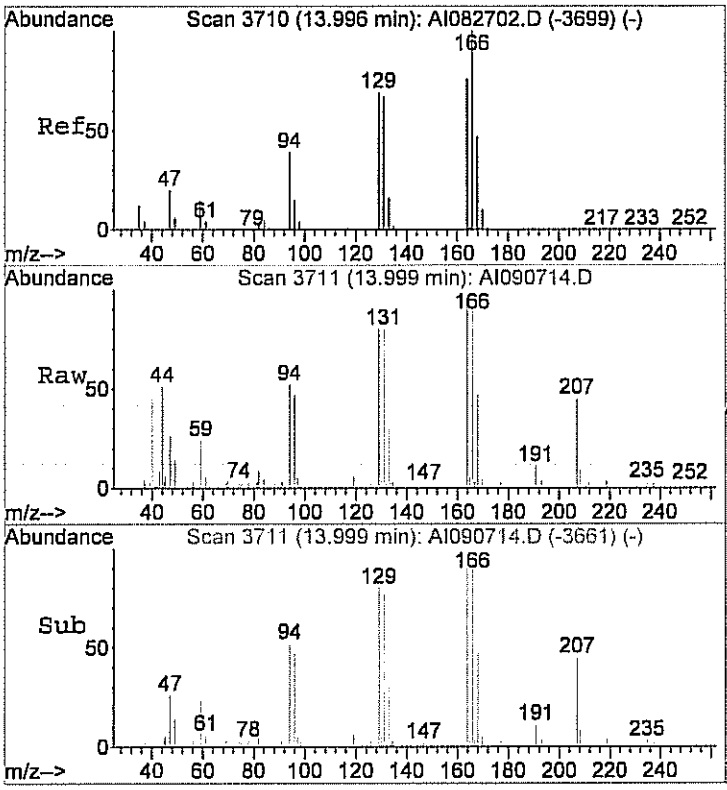


#48
Toluene
Concen: 5.88 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 92 Resp: 169240

Ion	Ratio	Lower	Upper
92	100		
91	171.1	159.8	199.8

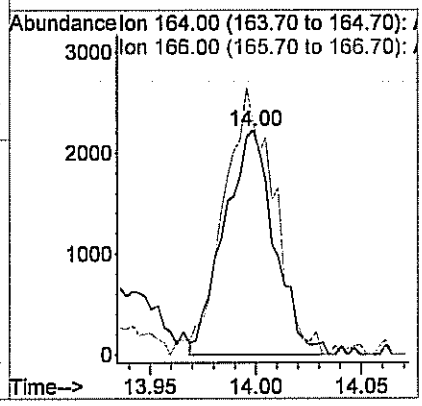


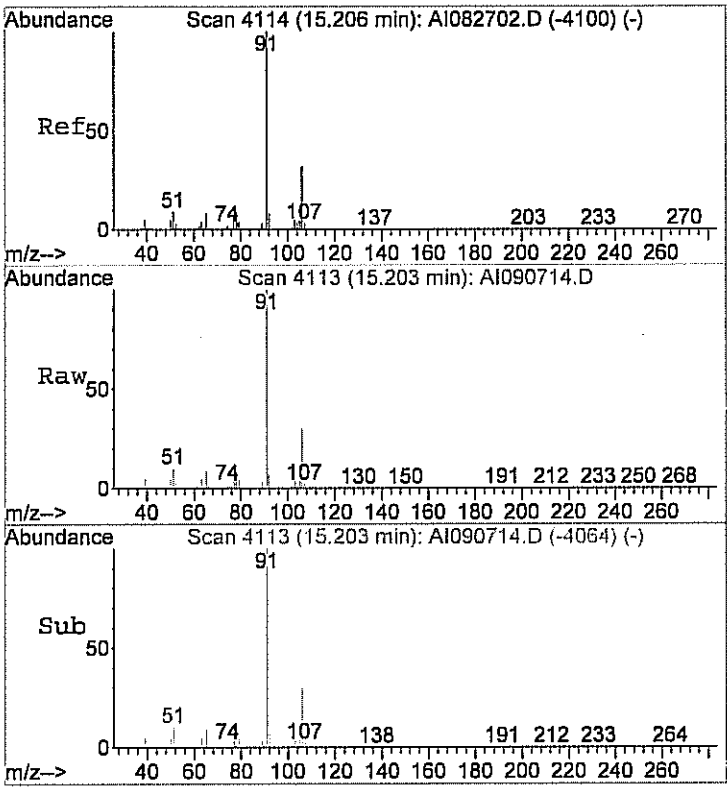


#53
Tetrachloroethylene
Concen: 0.12 ppb
RT: 14.00 min Scan# 3711
Delta R.T. 0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:164 Resp: 3663

Ion	Ratio	Lower	Upper
164	100		
166	119.4	109.4	149.4

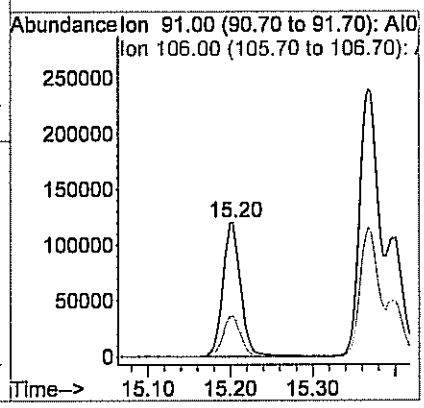


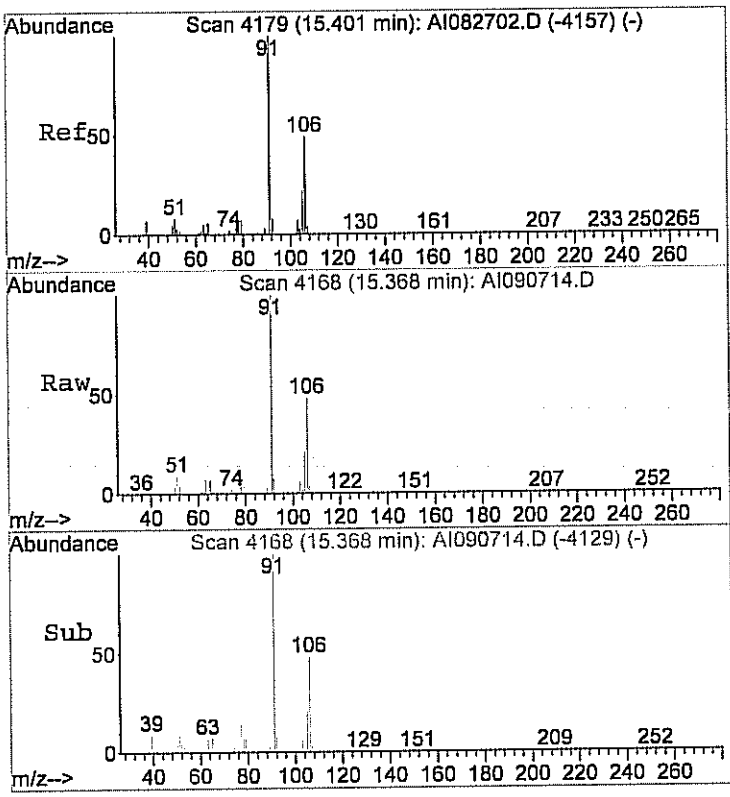


#55
Ethylbenzene
Concen: 3.07 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 91 Resp: 181409

Ion	Ratio	Lower	Upper
91	100		
106	30.5	10.7	50.7

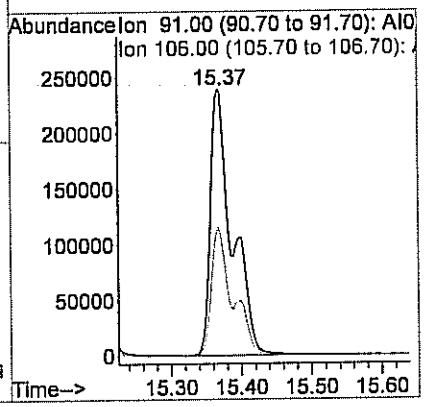


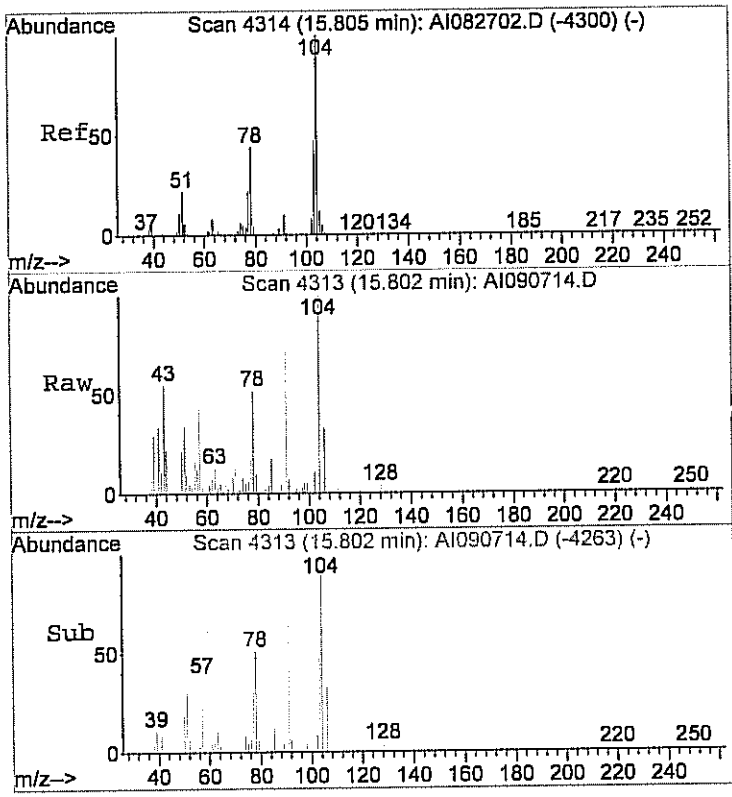


#56
m&p-xylene
Concen: 10.75 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 91 Resp: 518178

Ion	Ratio	Lower	Upper
91	100		
106	47.3	27.5	67.5

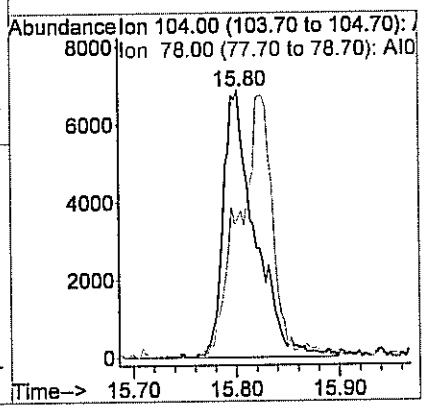


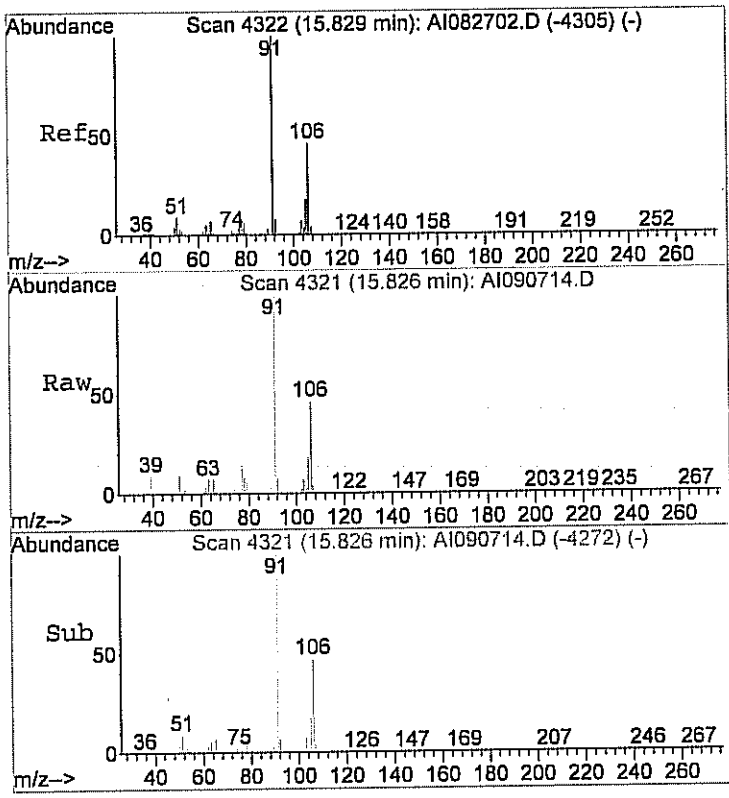


#57
Styrene
Concen: 0.50 ppb
RT: 15.80 min Scan# 4313
Delta R.T. 0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:104 Resp: 14583

Ion	Ratio	Lower	Upper
104	100		
78	107.1	36.7	76.7#

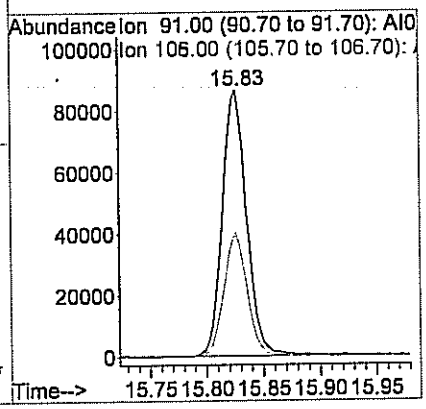


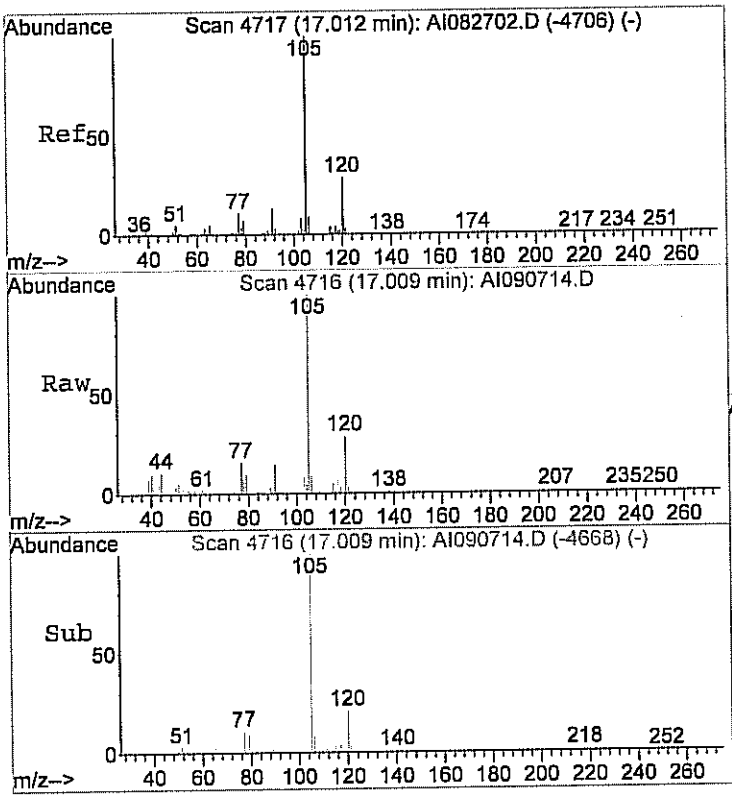


#59
o-xylene
Concen: 2.28 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion: 91 Resp: 127747

Ion	Ratio	Lower	Upper
91	100		
106	46.1	26.2	66.2

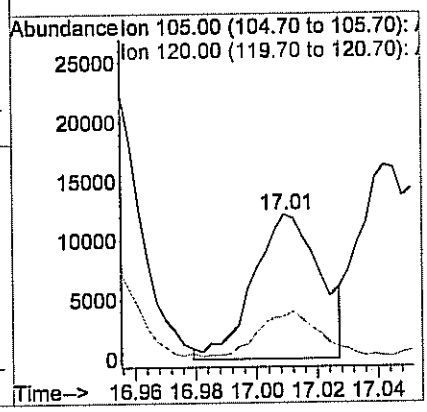


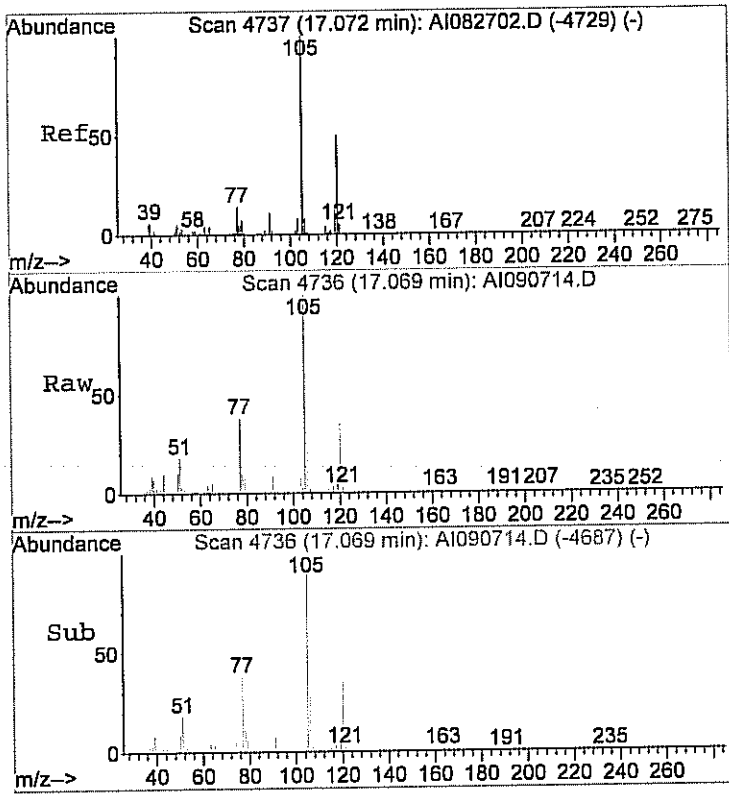


#63
4-ethyltoluene
Concen: 0.40 ppb m
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:105 Resp: 18550

Ion	Ratio	Lower	Upper
105	100		
120	51.4	8.1	48.1#

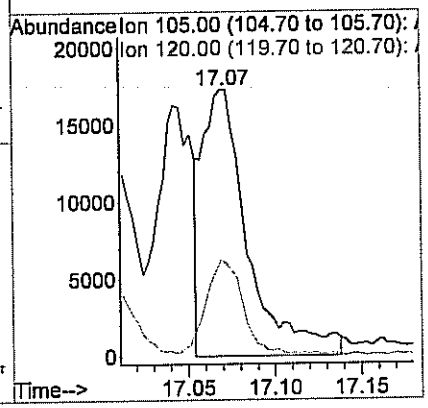


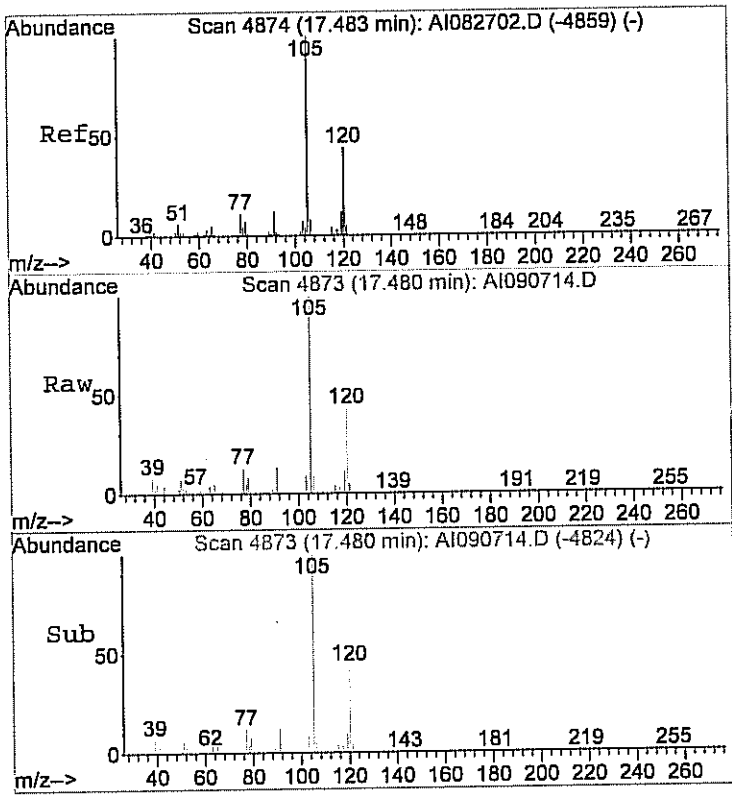


#64
1,3,5-trimethylbenzene
Concen: 0.62 ppb m
RT: 17.07 min Scan# 4736
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:105 Resp: 31519

Ion	Ratio	Lower	Upper
105	100		
120	35.1	26.2	66.2

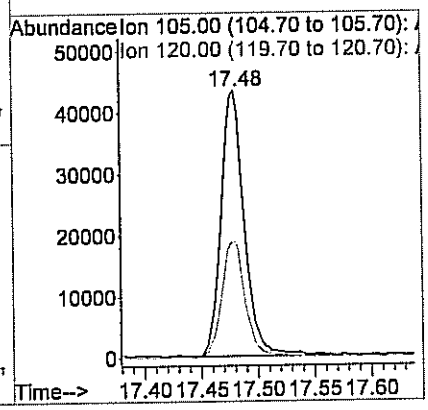




#65
1,2,4-trimethylbenzene
Concen: 1.51 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090714.D
Acq: 7 Sep 2011 6:29 pm

Tgt Ion:105 Resp: 61505

Ion	Ratio	Lower	Upper
105	100		
120	45.2	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090733.D Vial: 53
Acq On : 8 Sep 2011 4:54 am Operator: RJP
Sample : C1108077-008A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 05:15:33 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

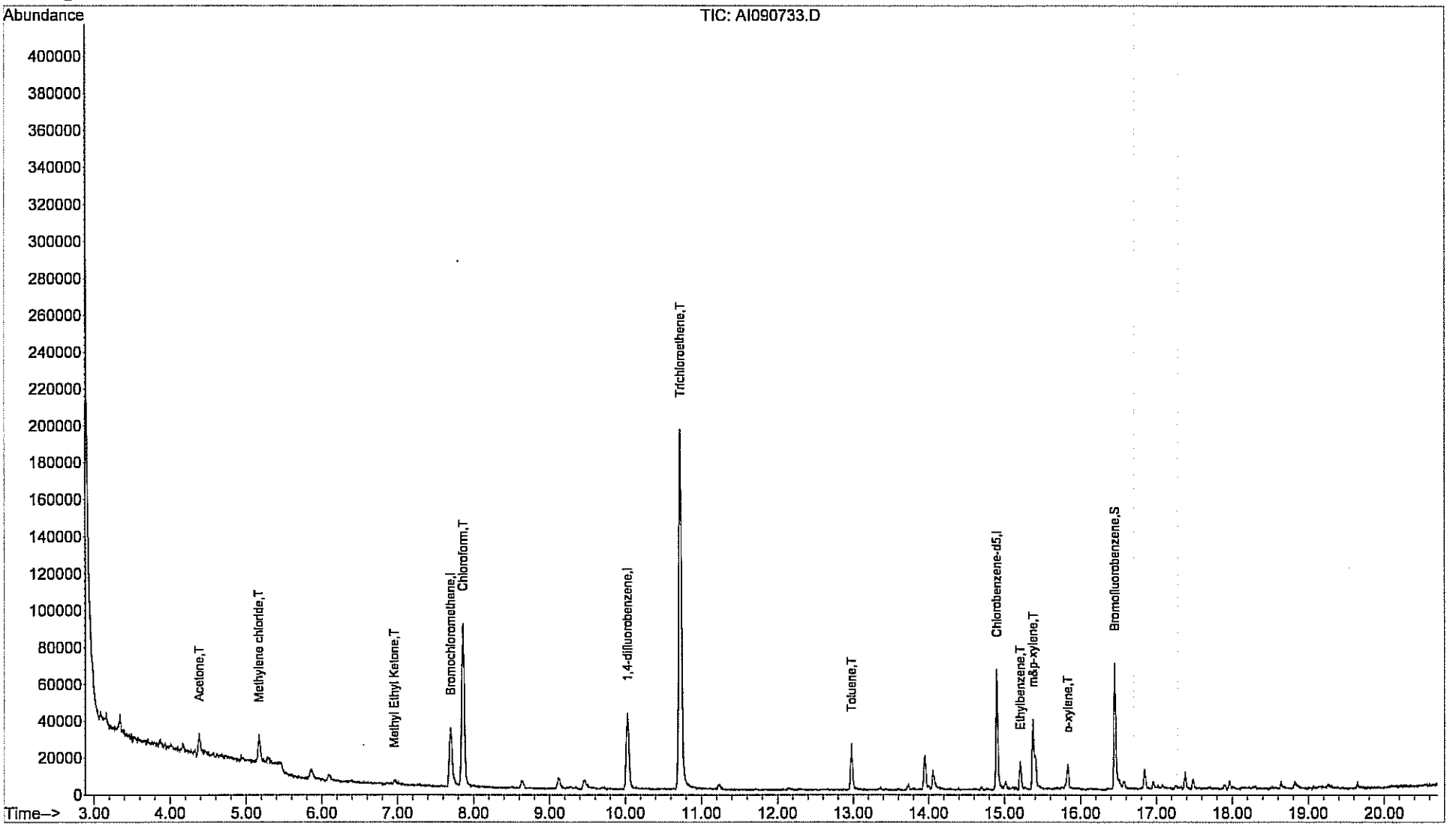
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12775	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	43525	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	38922	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	22363	1.14	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	4617	1.02	ppb	# 56
18) Methylene chloride	5.17	84	7425	0.64	ppb	91
25) Methyl Ethyl Ketone	6.96	72	1226m	0.29	ppb	
29) Chloroform	7.86	83	82164	2.09	ppb	99
41) Trichloroethene	10.72	130	85953	3.78	ppb	98
48) Toluene	12.97	92	10954	0.43	ppb	92
55) Ethylbenzene	15.21	91	10537	0.20	ppb	98
56) m&p-xylene	15.37	91	30869	0.73	ppb	98
59) o-xylene	15.83	91	7344	0.15	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

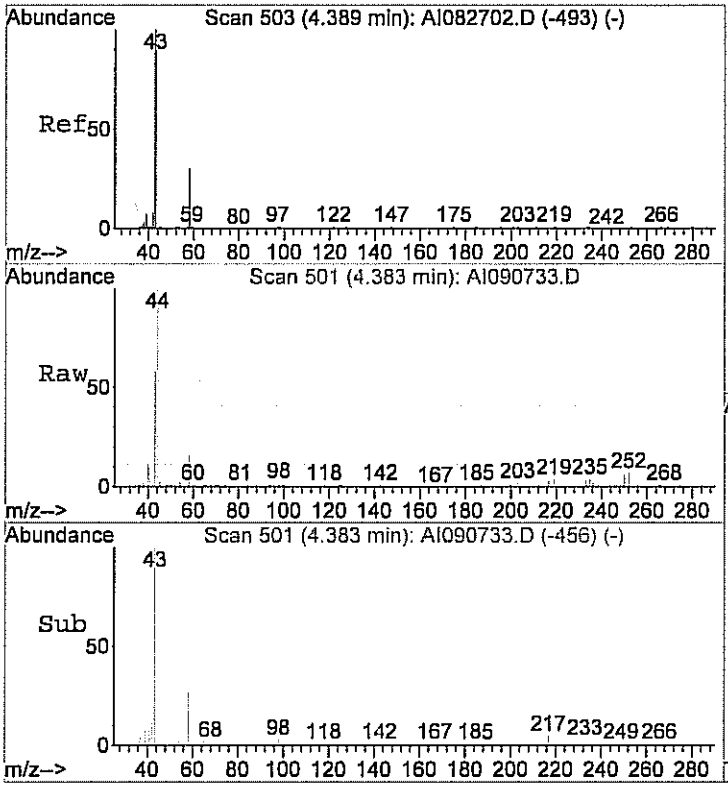
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090733.D Vial: 53
Acq On : 8 Sep 2011 4:54 am Operator: RJP
Sample : C1108077-008A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:01 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



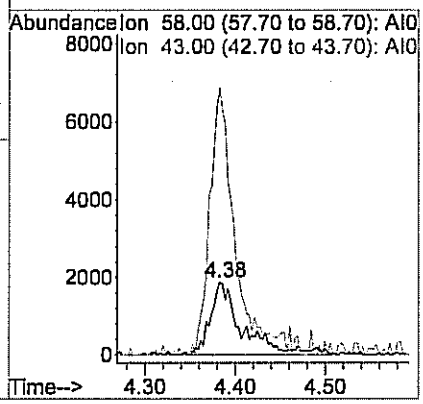
Centek Laboratories, LLC

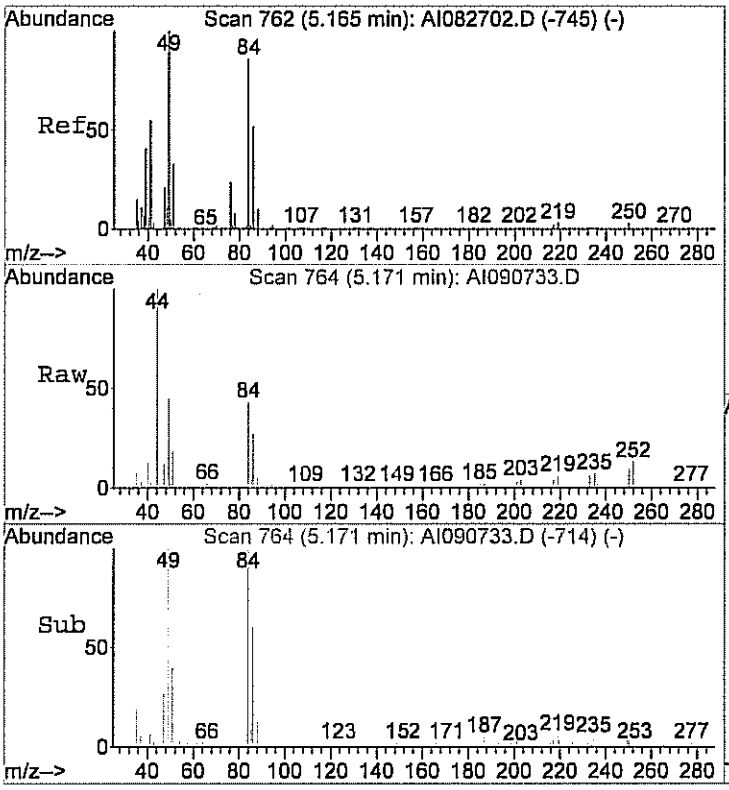


#14
Acetone
Concen: 1.02 ppb
RT: 4.38 min Scan# 501
Delta R.T. -0.02 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 58 Resp: 4617

Ion	Ratio	Lower	Upper
58	100		
43	287.9	360.8	420.8#

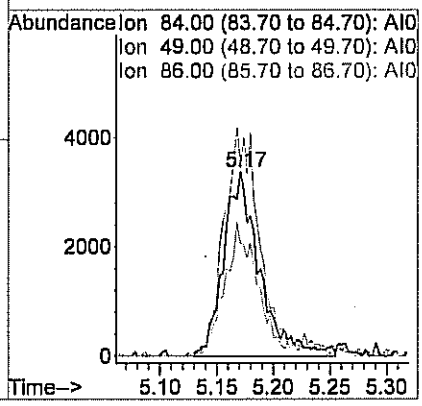


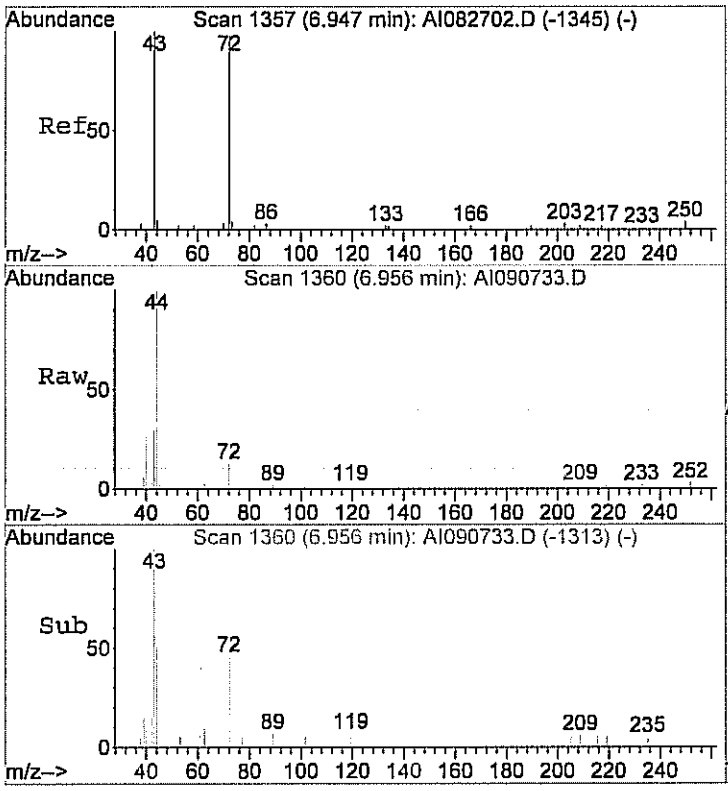


#18
Methylene chloride
Concen: 0.64 ppb
RT: 5.17 min Scan# 764
Delta R.T. -0.00 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 84 Resp: 7425

Ion	Ratio	Lower	Upper
84	100		
49	122.2	116.9	156.9
86	69.8	46.7	86.7

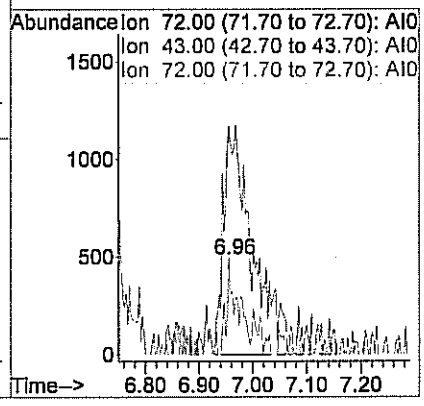


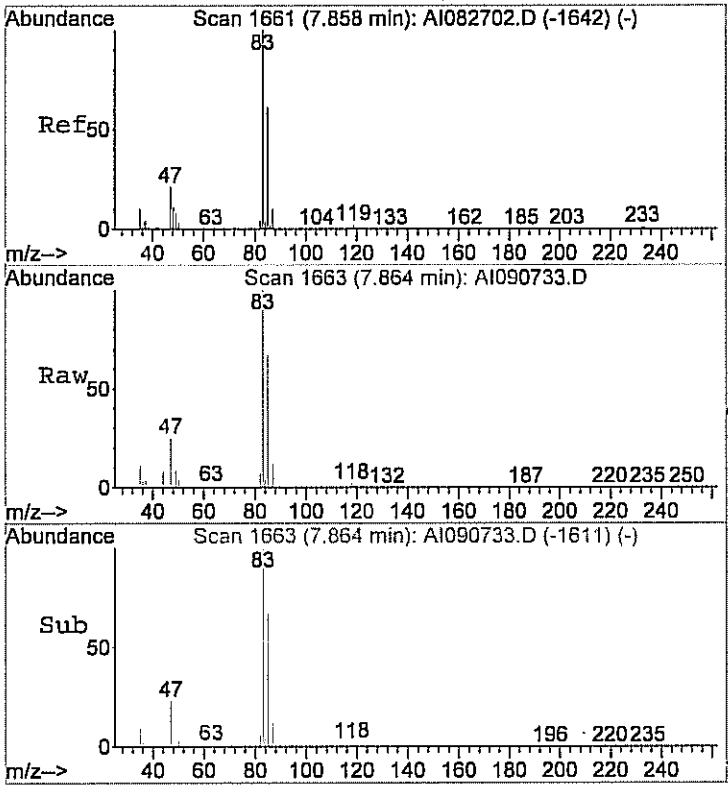


#25
Methyl Ethyl Ketone
Concen: 0.29 ppb m
RT: 6.96 min Scan# 1360
Delta R.T. -0.01 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 72 Resp: 1226

Ion	Ratio	Lower	Upper
72	100		
43	349.3	0.0	20.0#
72	51.0	80.0	120.0#

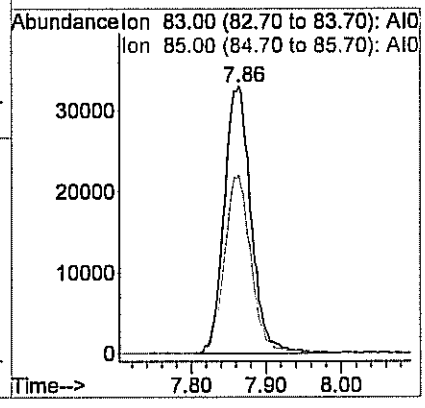


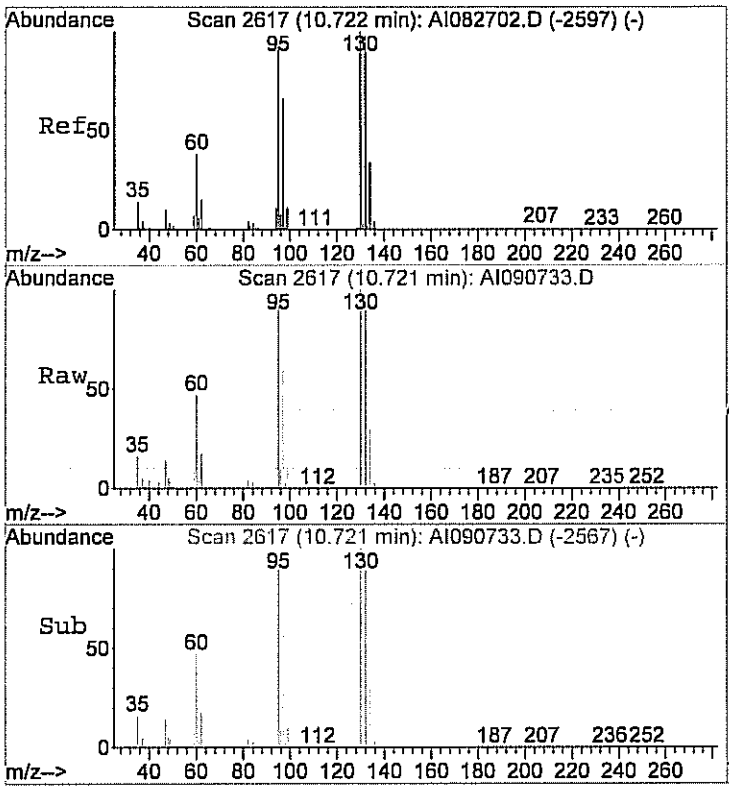


#29
Chloroform
Concen: 2.09 ppb
RT: 7.86 min Scan# 1663
Delta R.T. 0.01 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 83 Resp: 82164

Ion	Ratio	Lower	Upper
83	100		
85	65.7	45.0	85.0

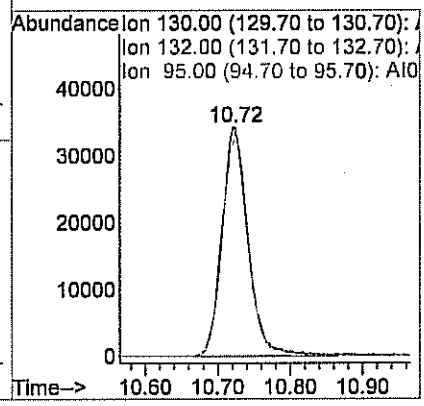


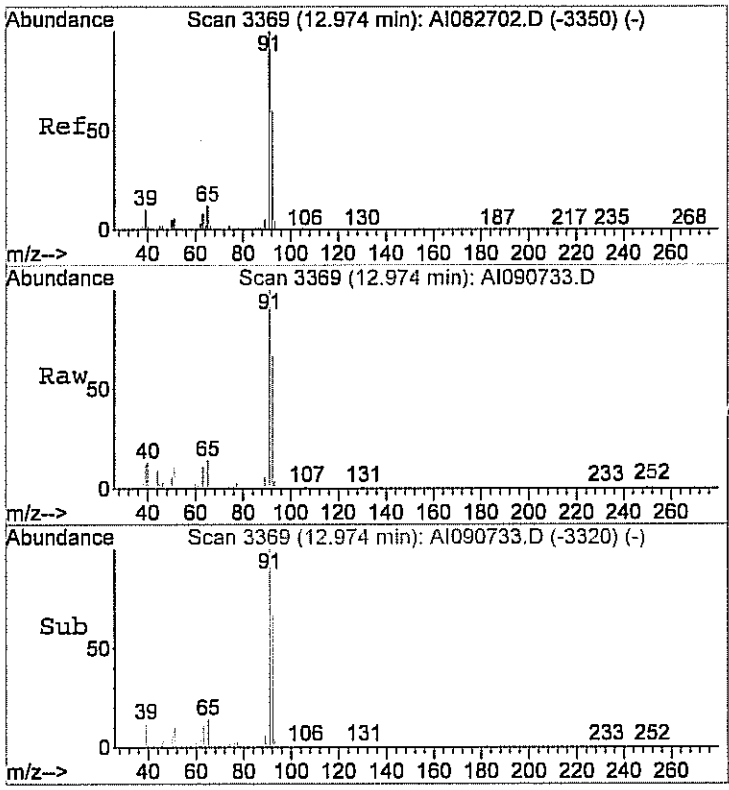


#41
Trichloroethene
Concen: 3.78 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion:130 Resp: 85953

Ion	Ratio	Lower	Upper
130	100		
132	96.6	79.0	119.0
95	96.2	76.8	116.8

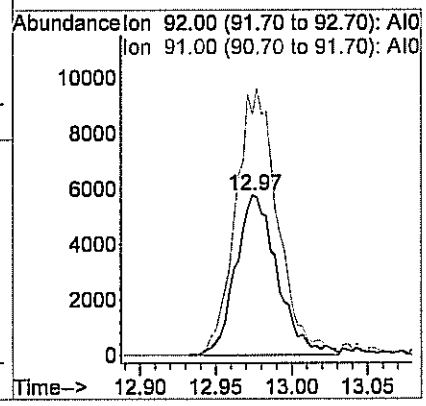


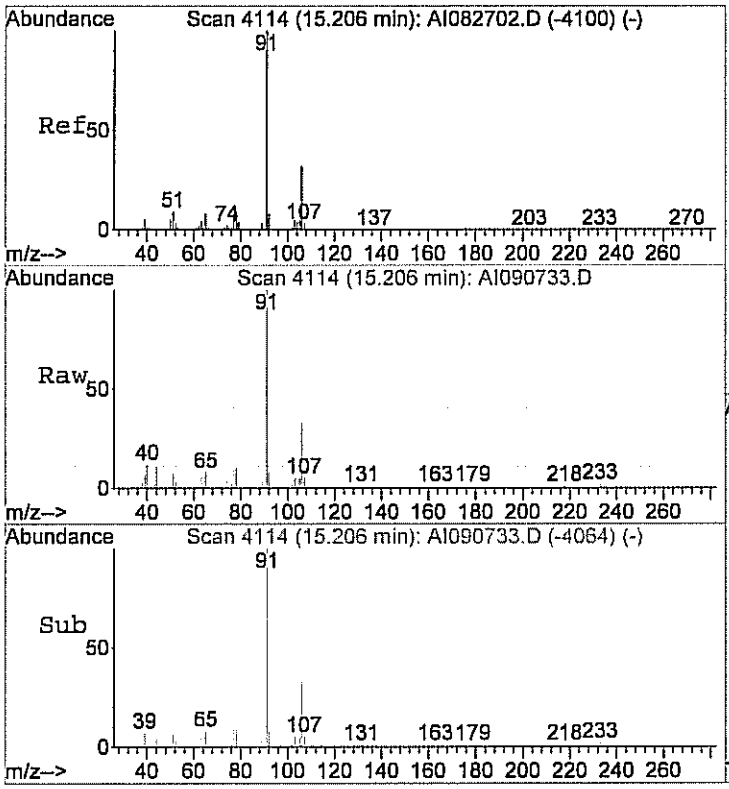


#48
Toluene
Concen: 0.43 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 92 Resp: 10954

Ion	Ratio	Lower	Upper
92	100		
91	168.9	159.8	199.8

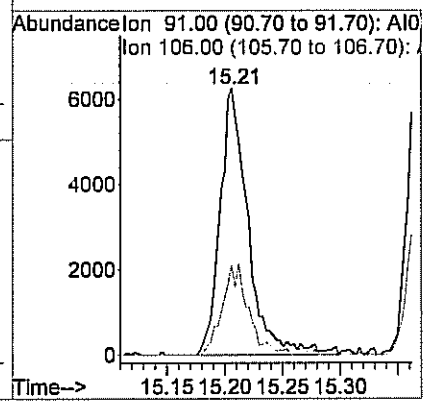


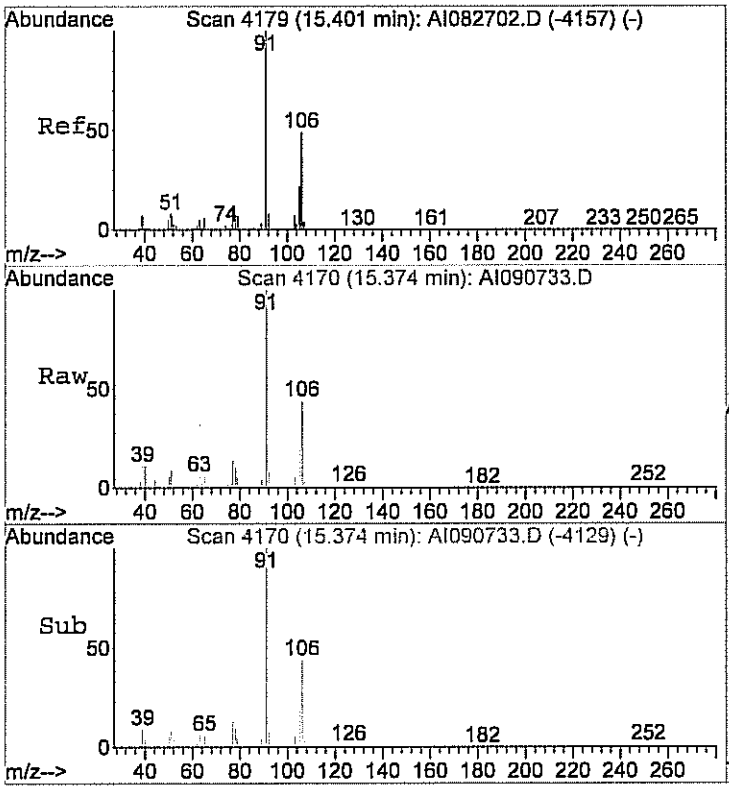


#55
Ethylbenzene
Concen: 0.20 ppb
RT: 15.21 min Scan# 4114
Delta R.T. -0.00 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 91 Resp: 10537

Ion	Ratio	Lower	Upper
91	100		
106	31.6	10.7	50.7

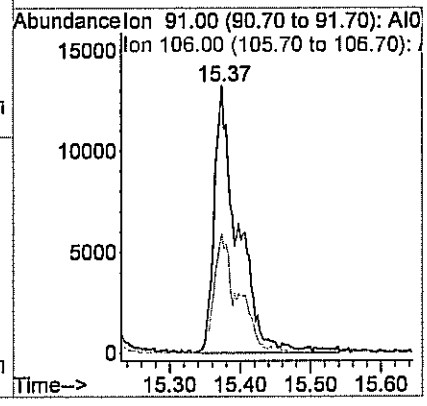


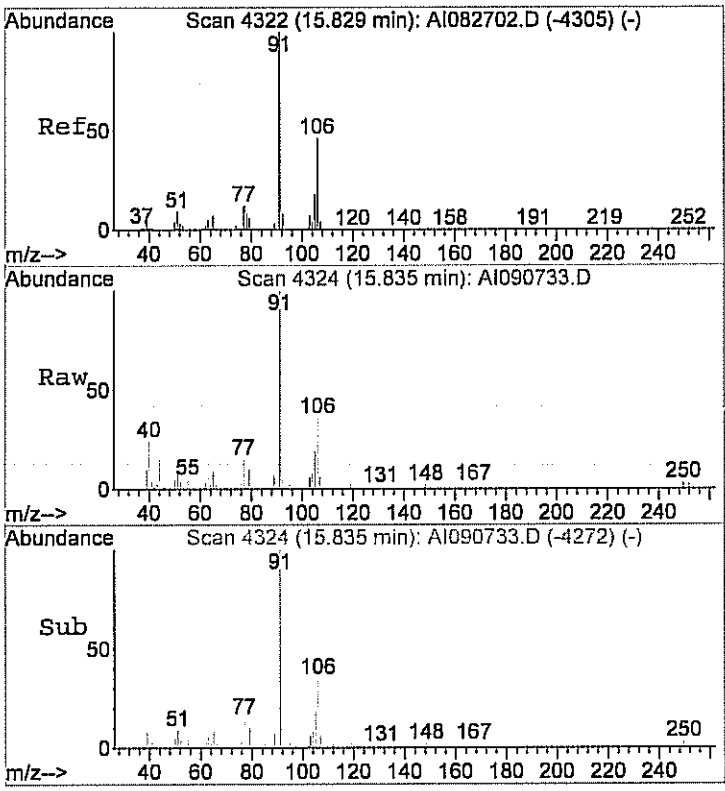


#56
m&p-xylene
Concen: 0.73 ppb
RT: 15.37 min Scan# 4170
Delta R.T. -0.03 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 91 Resp: 30869

Ion	Ratio	Lower	Upper
91	100		
106	45.9	27.5	67.5

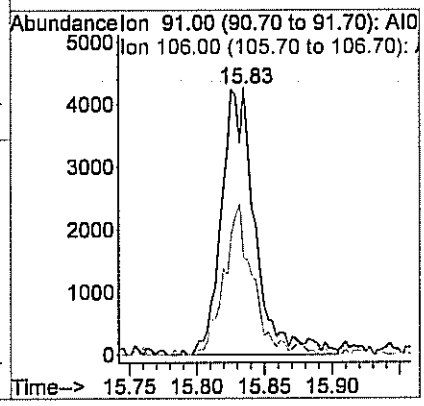




#59
o-xylene
Concen: 0.15 ppb
RT: 15.83 min Scan# 4324
Delta R.T. 0.01 min
Lab File: AI090733.D
Acq: 8 Sep 2011 4:54 am

Tgt Ion: 91 Resp: 7344

Ion	Ratio	Lower	Upper
91	100		
106	48.7	26.2	66.2



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090734.D Vial: 54
Acq On : 8 Sep 2011 5:27 am Operator: RJP
Sample : C1108077-008A 40x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 05:48:38 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	12915	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	41189	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	36502	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	20093	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.72	130	25161	1.17	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

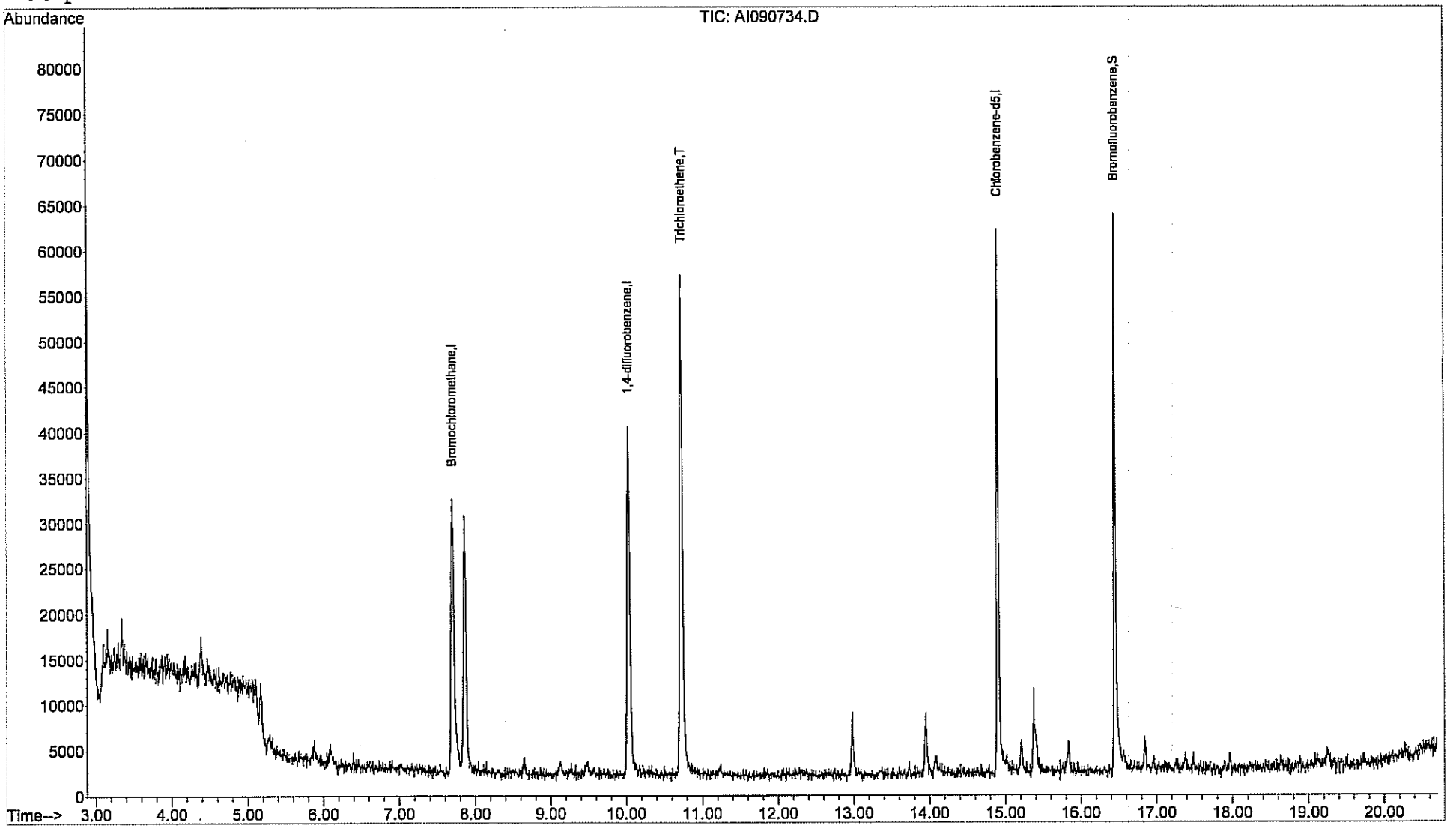
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090734.D
Acq On : 8 Sep 2011 5:27 am
Sample : C1108077-008A 40x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:01 2011

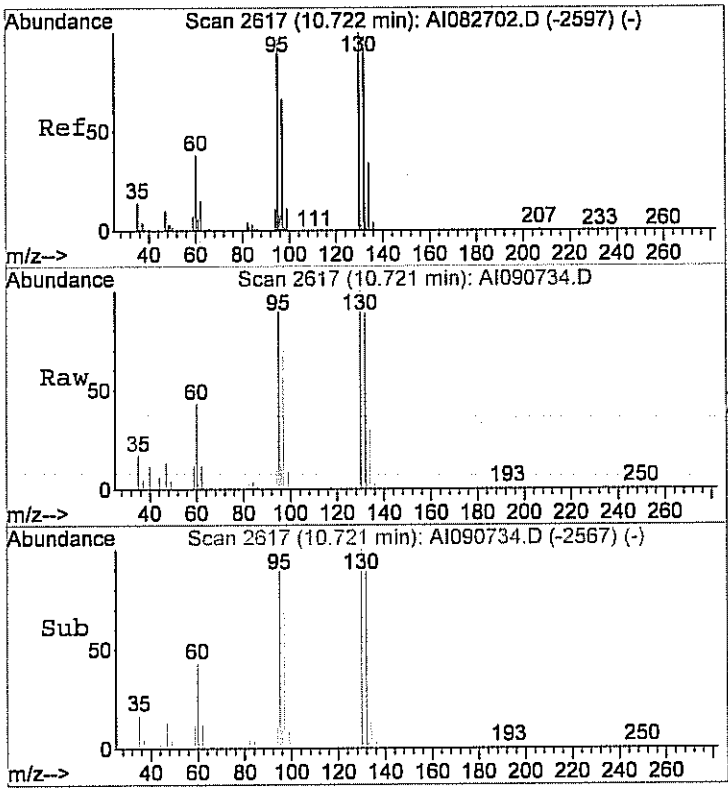
Vial: 54
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



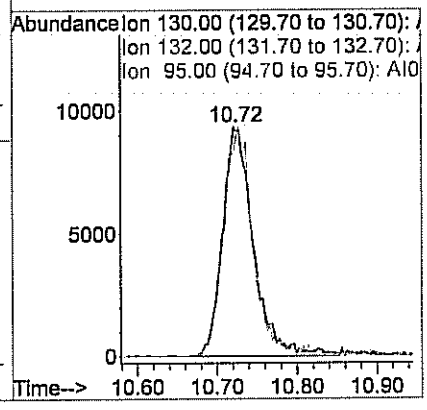
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 1.17 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090734.D
Acq: 8 Sep 2011 5:27 am

Tgt Ion:130 Resp: 25161

Ion	Ratio	Lower	Upper
130	100		
132	95.0	79.0	119.0
95	96.0	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	0.48	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.12	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Benzene	0.10	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 7:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:02:00 PM
Heptane	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	4.4	1.5		ppbV	10	9/8/2011 6:01:00 AM
m&p-Xylene	1.2	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	2.1	3.0	J	ppbV	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
o-Xylene	0.33	0.15		ppbV	1	9/7/2011 7:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Styrene	0.22	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	0.38	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Toluene	1.4	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Trichloroethene	9.3	1.5		ppbV	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Uuits	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	2.4	0.75		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.65	0.75	J	ug/m3	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	9/7/2011 7:02:00 PM
Acetone	24	7.2		ug/m3	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:02:00 PM
Benzene	0.32	0.49	J	ug/m3	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:02:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 7:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:02:00 PM
Heptane	1.2	0.62		ug/m3	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	9/8/2011 6:01:00 AM
m&p-Xylene	5.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	6.3	9.0	J	ug/m3	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 7:02:00 PM
o-Xylene	1.5	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:02:00 PM
Styrene	0.95	0.65		ug/m3	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	2.6	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:02:00 PM
Toluene	5.2	0.57		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Trichloroethene	51	8.2		ug/m3	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090715.D Vial: 35
Acq On : 7 Sep 2011 7:02 pm Operator: RJP
Sample : C1108077-009A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 19:23:10 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13616	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	49510	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	44476	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	27052	1.20	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32820	0.56	ppb		100
13) Freon 11	4.16	101	13201	0.29	ppb		99
14) Acetone	4.37	58	35414	7.37	ppb	#	53
15) Isopropyl alcohol	4.45	45	29077	2.96	ppb	#	100
17) Freon 113	4.94	101	3208	0.10	ppb		98
20) Carbon disulfide	5.28	76	11761	0.30	ppb		96
25) Methyl Ethyl Ketone	6.92	72	11392	2.56	ppb	#	100
36) Benzene	9.24	78	4268	0.10	ppb		91
40) Heptane	10.64	43	4697	0.30	ppb	#	40
41) Trichloroethene	10.72	130	209945	8.12	ppb		99
48) Toluene	12.97	92	39331	1.35	ppb		95
53) Tetrachloroethylene	14.00	164	11759	0.38	ppb		99
55) Ethylbenzene	15.20	91	21469	0.36	ppb		97
56) m&p-xylene	15.37	91	58529	1.20	ppb		100
57) Styrene	15.80	104	6424	0.22	ppb		82
59) o-xylene	15.83	91	18473	0.33	ppb		99
63) 4-ethyltoluene	17.01	105	5389	0.12	ppb		91
64) 1,3,5-trimethylbenzene	17.07	105	6671	0.13	ppb		92
65) 1,2,4-trimethylbenzene	17.48	105	19907	0.48	ppb		96

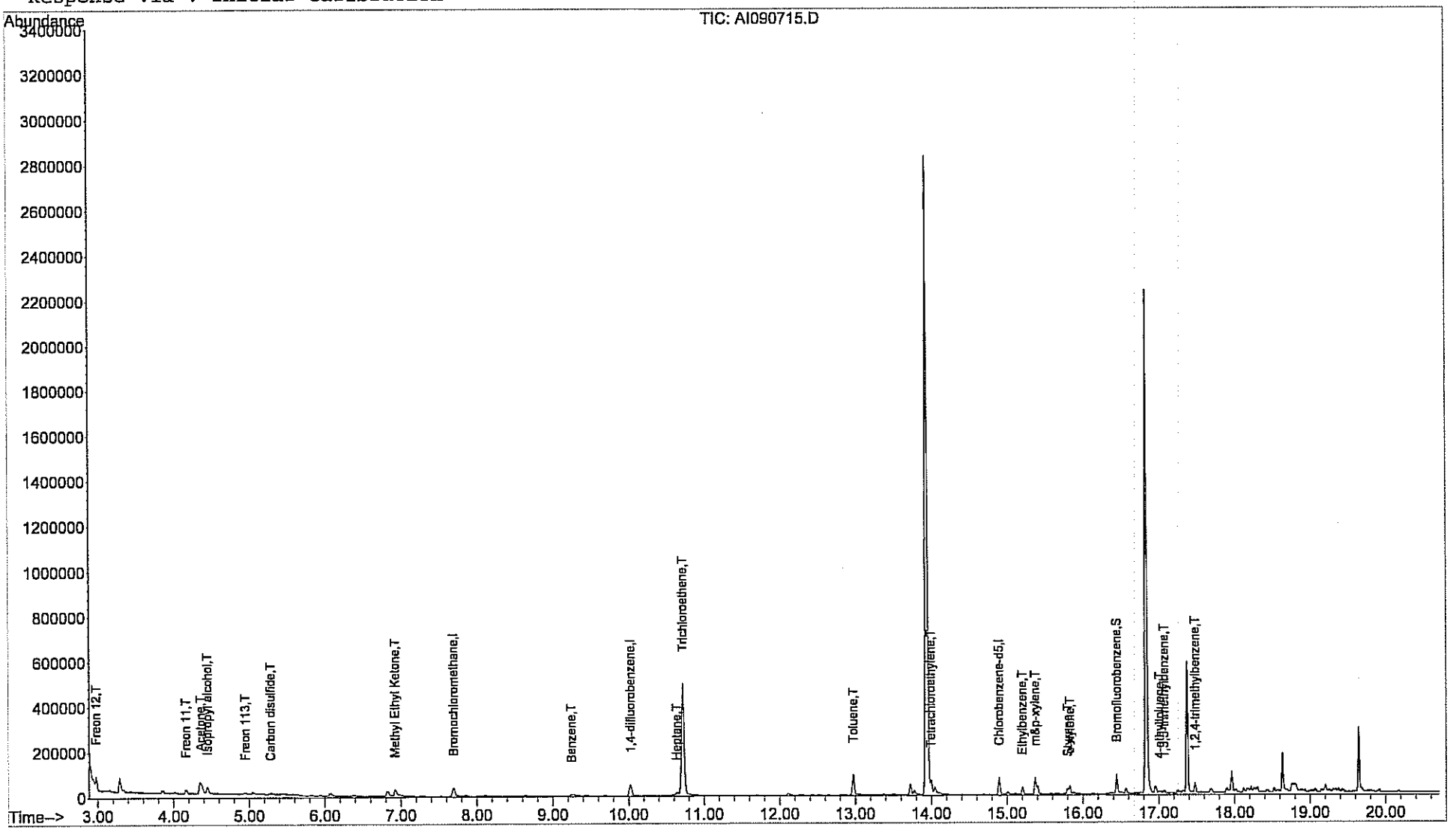
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

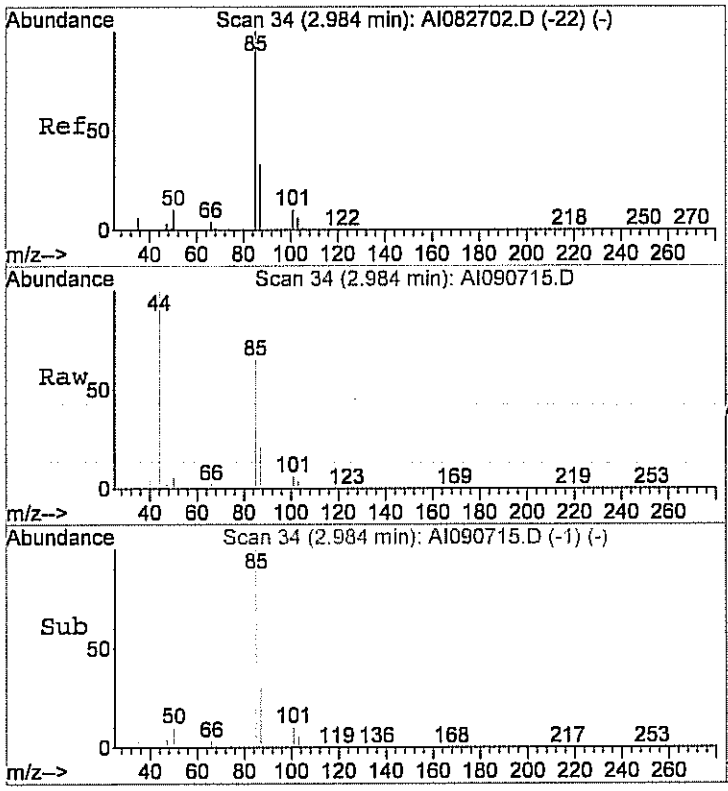
Data File : C:\HPCHEM\1\DATA\AI090715.D
Acq On : 7 Sep 2011 7:02 pm
Sample : C1108077-009A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:23 2011

Vial: 35
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



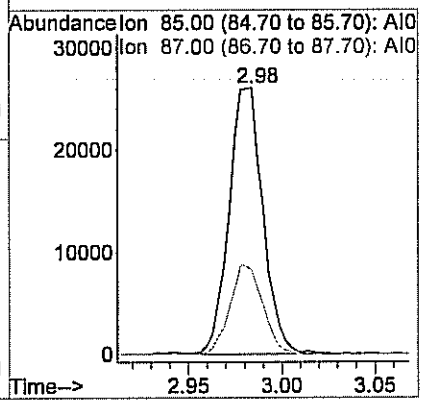
Centek Laboratories, LLC

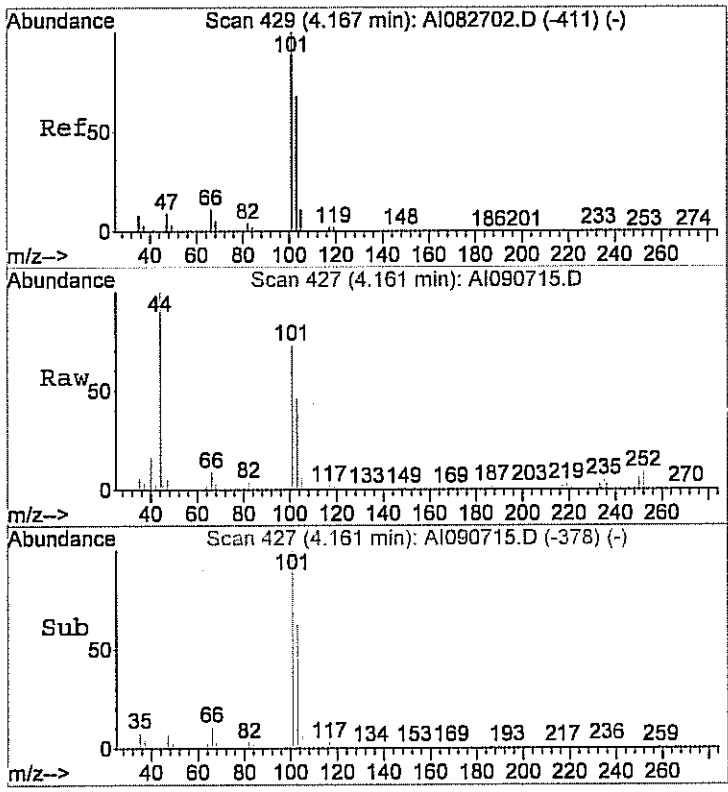


#3
Freon 12
Concen: 0.56 ppb
RT: 2.98 min Scan# 34
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 85 Resp: 32820

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.2	52.2

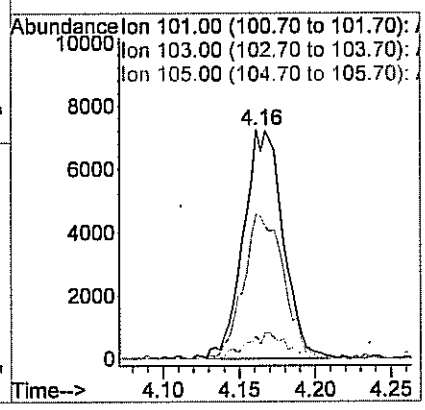


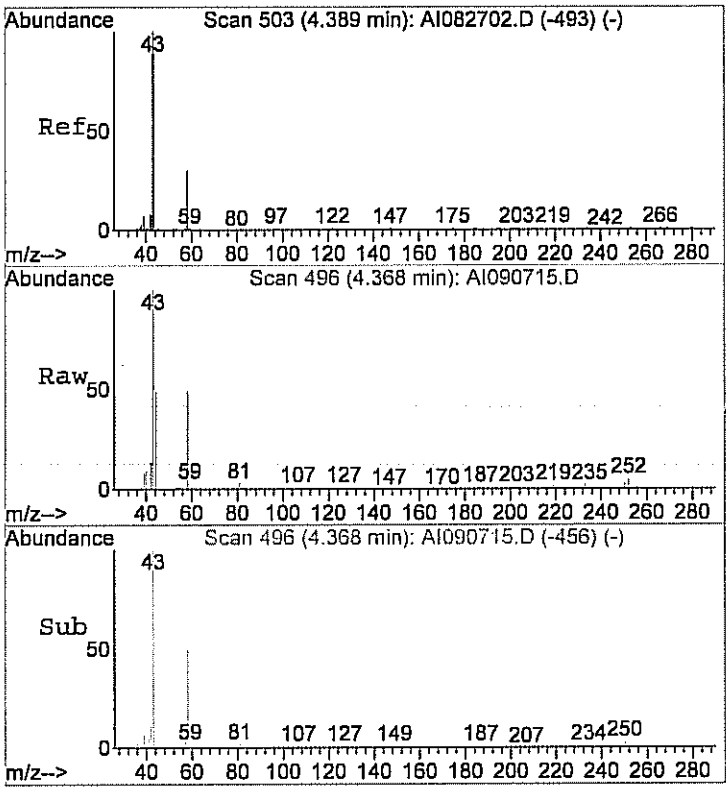


#13
Freon 11
Concen: 0.29 ppb
RT: 4.16 min Scan# 427
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:101 Resp: 13201

Ion	Ratio	Lower	Upper
101	100		
103	63.7	44.9	84.9
105	11.1	0.0	30.9

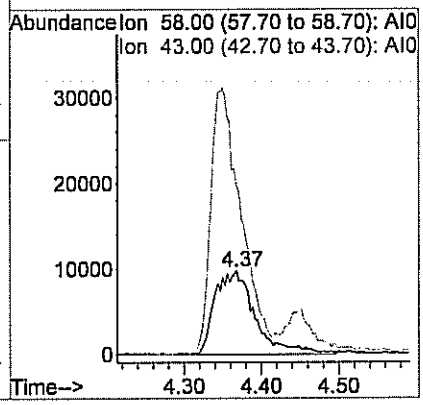


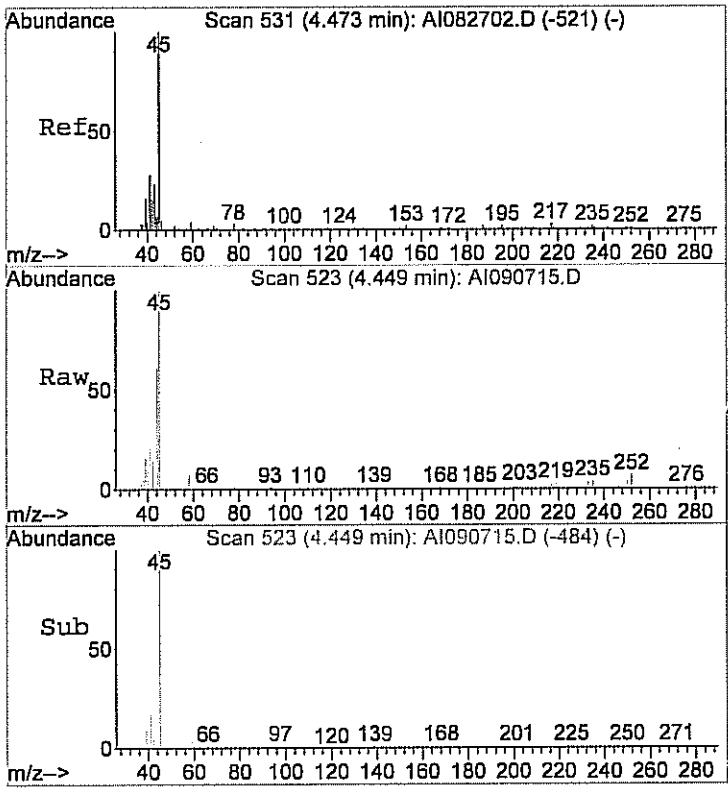


#14
Acetone
Concen: 7.37 ppb
RT: 4.37 min Scan# 496
Delta R.T. -0.03 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 58 Resp: 35414

Ion	Ratio	Lower	Upper
58	100		
43	281.8	360.8	420.8#

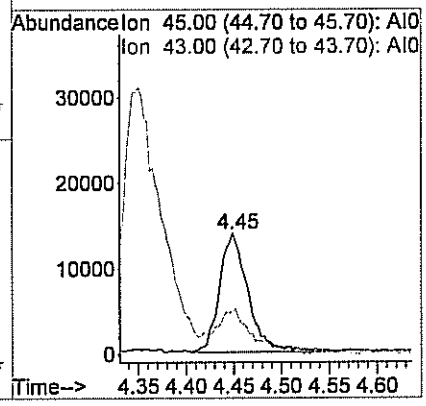


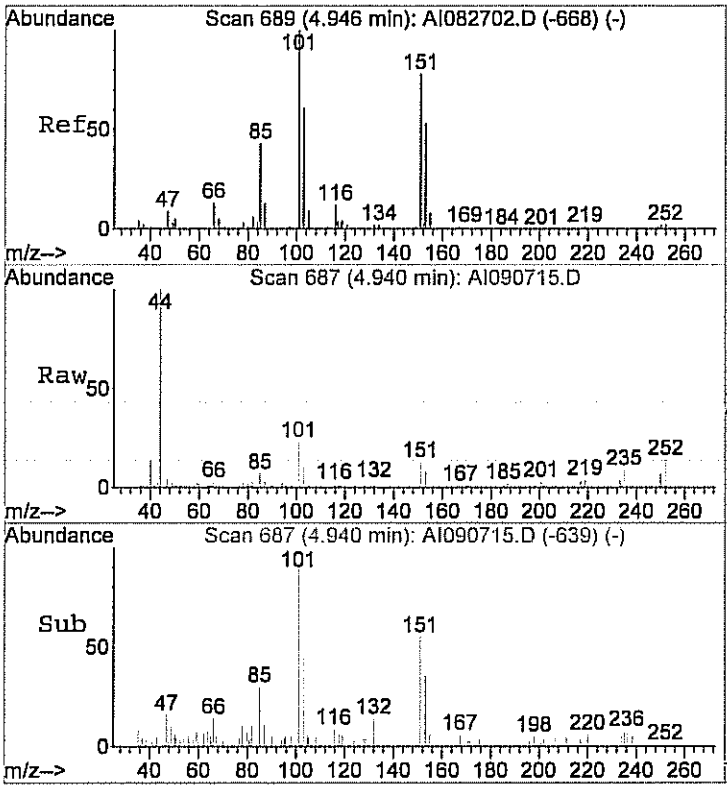


#15
Isopropyl alcohol
Concen: 2.96 ppb
RT: 4.45 min Scan# 523
Delta R.T. -0.03 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 45 Resp: 29077

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

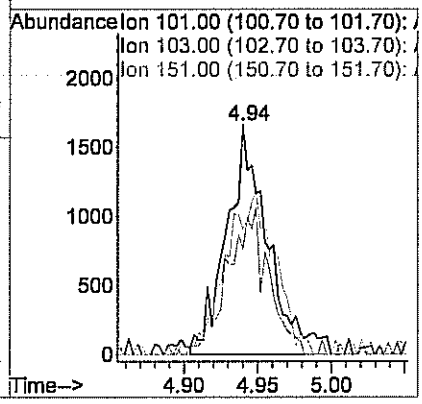


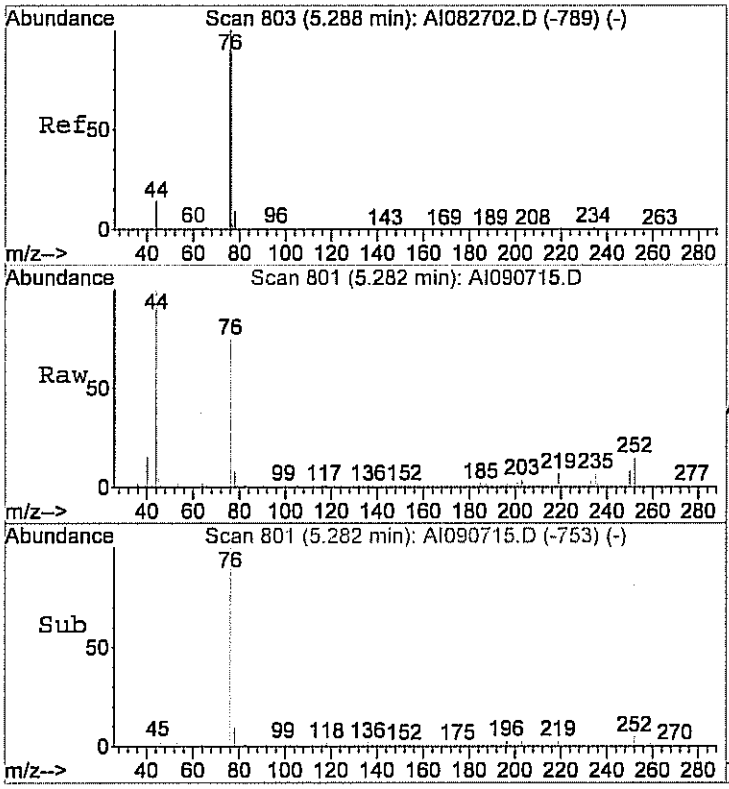


#17
Freon 113
Concen: 0.10 ppb
RT: 4.94 min Scan# 687
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:101 Resp: 3208

Ion	Ratio	Lower	Upper
101	100		
103	63.0	44.3	84.3
151	83.8	61.0	101.0

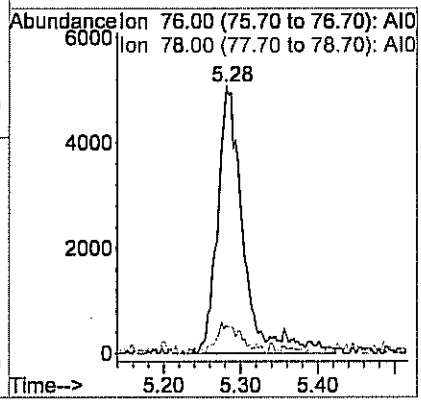


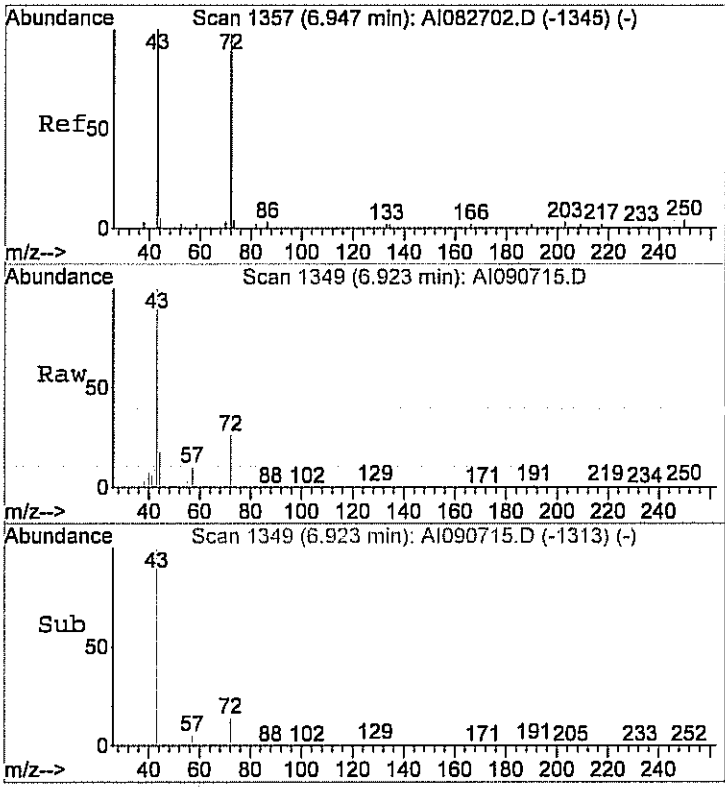


#20
Carbon disulfide
Concen: 0.30 ppb
RT: 5.28 min Scan# 801
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 76 Resp: 11761

Ion	Ratio	Lower	Upper
76	100		
78	10.9	0.0	29.6

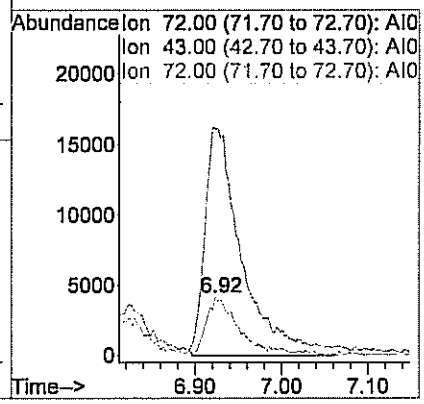


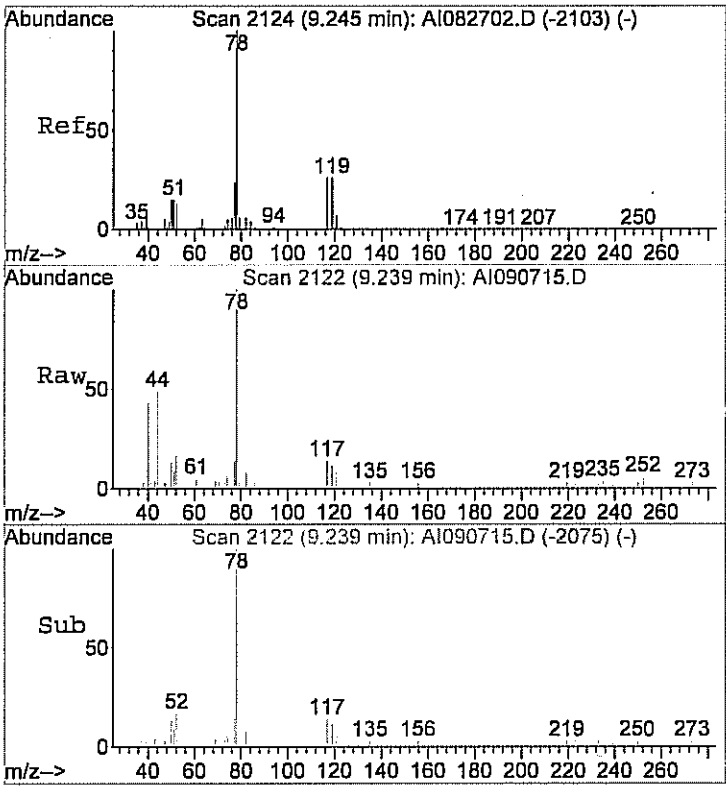


#25
Methyl Ethyl Ketone
Concen: 2.56 ppb
RT: 6.92 min Scan# 1349
Delta R.T. -0.04 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 72 Resp: 11392

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

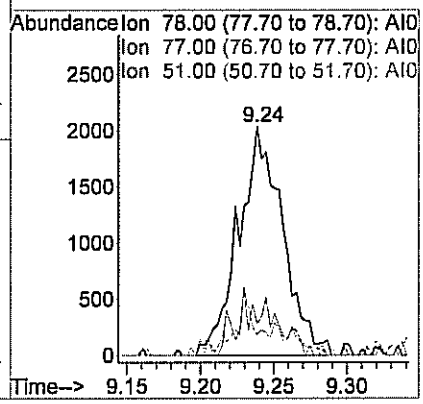


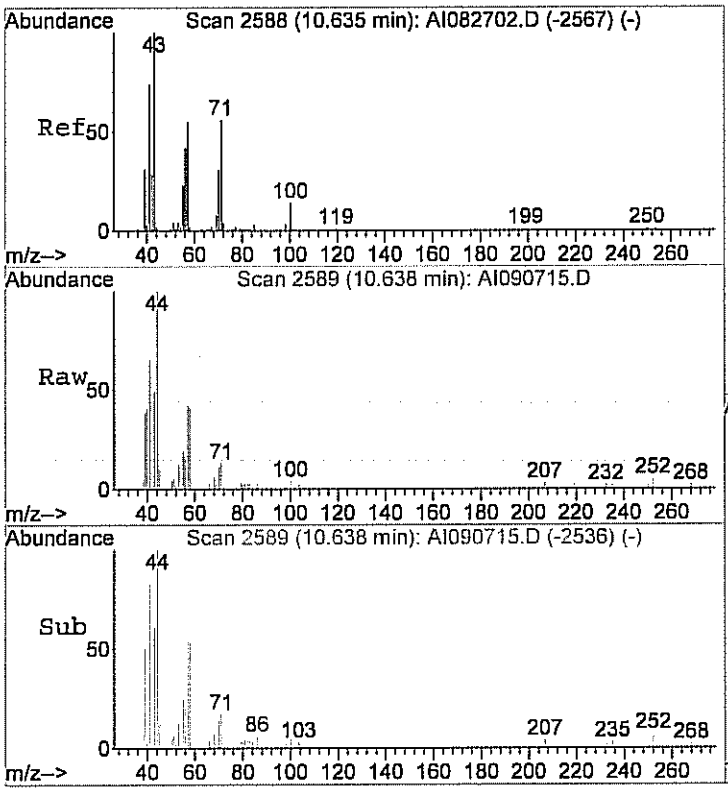


#36
Benzene
Concen: 0.10 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 78 Resp: 4268

Ion	Ratio	Lower	Upper
78	100		
77	19.3	5.2	45.2
51	20.2	0.0	37.6

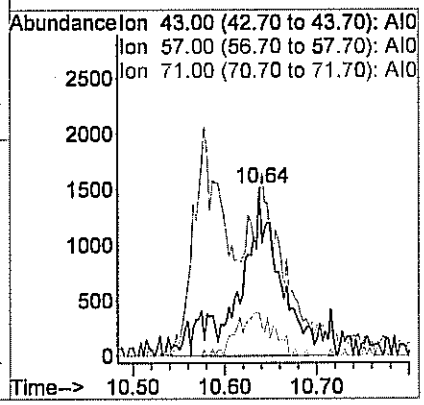


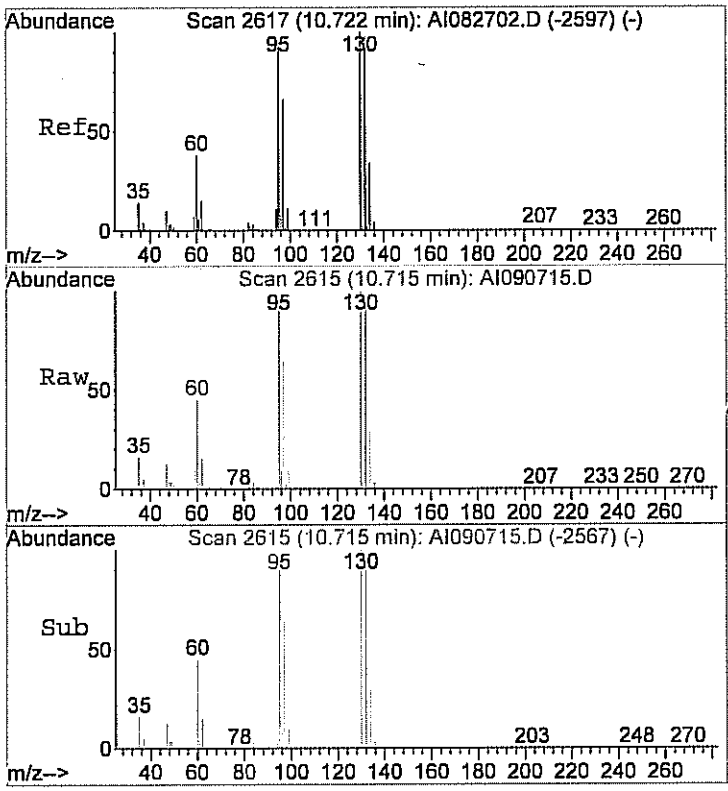


#40
Heptane
Concen: 0.30 ppb
RT: 10.64 min Scan# 2589
Delta R.T. 0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 43 Resp: 4697

Ion	Ratio	Lower	Upper
43	100		
57	0.0	32.1	72.1#
71	21.7	35.5	75.5#

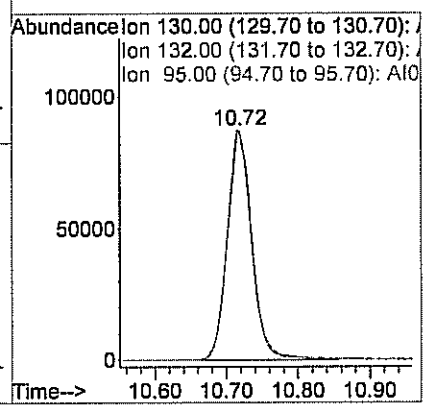


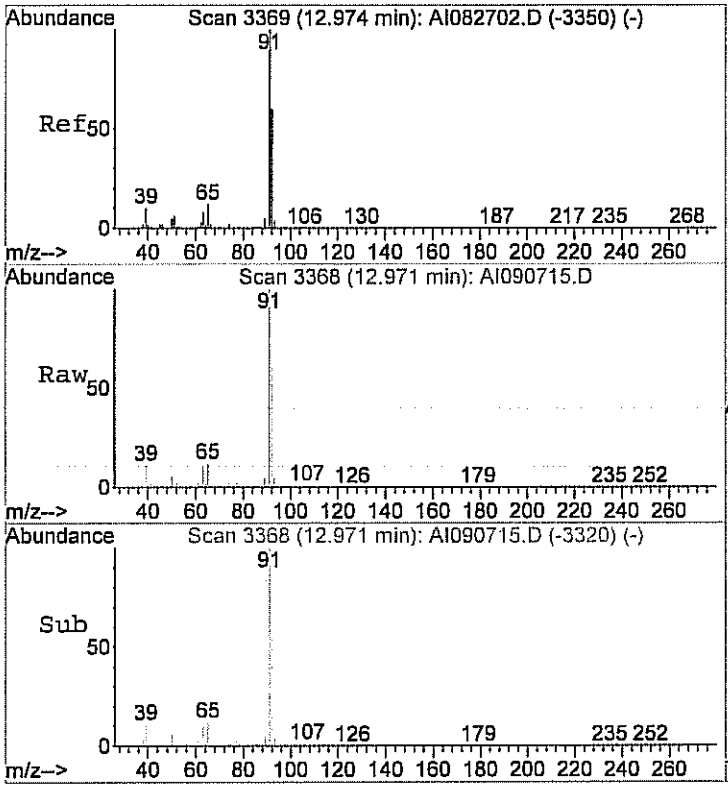


#41
Trichloroethene
Concen: 8.12 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:130 Resp: 209945

Ion	Ratio	Lower	Upper
130	100		
132	97.0	79.0	119.0
95	97.7	76.8	116.8

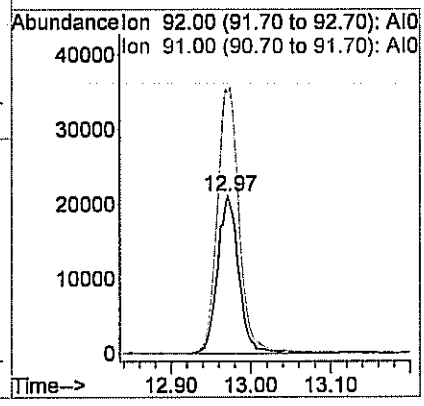


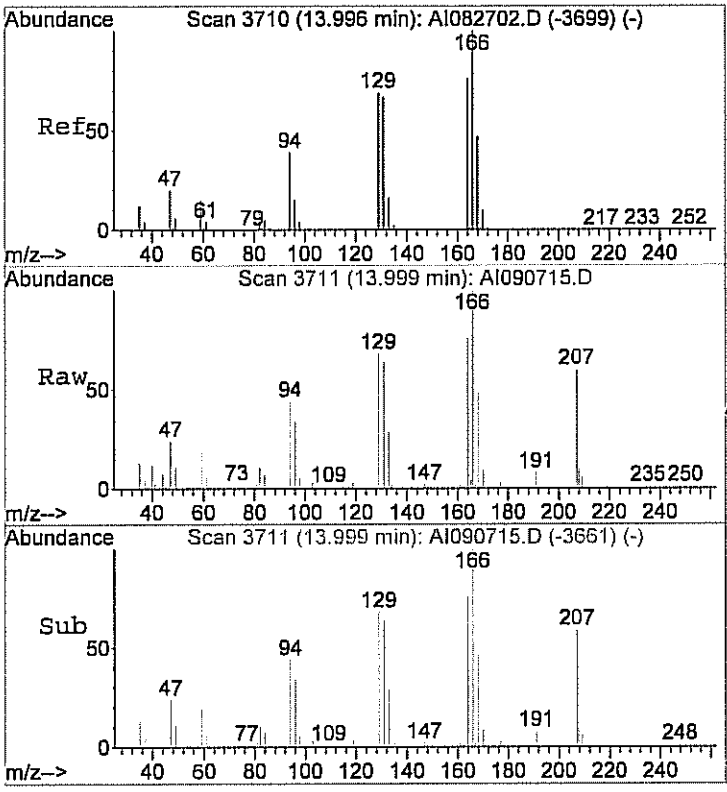


#48
Toluene
Concen: 1.35 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 92 Resp: 39331

Ion	Ratio	Lower	Upper
92	100		
91	173.2	159.8	199.8

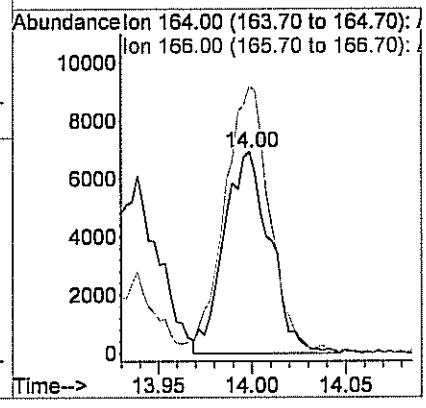


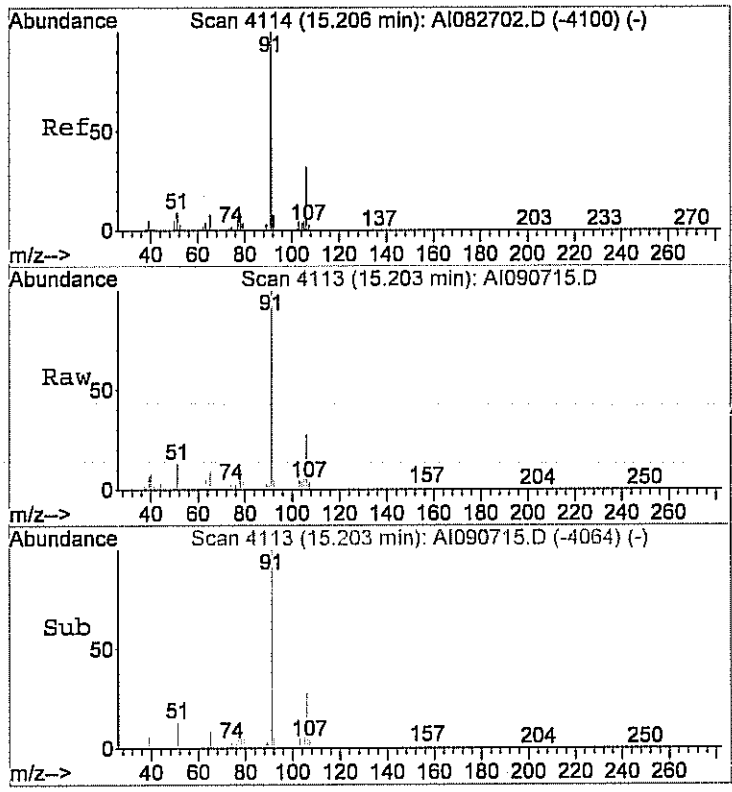


#53
Tetrachloroethylene
Concen: 0.38 ppb
RT: 14.00 min Scan# 3711
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:164 Resp: 11759

Ion	Ratio	Lower	Upper
164	100		
166	130.6	109.4	149.4

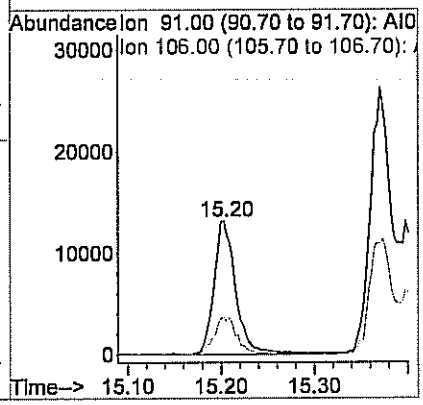


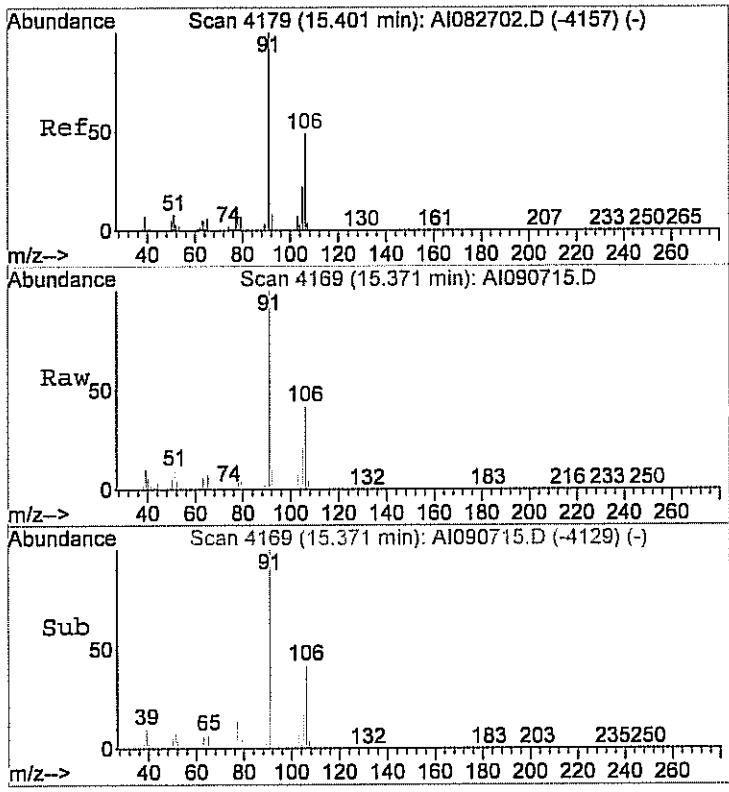


#55
Ethylbenzene
Concen: 0.36 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 91 Resp: 21469

Ion	Ratio	Lower	Upper
91	100		
106	28.9	10.7	50.7

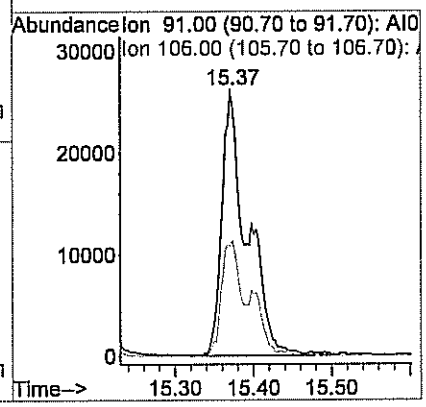


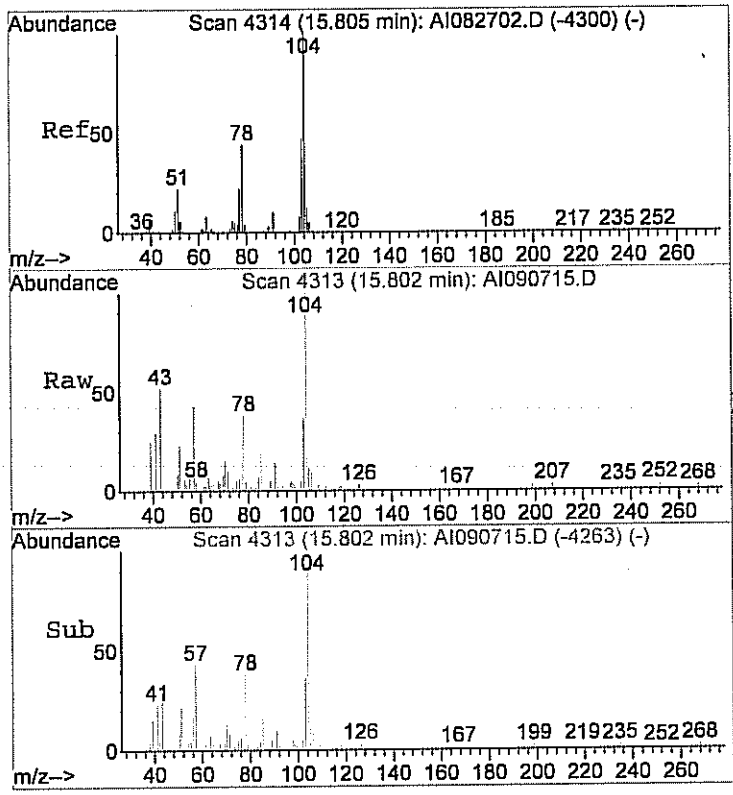


#56
m&p-xylene
Concen: 1.20 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 91 Resp: 58529

Ion	Ratio	Lower	Upper
91	100		
106	47.7	27.5	67.5

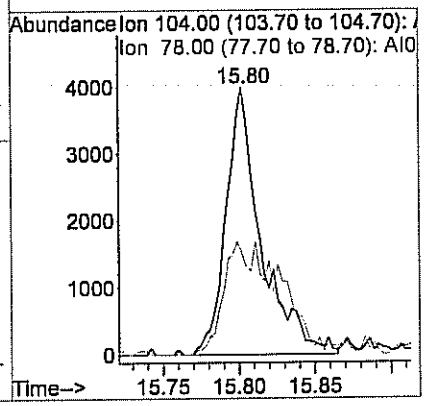


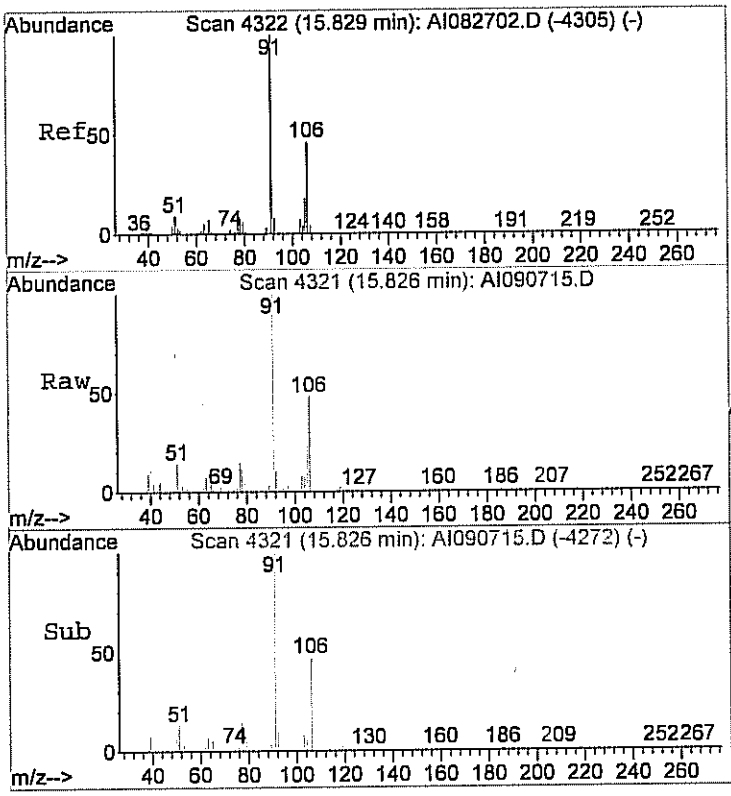


#57
Styrene
Concen: 0.22 ppb
RT: 15.80 min Scan# 4313
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:104 Resp: 6424

Ion	Ratio	Lower	Upper
104	100		
78	69.8	36.7	76.7

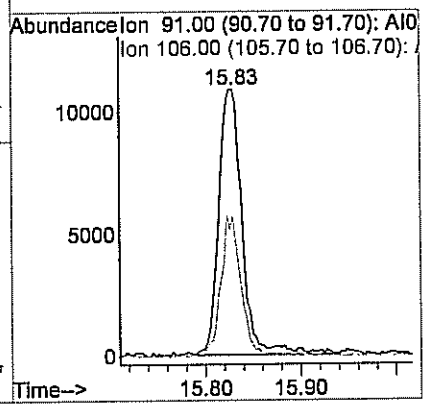


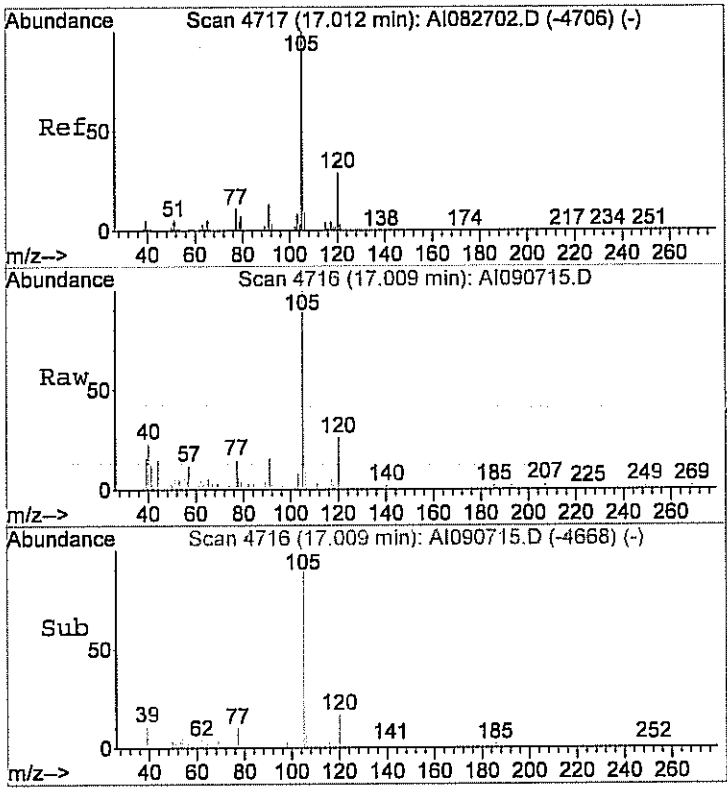


#59
o-xylene
Concen: 0.33 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion: 91 Resp: 18473

Ion	Ratio	Lower	Upper
91	100		
106	45.2	26.2	66.2

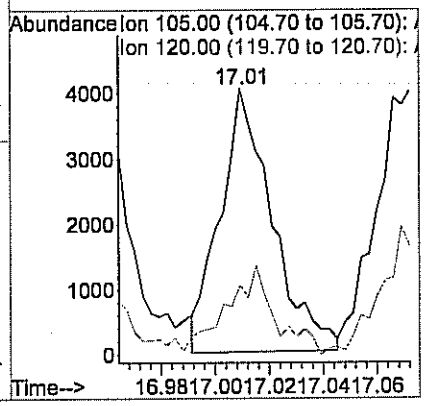


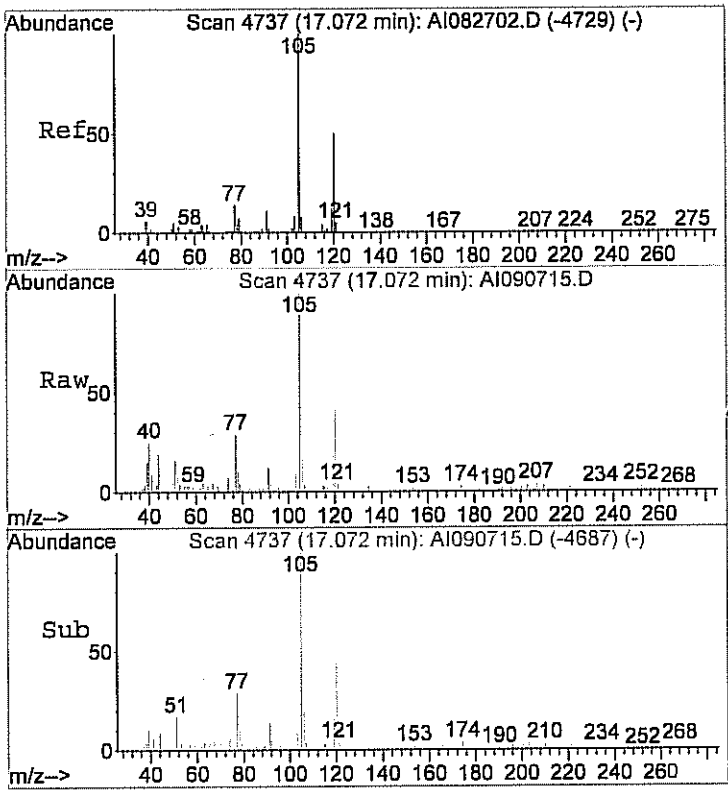


#63
4-ethyltoluene
Concen: 0.12 ppb
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:105 Resp: 5389

Ion	Ratio	Lower	Upper
105	100		
120	32.6	8.1	48.1

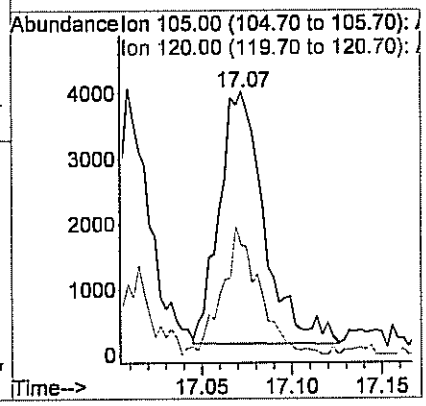


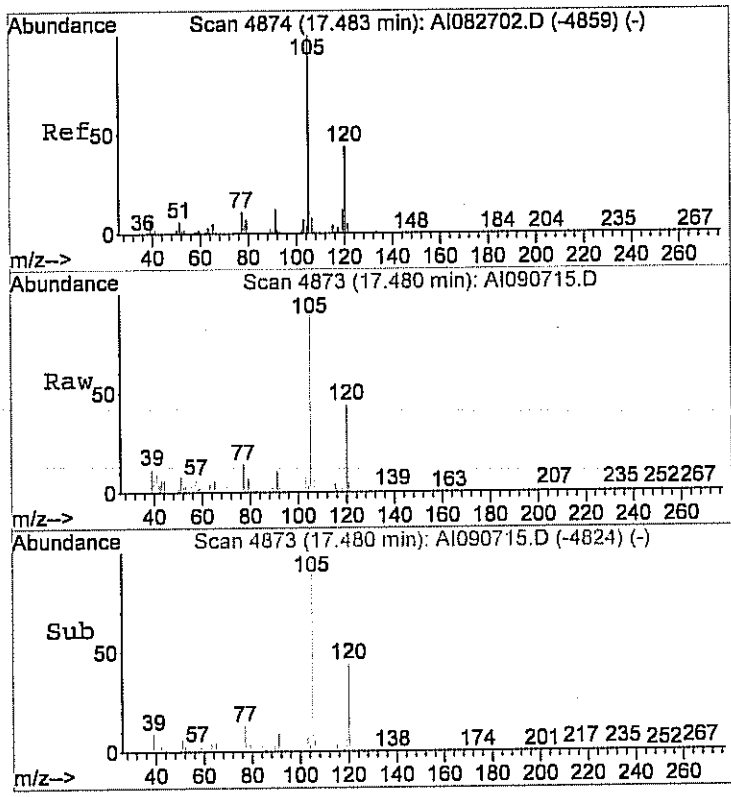


#64
1,3,5-trimethylbenzene
Concen: 0.13 ppb
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:105 Resp: 6671

Ion	Ratio	Lower	Upper
105	100		
120	41.1	26.2	66.2

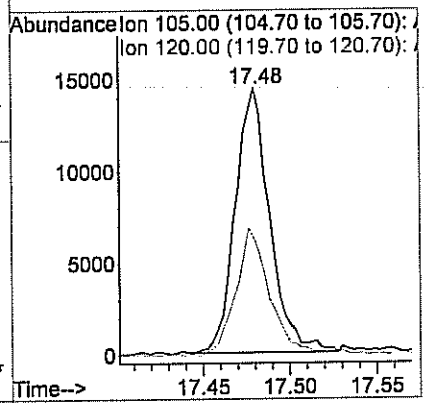




#65
1,2,4-trimethylbenzene
Concen: 0.48 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090715.D
Acq: 7 Sep 2011 7:02 pm

Tgt Ion:105 Resp: 19907

Ion	Ratio	Lower	Upper
105	100		
120	47.6	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090735.D Vial: 55
Acq On : 8 Sep 2011 6:01 am Operator: RJP
Sample : C1108077-009A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 06:21:57 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

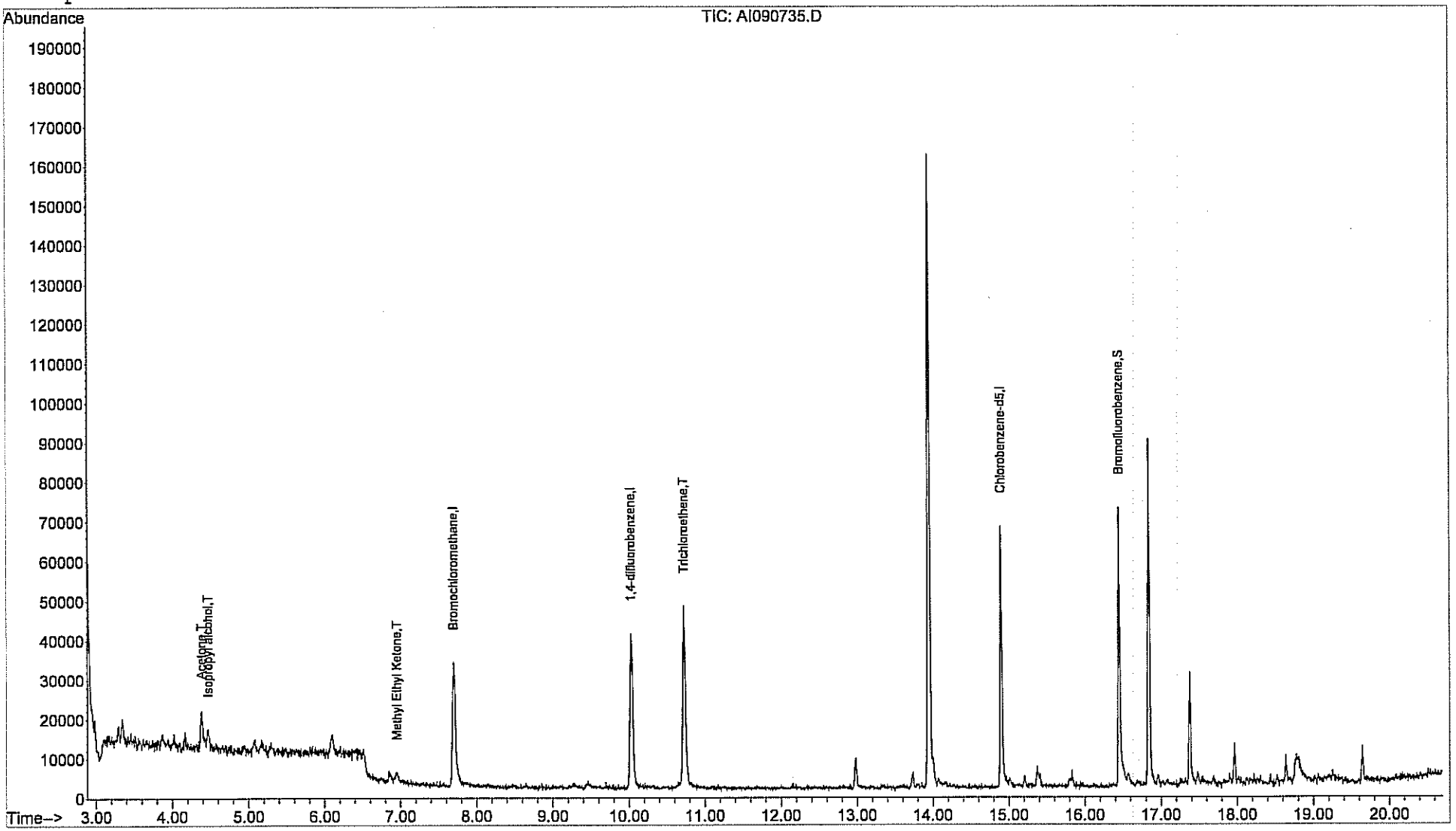
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12911	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	42798	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	39053	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	22247	1.13	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	4603	1.01	ppb	# 60
15) Isopropyl alcohol	4.47	45	4067	0.44	ppb	# 100
25) Methyl Ethyl Ketone	6.96	72	903	0.21	ppb	# 100
41) Trichloroethene	10.73	130	20832	0.93	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

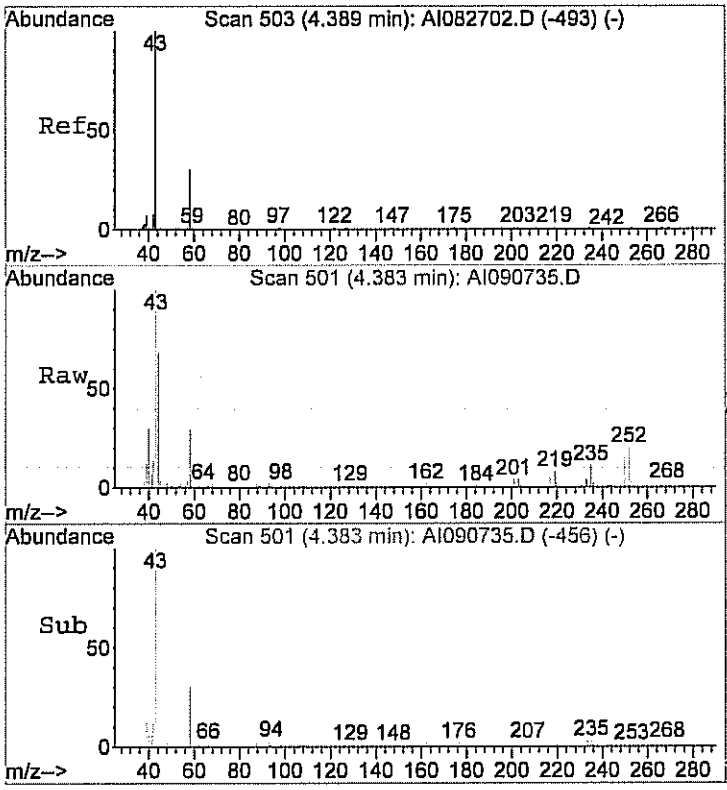
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090735.D Vial: 55
Acq On : 8 Sep 2011 6:01 am Operator: RJP
Sample : C1108077-009A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:02 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



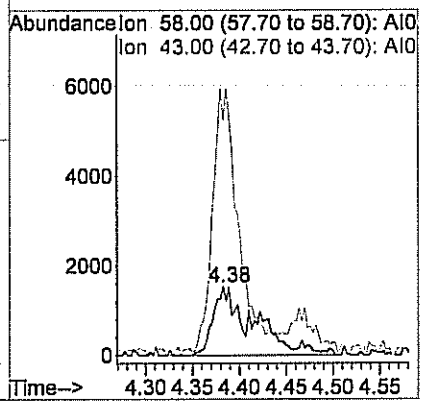
Centek Laboratories, LLC

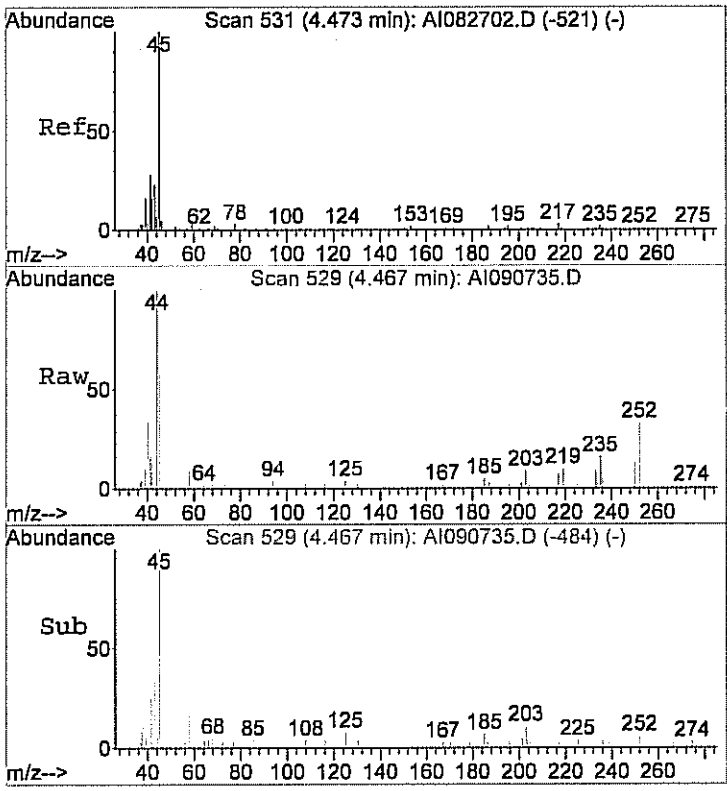


#14
Acetone
Concen: 1.01 ppb
RT: 4.38 min Scan# 501
Delta R.T. -0.01 min
Lab File: AI090735.D
Acq: 8 Sep 2011 6:01 am

Tgt Ion: 58 Resp: 4603

Ion	Ratio	Lower	Upper
58	100		
43	296.5	360.8	420.8#

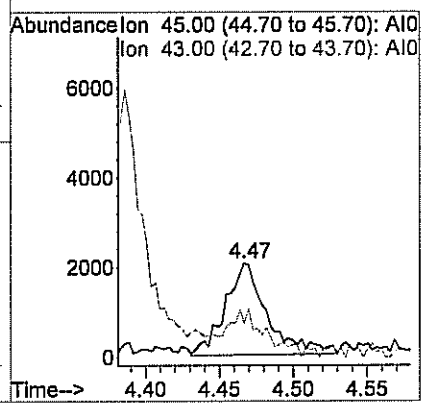


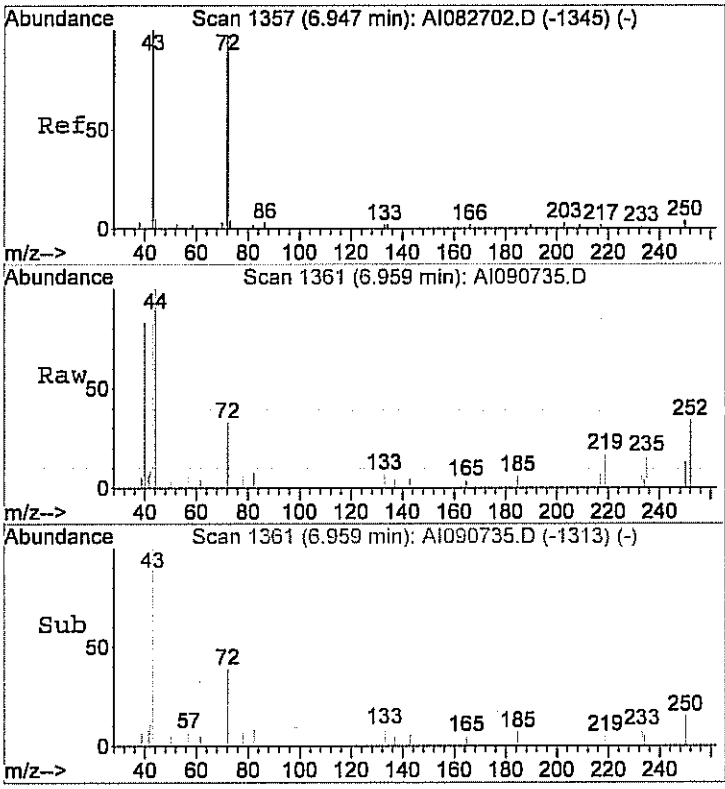


#15
Isopropyl alcohol
Concen: 0.44 ppb
RT: 4.47 min Scan# 529
Delta R.T. -0.01 min
Lab File: AI090735.D
Acq: 8 Sep 2011 6:01 am

Tgt Ion: 45 Resp: 4067

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

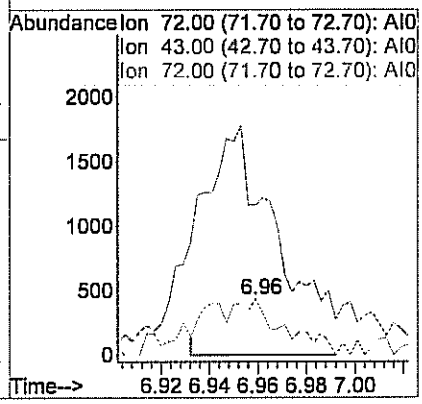


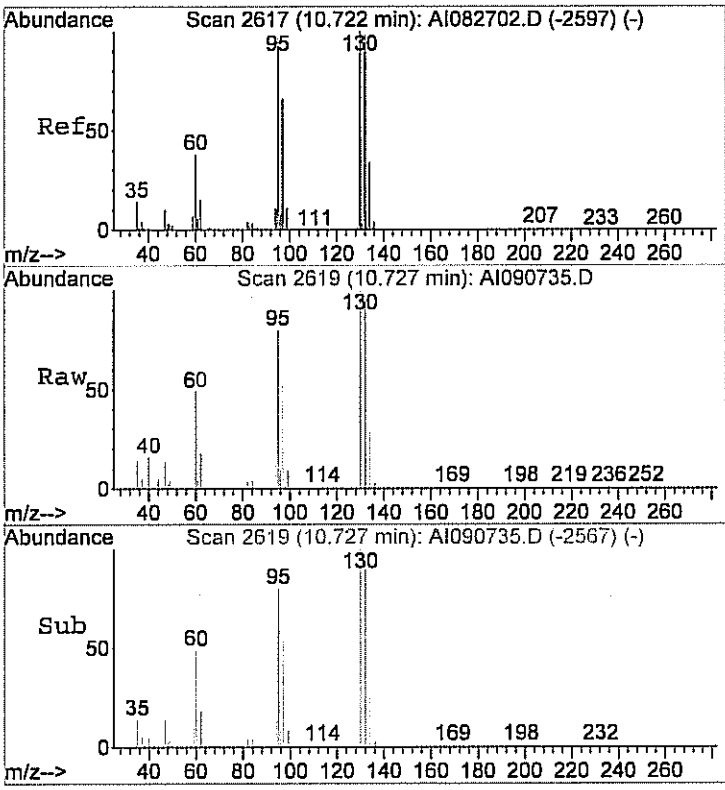


#25
Methyl Ethyl Ketone
Concen: 0.21 ppb
RT: 6.96 min Scan# 1361
Delta R.T. -0.01 min
Lab File: AI090735.D
Acq: 8 Sep 2011 6:01 am

Tgt Ion: 72 Resp: 903

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

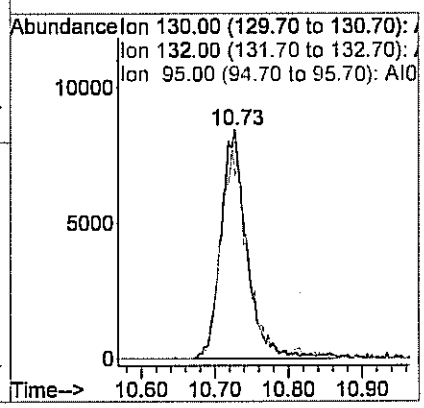




#41
Trichloroethene
Concen: 0.93 ppb
RT: 10.73 min Scan# 2619
Delta R.T. 0.01 min
Lab File: AI090735.D
Acq: 8 Sep 2011 6:01 am

Tgt Ion:130 Resp: 20832

Ion	Ratio	Lower	Upper
130	100		
132	94.7	79.0	119.0
95	94.7	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Acetone	15	3.0		ppbV	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	9.6	1.5		ppbV	10	9/8/2011 6:34:00 AM
m&p-Xylene	0.23	0.30	J	ppbV	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Methylene chloride	0.24	0.15		ppbV	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Toluene	1.1	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Trichloroethene	0.20	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Acetone	35	7.2		ug/m3	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:35:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	7851A05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	24	3.7		ug/m3	10	9/8/2011 6:34:00 AM
m&p-Xylene	1.0	1.3	J	ug/m3	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	3.2	0.90		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:35:00 PM
Methylene chloride	0.85	0.53		ug/m3	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:35:00 PM
Toluene	4.2	0.57		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Trichloroethene	1.1	0.82		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090716.D Vial: 36
Acq On : 7 Sep 2011 7:35 pm Operator: RJP
Sample : C1108077-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 19:55:49 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

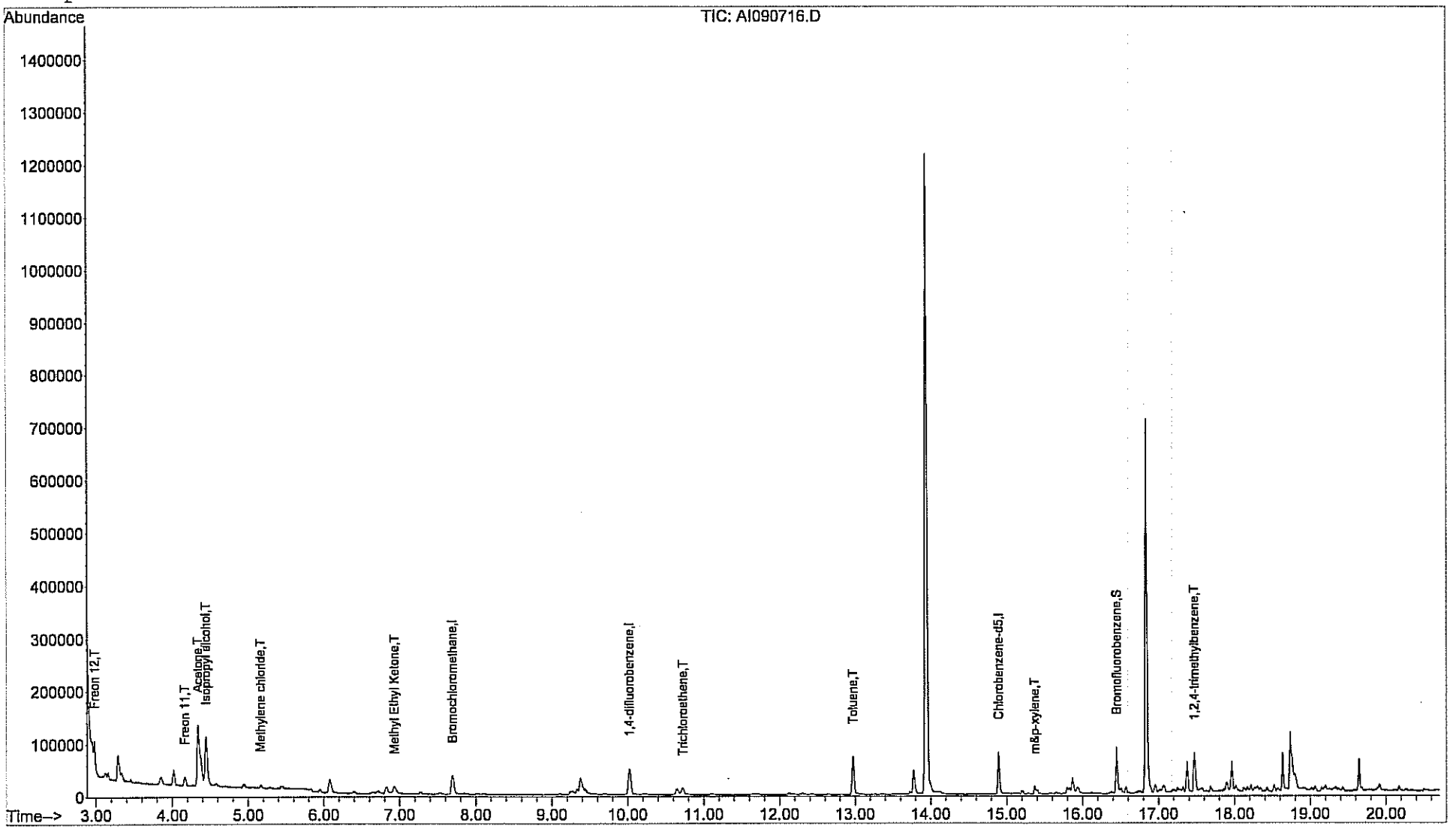
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13639	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	51142	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	45956	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	26893	1.16	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 116.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32363	0.56	ppb		98
13) Freon 11	4.17	101	13035	0.29	ppb		98
14) Acetone	4.34	58	62448	12.97	ppb		94
15) Isopropyl alcohol	4.44	45	103287	10.50	ppb	#	100
18) Methylene chloride	5.17	84	2970	0.24	ppb		97
25) Methyl Ethyl Ketone	6.93	72	4803	1.08	ppb		100
41) Trichloroethene	10.73	130	5421	0.20	ppb		99
48) Toluene	12.97	92	32989	1.10	ppb		96
56) m&p-xylene	15.37	91	11450	0.23	ppb		95
65) 1,2,4-trimethylbenzene	17.48	105	14516	0.34	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

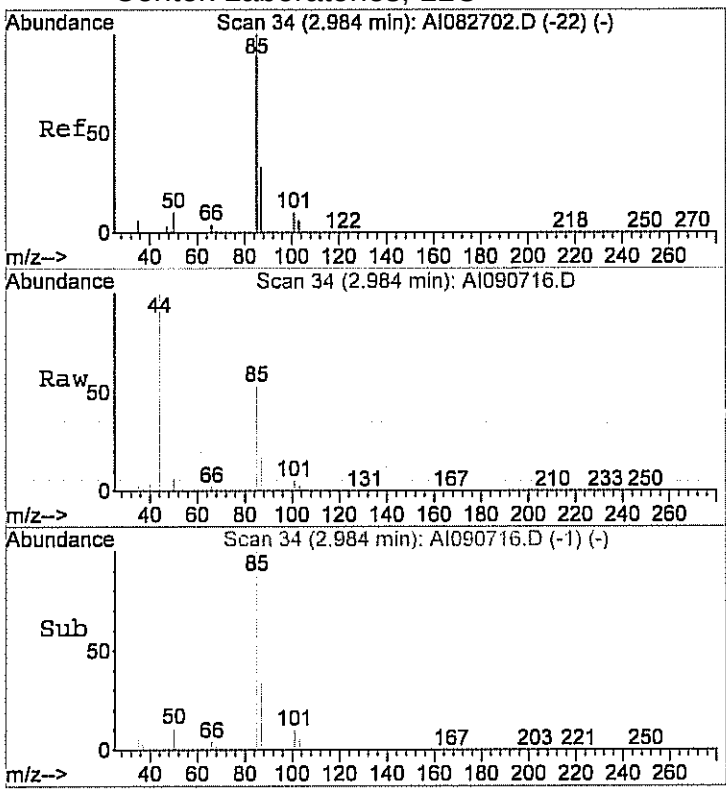
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090716.D Vial: 36
Acq On : 7 Sep 2011 7:35 pm Operator: RJP
Sample : C1108077-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:25 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



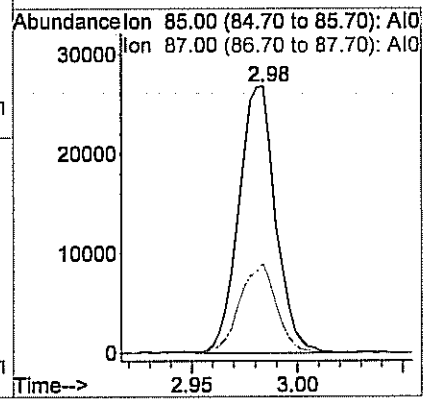
Centek Laboratories, LLC

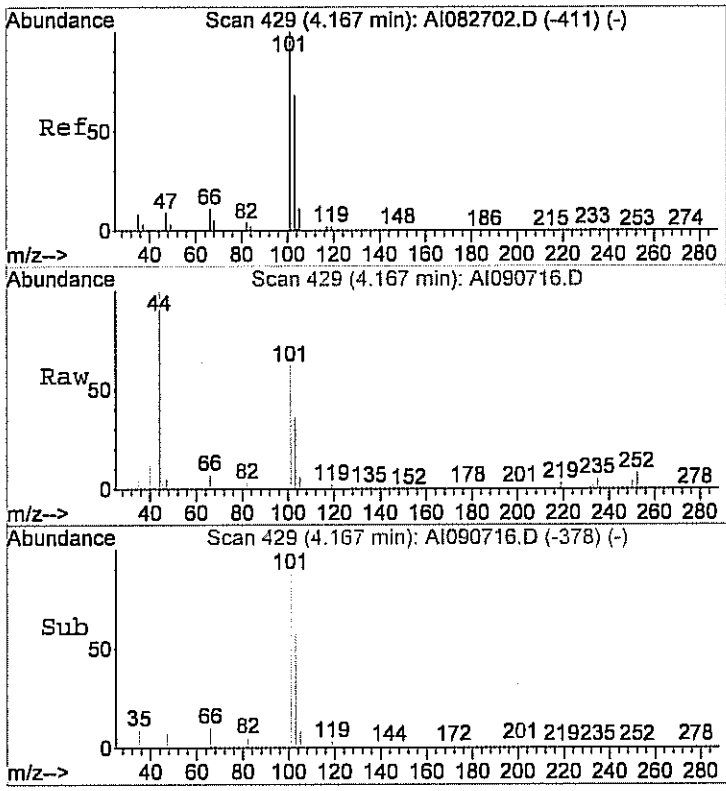


#3
Freon 12
Concen: 0.56 ppb
RT: 2.98 min Scan# 34
Delta R.T. -0.00 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 85 Resp: 32363

Ion	Ratio	Lower	Upper
85	100		
87	33.3	12.2	52.2

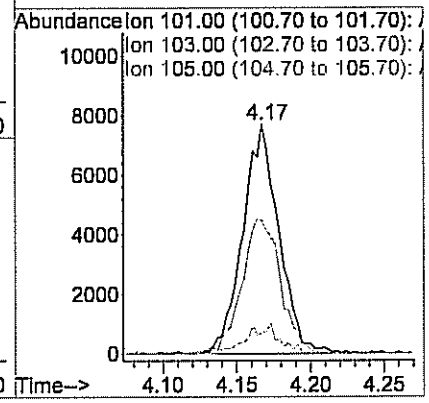


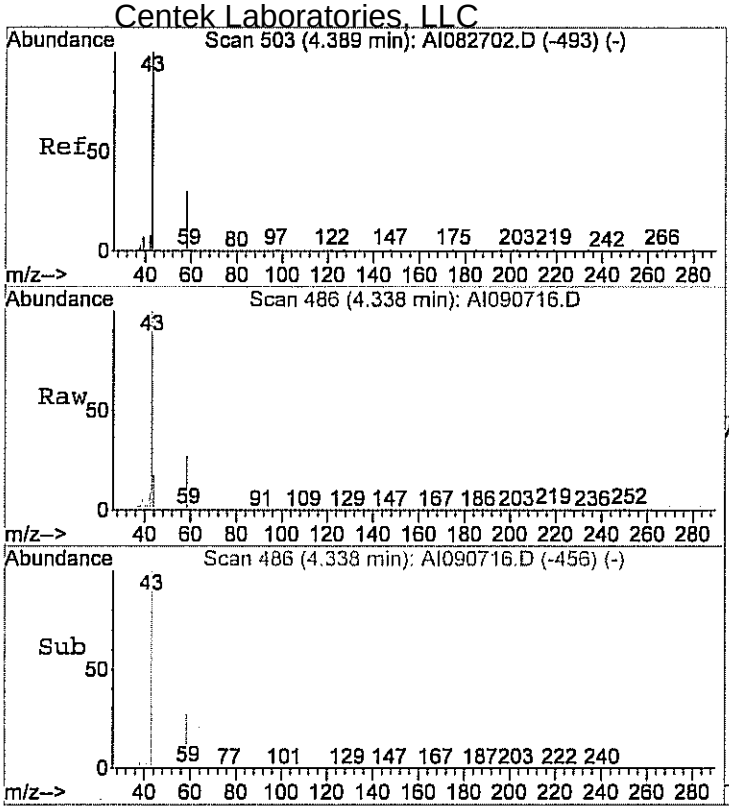


#13
Freon 11
Concen: 0.29 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion:101 Resp: 13035

Ion	Ratio	Lower	Upper
101	100		
103	63.3	44.9	84.9
105	11.5	0.0	30.9

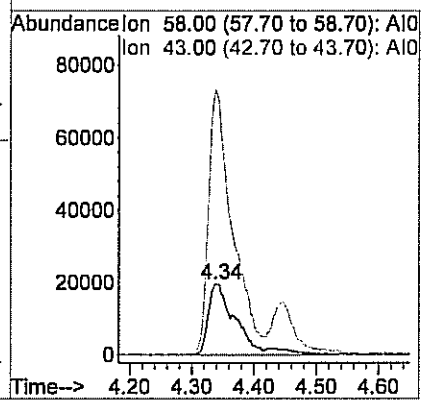


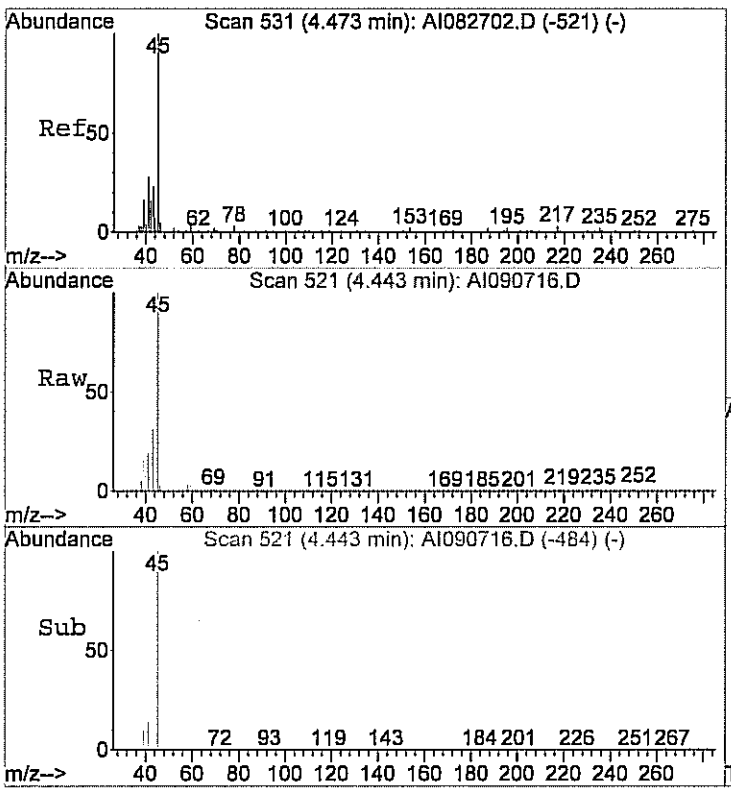


#14
Acetone
Concen: 12.97 ppb
RT: 4.34 min Scan# 486
Delta R.T. -0.06 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 58 Resp: 62448

Ion	Ratio	Lower	Upper
58	100		
43	376.8	360.8	420.8

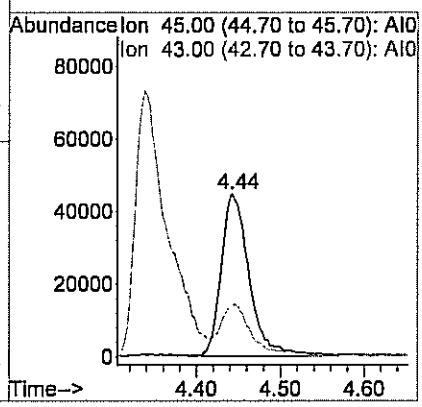


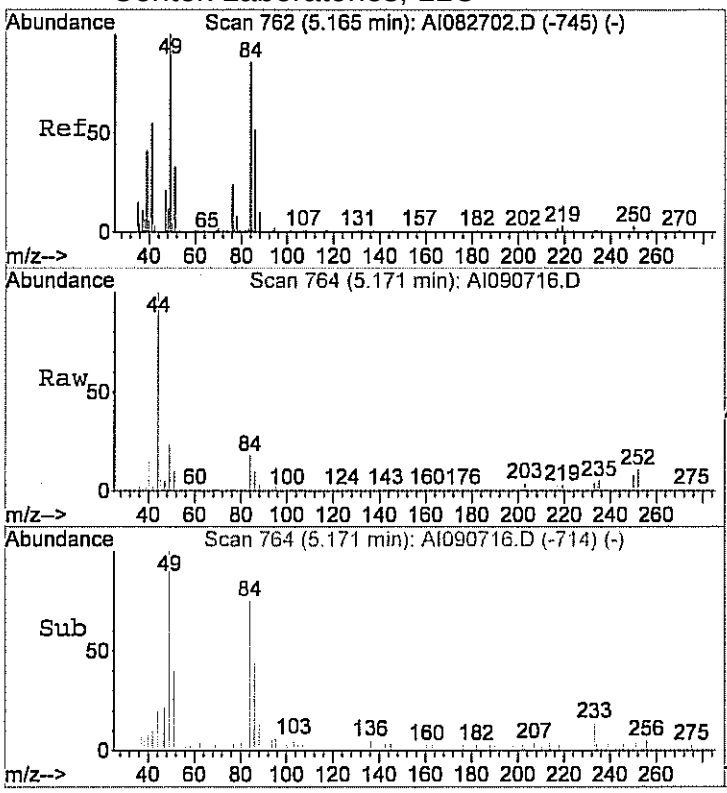


#15
Isopropyl alcohol
Concen: 10.50 ppb
RT: 4.44 min Scan# 521
Delta R.T. -0.04 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 45 Resp: 103287

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

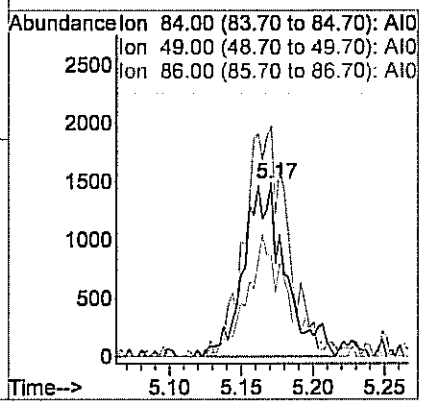


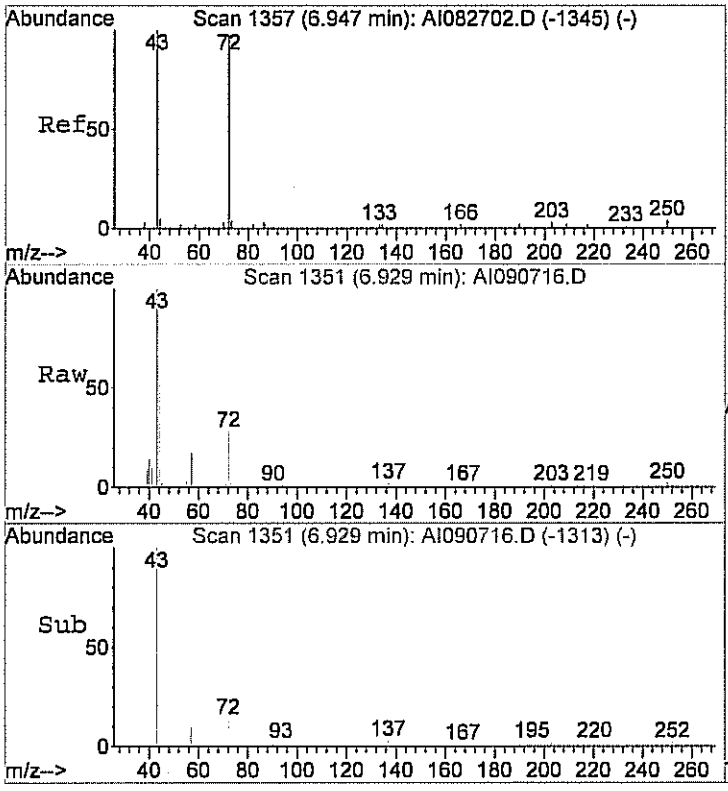


#18
Methylene chloride
Concen: 0.24 ppb
RT: 5.17 min Scan# 764
Delta R.T. -0.00 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 84 Resp: 2970

Ion	Ratio	Lower	Upper
84	100		
49	139.9	116.9	156.9
86	68.9	46.7	86.7

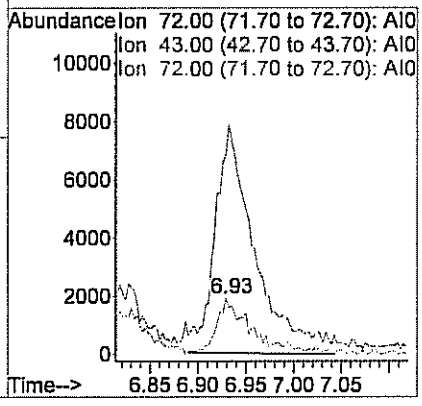


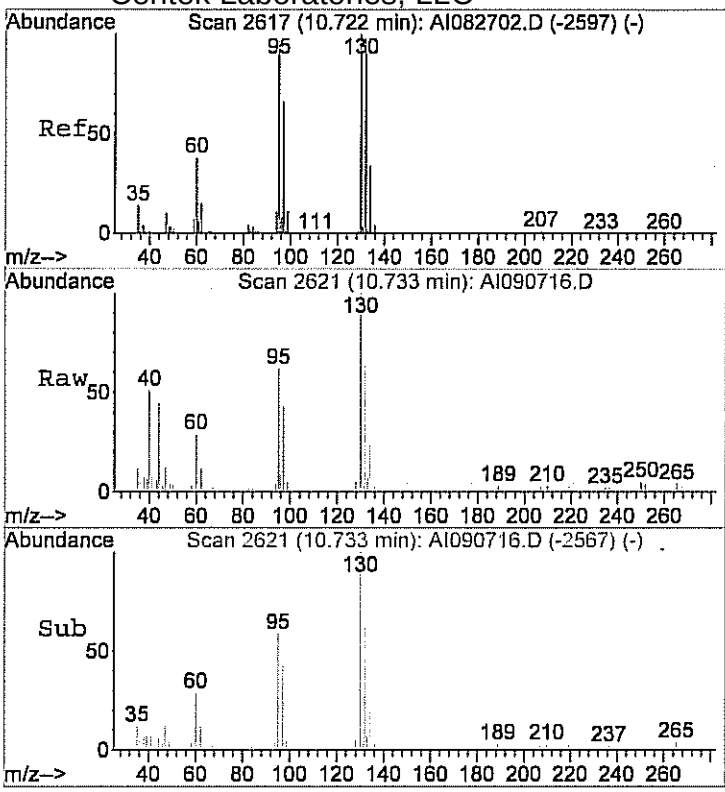


#25
Methyl Ethyl Ketone
Concen: 1.08 ppb
RT: 6.93 min Scan# 1351
Delta R.T. -0.04 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 72 Resp: 4803

Ion	Ratio	Lower	Upper
72	100		
43	14.3	0.0	20.0
72	100.0	80.0	120.0

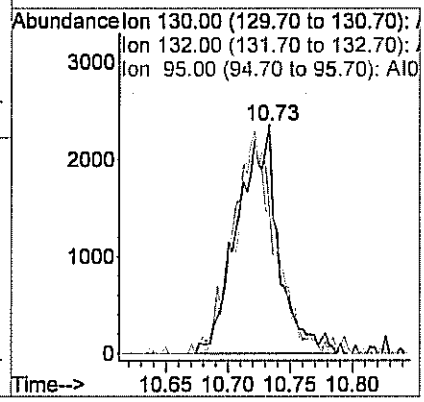


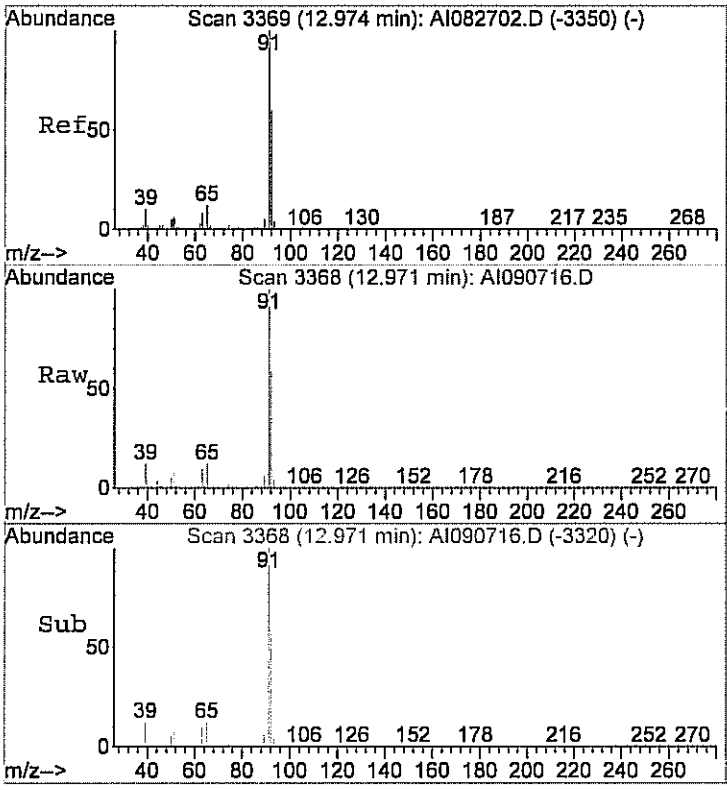


#41
Trichloroethene
Concen: 0.20 ppb
RT: 10.73 min Scan# 2621
Delta R.T. 0.01 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion:130 Resp: 5421

Ion	Ratio	Lower	Upper
130	100		
132	98.9	79.0	119.0
95	94.9	76.8	116.8

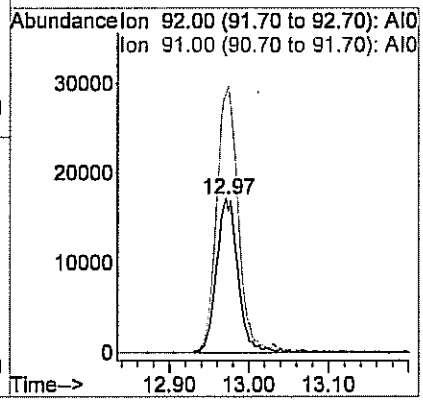


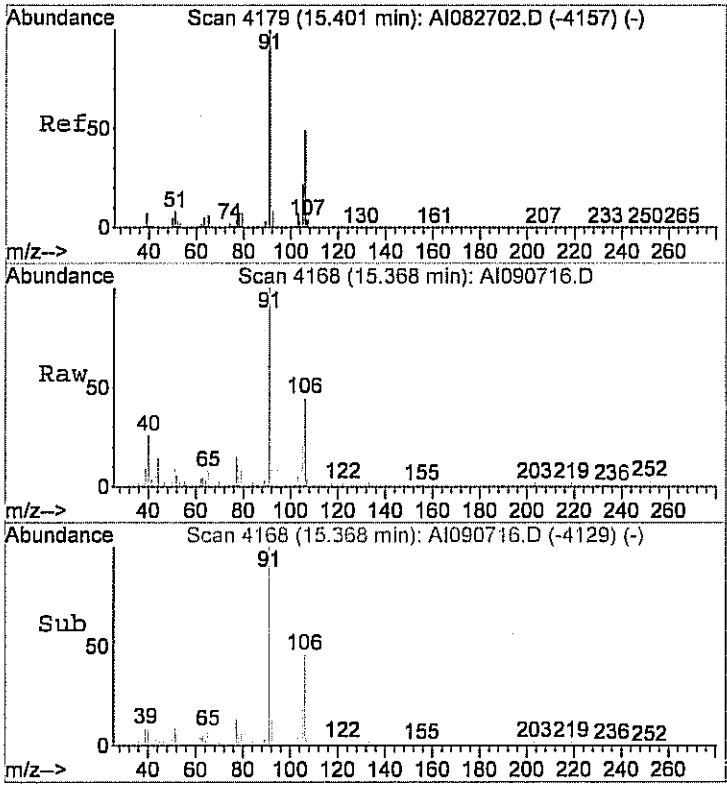


#48
Toluene
Concen: 1.10 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 92 Resp: 32989

Ion	Ratio	Lower	Upper
92	100		
91	173.6	159.8	199.8

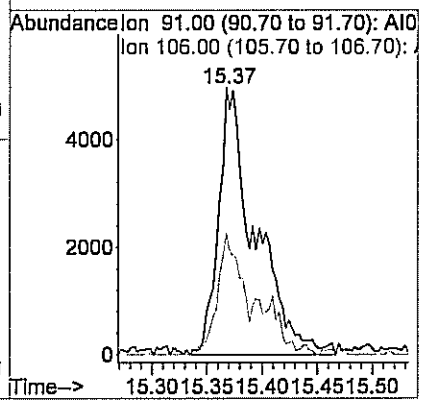


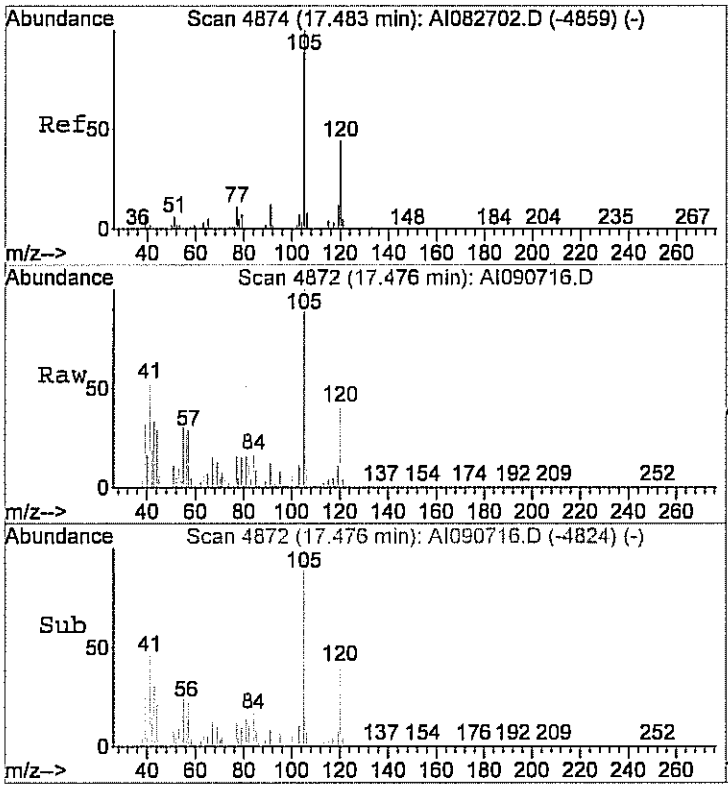


#56
m&p-xylene
Concen: 0.23 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion: 91 Resp: 11450

Ion	Ratio	Lower	Upper
91	100		
106	44.2	27.5	67.5

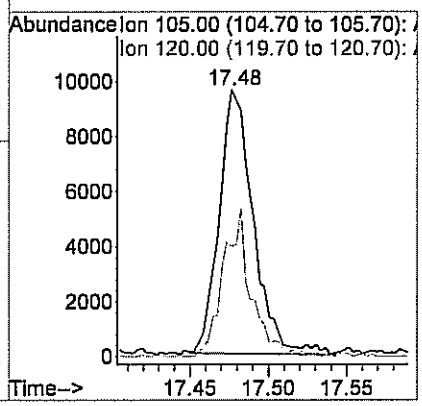




#65
1,2,4-trimethylbenzene
Concen: 0.34 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090716.D
Acq: 7 Sep 2011 7:35 pm

Tgt Ion:105 Resp: 14516

Ion	Ratio	Lower	Upper
105	100		
120	46.3	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090736.D Vial: 56
Acq On : 8 Sep 2011 6:34 am Operator: RJP
Sample : C1108077-010A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 06:55:21 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

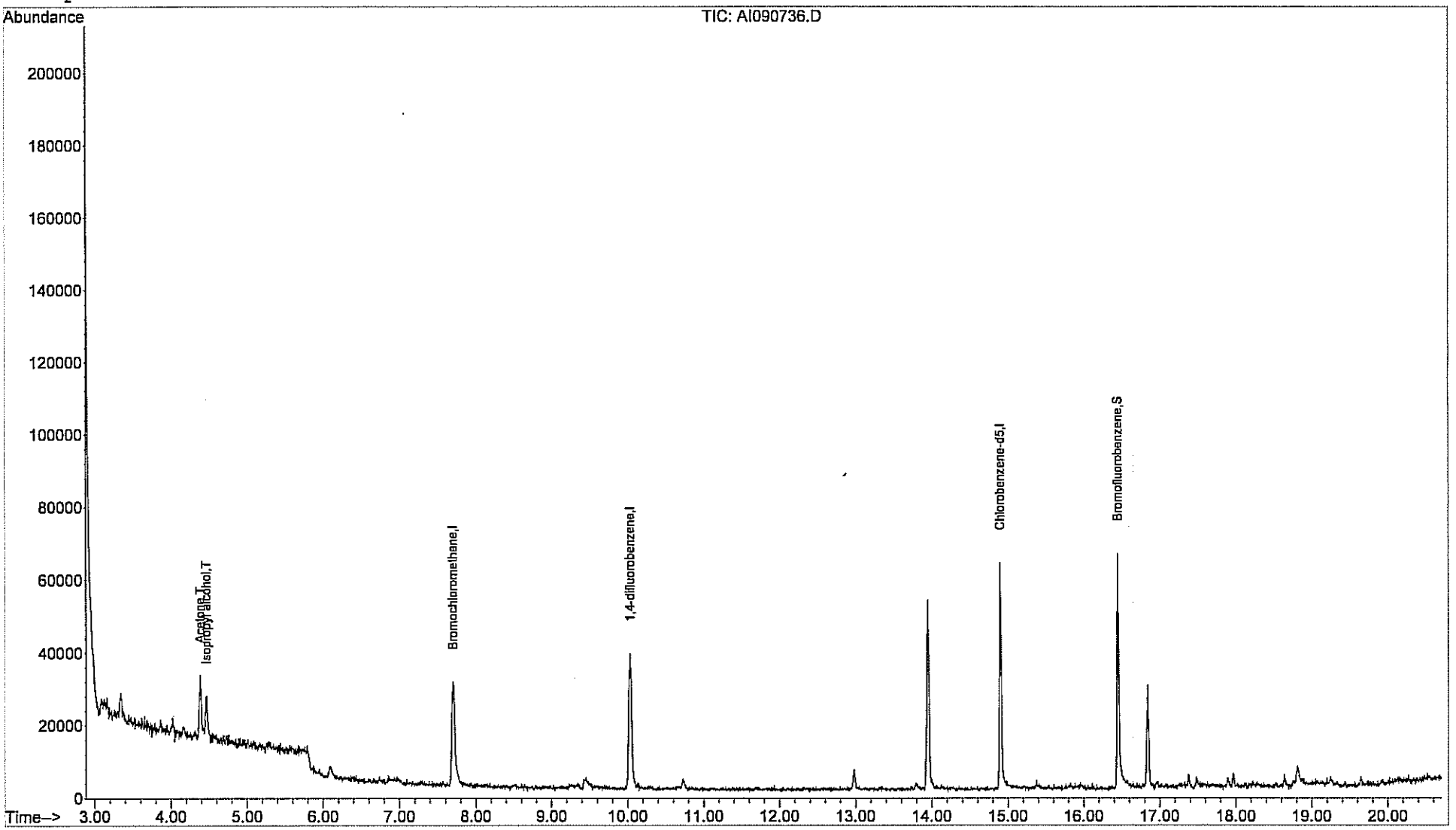
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	12653	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	41223	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	37449	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	21496	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
14) Acetone	4.39	58	6547	1.47	ppb		93
15) Isopropyl alcohol	4.46	45	8756	0.96	ppb	#	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

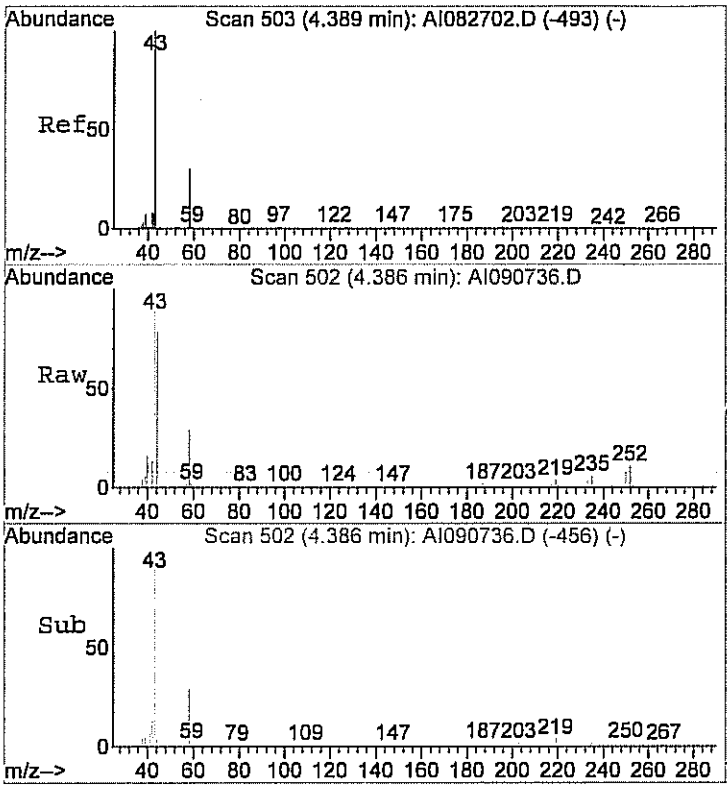
Data File : C:\HPCHEM\1\DATA\AI090736.D
Acq On : 8 Sep 2011 6:34 am
Sample : C1108077-010A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:03 2011

Vial: 56
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



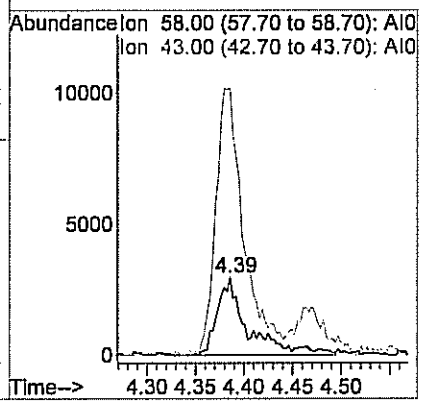
Centek Laboratories, LLC

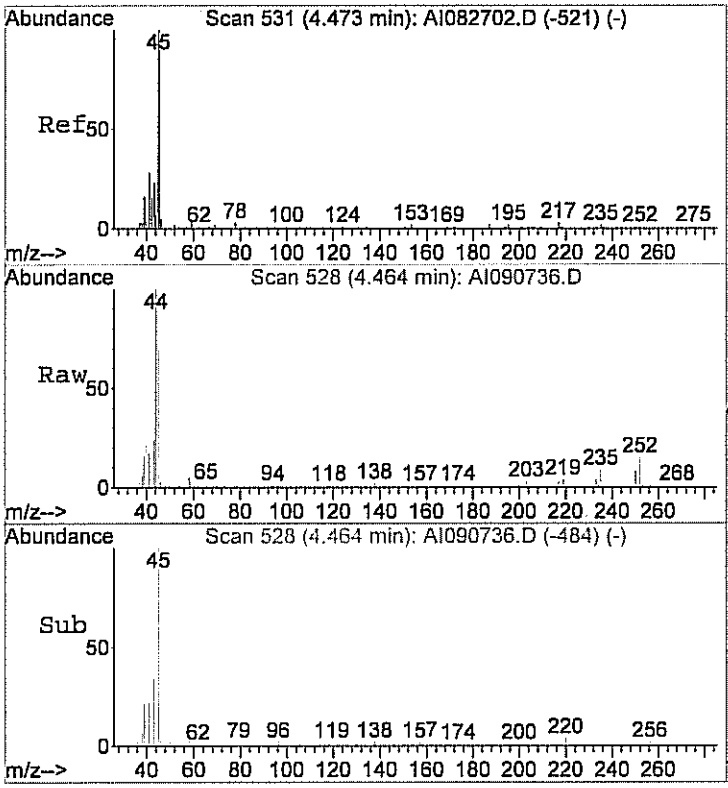


#14
Acetone
Concen: 1.47 ppb
RT: 4.39 min Scan# 502
Delta R.T. -0.01 min
Lab File: AI090736.D
Acq: 8 Sep 2011 6:34 am

Tgt Ion: 58 Resp: 6547

Ion	Ratio	Lower	Upper
58	100		
43	374.6	360.8	420.8

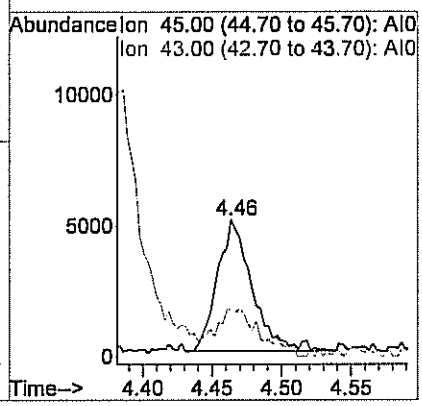




#15
Isopropyl alcohol
Concen: 0.96 ppb
RT: 4.46 min Scan# 528
Delta R.T. -0.02 min
Lab File: AI090736.D
Acq: 8 Sep 2011 6:34 am

Tgt Ion: 45 Resp: 8756

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	0.26	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Acetone	16	3.0		ppbV	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Cyclohexane	0.22	0.15		ppbV	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.17	0.30	J	ppbV	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Toluene	0.61	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Trichloroethene	0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	1.3	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Acetone	39	7.2		ug/m3	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:07:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Cyclohexane	0.77	0.52		ug/m3	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.75	1.3	J	ug/m3	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	3.4	0.90		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:07:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:07:00 PM
Toluene	2.3	0.57		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090717.D Vial: 37
Acq On : 7 Sep 2011 8:07 pm Operator: RJP
Sample : C1108077-011A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 20:28:36 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

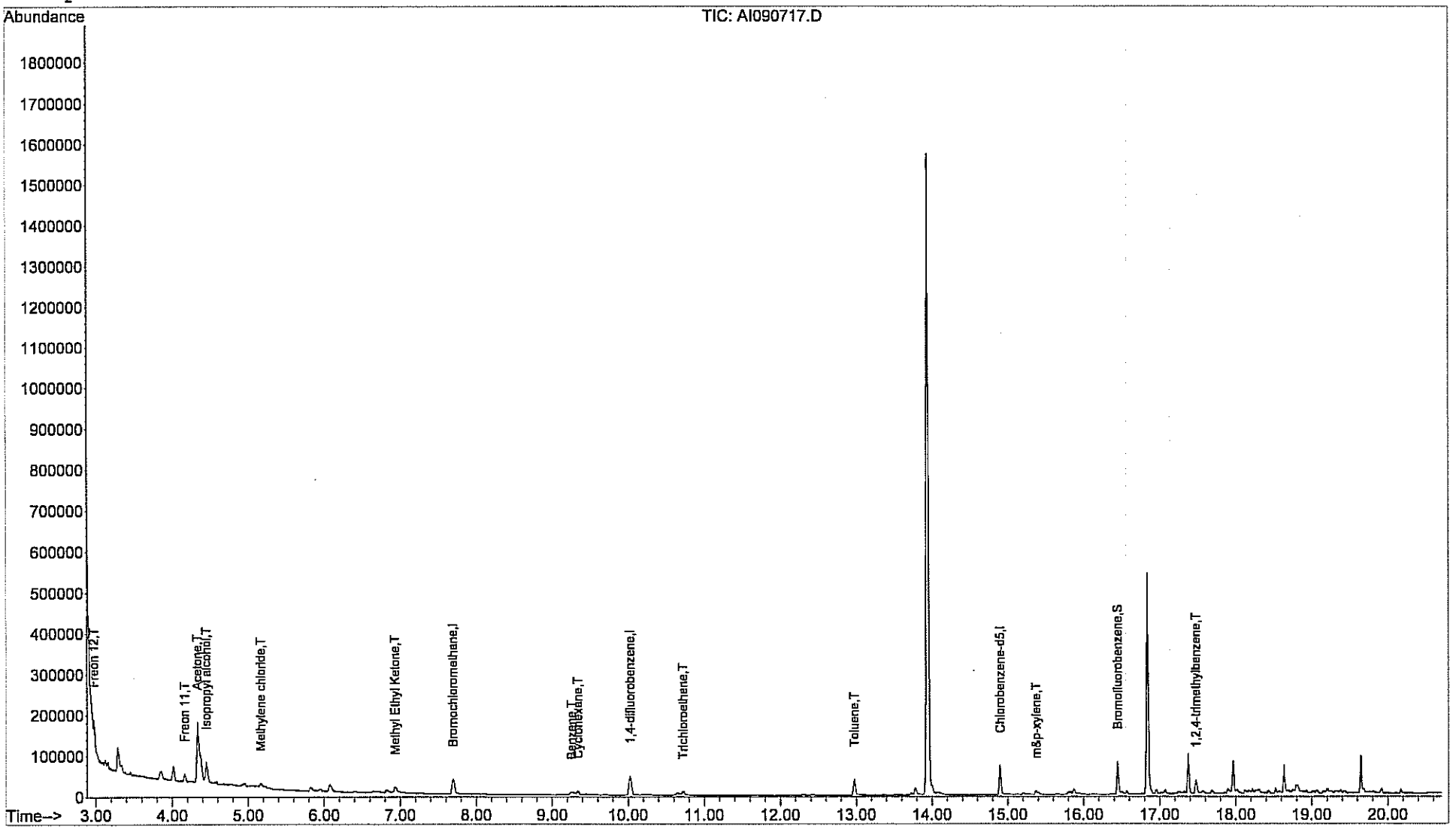
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13406	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	48625	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	43182	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	25102	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32714	0.57	ppb		98
13) Freon 11	4.16	101	12834	0.29	ppb		99
14) Acetone	4.33	58	77483	16.37	ppb		88
15) Isopropyl alcohol	4.45	45	51619	5.34	ppb	#	100
18) Methylene chloride	5.16	84	3743	0.31	ppb		94
25) Methyl Ethyl Ketone	6.94	72	4947	1.13	ppb	#	100
34) Cyclohexane	9.34	56	3443	0.22	ppb	#	67
36) Benzene	9.25	78	4818	0.12	ppb		98
41) Trichloroethene	10.73	130	3797	0.15	ppb		96
48) Toluene	12.97	92	17156	0.61	ppb		94
56) m&p-xylene	15.37	91	8130	0.17	ppb		98
65) 1,2,4-trimethylbenzene	17.48	105	10252	0.26	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

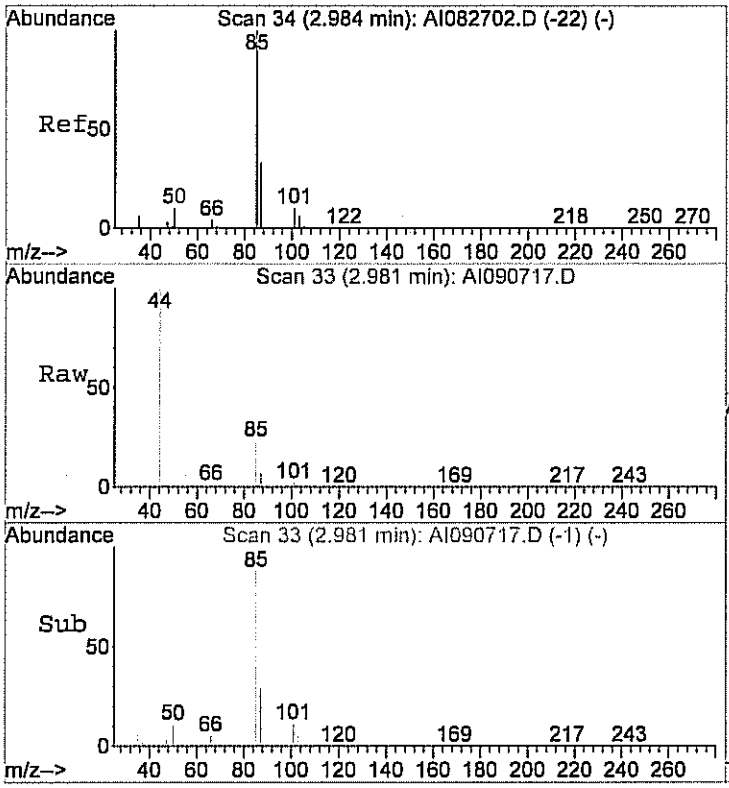
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090717.D Vial: 37
Acq On : 7 Sep 2011 8:07 pm Operator: RJP
Sample : C1108077-011A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:26 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



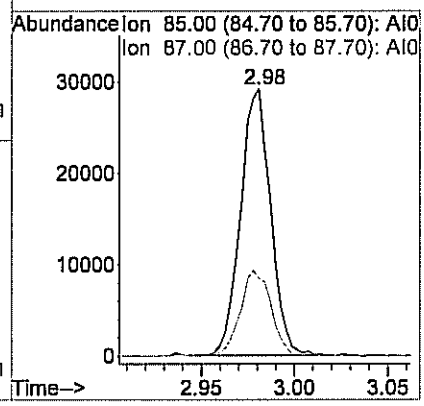
Centek Laboratories, LLC

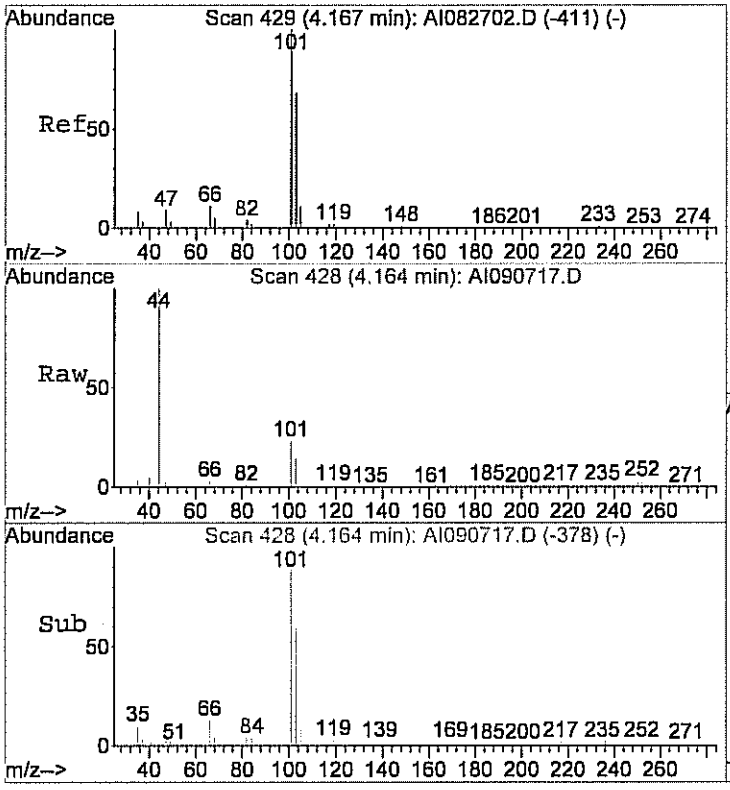


#3
Freon 12
Concen: 0.57 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 85 Resp: 32714

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

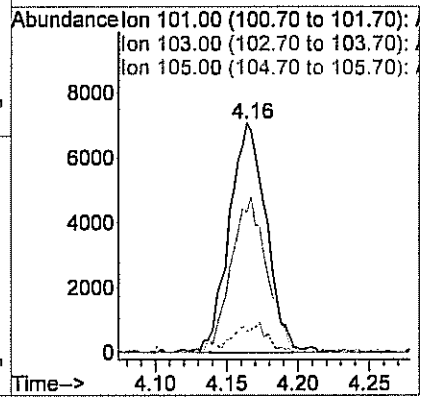


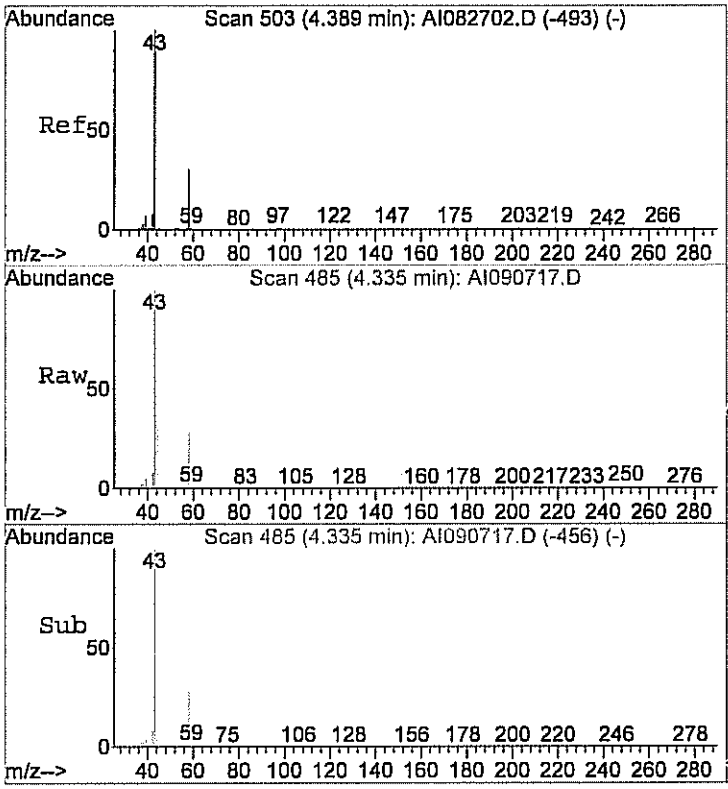


#13
Freon 11
Concen: 0.29 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.00 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion:101 Resp: 12834

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.9	84.9
105	11.4	0.0	30.9

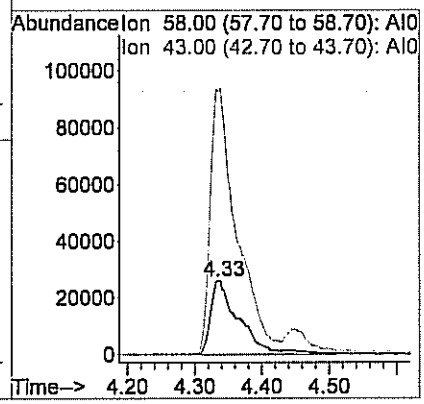


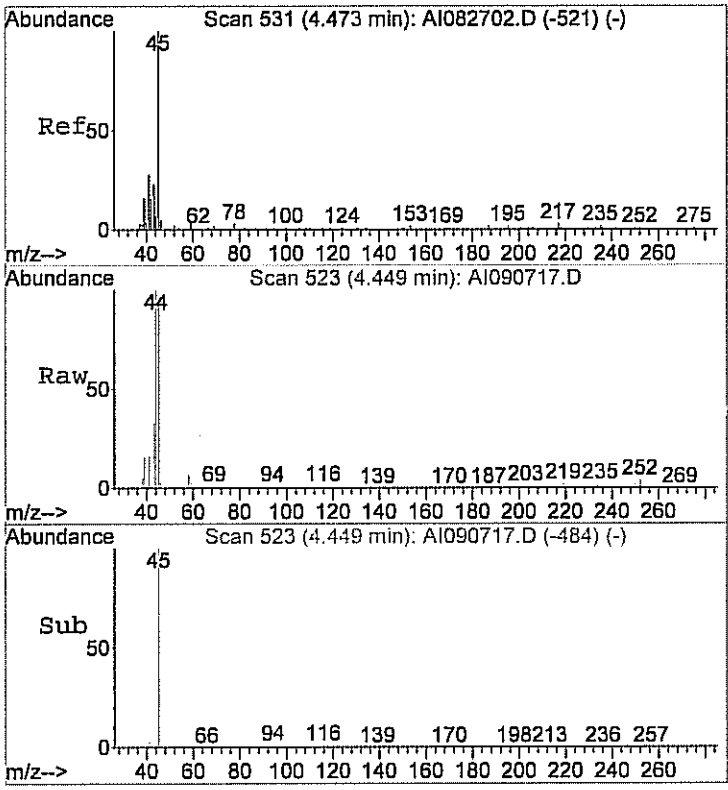


#14
Acetone
Concen: 16.37 ppb
RT: 4.33 min Scan# 485
Delta R.T. -0.06 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 58 Resp: 77483

Ion	Ratio	Lower	Upper
58	100		
43	363.3	360.8	420.8

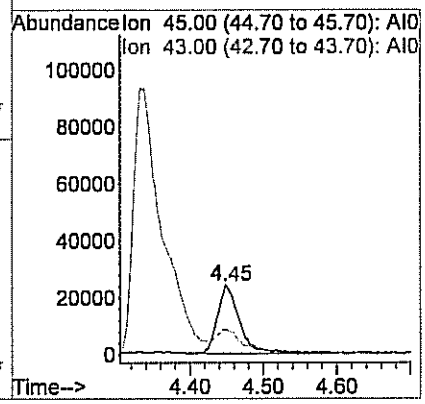


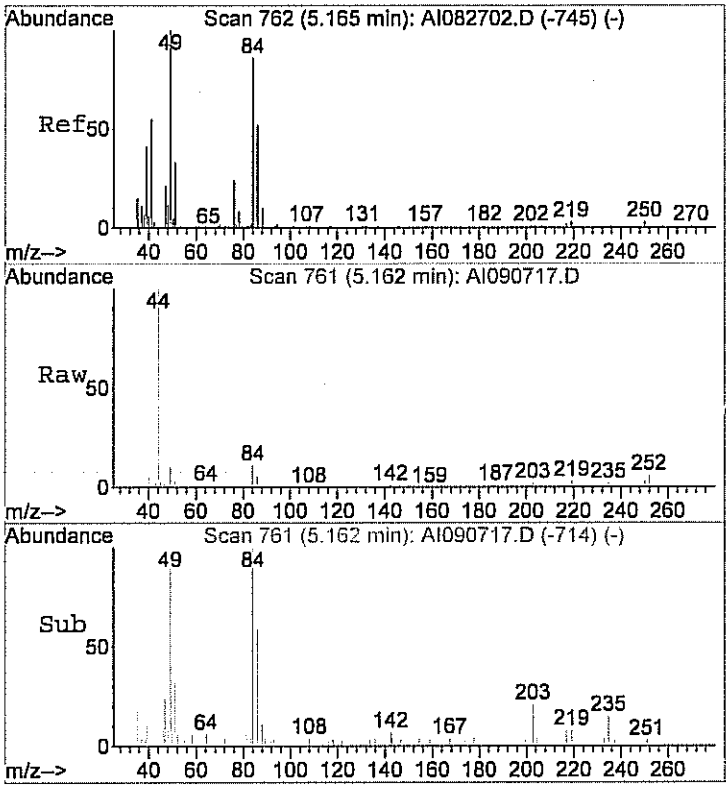


#15
Isopropyl alcohol
Concen: 5.34 ppb
RT: 4.45 min Scan# 523
Delta R.T. -0.03 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 45 Resp: 51619

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

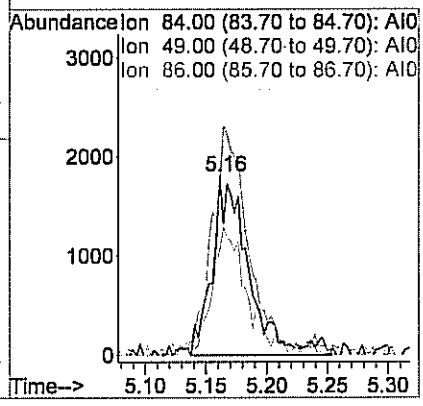


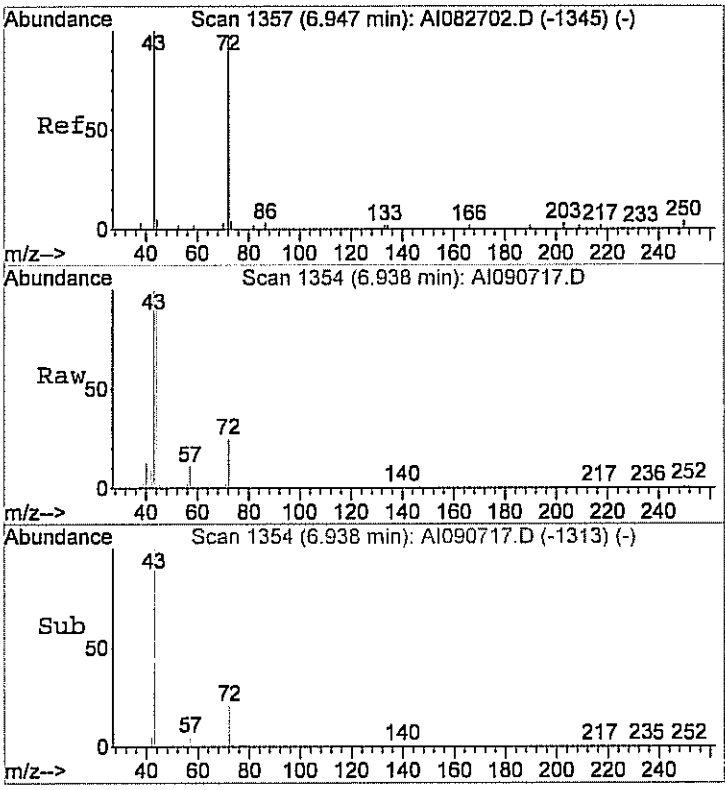


#18
Methylene chloride
Concen: 0.31 ppb
RT: 5.16 min Scan# 761
Delta R.T. -0.01 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 84 Resp: 3743

Ion	Ratio	Lower	Upper
84	100		
49	125.8	116.9	156.9
86	66.2	46.7	86.7

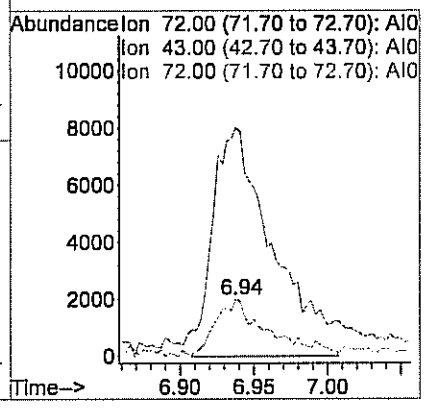


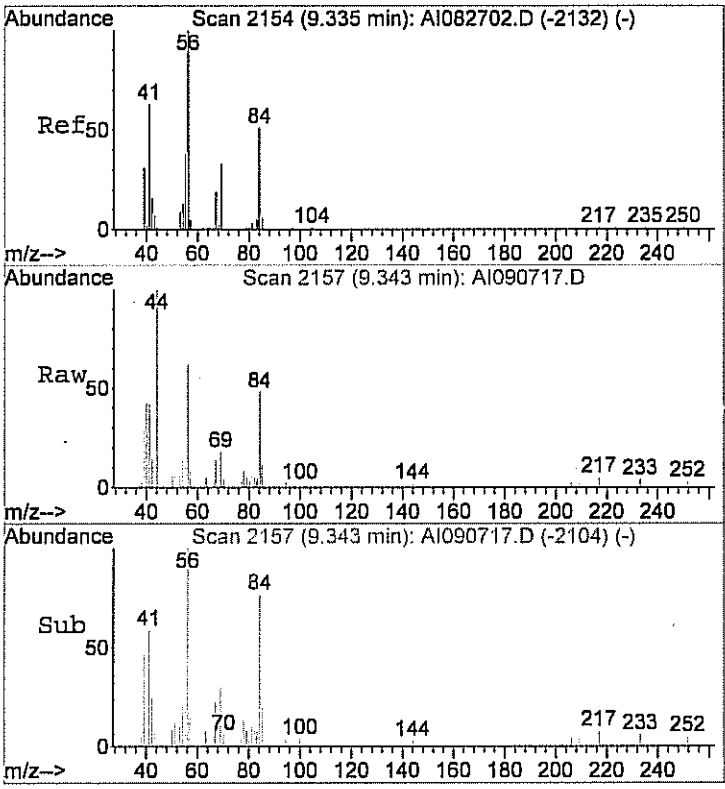


#25
Methyl Ethyl Ketone
Concen: 1.13 ppb
RT: 6.94 min Scan# 1354
Delta R.T. -0.03 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 72 Resp: 4947

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

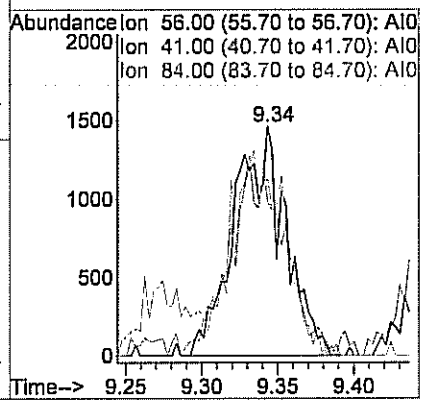


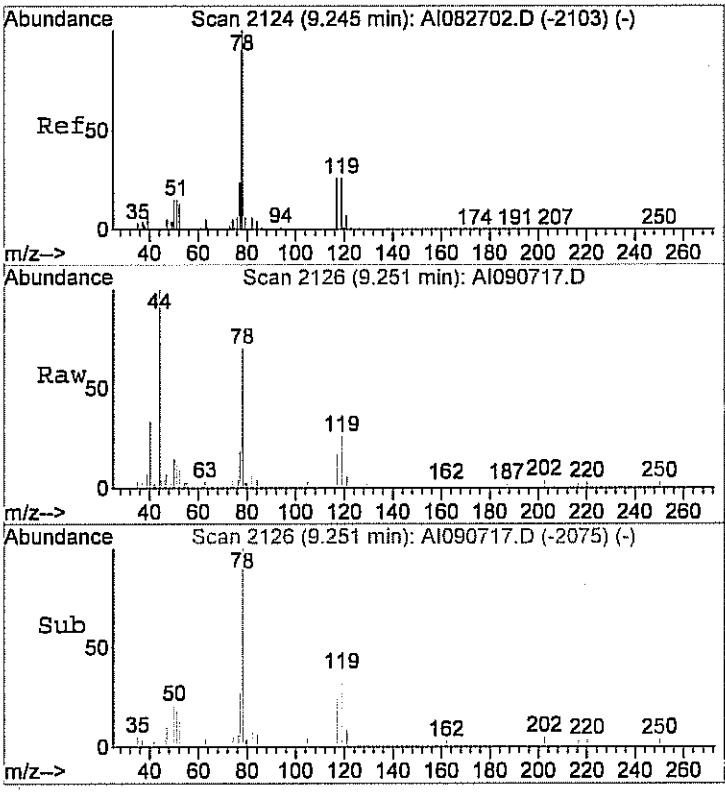


#34
Cyclohexane
Concen: 0.22 ppb
RT: 9.34 min Scan# 2157
Delta R.T. 0.01 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 56 Resp: 3443

Ion	Ratio	Lower	Upper
56	100		
41	90.1	49.1	89.1#
84	90.8	114.6	154.6#

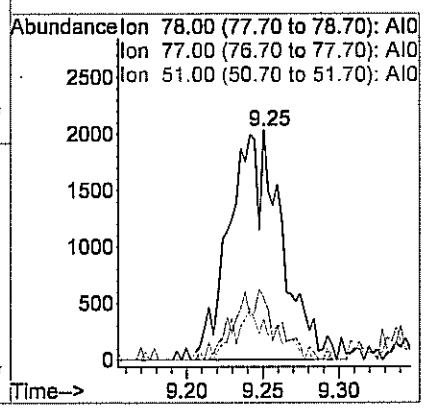


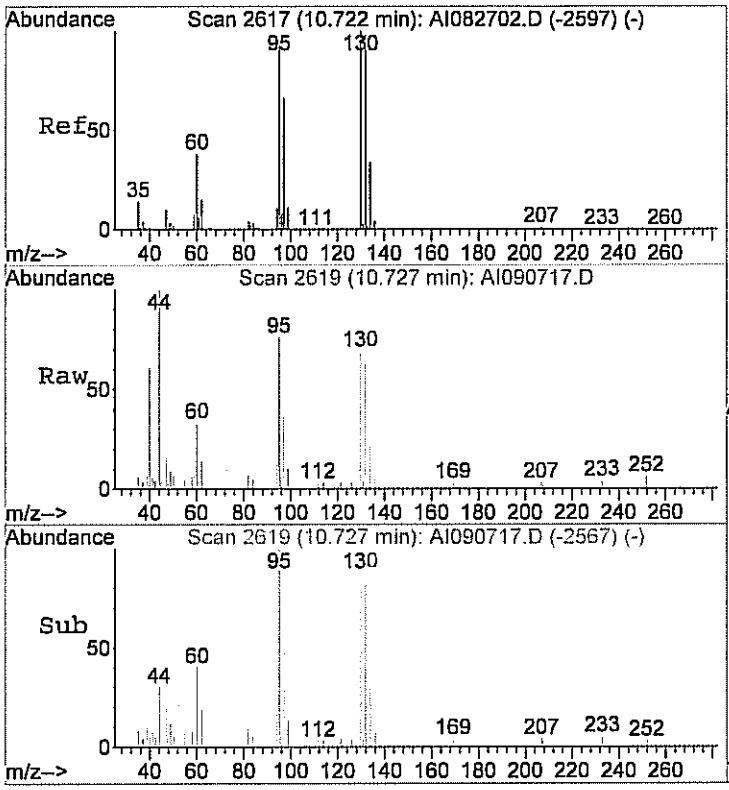


#36
Benzene
Concen: 0.12 ppb
RT: 9.25 min Scan# 2126
Delta R.T. 0.00 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 78 Resp: 4818

Ion	Ratio	Lower	Upper
78	100		
77	23.6	5.2	45.2
51	17.2	0.0	37.6

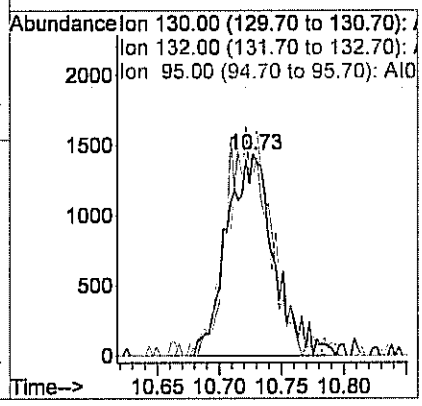


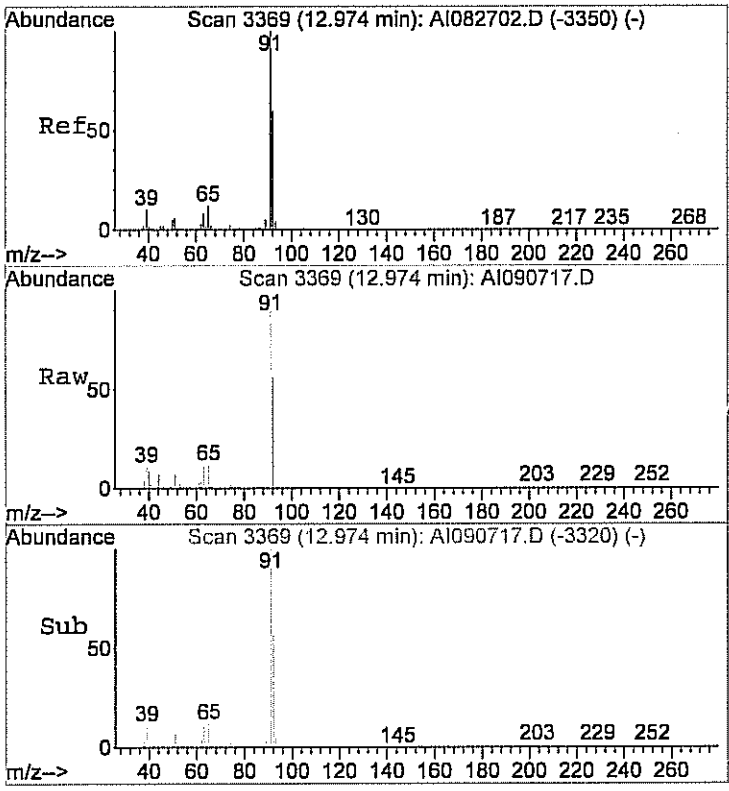


#41
Trichloroethene
Concen: 0.15 ppb
RT: 10.73 min Scan# 2619
Delta R.T. 0.01 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion:130 Resp: 3797

Ion	Ratio	Lower	Upper
130	100		
132	98.5	79.0	119.0
95	104.7	76.8	116.8

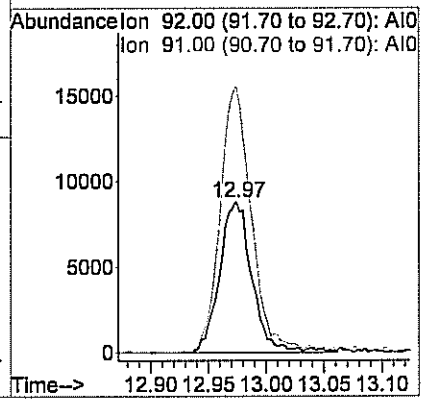


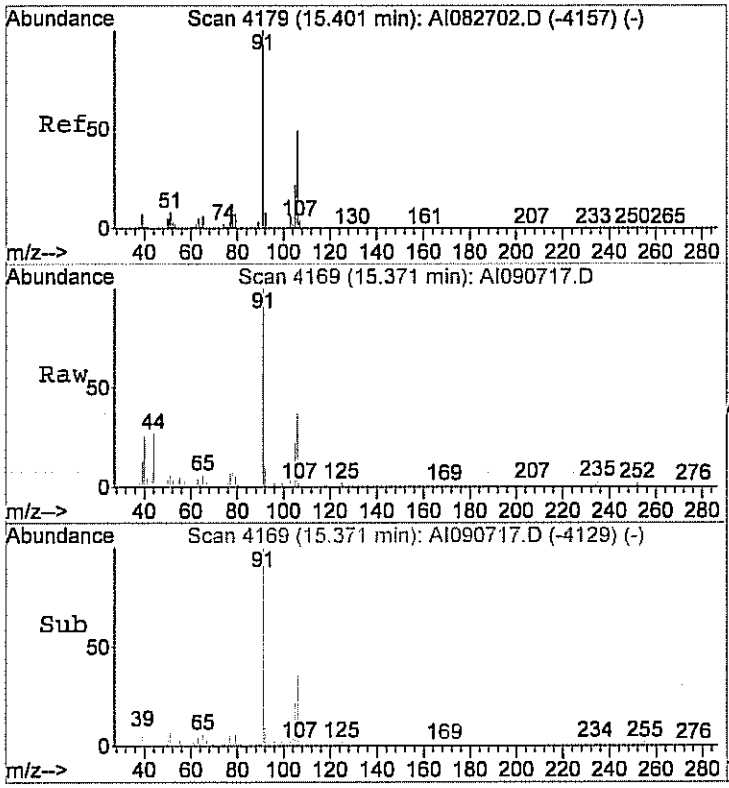


#48
Toluene
Concen: 0.61 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 92 Resp: 17156

Ion	Ratio	Lower	Upper
92	100		
91	171.8	159.8	199.8

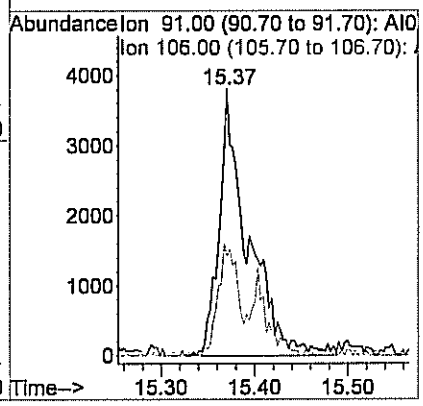


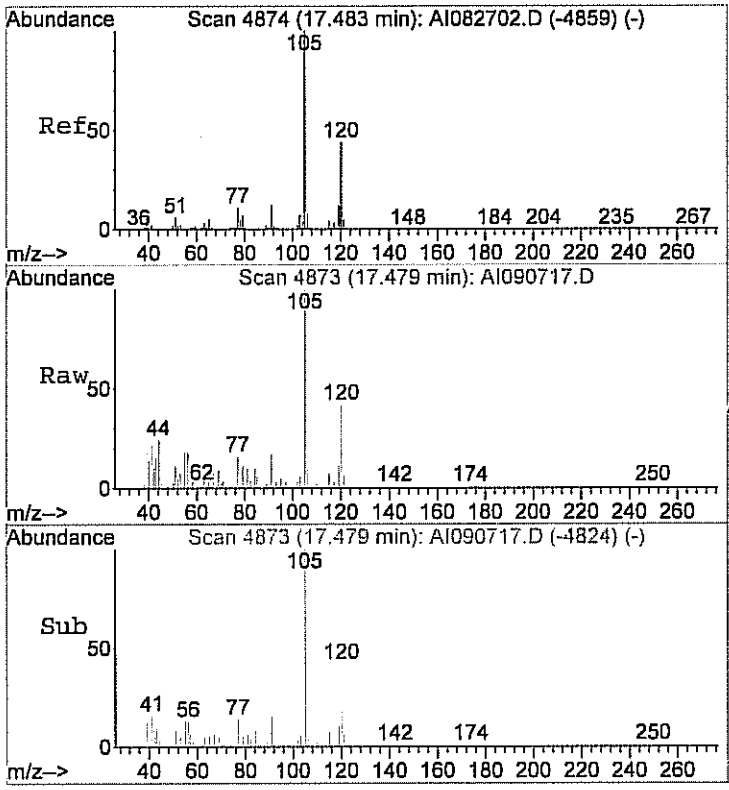


#56
m&p-xylene
Concen: 0.17 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion: 91 Resp: 8130

Ion	Ratio	Lower	Upper
91	100		
106	45.9	27.5	67.5

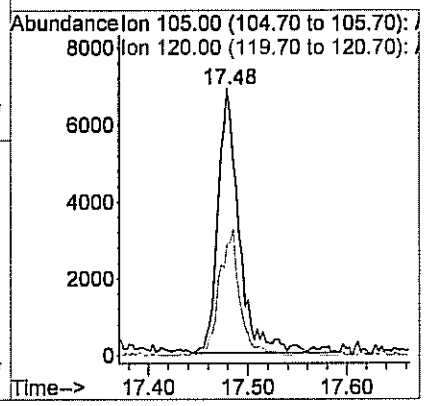




#65
1,2,4-trimethylbenzene
Concen: 0.26 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090717.D
Acq: 7 Sep 2011 8:07 pm

Tgt Ion:105 Resp: 10252

Ion	Ratio	Lower	Upper
105	100		
120	45.3	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090737.D Vial: 57
Acq On : 8 Sep 2011 7:07 am Operator: RJP
Sample : C1108077-011A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 07:28:31 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.71	128	12765	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	40892	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	36738	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	19124	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
14) Acetone	4.38	58	7222	1.60	ppb		88
15) Isopropyl alcohol	4.47	45	5483	0.60	ppb	#	100

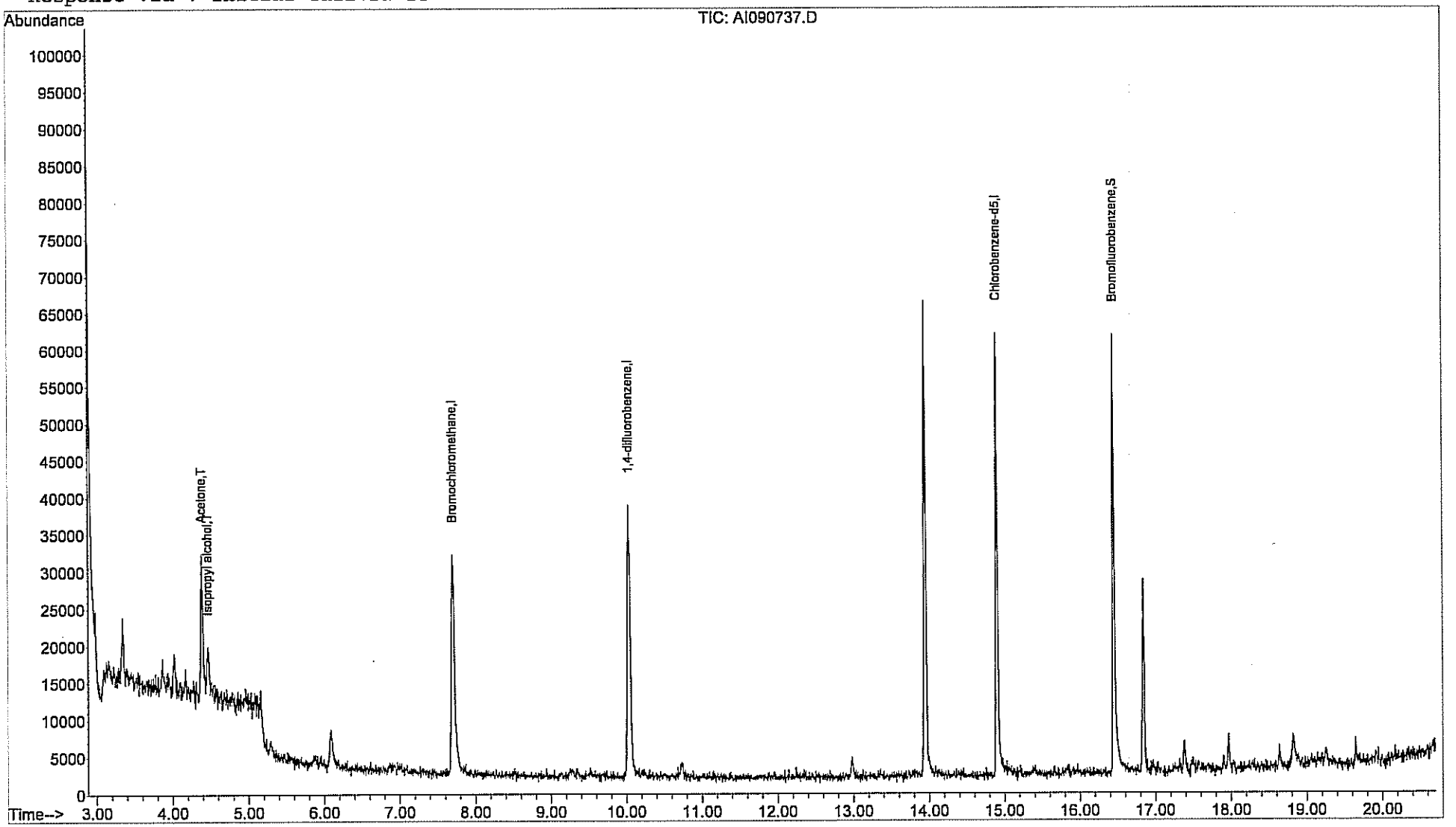
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qt Reviewed)

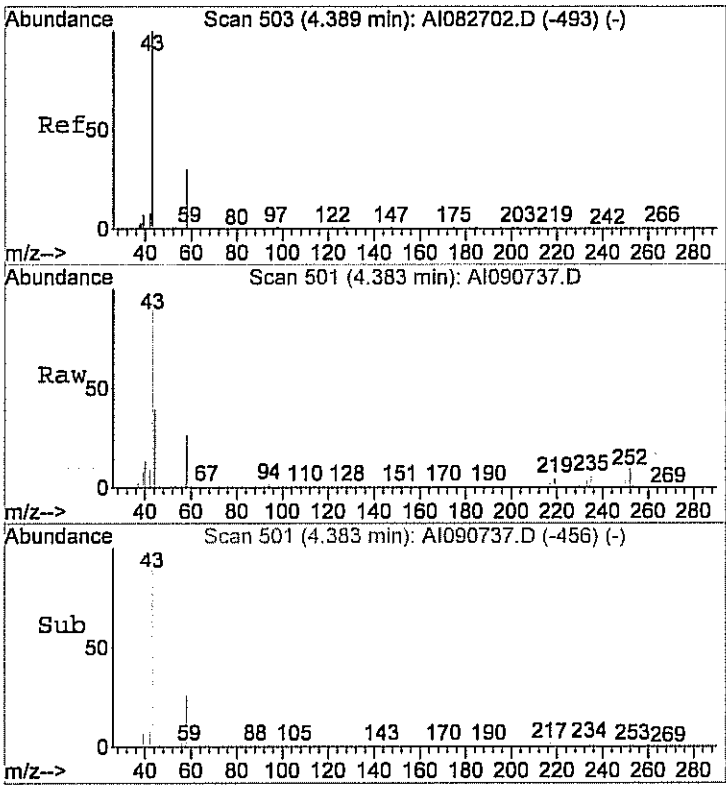
Data File : C:\HPCHEM\1\DATA\AI090737.D
Acq On : 8 Sep 2011 7:07 am
Sample : C1108077-011A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:03 2011

Vial: 57
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



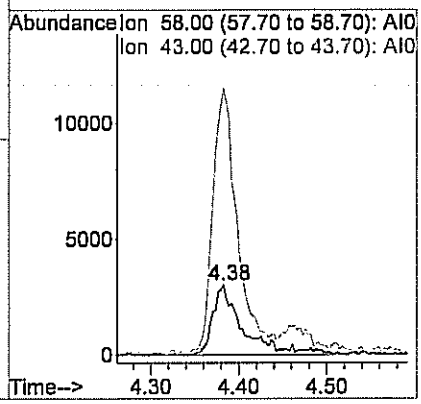
Centek Laboratories, LLC

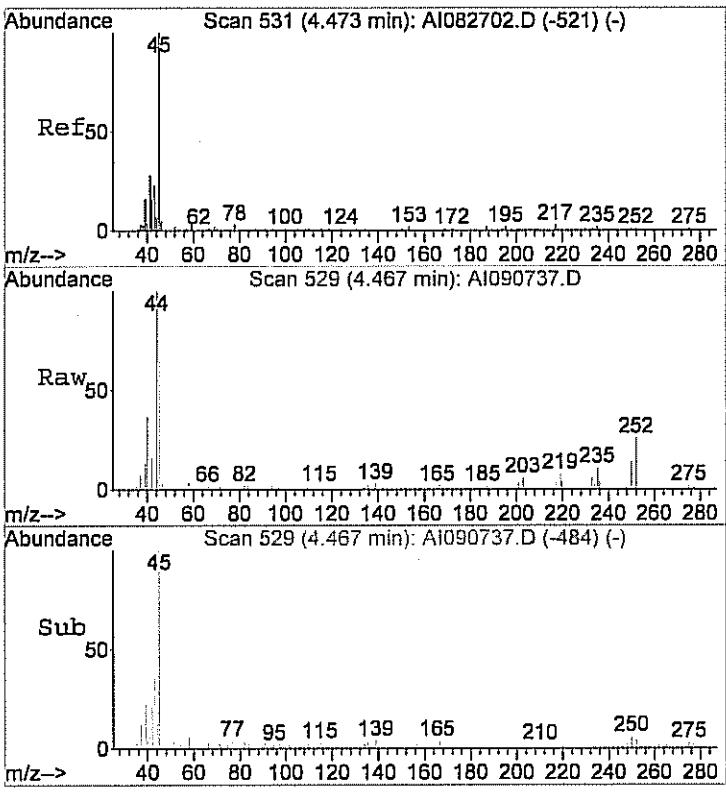


#14
Acetone
Concen: 1.60 ppb
RT: 4.38 min Scan# 501
Delta R.T. -0.01 min
Lab File: AI090737.D
Acq: 8 Sep 2011 7:07 am

Tgt Ion: 58 Resp: 7222

Ion	Ratio	Lower	Upper
58	100		
43	362.1	360.8	420.8

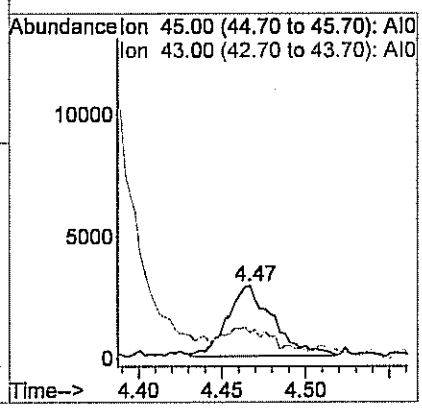




#15
Isopropyl alcohol
Concen: 0.60 ppb
RT: 4.47 min Scan# 529
Delta R.T. -0.01 min
Lab File: AI090737.D
Acq: 8 Sep 2011 7:07 am

Tgt Ion: 45 Resp: 5483

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	1.0	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	0.52	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	9/7/2011 8:40:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 8:40:00 PM
Acetone	20	3.0		ppbV	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzene	0.28	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.16	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	7861A04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.68	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 8:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 8:40:00 PM
Heptane	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
m&p-Xylene	2.5	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	2.0	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Methylene chloride	0.77	0.15		ppbV	1	9/7/2011 8:40:00 PM
o-Xylene	0.61	0.15		ppbV	1	9/7/2011 8:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Styrene	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Toluene	2.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Trichloroethene	0.45	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	5.1	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	2.6	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.81	0.71		ug/m3	1	9/7/2011 8:40:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Acetone	49	7.2		ug/m3	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:40:00 PM
Benzene	0.91	0.49		ug/m3	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.64	0.60		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
Ethylbenzene	3.0	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:40:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 8:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Heptane	1.7	0.62		ug/m3	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 7:41:00 AM
m&p-Xylene	11	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	5.9	0.90		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:40:00 PM
Methylene chloride	2.7	0.53		ug/m3	1	9/7/2011 8:40:00 PM
o-Xylene	2.7	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:40:00 PM
Styrene	1.8	0.65		ug/m3	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:40:00 PM
Toluene	8.8	5.7		ug/m3	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Trichloroethene	2.5	0.82		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090718.D Vial: 38
Acq On : 7 Sep 2011 8:40 pm Operator: RJP
Sample : C1108077-012A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 21:01:42 2011 Quant Results File: A826_1UG.RES

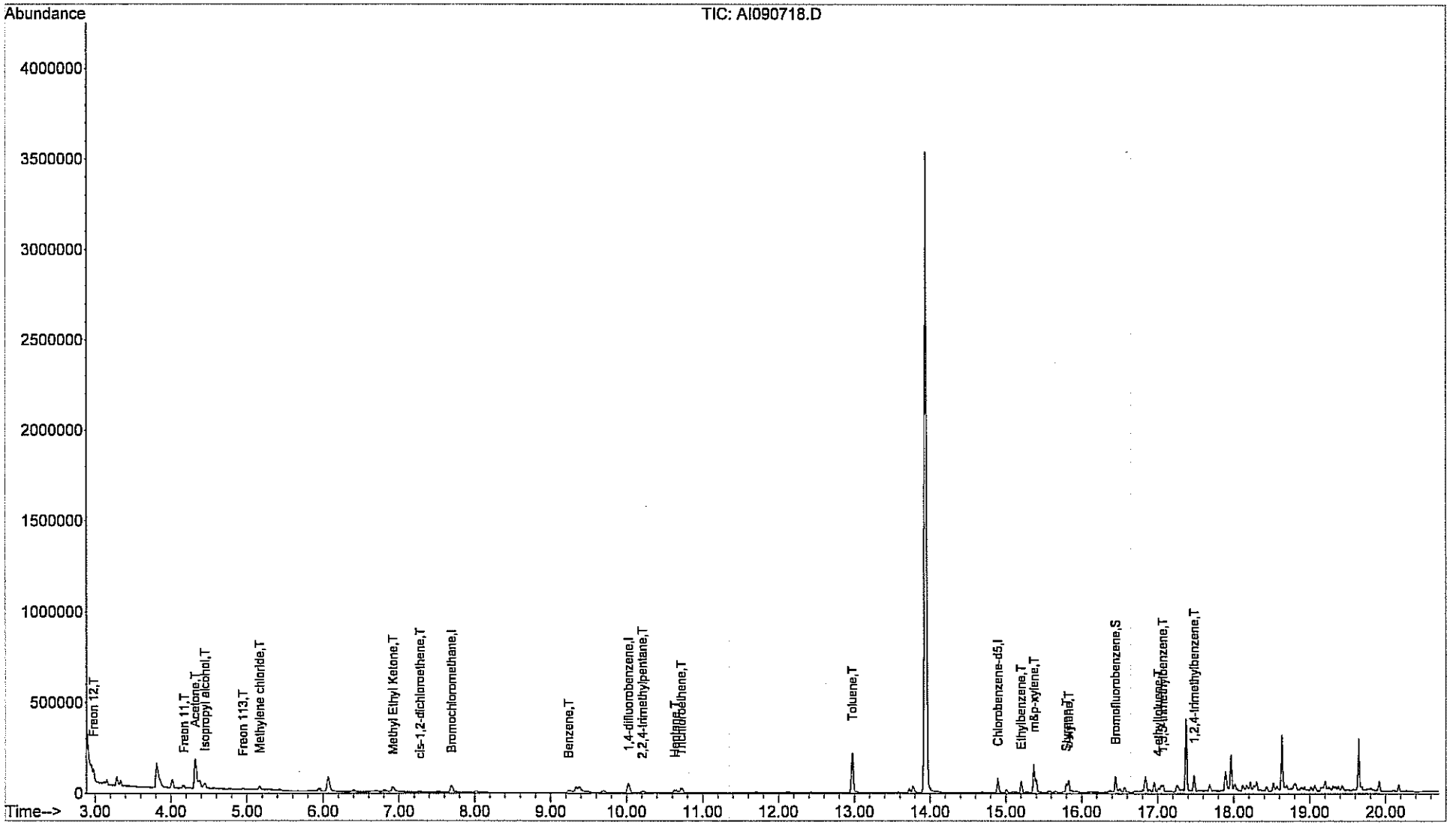
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13348	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	50177	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	44571	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	28249	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	31552	0.55	ppb		97
13) Freon 11	4.17	101	13149	0.30	ppb		99
14) Acetone	4.32	58	76665	16.27	ppb	#	85
15) Isopropyl alcohol	4.44	45	33325	3.46	ppb	#	100
17) Freon 113	4.95	101	3176	0.10	ppb		92
18) Methylene chloride	5.16	84	9246	0.77	ppb		96
25) Methyl Ethyl Ketone	6.93	72	8581	1.96	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	3156	0.16	ppb		91
36) Benzene	9.24	78	12174	0.28	ppb		98
39) 2,2,4-trimethylpentane	10.21	57	7873	0.17	ppb		81
40) Heptane	10.63	43	6646	0.42	ppb	#	71
41) Trichloroethene	10.72	130	11791	0.45	ppb		98
48) Toluene	12.97	92	94363	3.24	ppb		95
55) Ethylbenzene	15.21	91	40589	0.68	ppb		100
56) m&p-xylene	15.37	91	120799	2.48	ppb		99
57) Styrene	15.80	104	12215	0.42	ppb		91
59) o-xylene	15.83	91	34685	0.61	ppb		100
63) 4-ethyltoluene	17.01	105	11298m	0.24	ppb		
64) 1,3,5-trimethylbenzene	17.08	105	26481m	0.52	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	42096	1.02	ppb		100

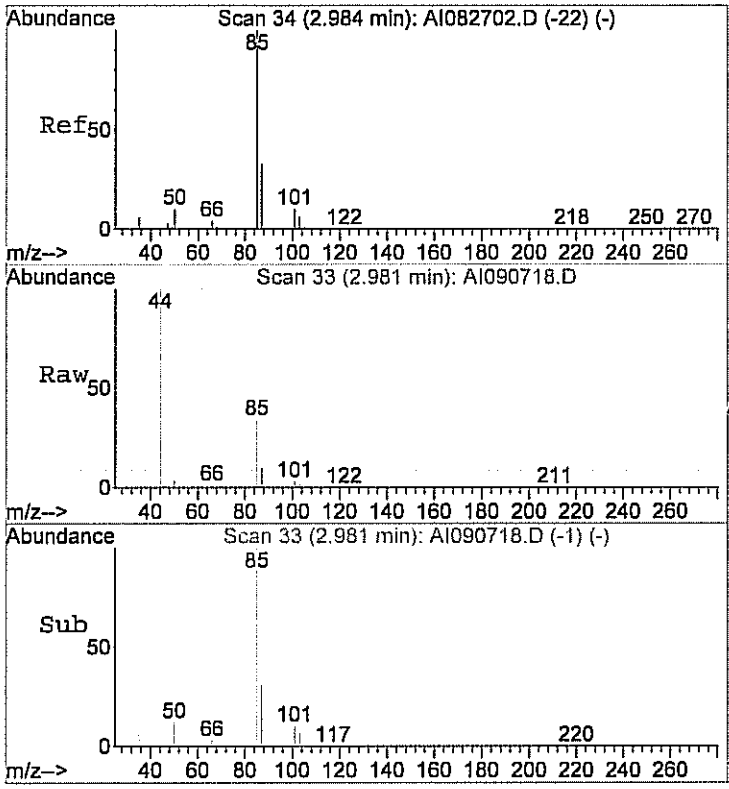
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090718.D Vial: 38
Acq On : 7 Sep 2011 8:40 pm Operator: RJP
Sample : C1108077-012A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:27 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



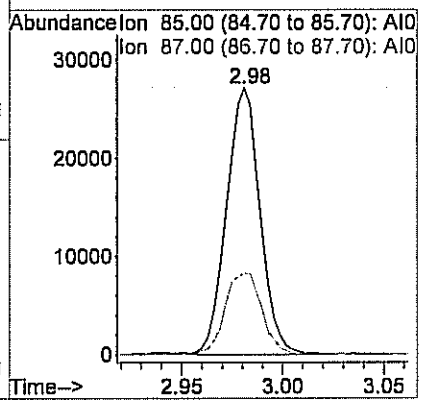
Centek Laboratories, LLC

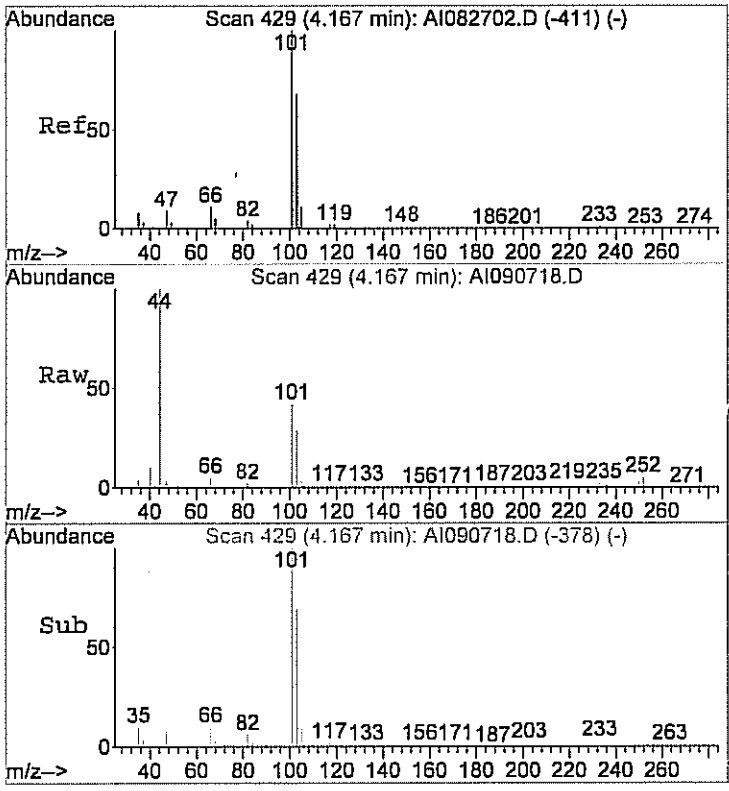


#3
Freon 12
Concen: 0.55 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 85 Resp: 31552

Ion	Ratio	Lower	Upper
85	100		
87	33.7	12.2	52.2

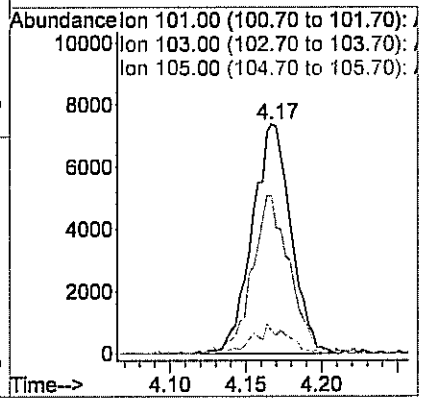


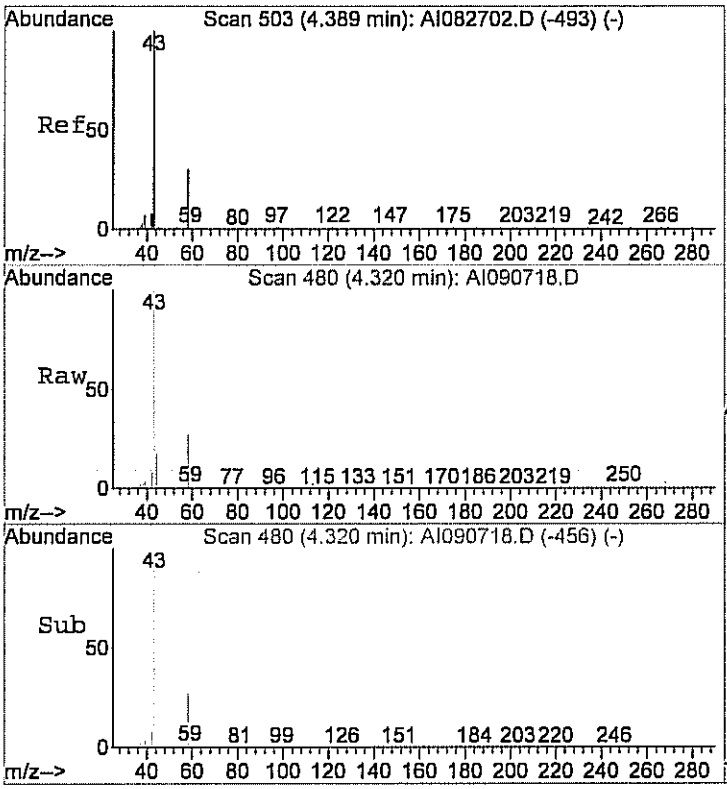


#13
Freon 11
Concen: 0.30 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:101 Resp: 13149

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.9	84.9
105	11.1	0.0	30.9

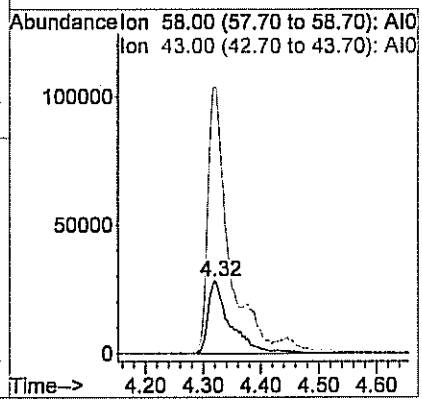


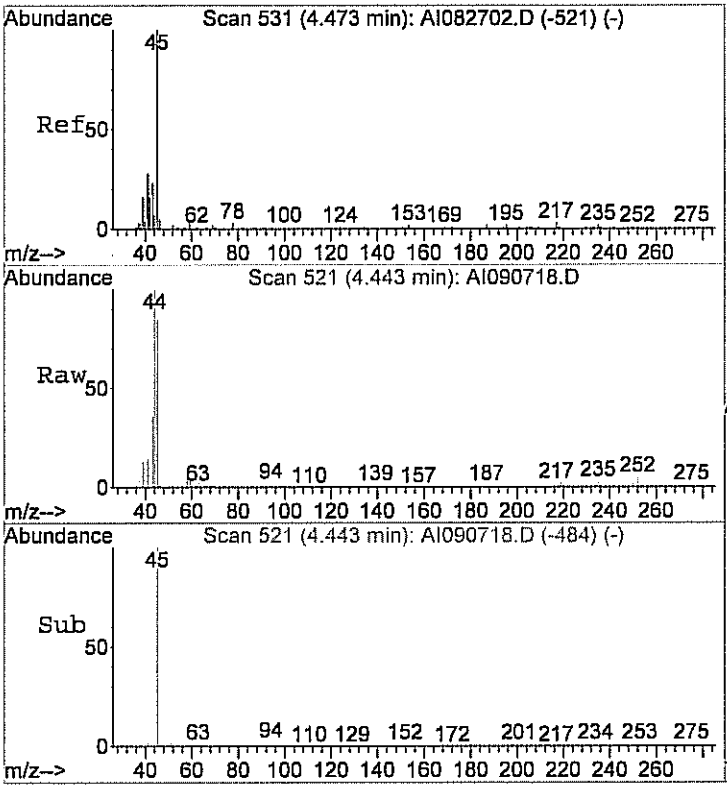


#14
Acetone
Concen: 16.27 ppb
RT: 4.32 min Scan# 480
Delta R.T. -0.08 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 58 Resp: 76665

Ion	Ratio	Lower	Upper
58	100		
43	356.7	360.8	420.8#

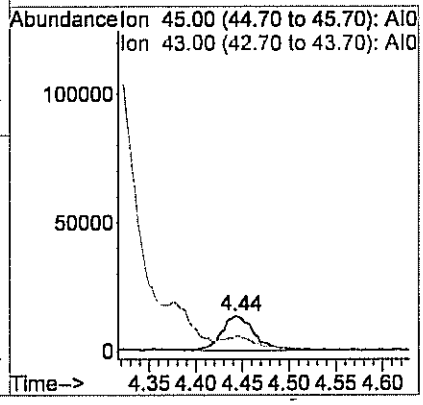


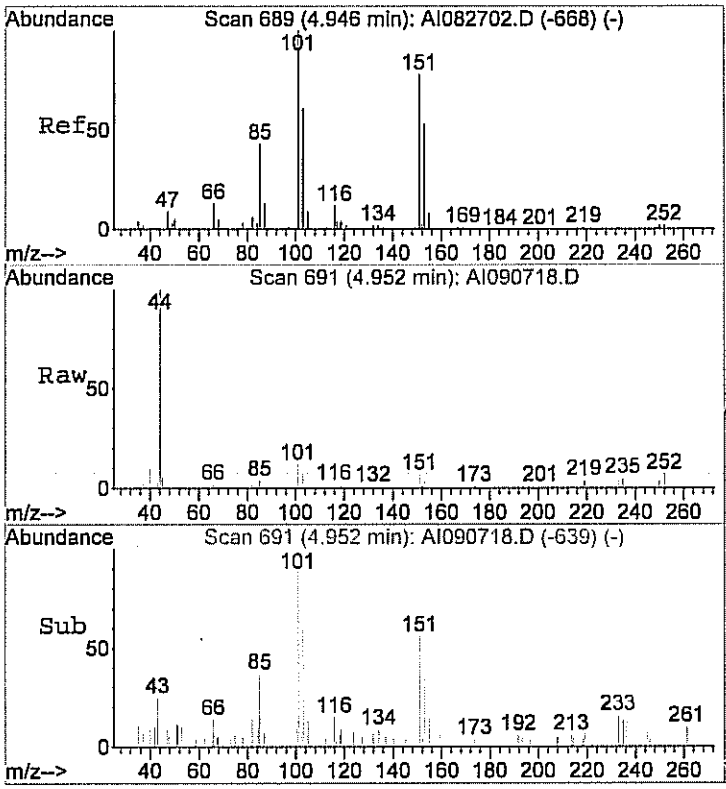


#15
Isopropyl alcohol
Concen: 3.46 ppb
RT: 4.44 min Scan# 521
Delta R.T. -0.04 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 45 Resp: 33325

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

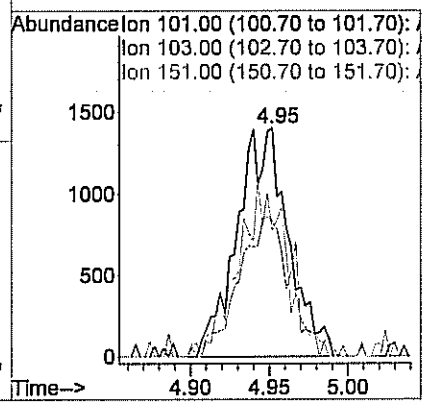


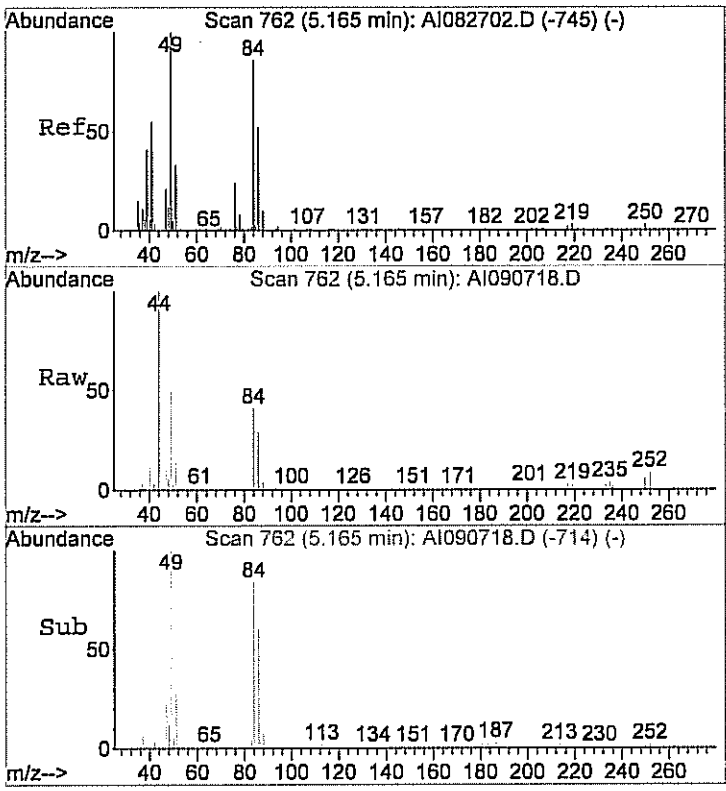


#17
Freon 113
Concen: 0.10 ppb
RT: 4.95 min Scan# 691
Delta R.T. 0.01 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:101 Resp: 3176

Ion	Ratio	Lower	Upper
101	100		
103	62.4	44.3	84.3
151	70.1	61.0	101.0

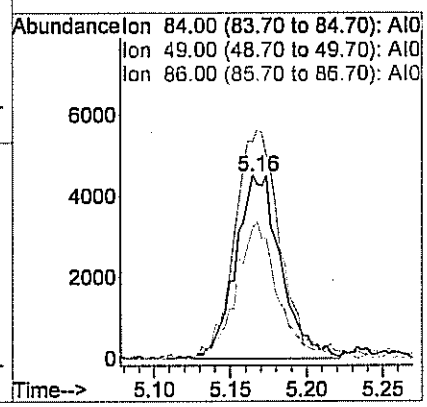


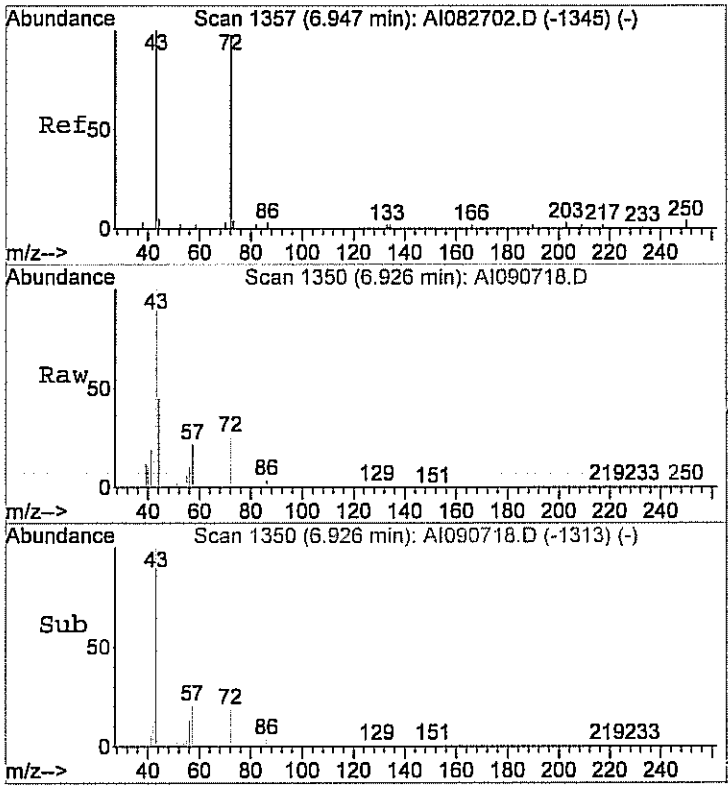


#18
Methylene chloride
Concen: 0.77 ppb
RT: 5.16 min Scan# 762
Delta R.T. -0.01 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 84 Resp: 9246

Ion	Ratio	Lower	Upper
84	100		
49	132.4	116.9	156.9
86	69.5	46.7	86.7

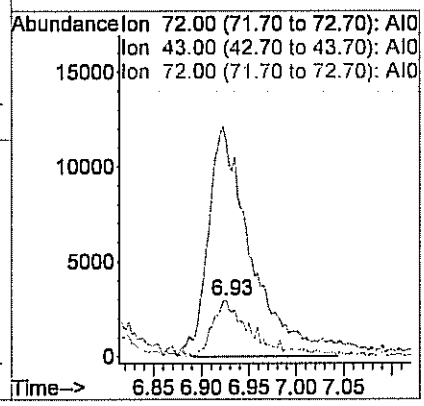


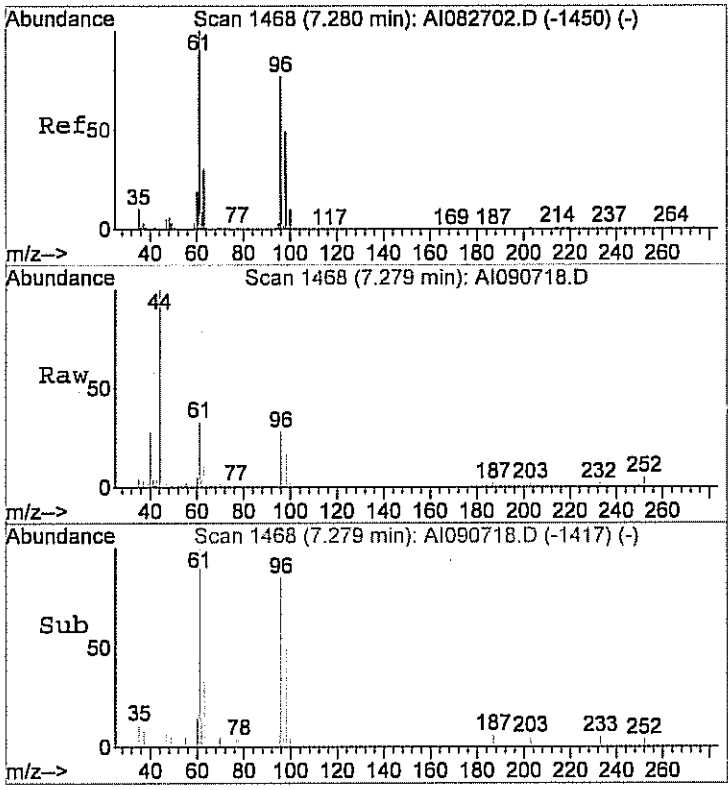


#25
Methyl Ethyl Ketone
Concen: 1.96 ppb
RT: 6.93 min Scan# 1350
Delta R.T. -0.04 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 72 Resp: 8581

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

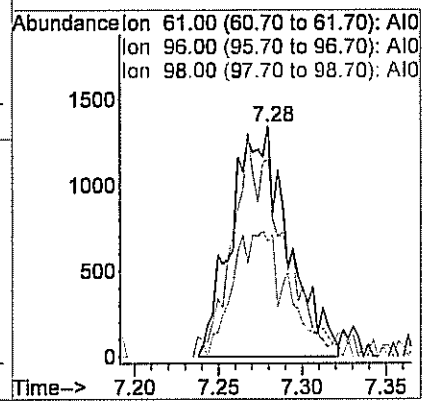


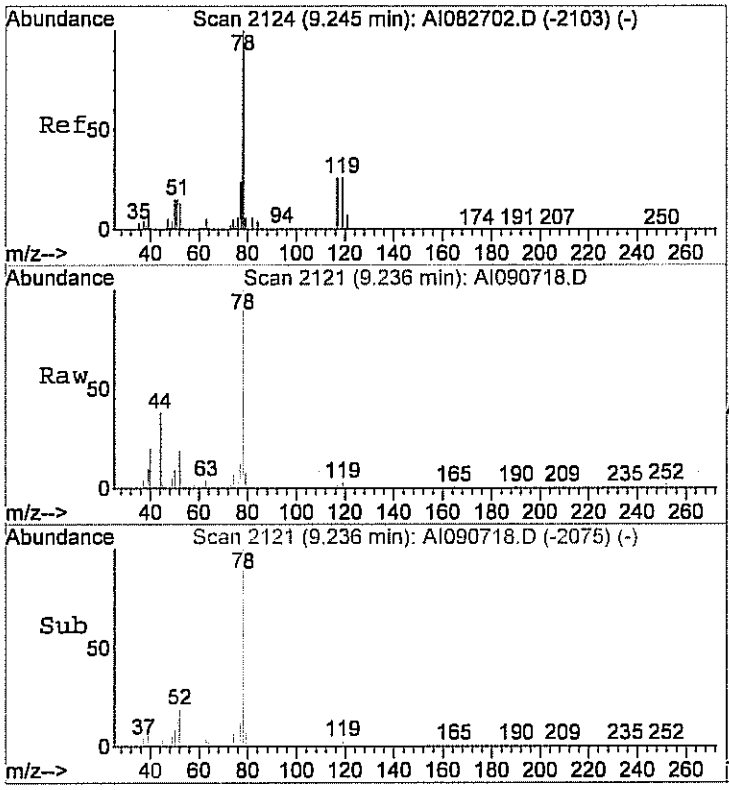


#26
cis-1,2-dichloroethene
Concen: 0.16 ppb
RT: 7.28 min Scan# 1468
Delta R.T. 0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 61 Resp: 3156

Ion	Ratio	Lower	Upper
61	100		
96	86.6	56.6	96.6
98	54.2	30.4	70.4

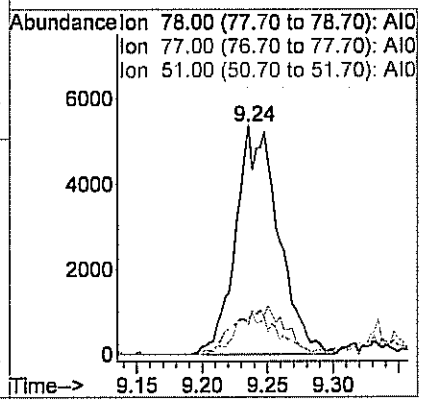


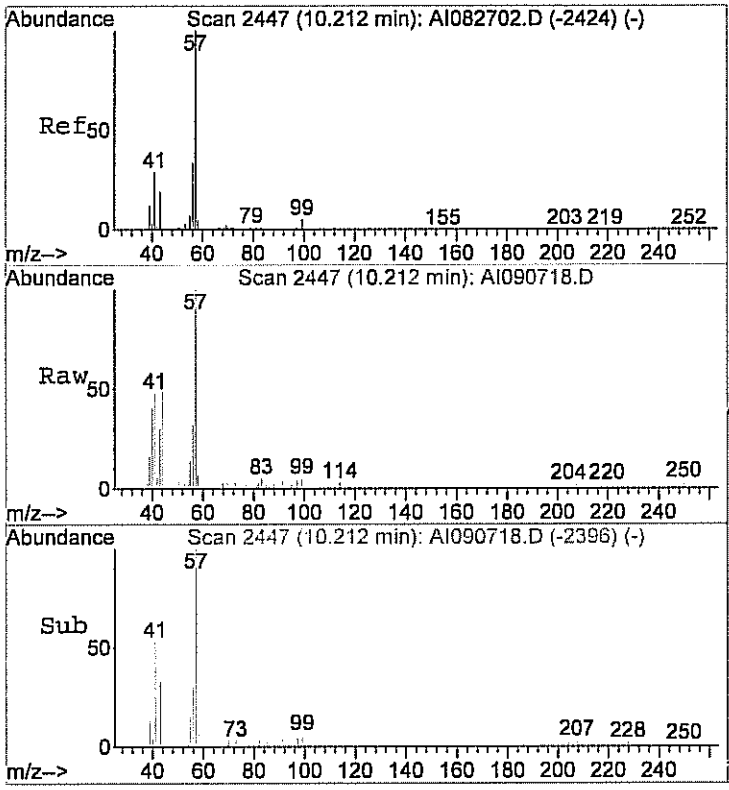


#36
Benzene
Concen: 0.28 ppb
RT: 9.24 min Scan# 2121
Delta R.T. -0.01 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 78 Resp: 12174

Ion	Ratio	Lower	Upper
78	100		
77	23.9	5.2	45.2
51	18.2	0.0	37.6

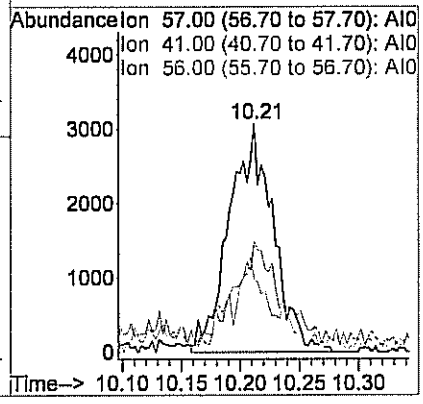


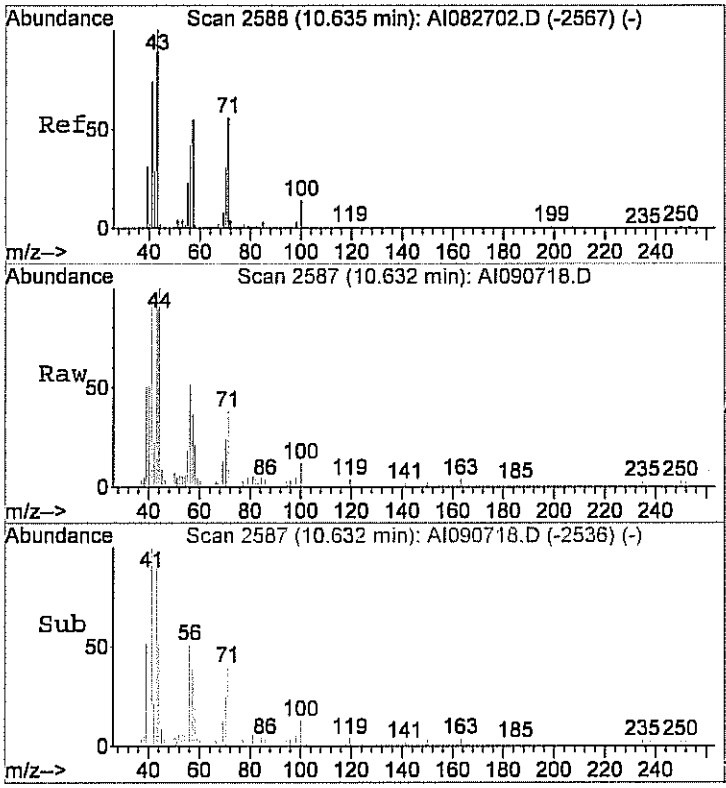


#39
2,2,4-trimethylpentane
Concen: 0.17 ppb
RT: 10.21 min Scan# 2447
Delta R.T. 0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 57 Resp: 7873

Ion	Ratio	Lower	Upper
57	100		
41	57.3	17.9	57.9
56	36.2	13.7	53.7

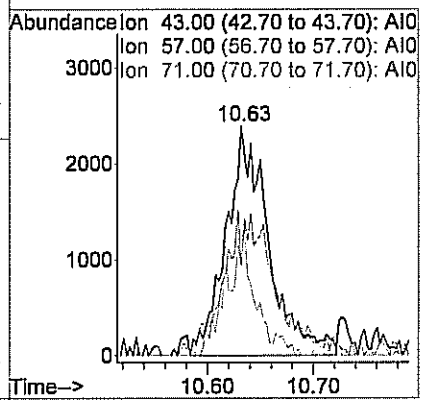


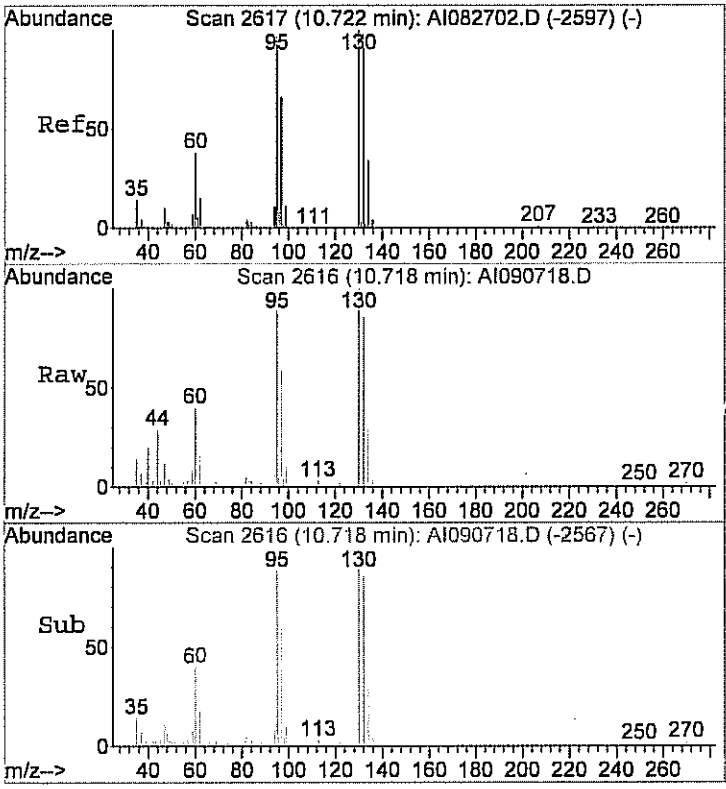


#40
Heptane
Concen: 0.42 ppb
RT: 10.63 min Scan# 2587
Delta R.T. 0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 43 Resp: 6646

Ion	Ratio	Lower	Upper
43	100		
57	76.2	32.1	72.1#
71	37.9	35.5	75.5

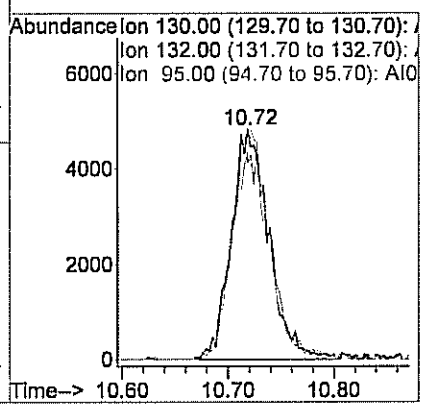


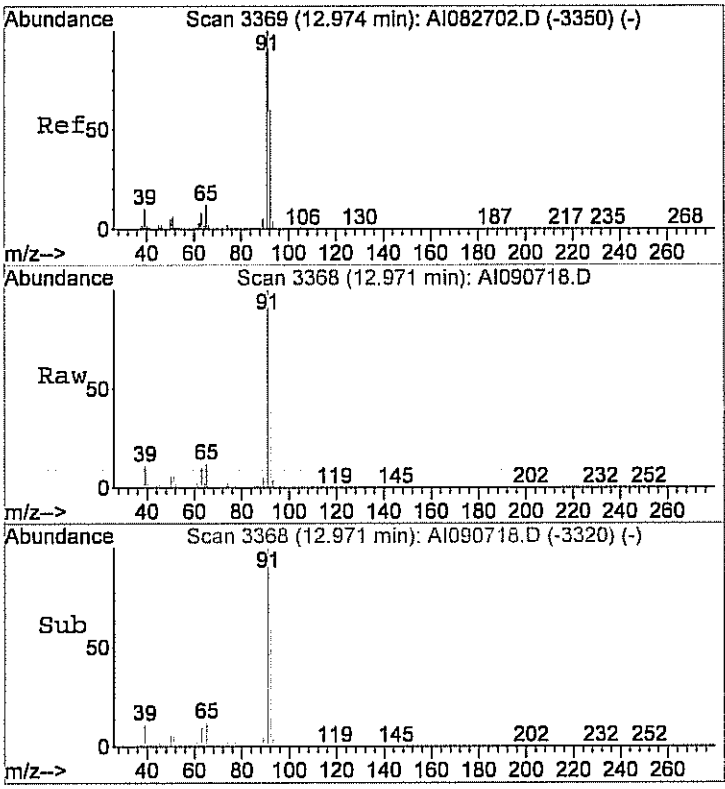


#41
Trichloroethene
Concen: 0.45 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:130 Resp: 11791

Ion	Ratio	Lower	Upper
130	100		
132	96.6	79.0	119.0
95	96.1	76.8	116.8

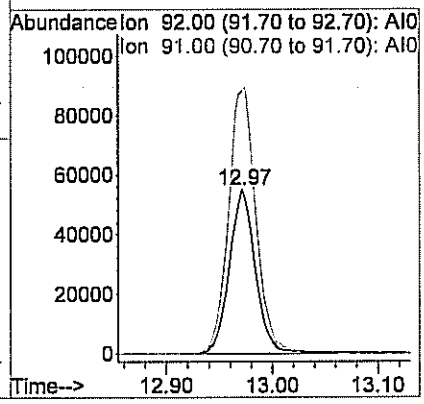


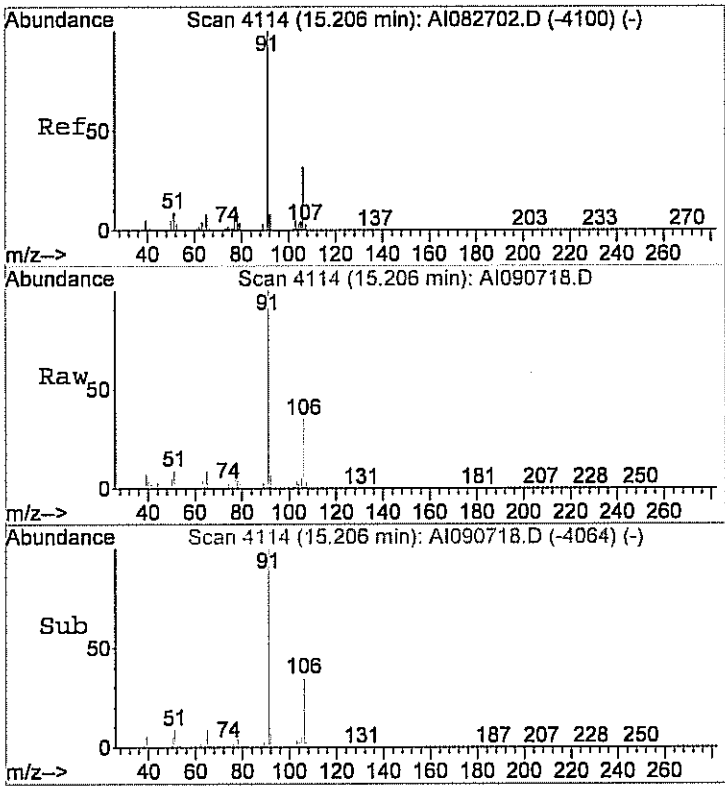


#48
Toluene
Concen: 3.24 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 92 Resp: 94363

Ion	Ratio	Lower	Upper
92	100		
91	172.7	159.8	199.8

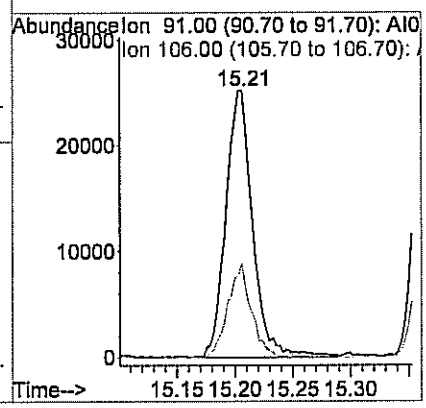


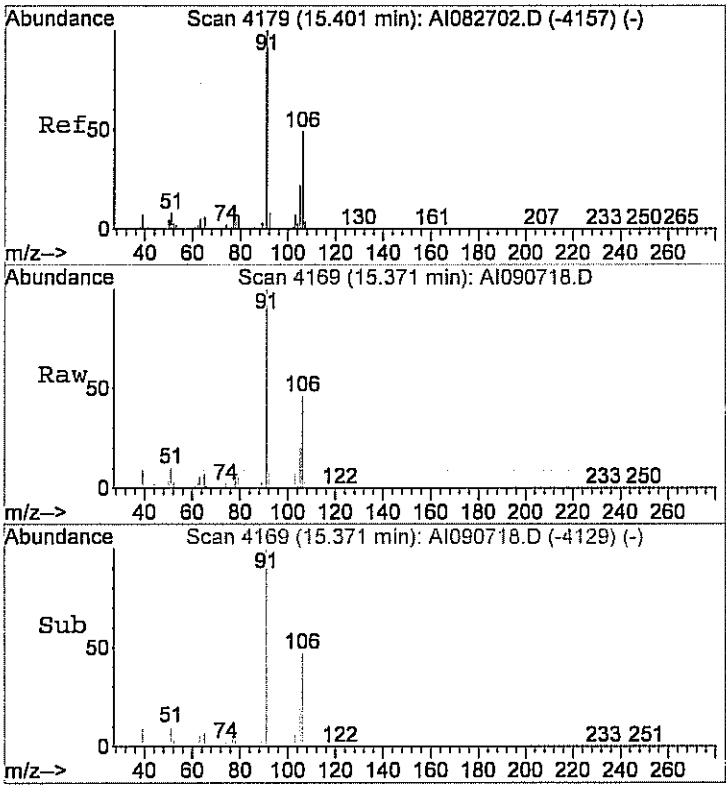


#55
Ethylbenzene
Concen: 0.68 ppb
RT: 15.21 min Scan# 4114
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 91 Resp: 40589

Ion	Ratio	Lower	Upper
91	100		
106	30.5	10.7	50.7

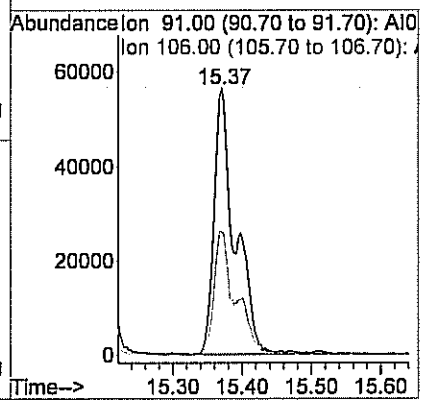


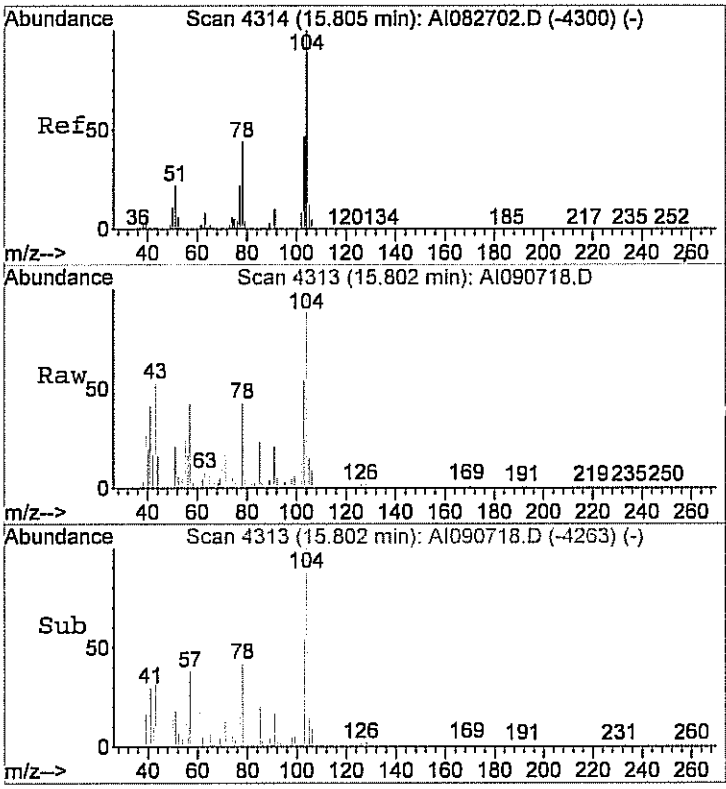


#56
m&p-xylene
Concen: 2.48 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 91 Resp: 120799

Ion	Ratio	Lower	Upper
91	100		
106	47.1	27.5	67.5

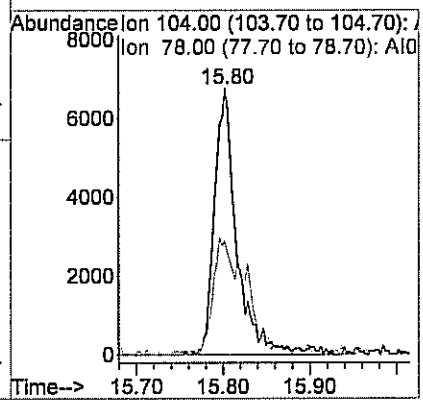


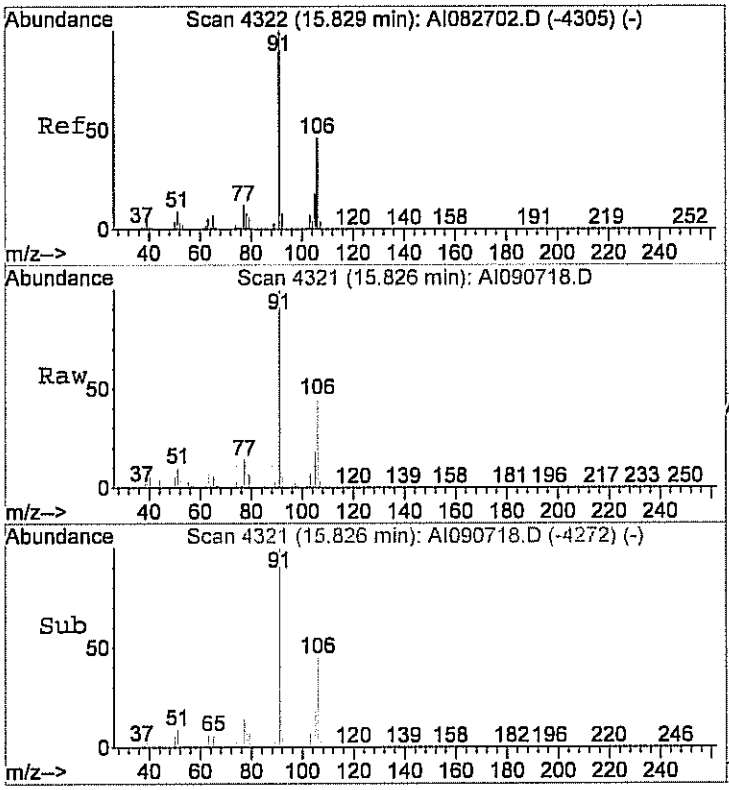


#57
Styrene
Concen: 0.42 ppb
RT: 15.80 min Scan# 4313
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:104 Resp: 12215

Ion	Ratio	Lower	Upper
104	100		
78	63.5	36.7	76.7

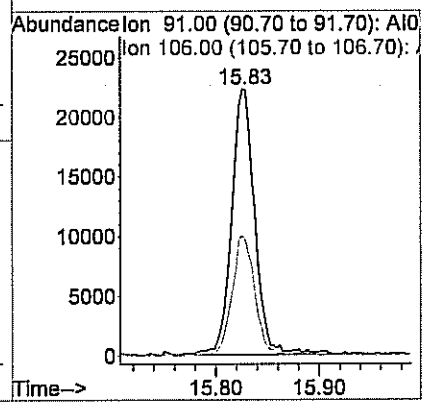


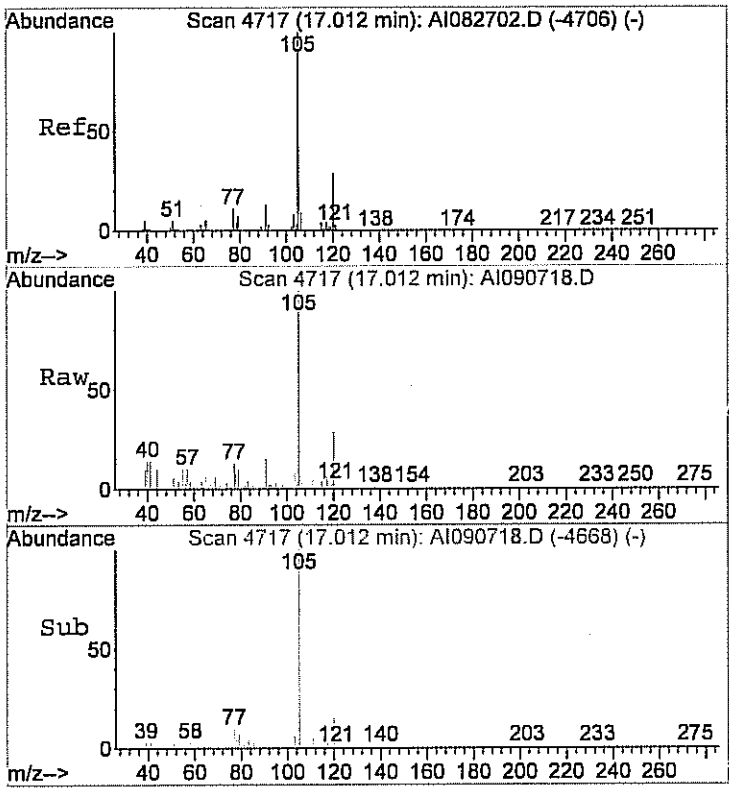


#59
o-xylene
Concen: 0.61 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion: 91 Resp: 34685

Ion	Ratio	Lower	Upper
91	100		
106	46.0	26.2	66.2

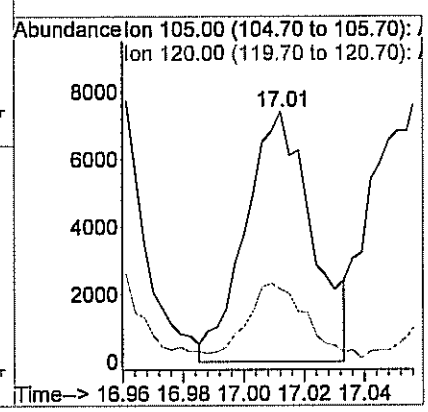


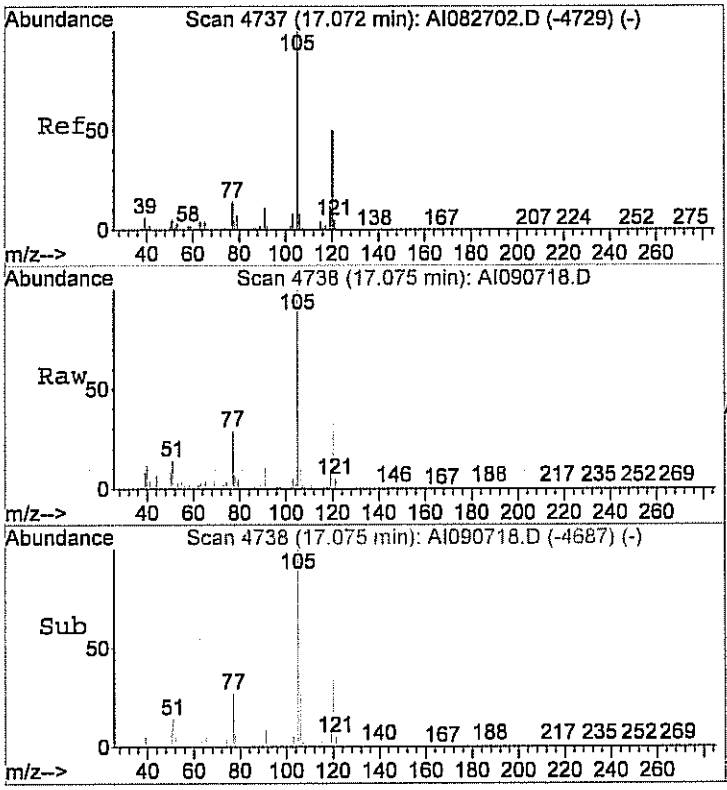


#63
4-ethyltoluene
Concen: 0.24 ppb m
RT: 17.01 min Scan# 4717
Delta R.T. -0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:105 Resp: 11298

Ion	Ratio	Lower	Upper
105	100		
120	58.6	8.1	48.1#

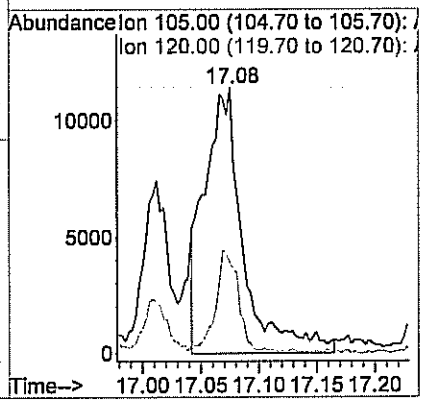


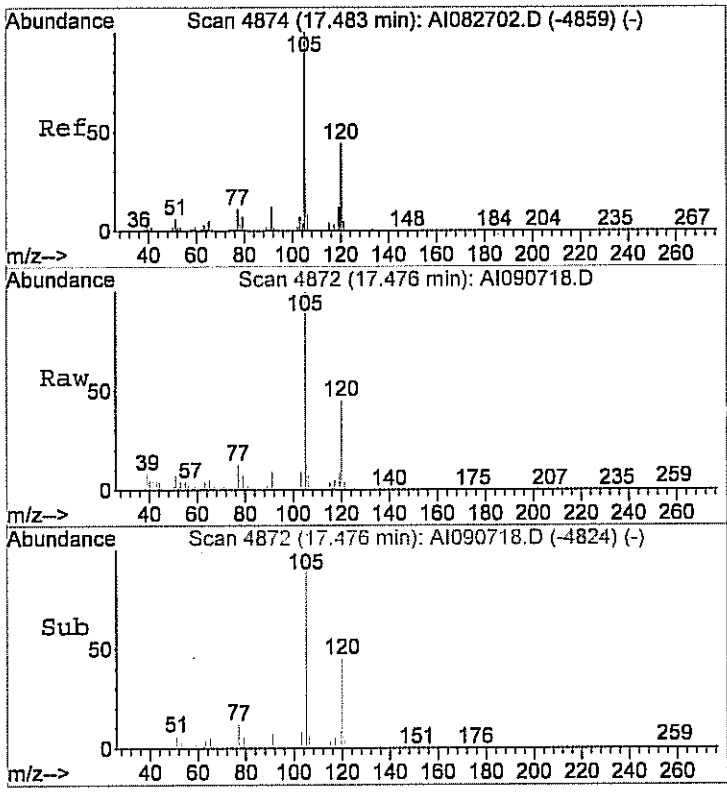


#64
1,3,5-trimethylbenzene
Concen: 0.52 ppb m
RT: 17.08 min Scan# 4738
Delta R.T. 0.00 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:105 Resp: 26481

Ion	Ratio	Lower	Upper
105	100		
120	23.2	26.2	66.2#

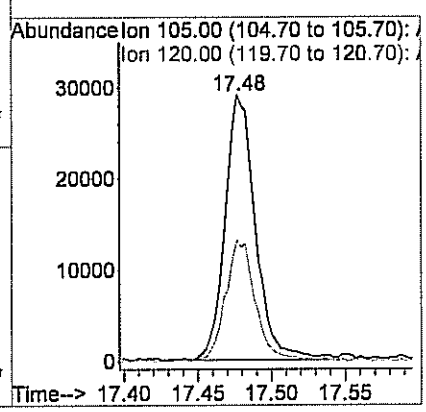




#65
1,2,4-trimethylbenzene
Concen: 1.02 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090718.D
Acq: 7 Sep 2011 8:40 pm

Tgt Ion:105 Resp: 42096

Ion	Ratio	Lower	Upper
105	100		
120	45.1	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090738.D Vial: 58
Acq On : 8 Sep 2011 7:41 am Operator: RJP
Sample : C1108077-012A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 08:02:24 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	12362	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	38108	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	32515	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	18402	1.12	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	8795	2.02	ppb	# 85
15) Isopropyl alcohol	4.47	45	2927m	0.33	ppb	
48) Toluene	12.98	92	4834	0.23	ppb	89

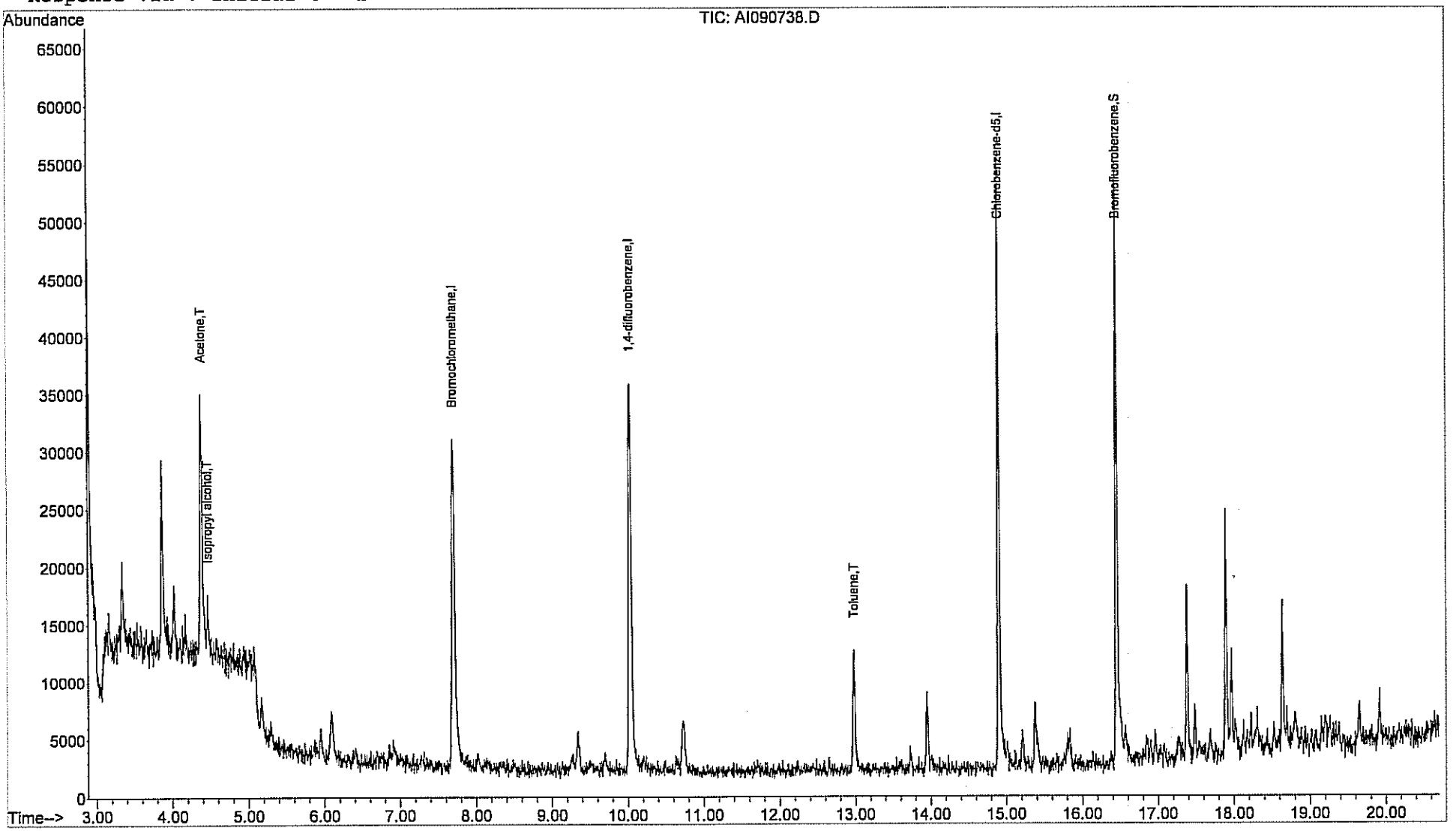
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090738.D
Acq On : 8 Sep 2011 7:41 am
Sample : C1108077-012A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:04 2011

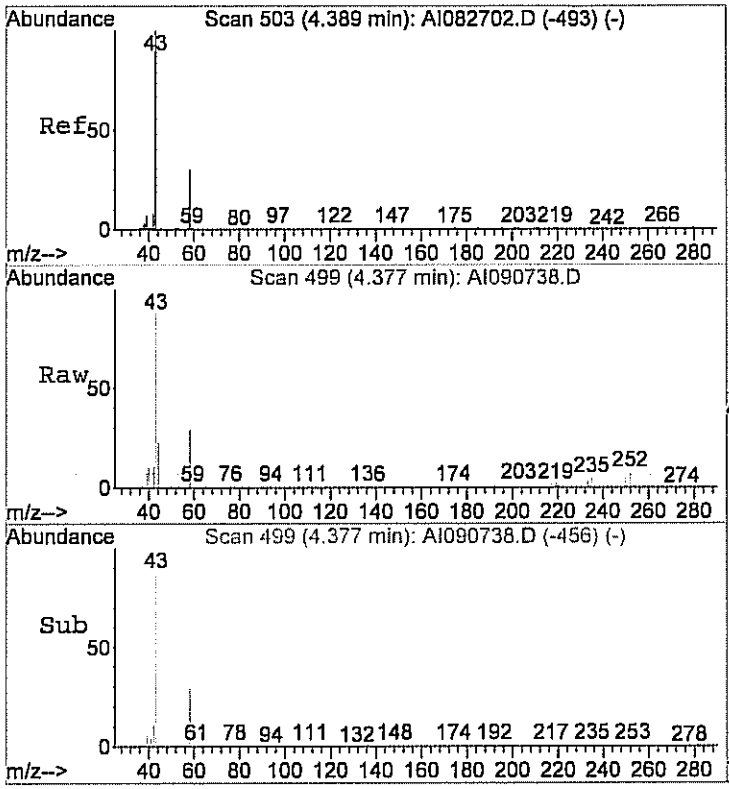
Vial: 58
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



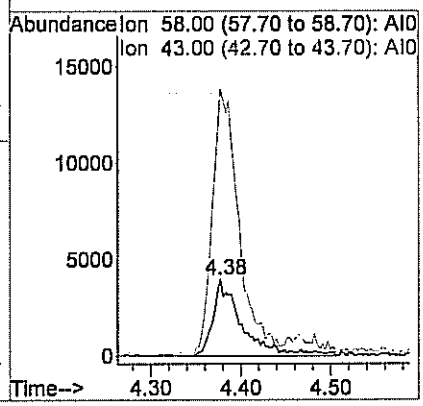
Centek Laboratories, LLC

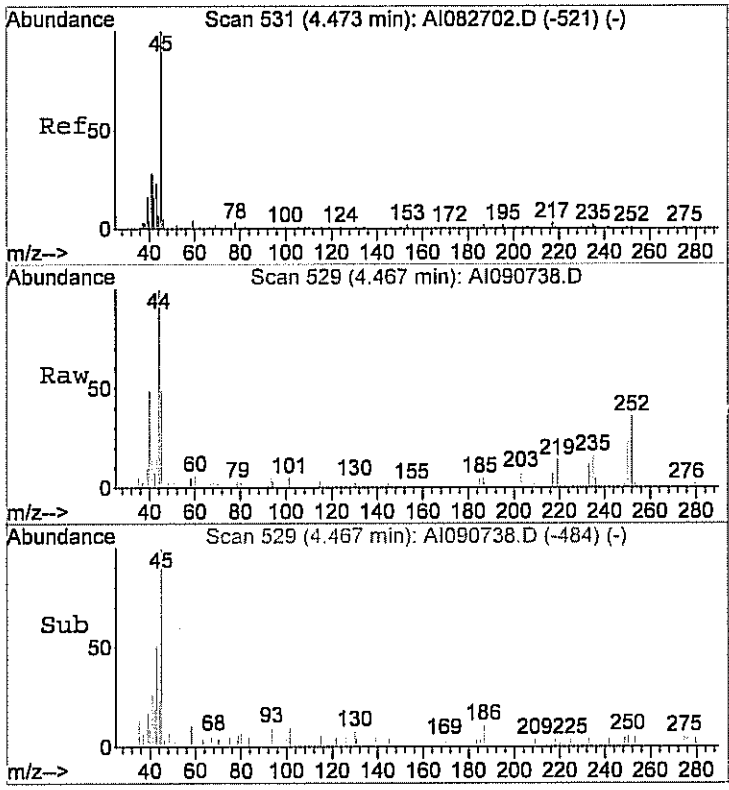


#14
Acetone
Concen: 2.02 ppb
RT: 4.38 min Scan# 499
Delta R.T. -0.02 min
Lab File: AI090738.D
Acq: 8 Sep 2011 7:41 am

Tgt Ion: 58 Resp: 8795

Ion	Ratio	Lower	Upper
58	100		
43	356.6	360.8	420.8#

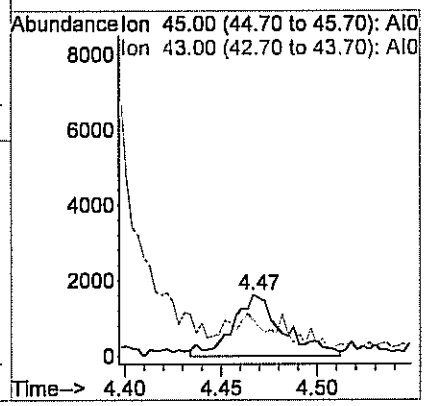


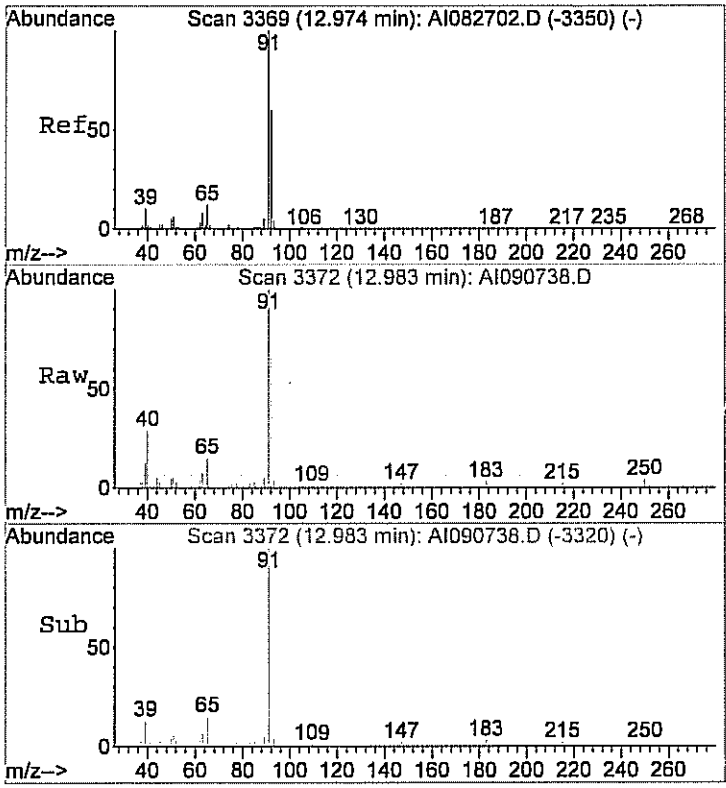


#15
Isopropyl alcohol
Concen: 0.33 ppb m
RT: 4.47 min Scan# 529
Delta R.T. -0.01 min
Lab File: AI090738.D
Acq: 8 Sep 2011 7:41 am

Tgt Ion: 45 Resp: 2927

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

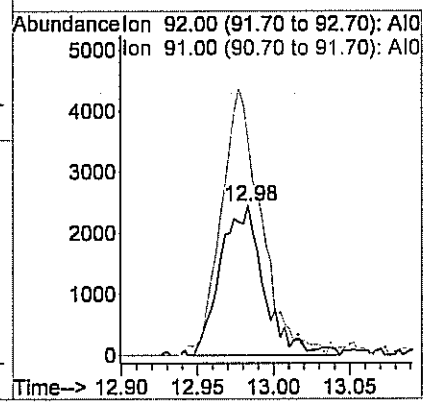




#48
Toluene
Concen: 0.23 ppb
RT: 12.98 min Scan# 3372
Delta R.T. 0.01 min
Lab File: AI090738.D
Acq: 8 Sep 2011 7:41 am

Tgt Ion: 92 Resp: 4834

Ion	Ratio	Lower	Upper
92	100		
91	164.2	159.8	199.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.73	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	0.63	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	0.44	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/7/2011 9:13:00 PM
Acetone	12	3.0		ppbV	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroform	0.87	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.21	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 11	24	1.5		ppbV	10	9/8/2011 8:15:00 AM
Freon 113	0.25	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 12	3.2	1.5		ppbV	10	9/8/2011 8:15:00 AM
Heptane	2.8	1.5		ppbV	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
m&p-Xylene	0.74	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
o-Xylene	0.41	0.15		ppbV	1	9/7/2011 9:13:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	2.0	0.15		ppbV	1	9/7/2011 9:13:00 PM
Toluene	0.58	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Trichloroethene	43	27		ppbV	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT: FPM Group
Lab Order: C1108077
Project: Griffis AFB
Lab ID: C1108077-013A

Client Sample ID: 774776CA01AB
Tag Number: 243,98
Collection Date: 8/23/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.0	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:13:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/7/2011 9:13:00 PM
Acetone	30	7.2		ug/m3	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:13:00 PM
Benzene	4.1	0.49		ug/m3	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:13:00 PM
Chloroform	4.3	0.74		ug/m3	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Freon 11	130	8.6		ug/m3	10	9/8/2011 8:15:00 AM
Freon 113	1.9	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	16	7.5		ug/m3	10	9/8/2011 8:15:00 AM
Heptane	12	6.2		ug/m3	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:13:00 PM
m&p-Xylene	3.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	4.4	0.90		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:13:00 PM
o-Xylene	1.8	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:13:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	6.0	0.45		ug/m3	1	9/7/2011 9:13:00 PM
Toluene	2.2	0.57		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Trichloroethene	240	150		ug/m3	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090719.D Vial: 39
Acq On : 7 Sep 2011 9:13 pm Operator: RJP
Sample : C1108077-013A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 21:34:27 2011 Quant Results File: A826_1UG.RES

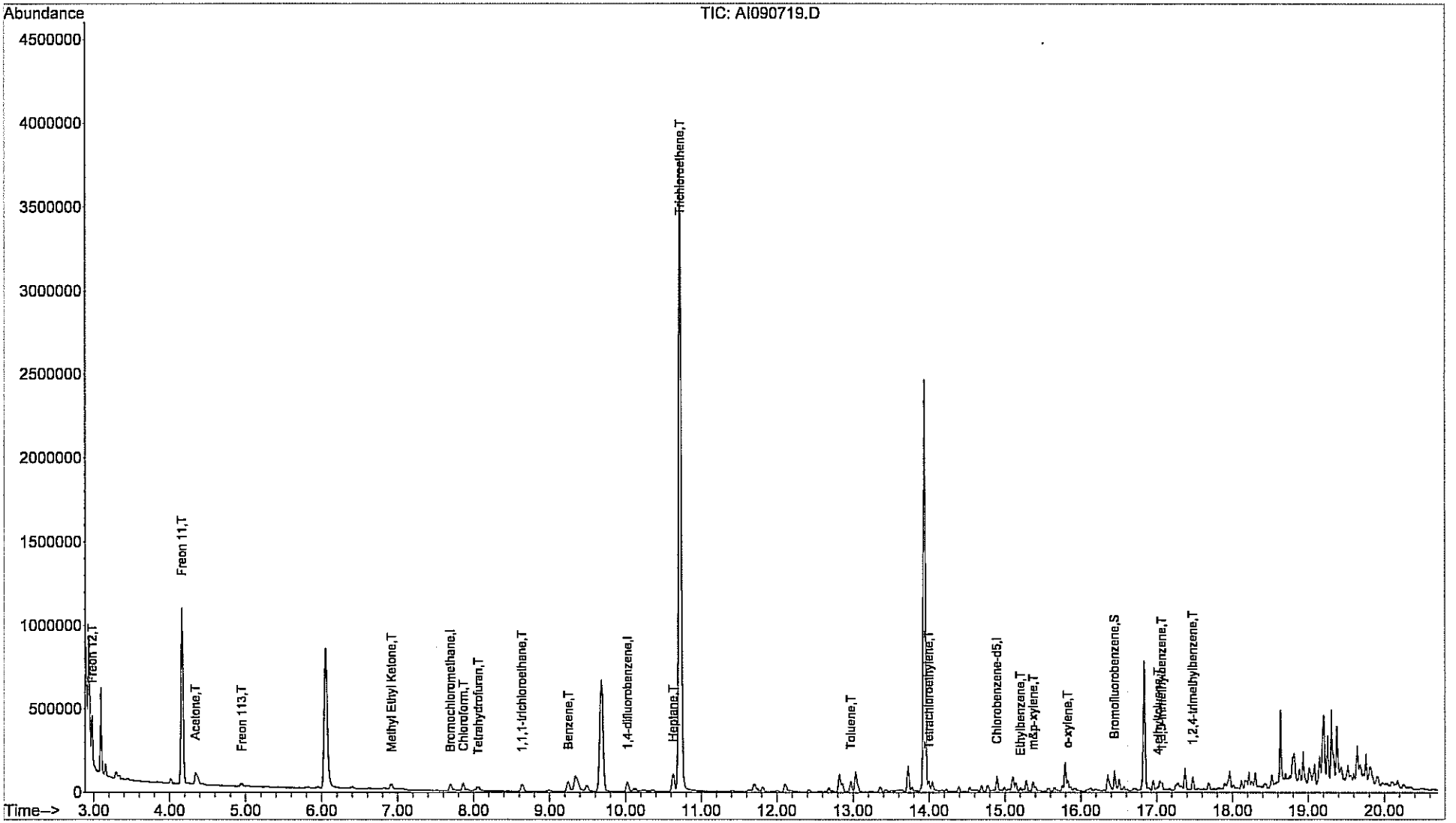
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	14716	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	55597	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	53323	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	33619	1.25	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	155866	2.48	ppb		99
13) Freon 11	4.16	101	870302	17.82	ppb		100
14) Acetone	4.34	58	35460	6.83	ppb	#	79
17) Freon 113	4.94	101	8435	0.25	ppb		99
25) Methyl Ethyl Ketone	6.93	72	7127	1.48	ppb	#	100
29) Chloroform	7.86	83	39472	0.87	ppb		98
30) Tetrahydrofuran	8.06	42	18241m	1.99	ppb		
33) 1,1,1-trichloroethane	8.63	97	30099	0.73	ppb		96
36) Benzene	9.25	78	60529	1.27	ppb		98
40) Heptane	10.63	43	48412	2.78	ppb		97
41) Trichloroethene	10.72	130	1582772	54.49	ppb		99
48) Toluene	12.97	92	20297	0.58	ppb		98
53) Tetrachloroethylene	14.00	164	12742	0.35	ppb		94
55) Ethylbenzene	15.20	91	14654	0.21	ppb		99
56) m&p-xylene	15.37	91	43016	0.74	ppb		98
59) o-xylene	15.83	91	27805	0.41	ppb		99
63) 4-ethyltoluene	17.01	105	11190m	0.20	ppb		
64) 1,3,5-trimethylbenzene	17.07	105	26631m	0.44	ppb		
65) 1,2,4-trimethylbenzene	17.48	105	30995	0.63	ppb		99

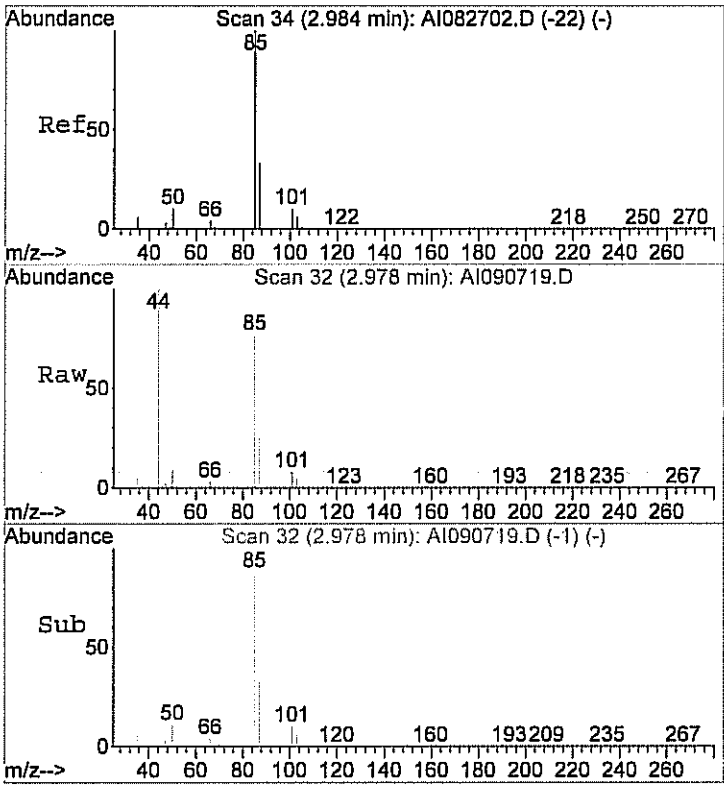
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090719.D Vial: 39
Acq On : 7 Sep 2011 9:13 pm Operator: RJP
Sample : C1108077-013A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:29 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



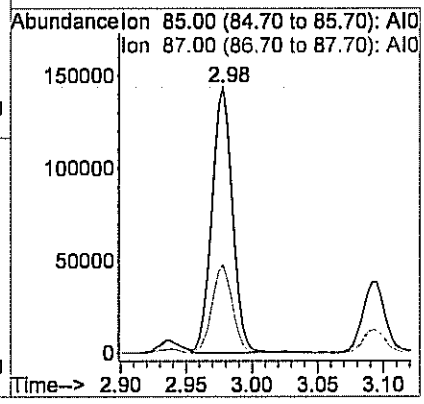
Page 368 of 560
Centek Laboratories, LLC

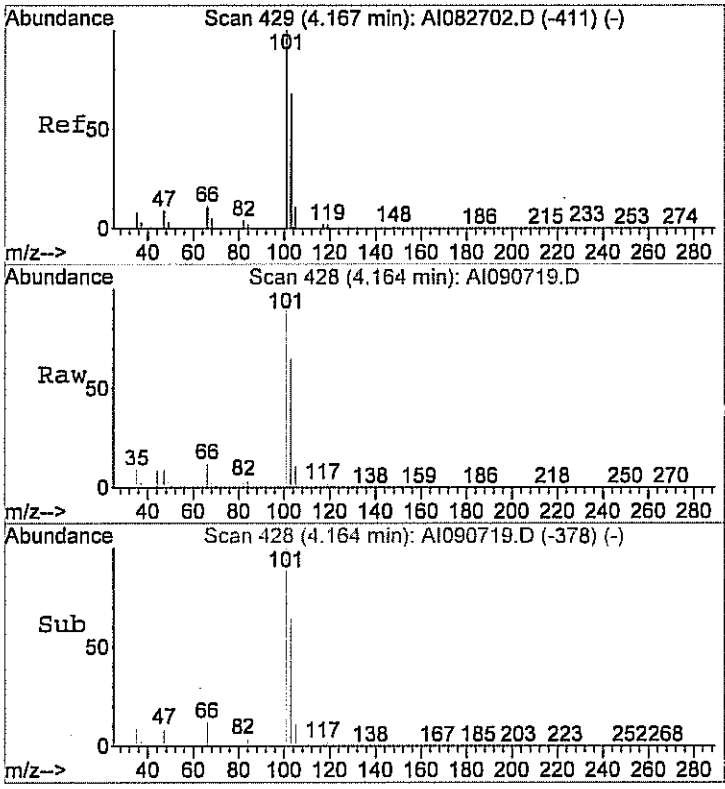


#3
Freon 12
Concen: 2.48 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 85 Resp: 155866

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

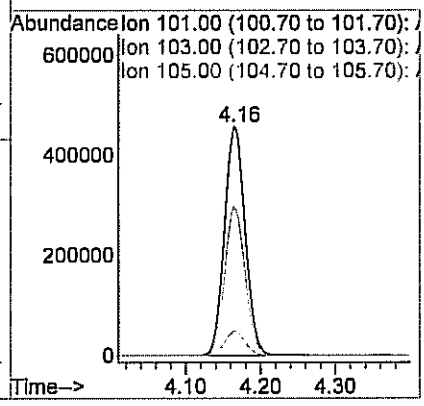


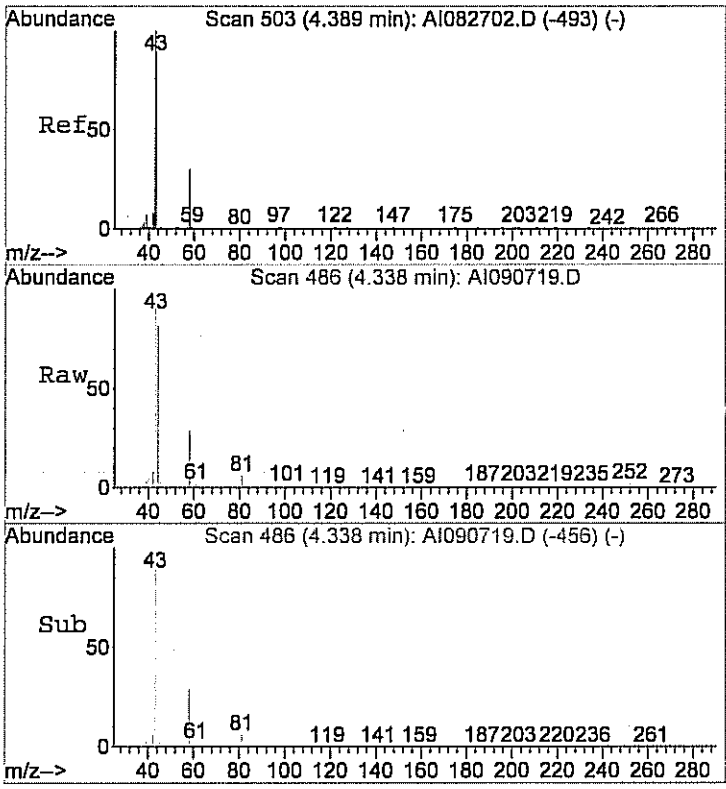


#13
Freon 11
Concen: 17.82 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:101 Resp: 870302

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.9	84.9
105	10.6	0.0	30.9

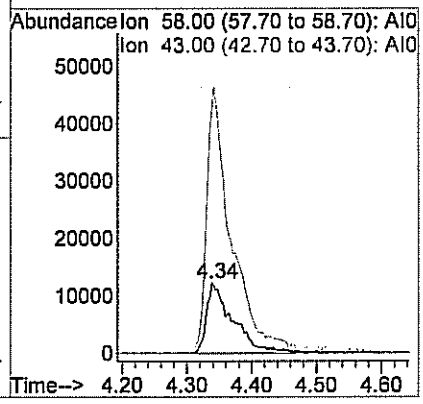


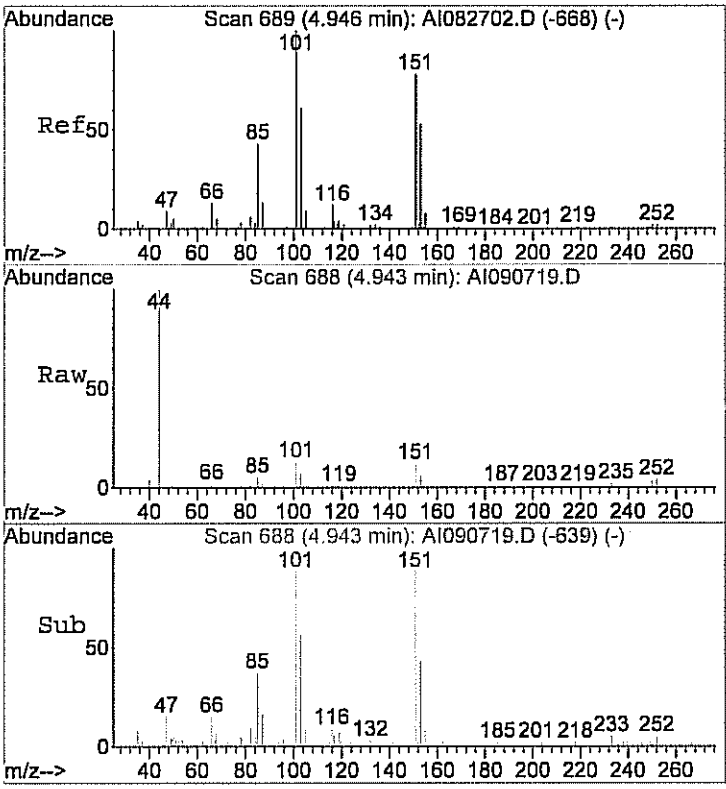


#14
Acetone
Concen: 6.83 ppb
RT: 4.34 min Scan# 486
Delta R.T. -0.06 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 58 Resp: 35460

Ion	Ratio	Lower	Upper
58	100		
43	341.2	360.8	420.8#

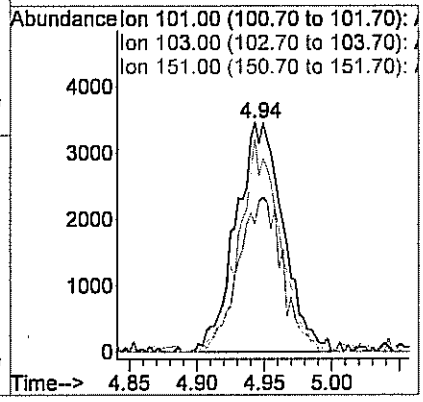


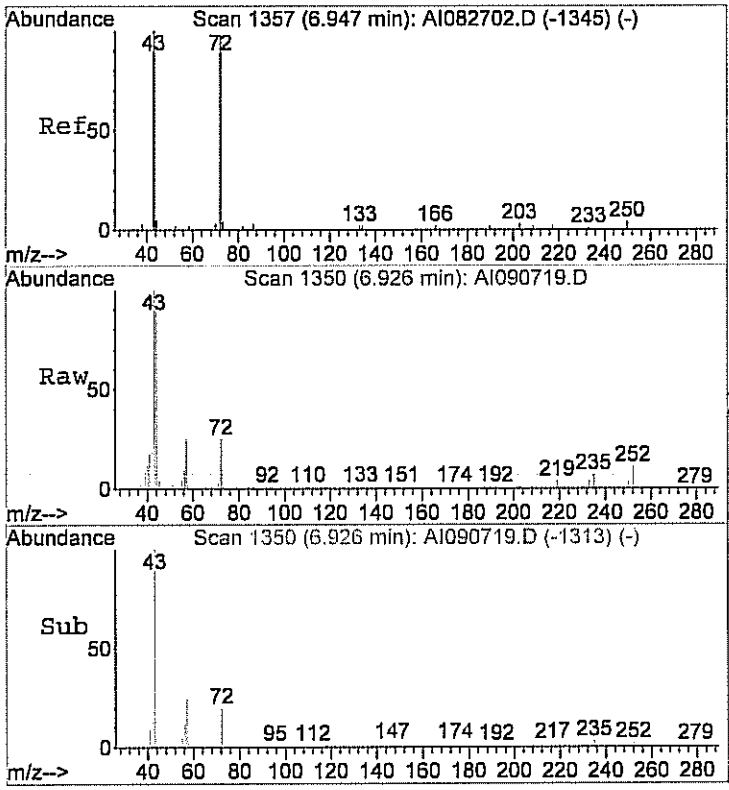


#17
Freon 113
Concen: 0.25 ppb
RT: 4.94 min Scan# 688
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:101 Resp: 8435

Ion	Ratio	Lower	Upper
101	100		
103	63.3	44.3	84.3
151	81.2	61.0	101.0

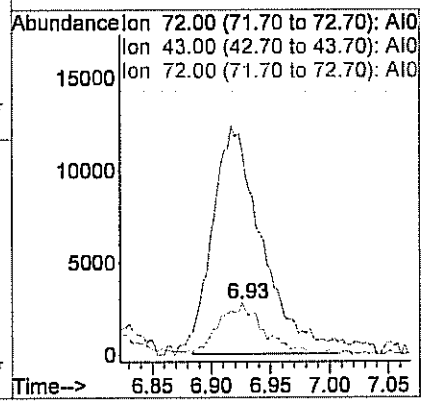


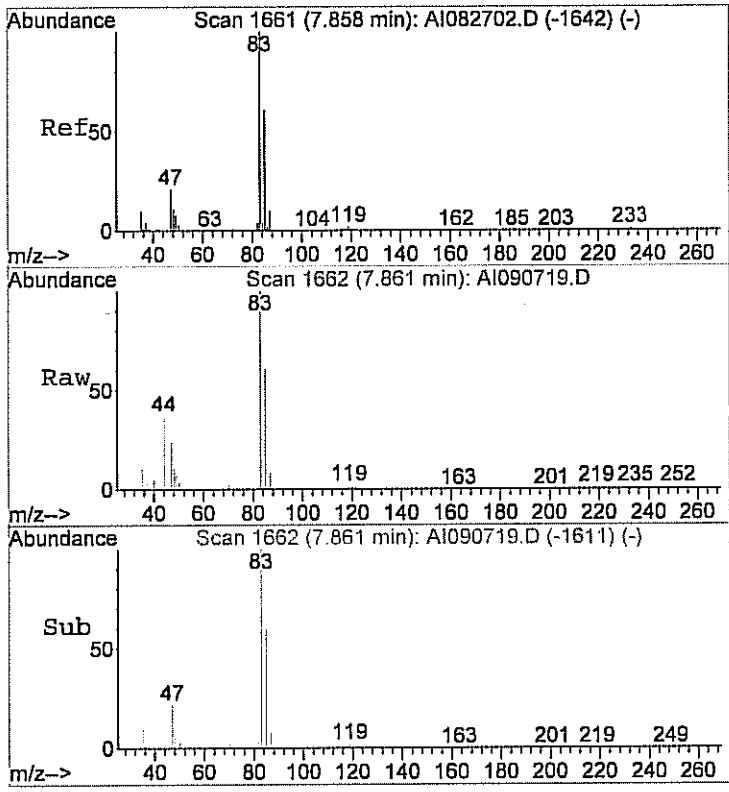


#25
Methyl Ethyl Ketone
Concen: 1.48 ppb
RT: 6.93 min Scan# 1350
Delta R.T. -0.04 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 72 Resp: 7127

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

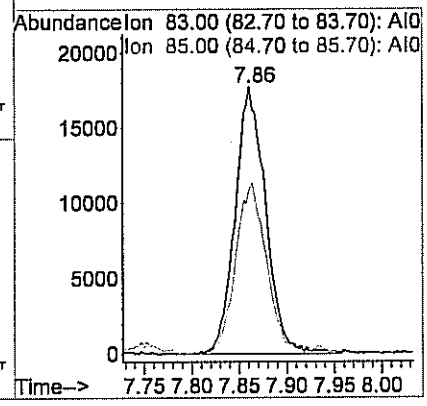


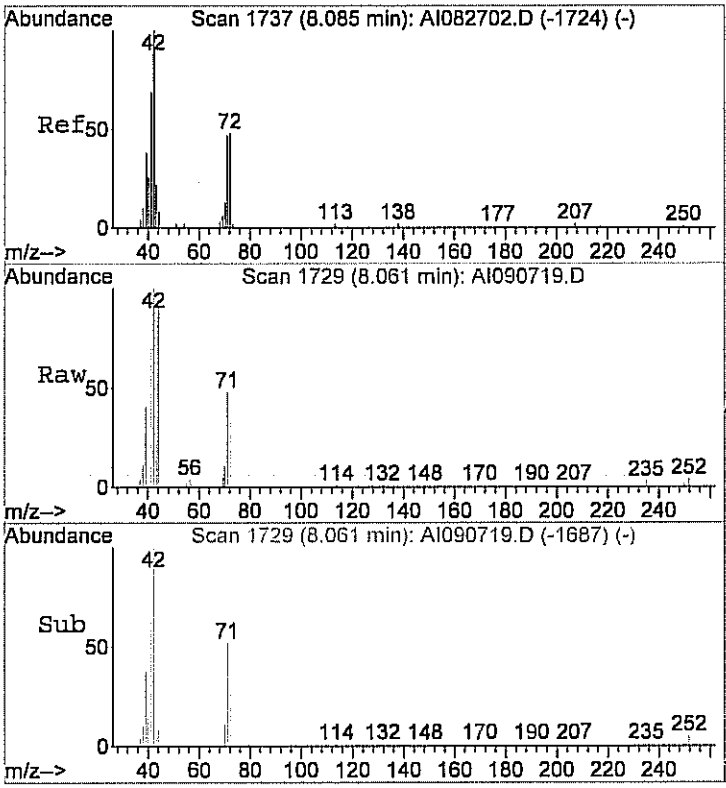


#29
Chloroform
Concen: 0.87 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 83 Resp: 39472

Ion	Ratio	Lower	Upper
83	100		
85	66.8	45.0	85.0

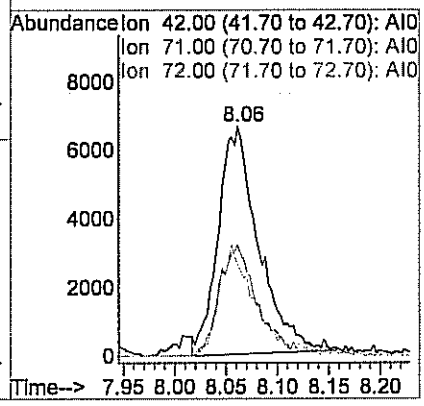


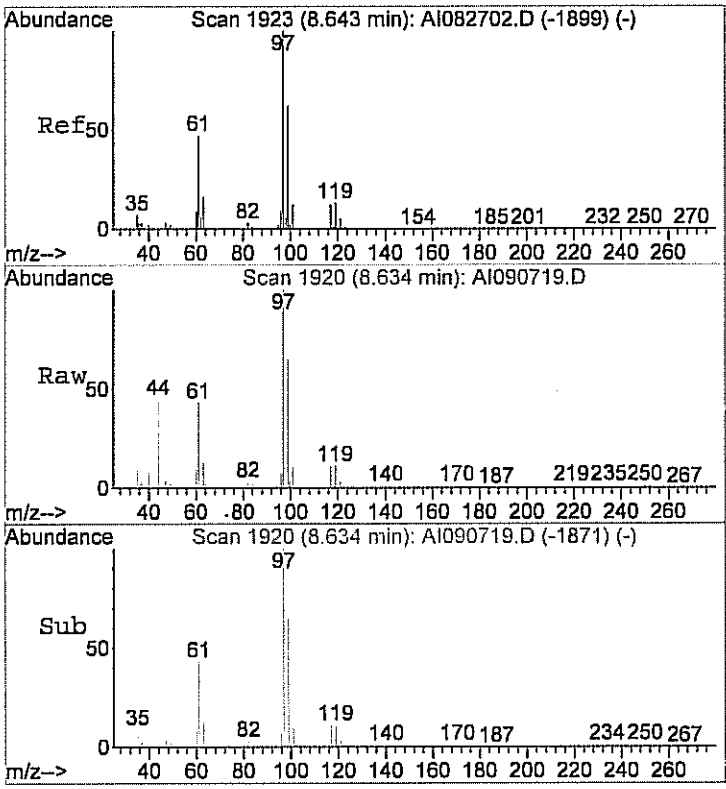


#30
Tetrahydrofuran
Concen: 1.99 ppb m
RT: 8.06 min Scan# 1729
Delta R.T. -0.02 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 42 Resp: 18241

Ion	Ratio	Lower	Upper
42	100		
71	48.3	24.6	64.6
72	44.1	26.5	66.5

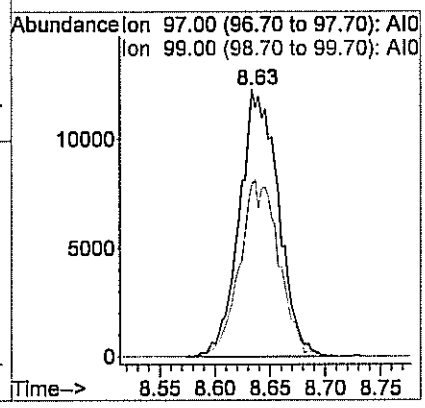


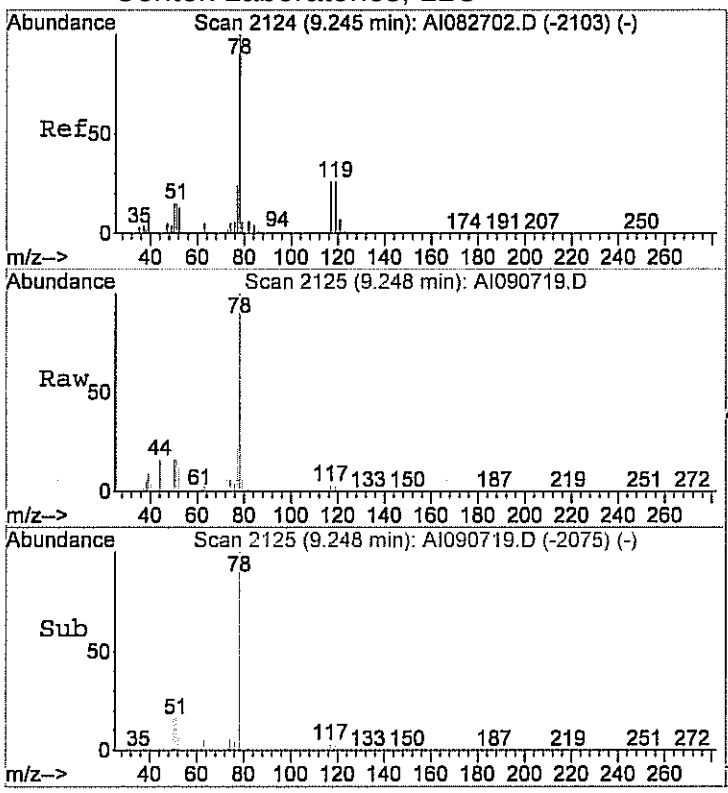


#33
1,1,1-trichloroethane
Concen: 0.73 ppb
RT: 8.63 min Scan# 1920
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 97 Resp: 30099

Ion	Ratio	Lower	Upper
97	100		
99	66.9	43.8	83.8

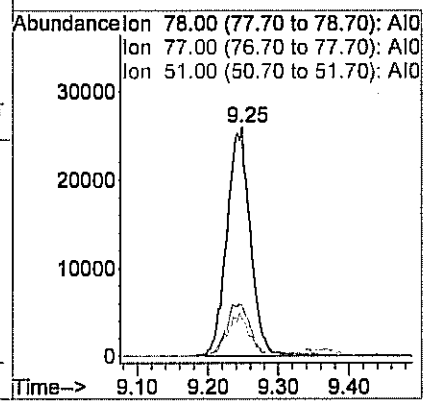


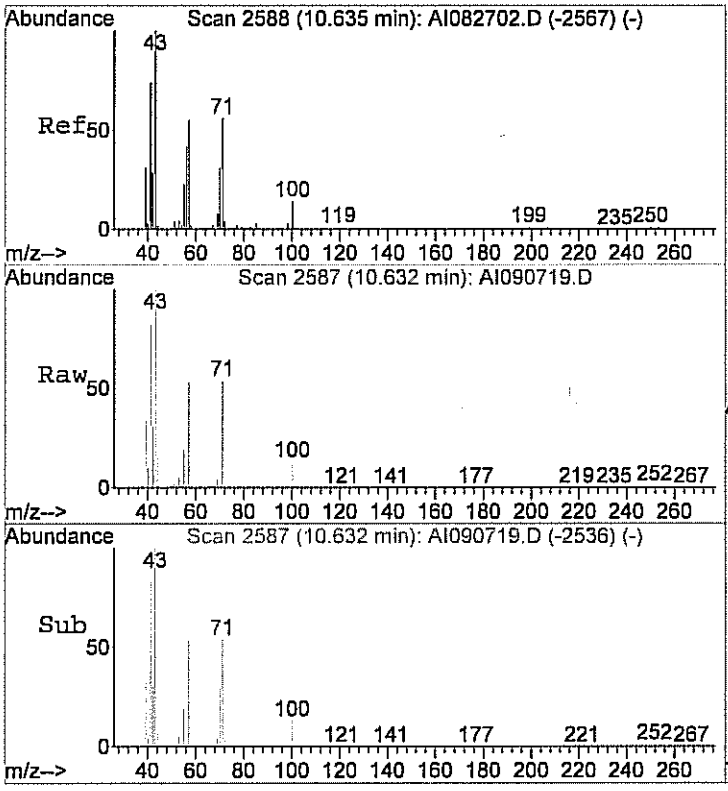


#36
Benzene
Concen: 1.27 ppb
RT: 9.25 min Scan# 2125
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 78 Resp: 60529

Ion	Ratio	Lower	Upper
78	100		
77	23.7	5.2	45.2
51	17.9	0.0	37.6

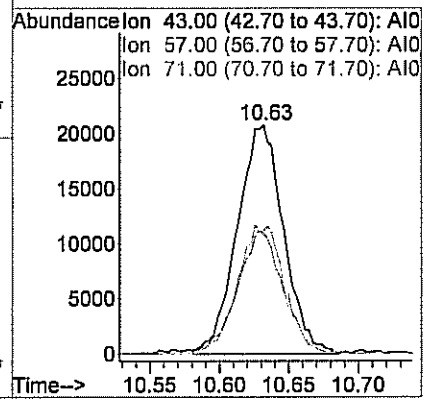


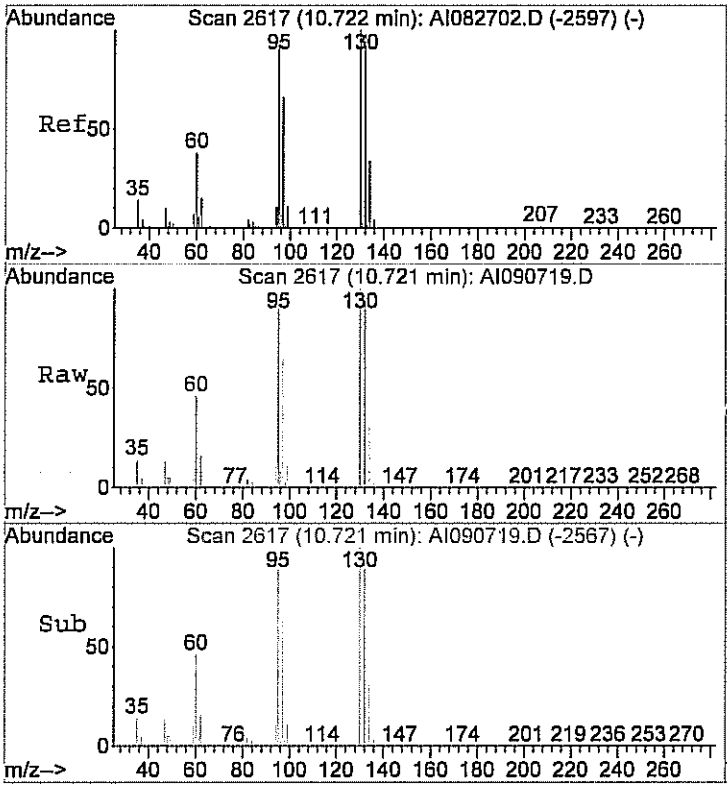


#40
Heptane
Concen: 2.78 ppb
RT: 10.63 min Scan# 2587
Delta R.T. 0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 43 Resp: 48412

Ion	Ratio	Lower	Upper
43	100		
57	54.1	32.1	72.1
71	57.0	35.5	75.5

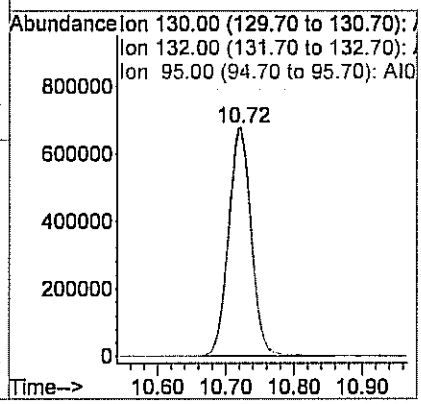


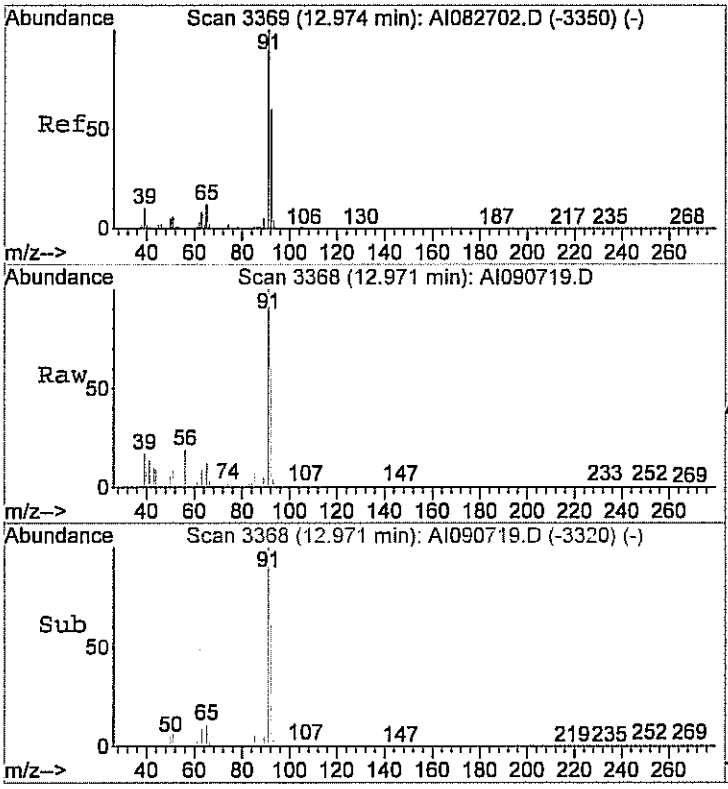


#41
Trichloroethene
Concen: 54.49 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:130 Resp: 1582772

Ion	Ratio	Lower	Upper
130	100		
132	97.1	79.0	119.0
95	97.6	76.8	116.8

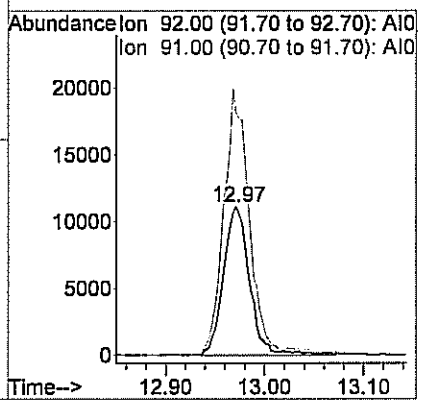


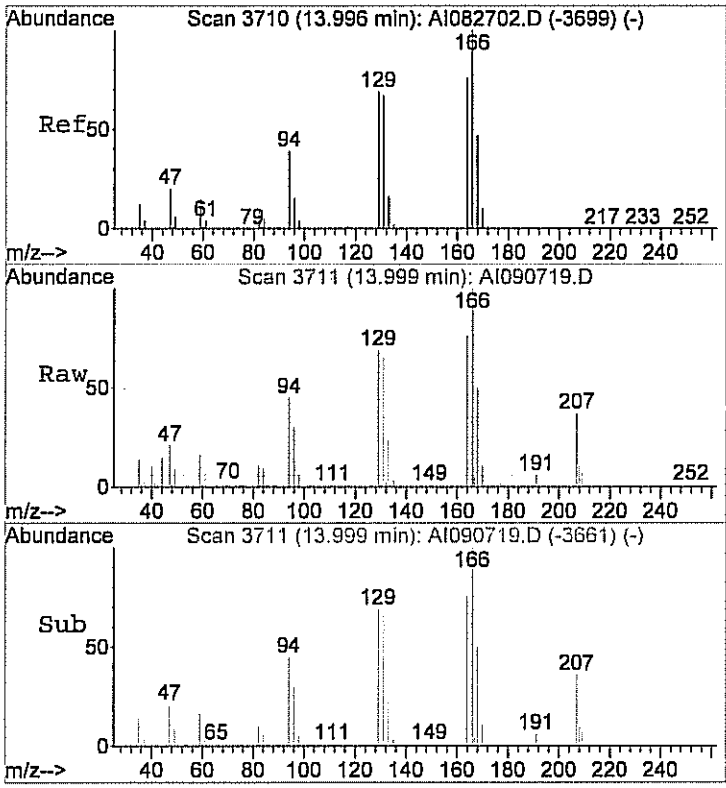


#48
Toluene
Concen: 0.58 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 92 Resp: 20297

Ion	Ratio	Lower	Upper
92	100		
91	177.6	159.8	199.8

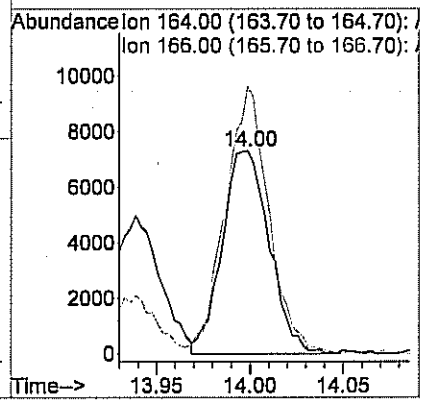


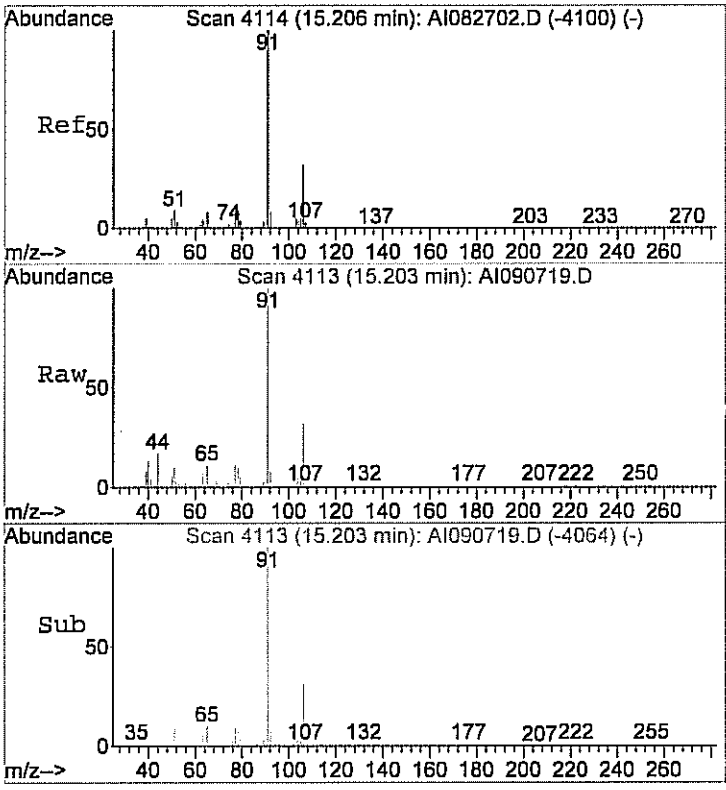


#53
Tetrachloroethylene
Concen: 0.35 ppb
RT: 14.00 min Scan# 3711
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:164 Resp: 12742

Ion	Ratio	Lower	Upper
164	100		
166	121.9	109.4	149.4

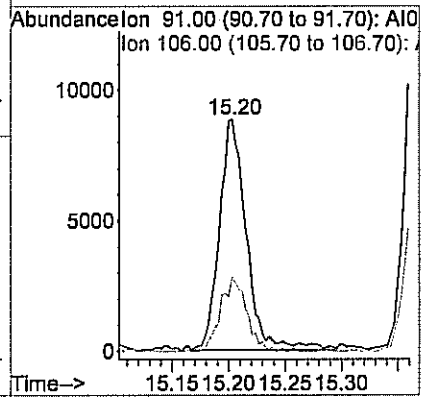


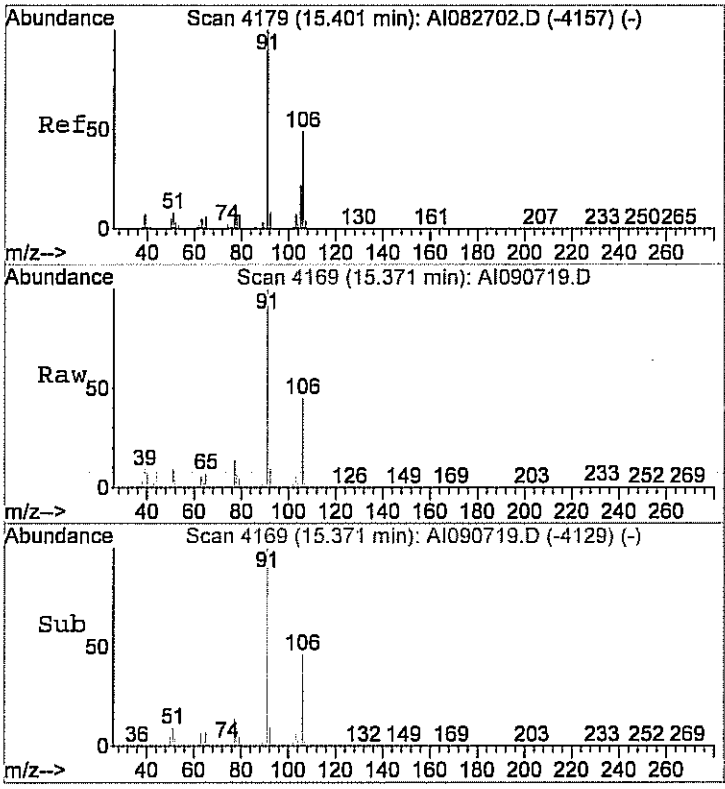


#55
Ethylbenzene
Concen: 0.21 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 91 Resp: 14654

Ion	Ratio	Lower	Upper
91	100		
106	31.0	10.7	50.7

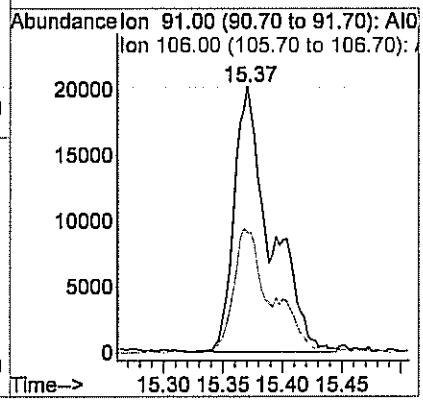


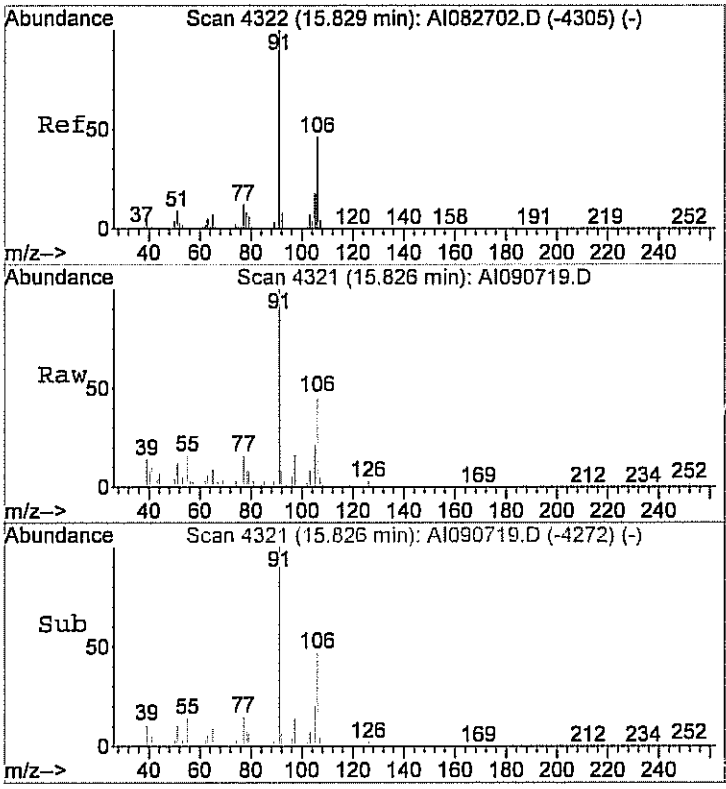


#56
m&p-xylene
Concen: 0.74 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 91 Resp: 43016

Ion	Ratio	Lower	Upper
91	100		
106	49.1	27.5	67.5

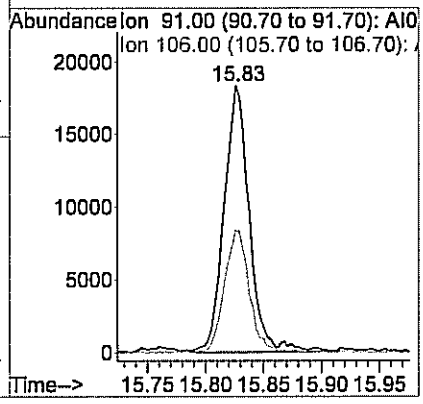


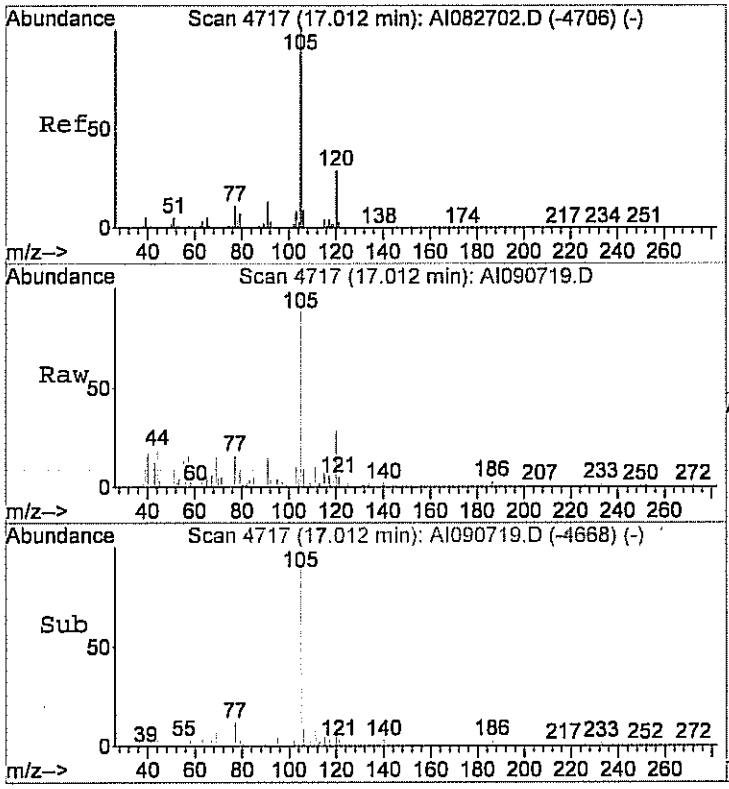


#59
o-xylene
Concen: 0.41 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion: 91 Resp: 27805

Ion	Ratio	Lower	Upper
91	100		
106	45.7	26.2	66.2

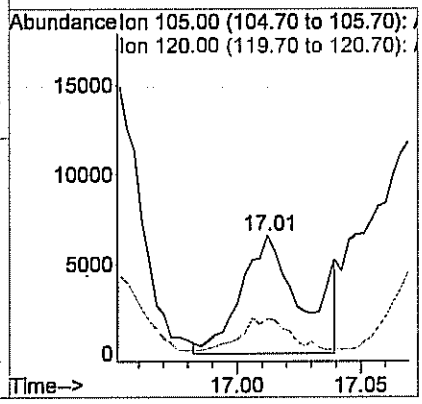


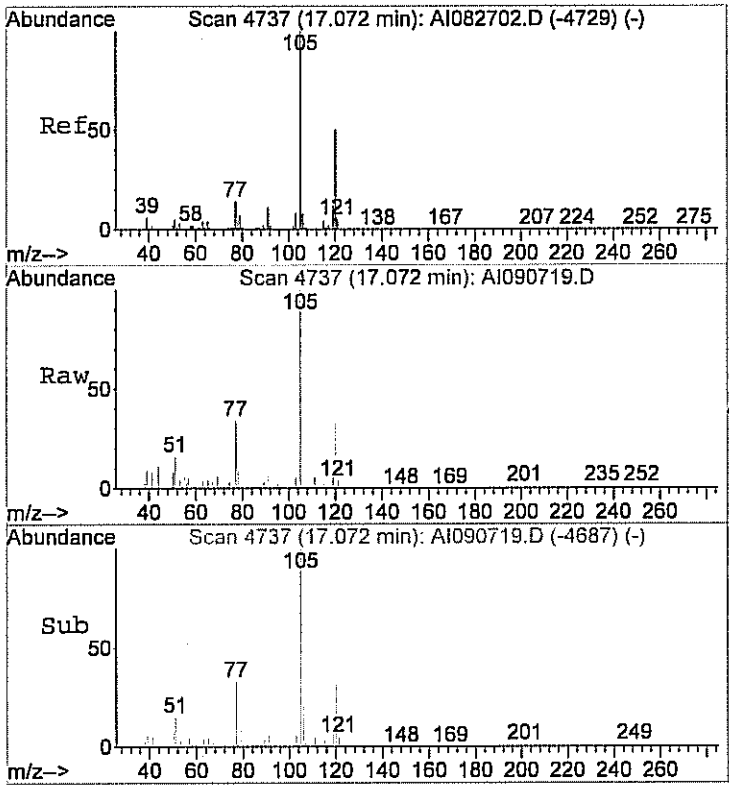


#63
4-ethyltoluene
Concen: 0.20 ppb m
RT: 17.01 min Scan# 4717
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:105 Resp: 11190

Ion	Ratio	Lower	Upper
105	100		
120	27.1	8.1	48.1

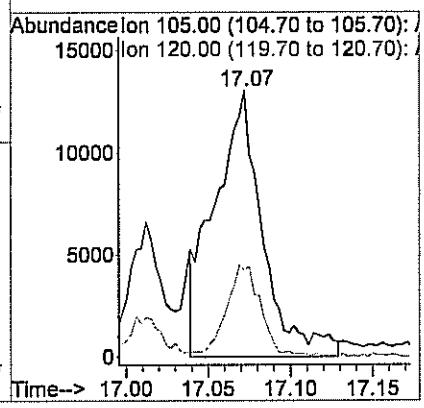


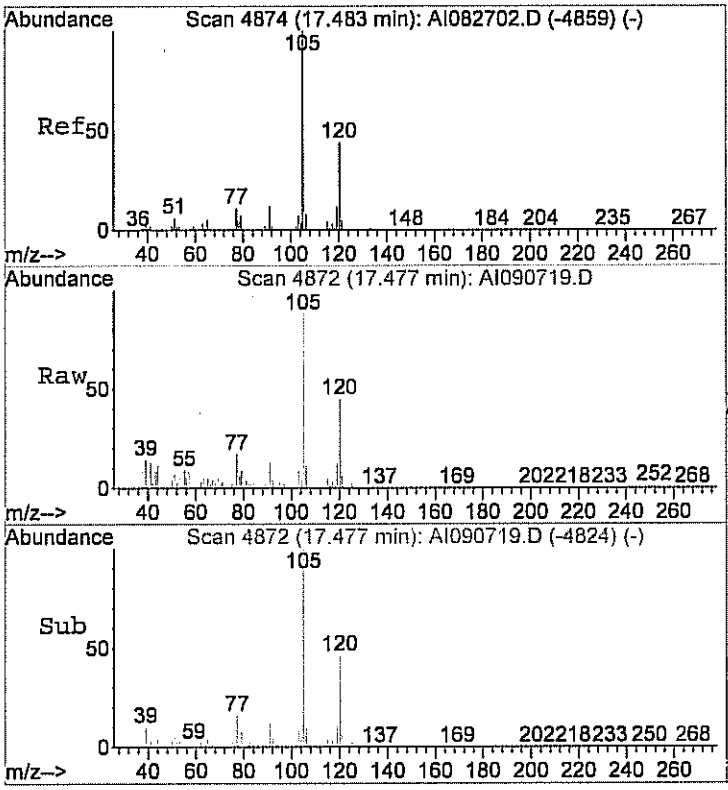


#64
1,3,5-trimethylbenzene
Concen: 0.44 ppb m
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:105 Resp: 26631

Ion	Ratio	Lower	Upper
105	100		
120	10.6	26.2	66.2#

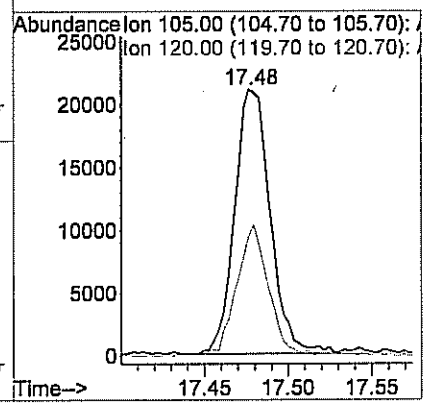




#65
1,2,4-trimethylbenzene
Concen: 0.63 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090719.D
Acq: 7 Sep 2011 9:13 pm

Tgt Ion:105 Resp: 30995

Ion	Ratio	Lower	Upper
105	100		
120	45.5	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090739.D Vial: 59
Acq On : 8 Sep 2011 8:15 am Operator: RJP
Sample : C1108077-013A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 08:36:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

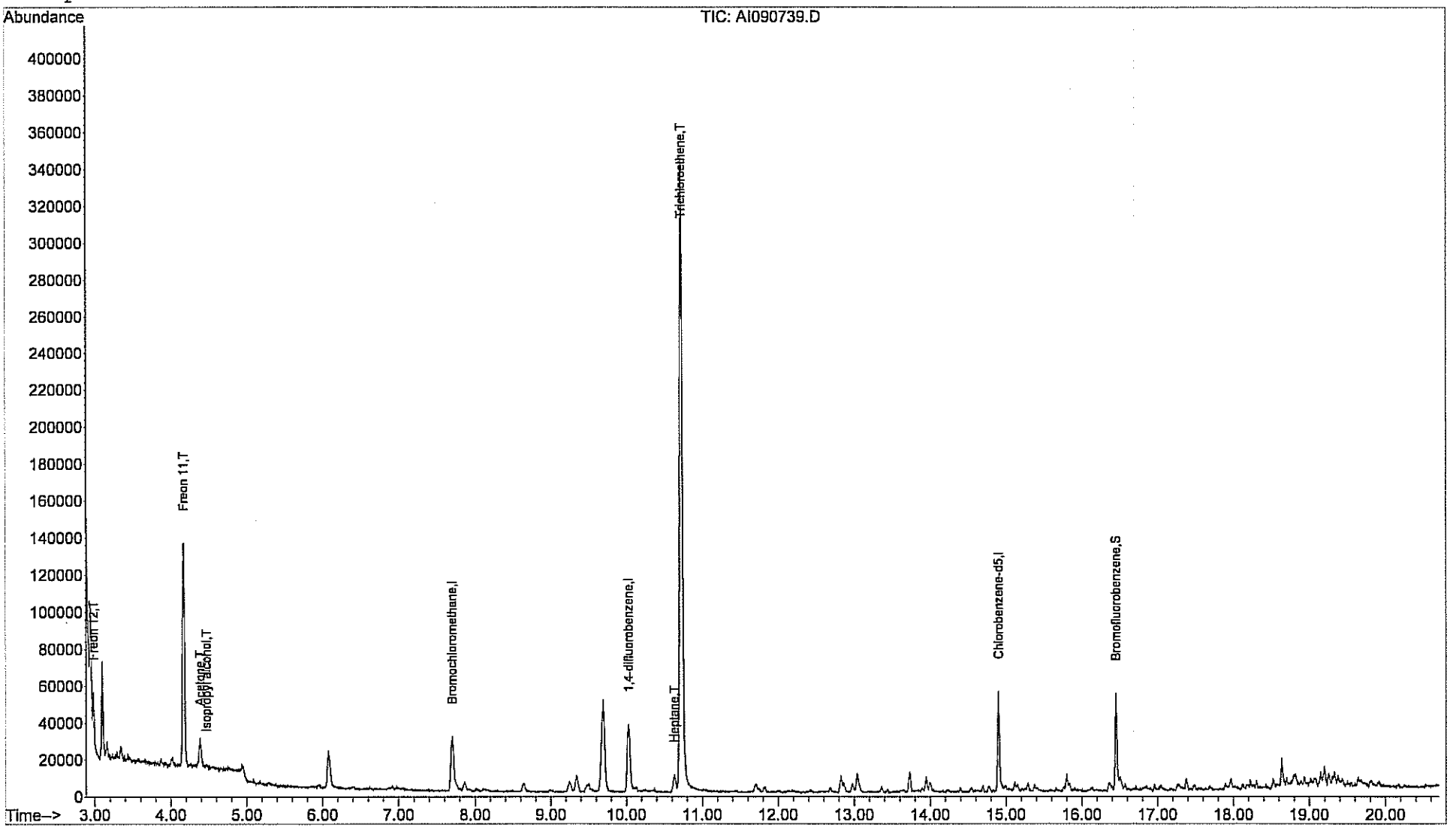
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	12066	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	40703	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	33530	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	16984	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	16472	0.32	ppb		99
13) Freon 11	4.16	101	94042	2.35	ppb		99
14) Acetone	4.39	58	5267	1.24	ppb		92
15) Isopropyl alcohol	4.46	45	1801	0.21	ppb	#	100
40) Heptane	10.64	43	3561	0.28	ppb		95
41) Trichloroethene	10.72	130	151246	7.11	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

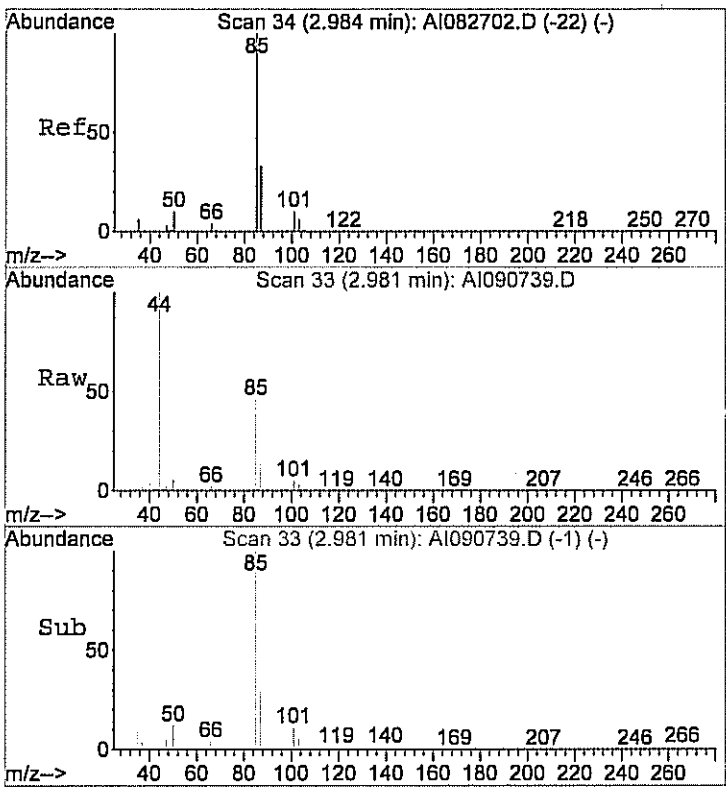
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090739.D Vial: 59
Acq On : 8 Sep 2011 8:15 am Operator: RJP
Sample : C1108077-013A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:05 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



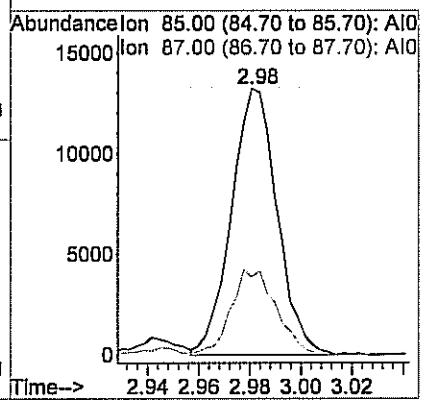
Centek Laboratories, LLC

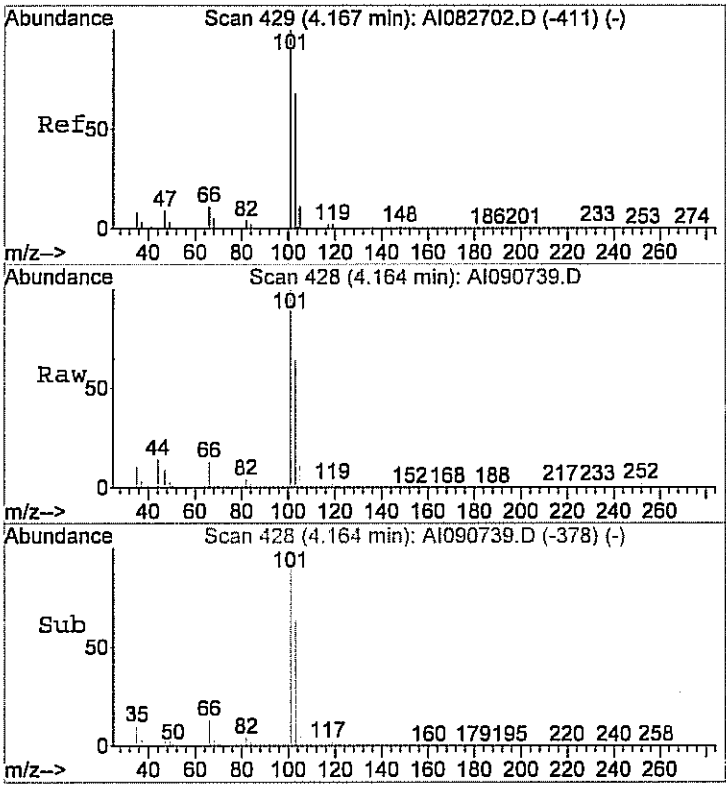


#3
Freon 12
Concen: 0.32 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion: 85 Resp: 16472

Ion	Ratio	Lower	Upper
85	100		
87	31.6	12.2	52.2

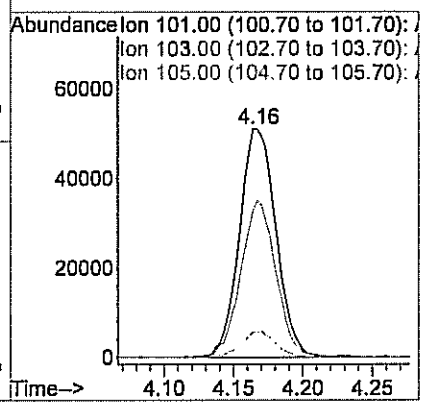


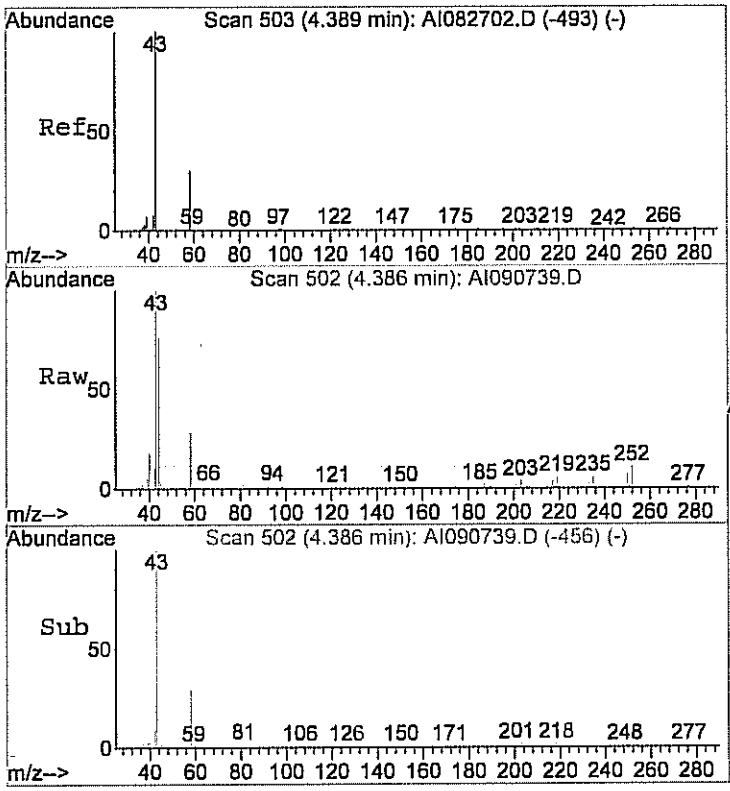


#13
Freon 11
Concen: 2.35 ppb
RT: 4.16 min Scan# 428
Delta R.T. -0.00 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion:101 Resp: 94042

Ion	Ratio	Lower	Upper
101	100		
103	66.2	44.9	84.9
105	10.9	0.0	30.9

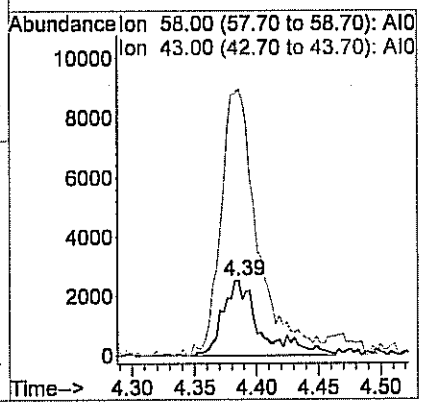


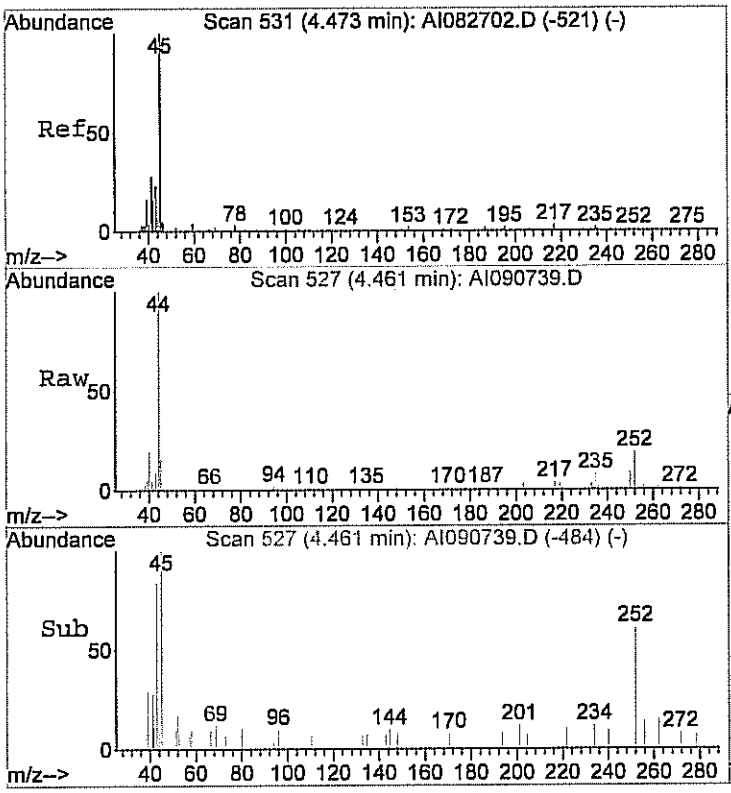


#14
Acetone
Concen: 1.24 ppb
RT: 4.39 min Scan# 502
Delta R.T. -0.01 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion: 58 Resp: 5267

Ion	Ratio	Lower	Upper
58	100		
43	372.0	360.8	420.8

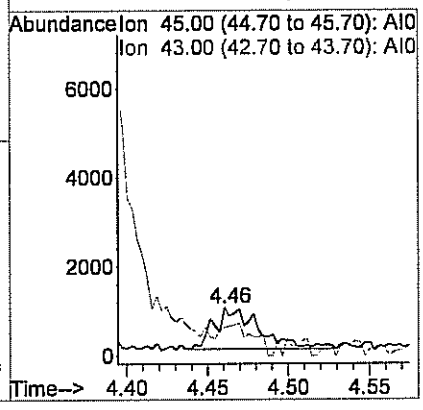


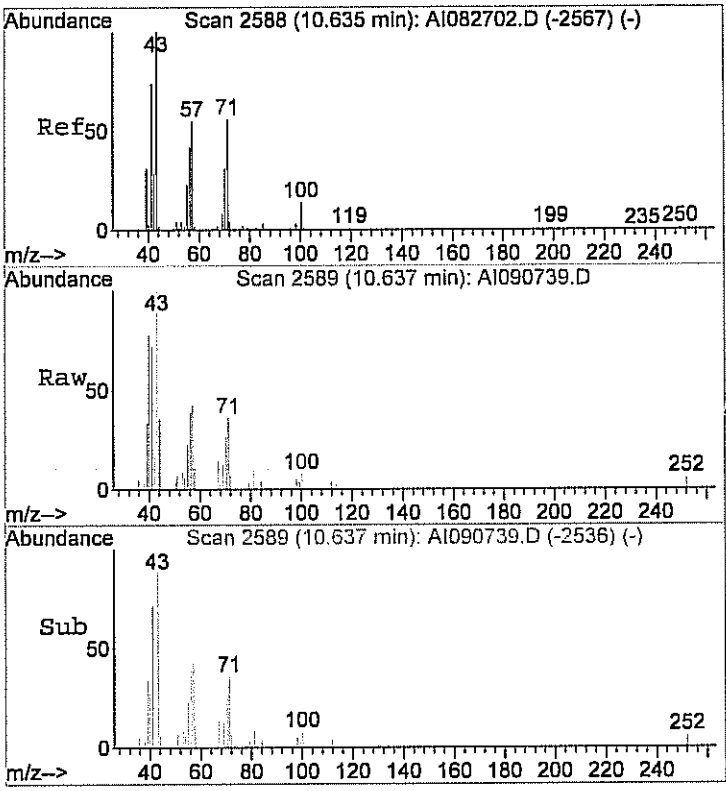


#15
Isopropyl alcohol
Concen: 0.21 ppb
RT: 4.46 min Scan# 527
Delta R.T. -0.02 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion: 45 Resp: 1801

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

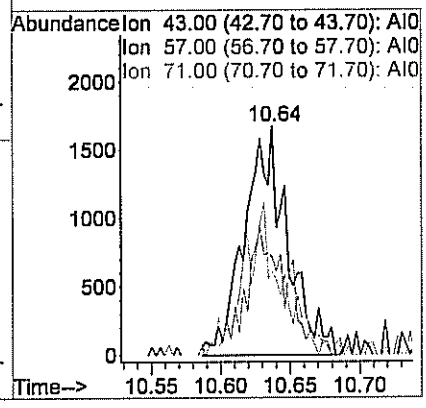


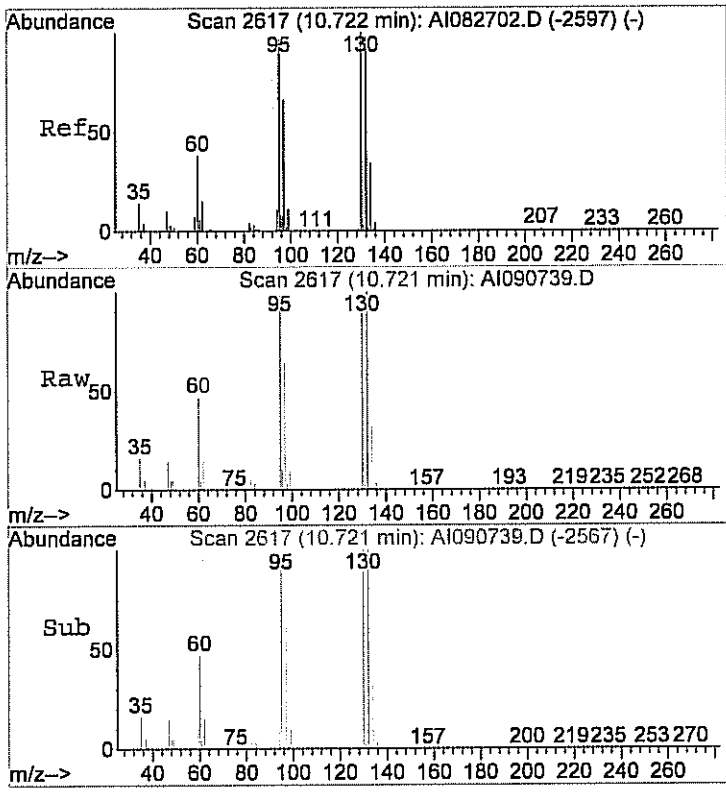


#40
Heptane
Concen: 0.28 ppb
RT: 10.64 min Scan# 2589
Delta R.T. 0.01 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion: 43 Resp: 3561

Ion	Ratio	Lower	Upper
43	100		
57	55.3	32.1	72.1
71	51.3	35.5	75.5

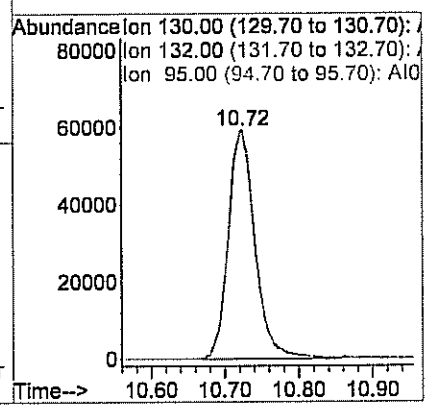




#41
Trichloroethene
Concen: 7.11 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090739.D
Acq: 8 Sep 2011 8:15 am

Tgt Ion:130 Resp: 151246

Ion	Ratio	Lower	Upper
130	100		
132	98.2	79.0	119.0
95	96.3	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090740.D Vial: 60
Acq On : 8 Sep 2011 8:49 am Operator: RJP
Sample : C1108077-013A 180x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 09:10:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

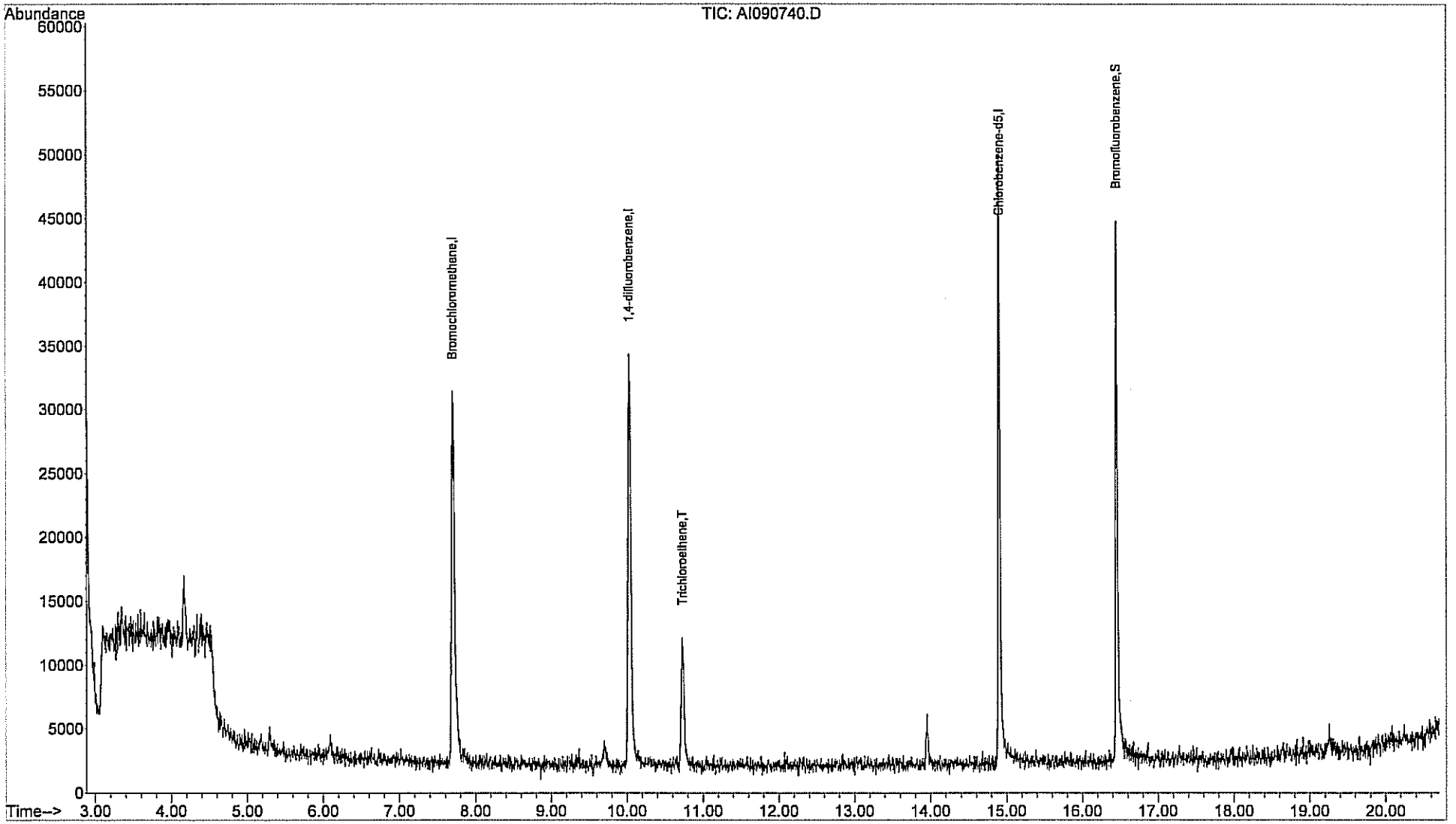
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12243	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	36945	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	30002	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14842	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.73	130	4566m	0.24	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090740.D A826_1UG.M Thu Sep 15 12:49:29 2011 MSD1 Page 1

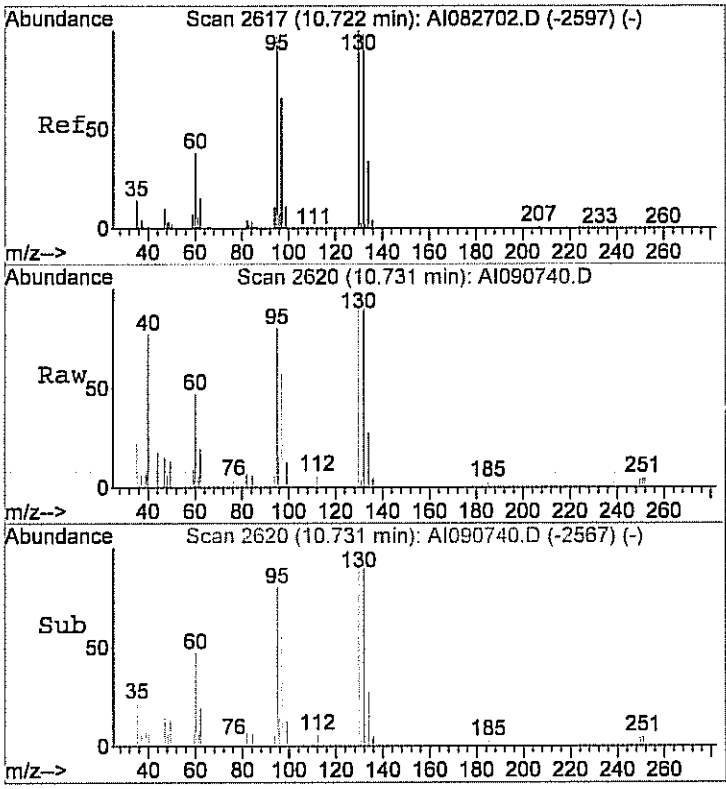
Data File : C:\HPCHEM\1\DATA\AI090740.D
Acq On : 8 Sep 2011 8:49 am
Sample : C1108077-013A 180x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:05 2011

Vial: 60
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



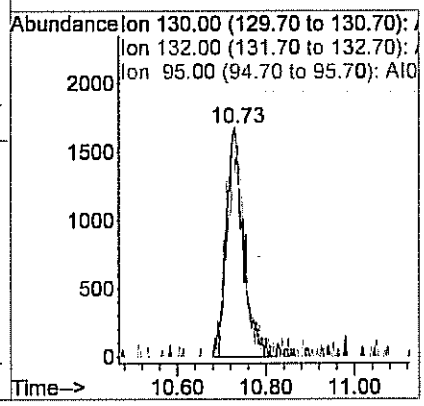
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 0.24 ppb m
RT: 10.73 min Scan# 2620
Delta R.T. 0.01 min
Lab File: AI090740.D
Acq: 8 Sep 2011 8:49 am

Tgt Ion:130 Resp: 4566

Ion	Ratio	Lower	Upper
130	100		
132	95.8	79.0	119.0
95	98.6	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Acetone	1.8	0.30		ppbV	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroform	0.80	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.12	0.15	J	ppbV	1	9/7/2011 9:46:00 PM
Freon 11	8.6	1.5		ppbV	10	9/8/2011 9:22:00 AM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 12	1.2	0.15		ppbV	1	9/7/2011 9:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	9/7/2011 9:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	2.7	1.5		ppbV	10	9/8/2011 9:22:00 AM
Toluene	0.12	0.15	J	ppbV	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Trichloroethene	45	27		ppbV	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	8.8	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Acetone	4.4	0.72		ug/m3	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:46:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:46:00 PM
Chloroform	4.0	0.74		ug/m3	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
Ethylbenzene	0.53	0.66	J	ug/m3	1	9/7/2011 9:46:00 PM
Freon 11	49	8.6		ug/m3	10	9/8/2011 9:22:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.0	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:46:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	9/7/2011 9:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	8.1	4.5		ug/m3	10	9/8/2011 9:22:00 AM
Toluene	0.46	0.57	J	ug/m3	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Trichloroethene	250	150		ug/m3	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090720.D Vial: 40
Acq On : 7 Sep 2011 9:46 pm Operator: RJP
Sample : C1108077-014A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 22:07:01 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

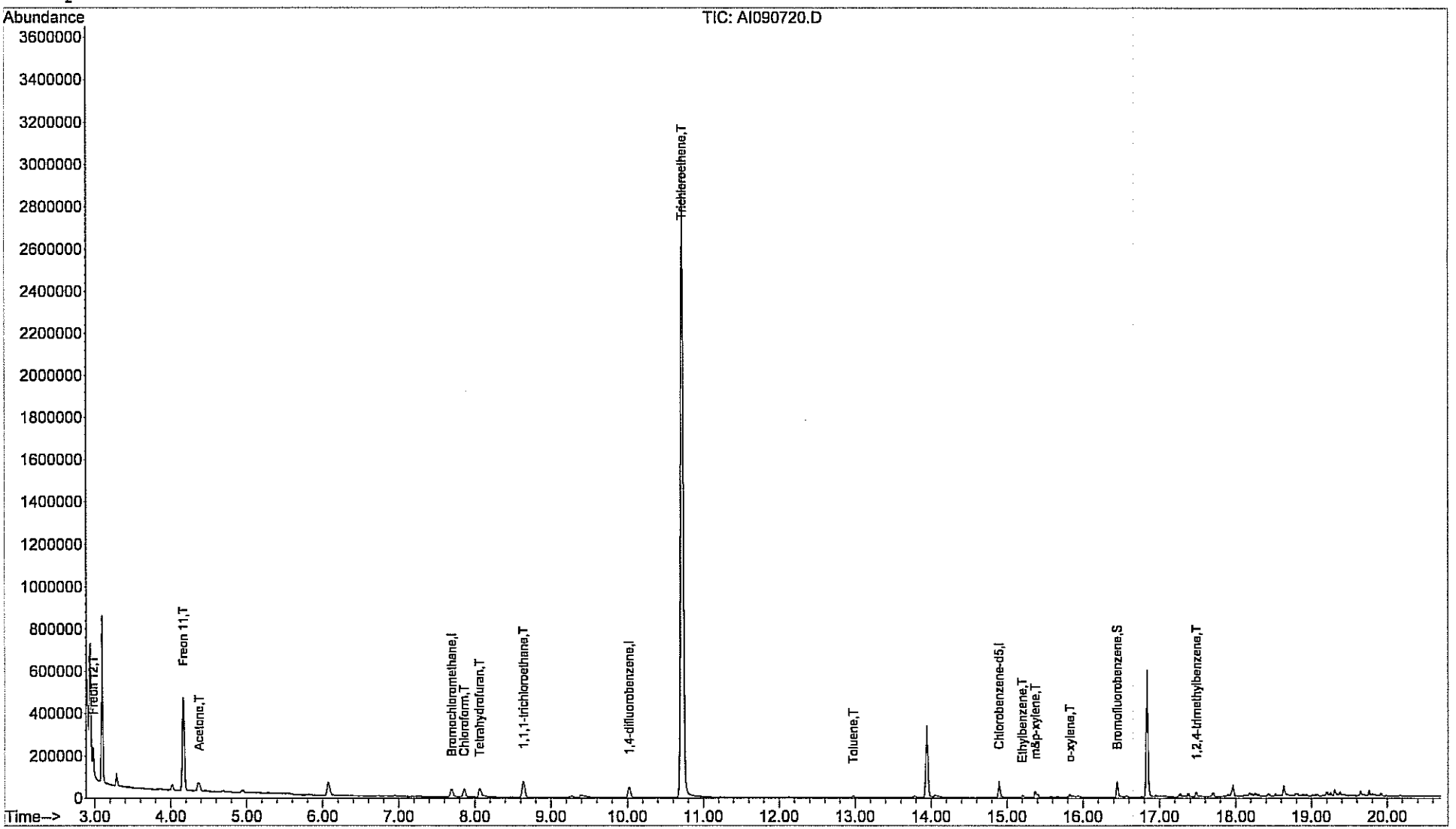
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13510	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.02	114	48843	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	41809	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	22971	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
3) Freon 12	2.98	85	69398	1.20	ppb	99
13) Freon 11	4.16	101	352501	7.86	ppb	100
14) Acetone	4.38	58	8637m	1.81	ppb	
29) Chloroform	7.86	83	33131	0.80	ppb	99
30) Tetrahydrofuran	8.06	42	29329	3.48	ppb	97
33) 1,1,1-trichloroethane	8.64	97	56800	1.58	ppb	99
41) Trichloroethene	10.72	130	1257335	49.27	ppb	99
48) Toluene	12.97	92	3158	0.12	ppb	100
55) Ethylbenzene	15.20	91	6888	0.12	ppb	96
56) m&p-xylene	15.38	91	24070	0.53	ppb	95
59) o-xylene	15.83	91	8417	0.16	ppb	96
65) 1,2,4-trimethylbenzene	17.48	105	7494	0.19	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

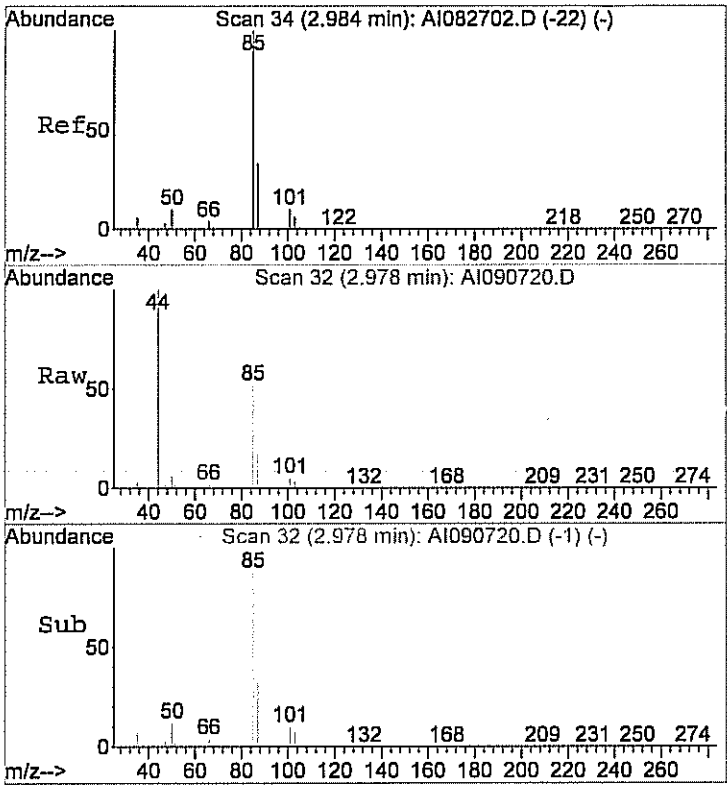
Data File : C:\HPCHEM\1\DATA\AI090720.D
Acq On : 7 Sep 2011 9:46 pm
Sample : C1108077-014A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:30 2011

Vial: 40
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



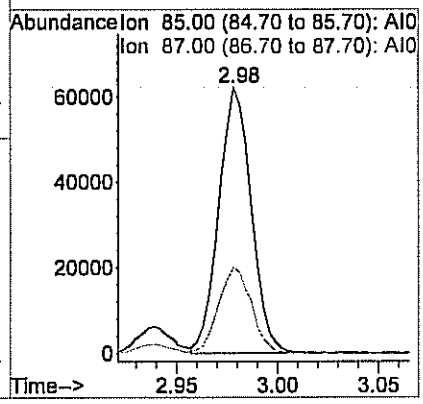
Centek Laboratories, LLC

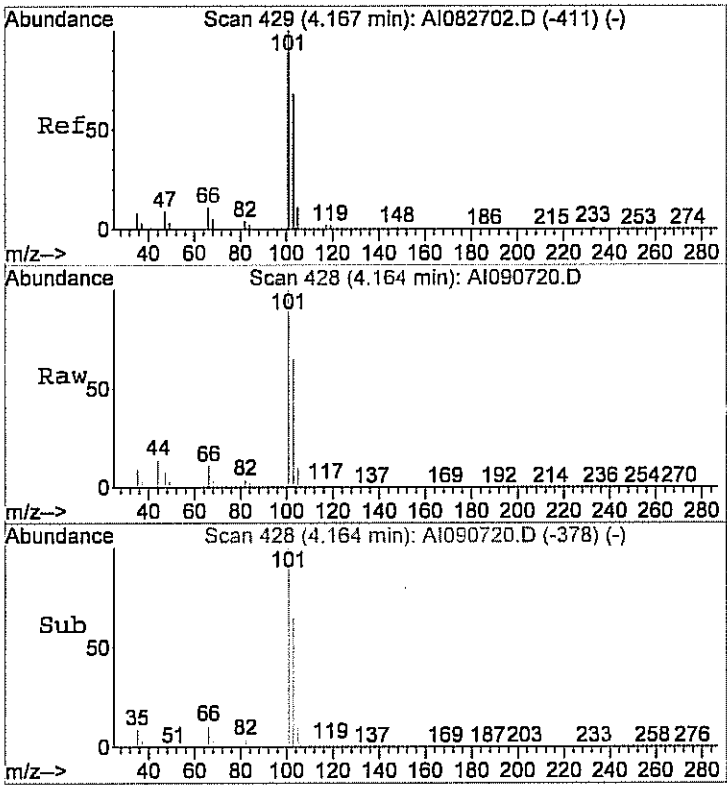


#3
Freon 12
Concen: 1.20 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 85 Resp: 69398

Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.2	52.2

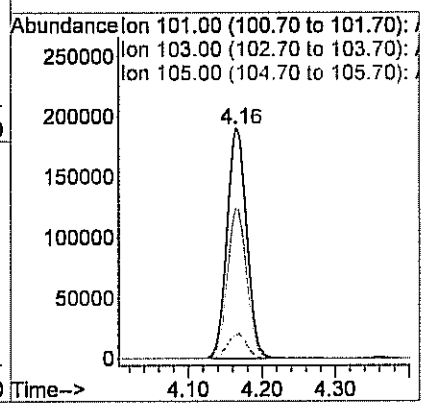


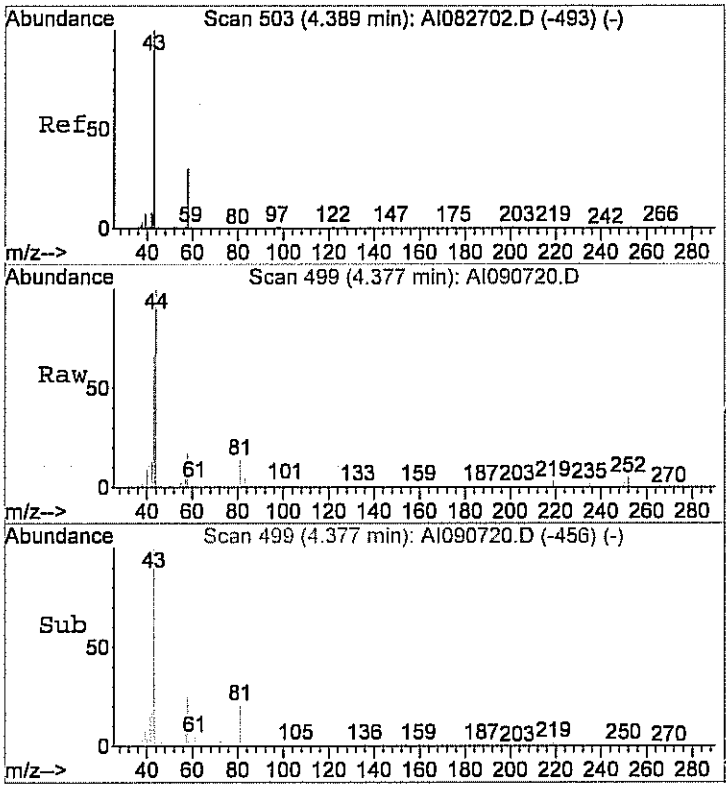


#13
Freon 11
Concen: 7.86 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion:101 Resp: 352501

Ion	Ratio	Lower	Upper
101	100		
103	64.9	44.9	84.9
105	10.8	0.0	30.9

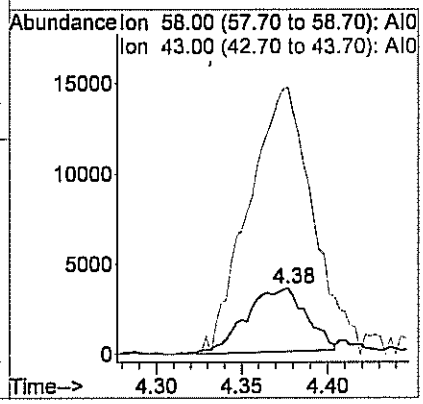


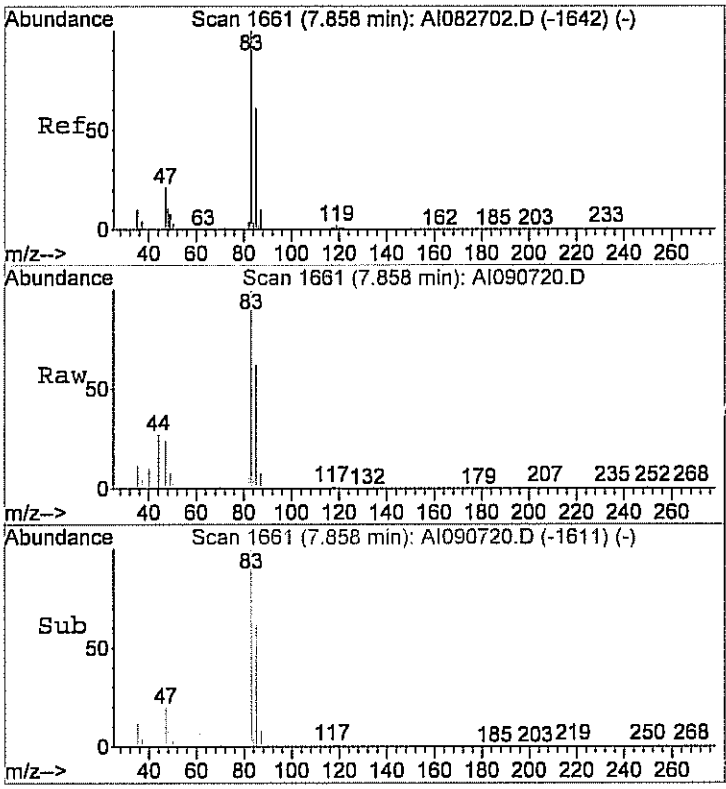


#14
Acetone
Concen: 1.81 ppb m
RT: 4.38 min Scan# 499
Delta R.T. -0.02 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 58 Resp: 8637

Ion	Ratio	Lower	Upper
58	100		
43	444.2	360.8	420.8#

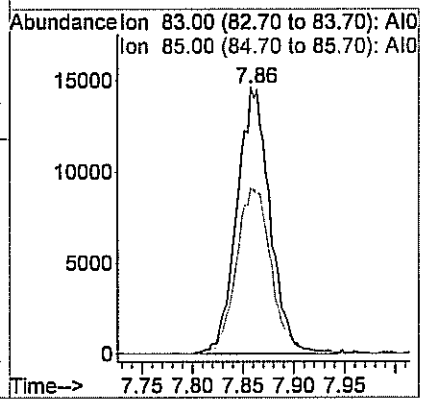


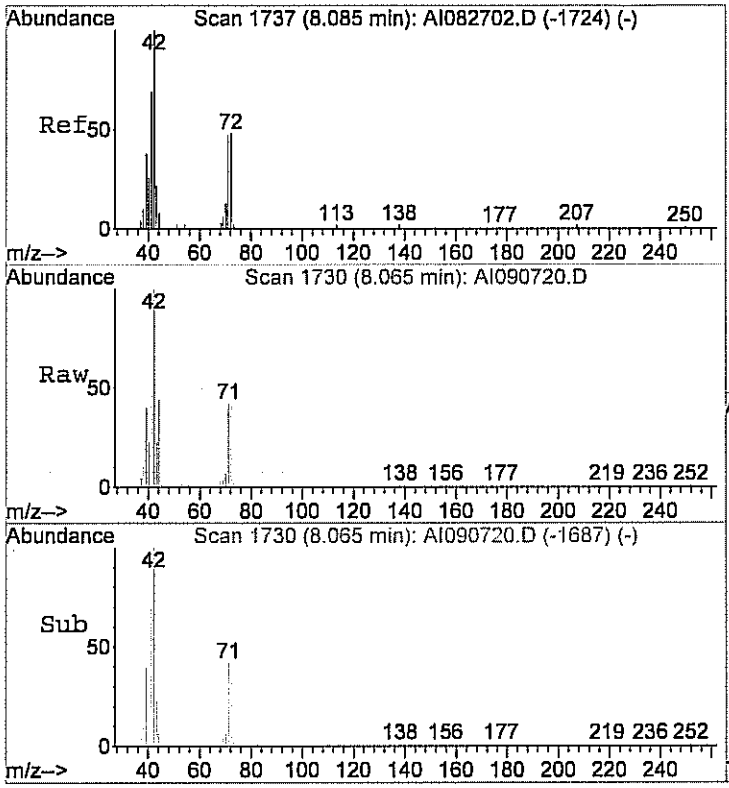


#29
Chloroform
Concen: 0.80 ppb
RT: 7.86 min Scan# 1661
Delta R.T. 0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 83 Resp: 33131

Ion	Ratio	Lower	Upper
83	100		
85	65.6	45.0	85.0

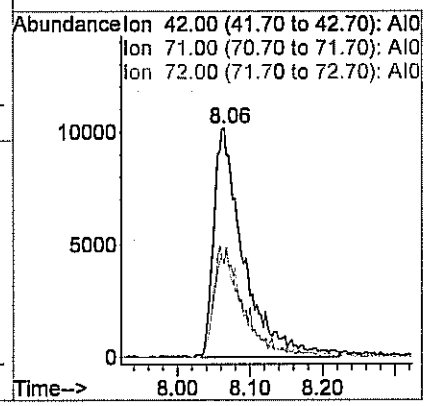


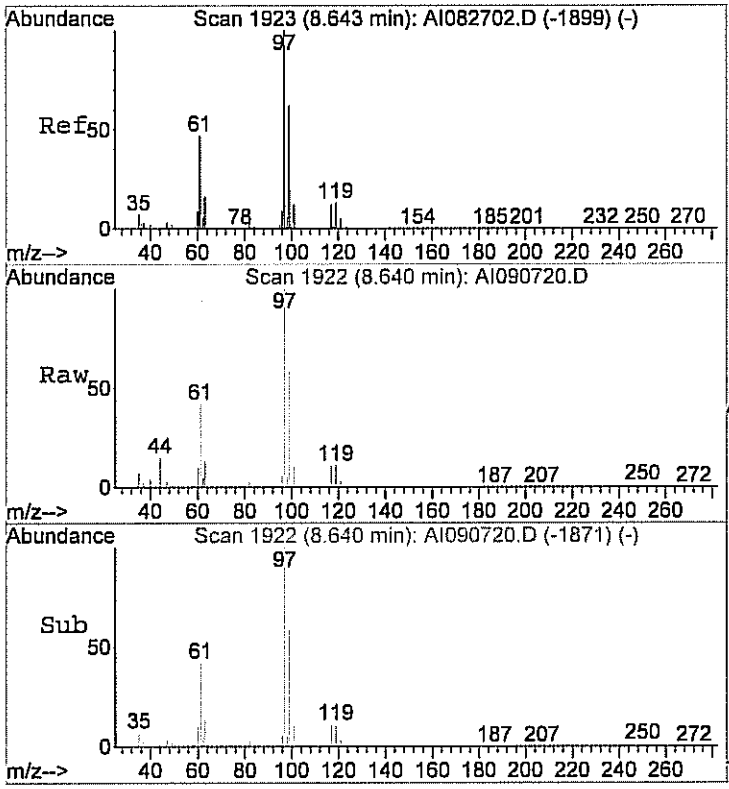


#30
Tetrahydrofuran
Concen: 3.48 ppb
RT: 8.06 min Scan# 1730
Delta R.T. -0.02 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 42 Resp: 29329

Ion	Ratio	Lower	Upper
42	100		
71	47.9	24.6	64.6
72	45.9	26.5	66.5

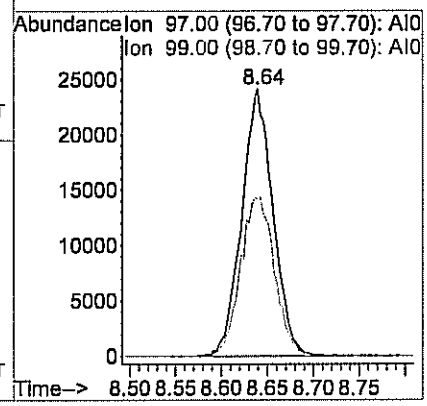


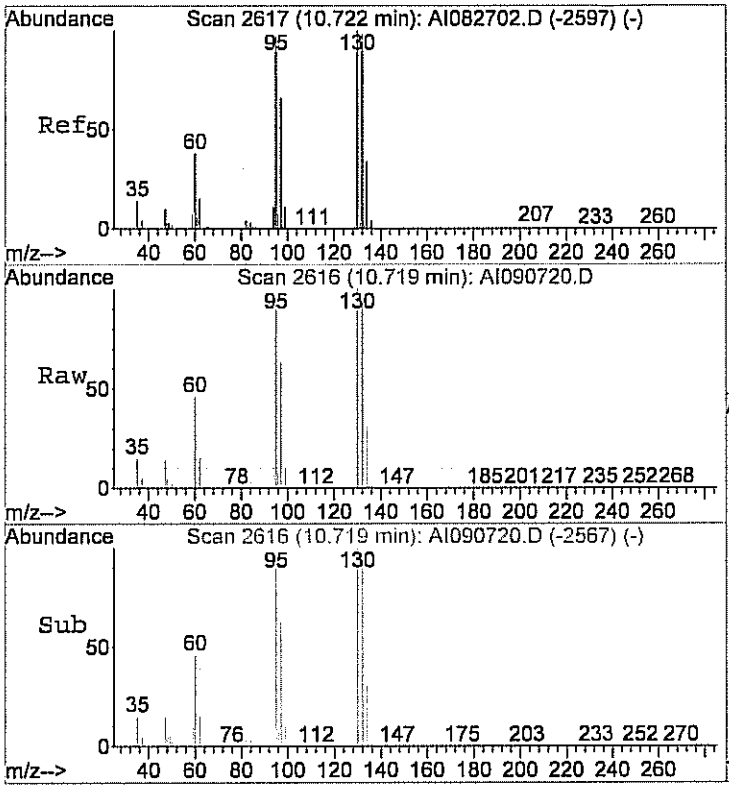


#33
1,1,1-trichloroethane
Concen: 1.58 ppb
RT: 8.64 min Scan# 1922
Delta R.T. 0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 97 Resp: 56800

Ion	Ratio	Lower	Upper
97	100		
99	64.7	43.8	83.8

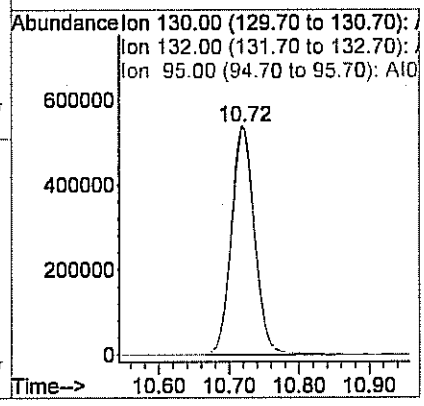


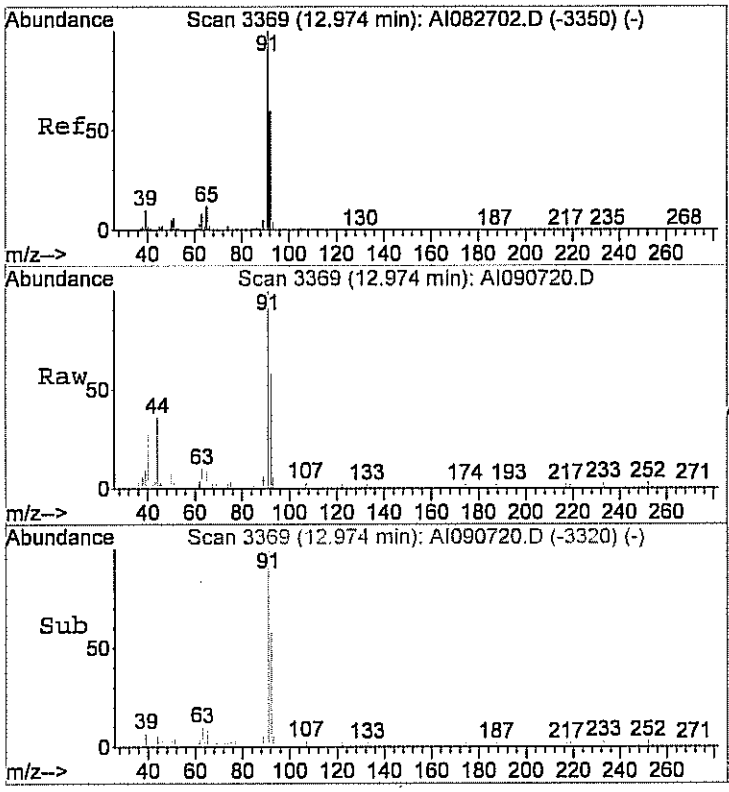


#41
Trichloroethene
Concen: 49.27 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion:130 Resp: 1257335

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	97.4	76.8	116.8

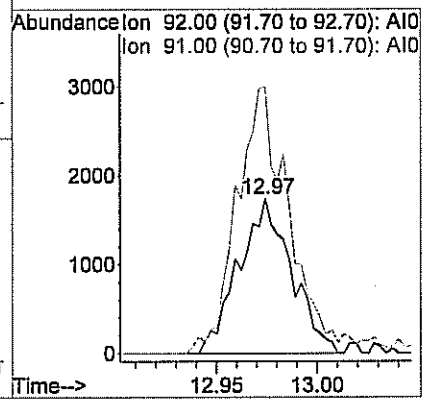


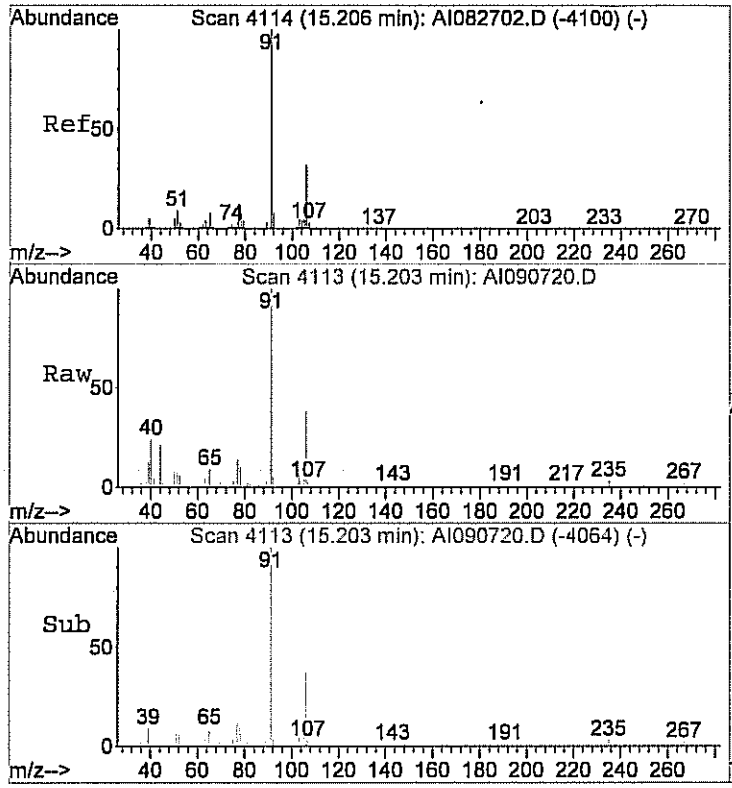


#48
Toluene
Concen: 0.12 ppb
RT: 12.97 min Scan# 3369
Delta R.T. -0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 92 Resp: 3158

Ion	Ratio	Lower	Upper
92	100		
91	179.7	159.8	199.8

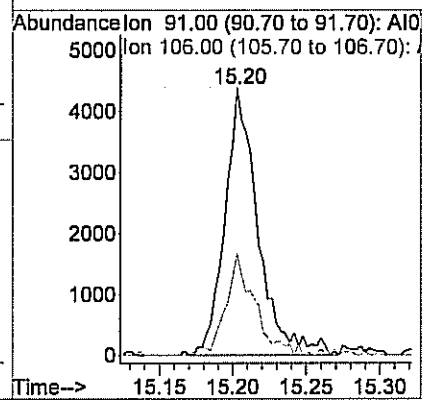


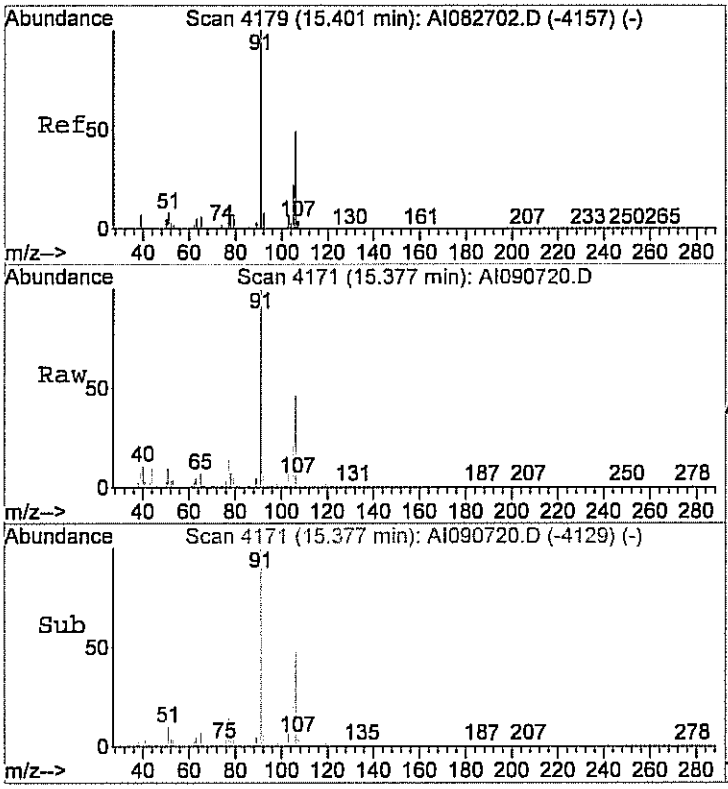


#55
Ethylbenzene
Concen: 0.12 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 91 Resp: 6888

Ion	Ratio	Lower	Upper
91	100		
106	32.8	10.7	50.7

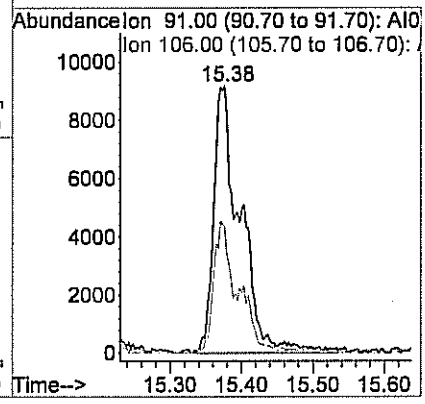


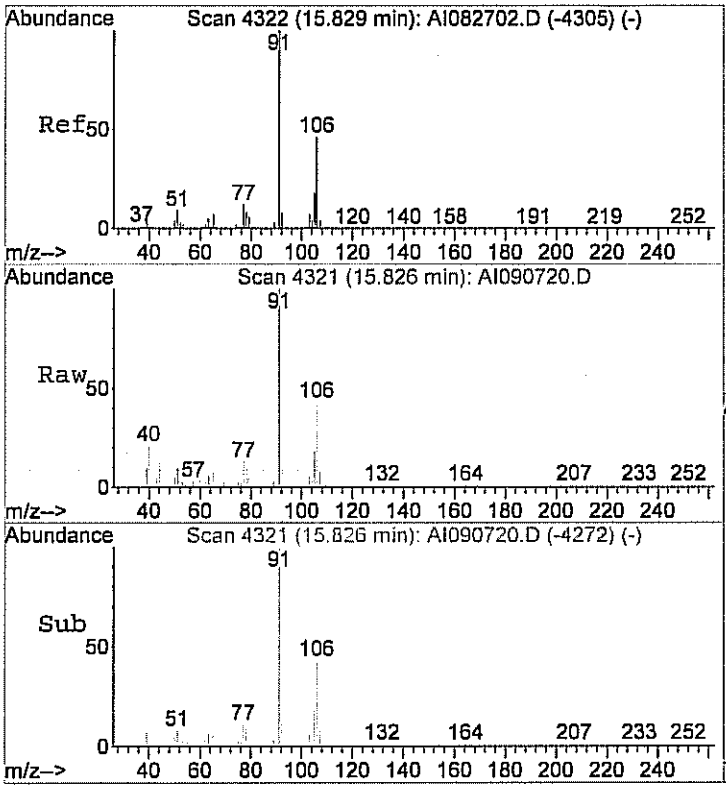


#56
m&p-xylene
Concen: 0.53 ppb
RT: 15.38 min Scan# 4171
Delta R.T. -0.02 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 91 Resp: 24070

Ion	Ratio	Lower	Upper
91	100		
106	44.3	27.5	67.5

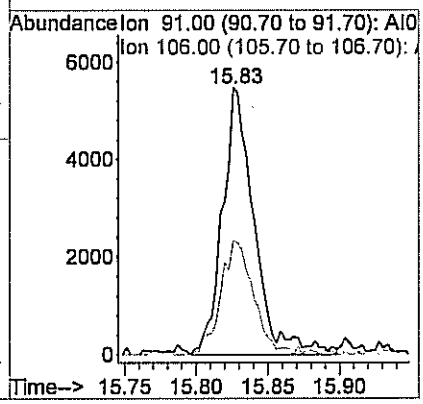


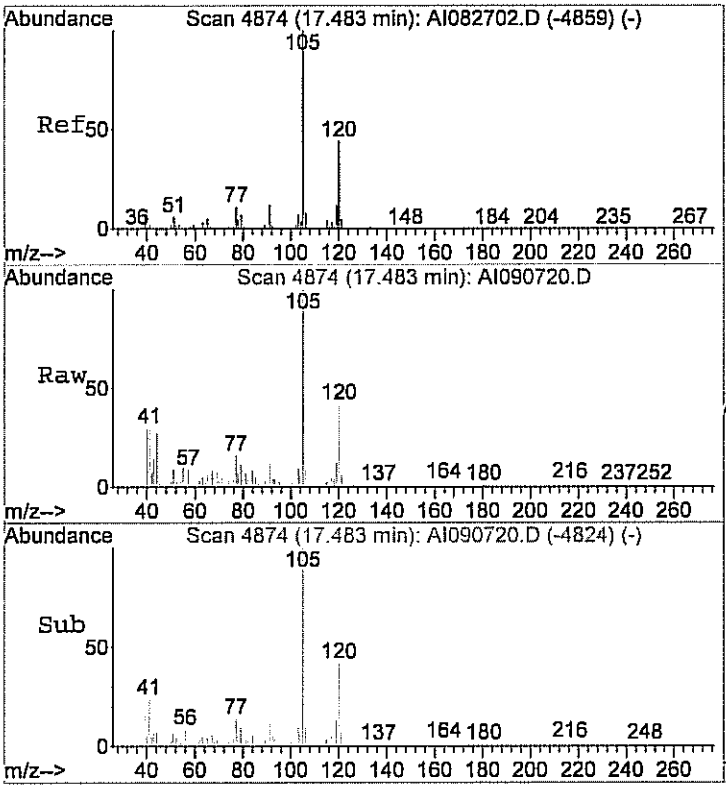


#59
o-xylene
Concen: 0.16 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion: 91 Resp: 8417

Ion	Ratio	Lower	Upper
91	100		
106	43.9	26.2	66.2

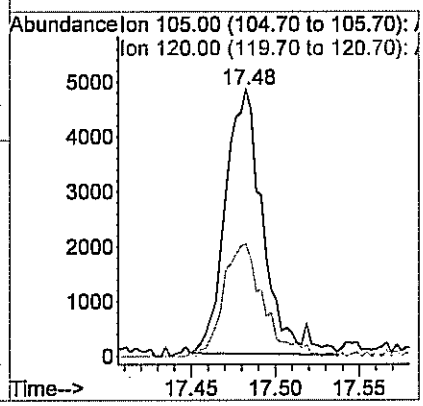




#65
1,2,4-trimethylbenzene
Concen: 0.19 ppb
RT: 17.48 min Scan# 4874
Delta R.T. 0.00 min
Lab File: AI090720.D
Acq: 7 Sep 2011 9:46 pm

Tgt Ion:105 Resp: 7494

Ion	Ratio	Lower	Upper
105	100		
120	45.0	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090741.D Vial: 61
Acq On : 8 Sep 2011 9:22 am Operator: RJP
Sample : C1108077-014A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 09:43:19 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

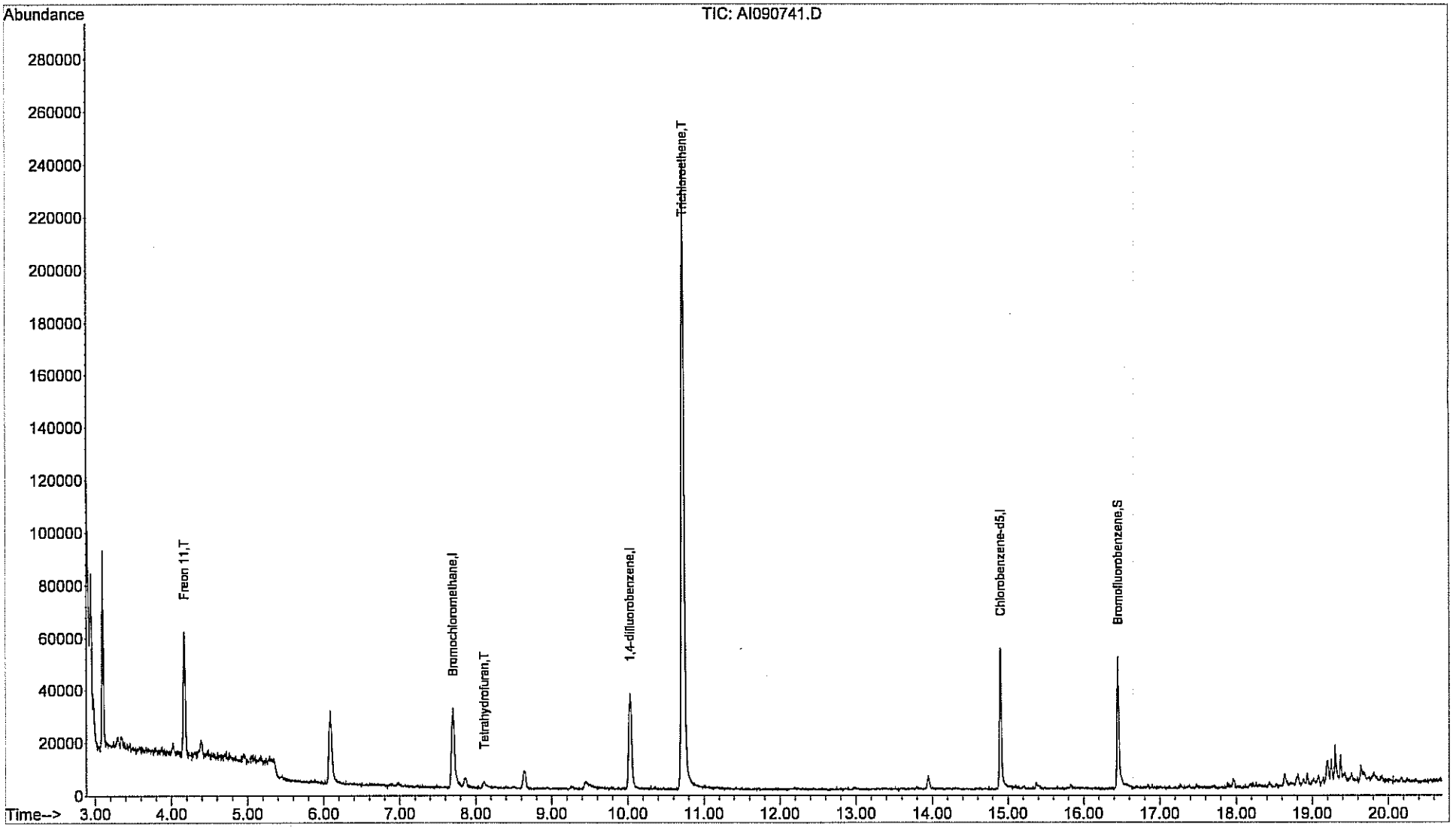
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12198	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	40389	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33164	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	17298	1.03	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%			
Target Compounds						Qvalue
13) Freon 11	4.17	101	34783	0.86	ppb	99
30) Tetrahydrofuran	8.12	42	2061m	0.27	ppb	
41) Trichloroethene	10.72	130	107445	5.09	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

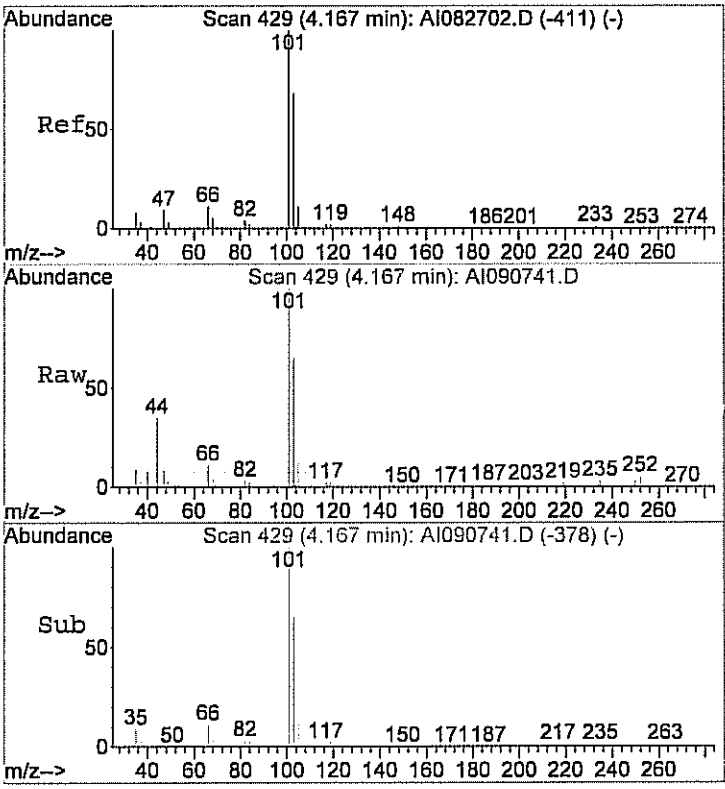
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090741.D Vial: 61
Acq On : 8 Sep 2011 9:22 am Operator: RJP
Sample : C1108077-014A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:06 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



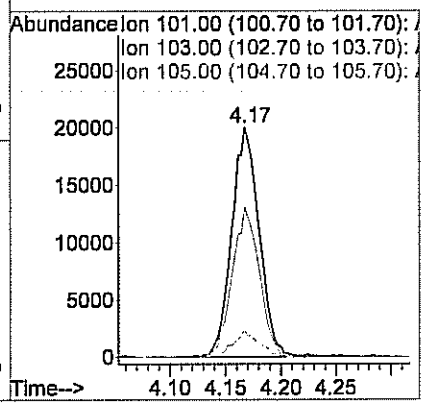
Centek Laboratories, LLC

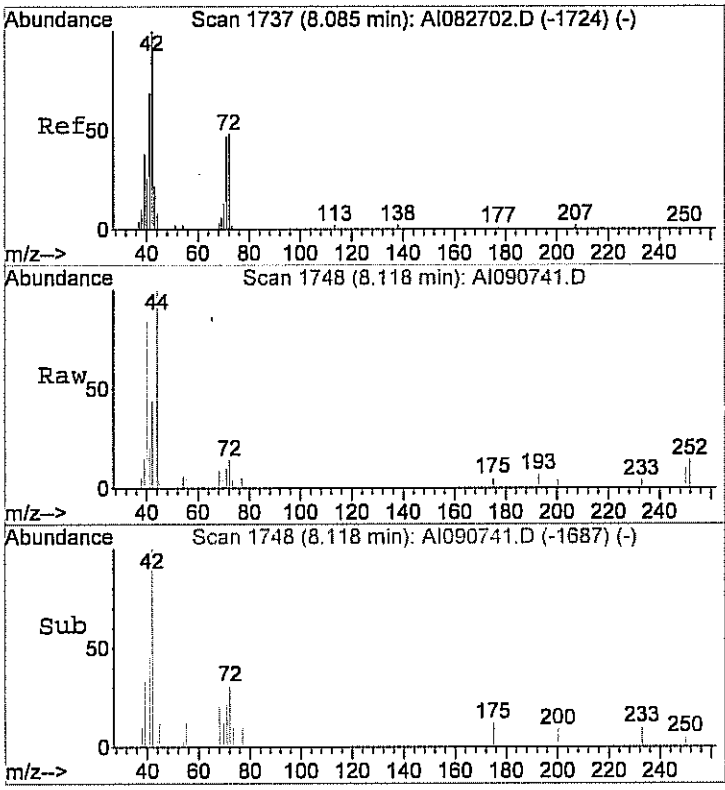


#13
Freon 11
Concen: 0.86 ppb
RT: 4.17 min Scan# 429
Delta R.T. 0.00 min
Lab File: AI090741.D
Acq: 8 Sep 2011 9:22 am

Tgt Ion:101 Resp: 34783

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.9	84.9
105	10.6	0.0	30.9

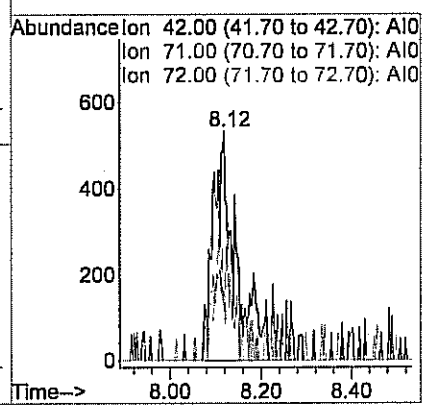


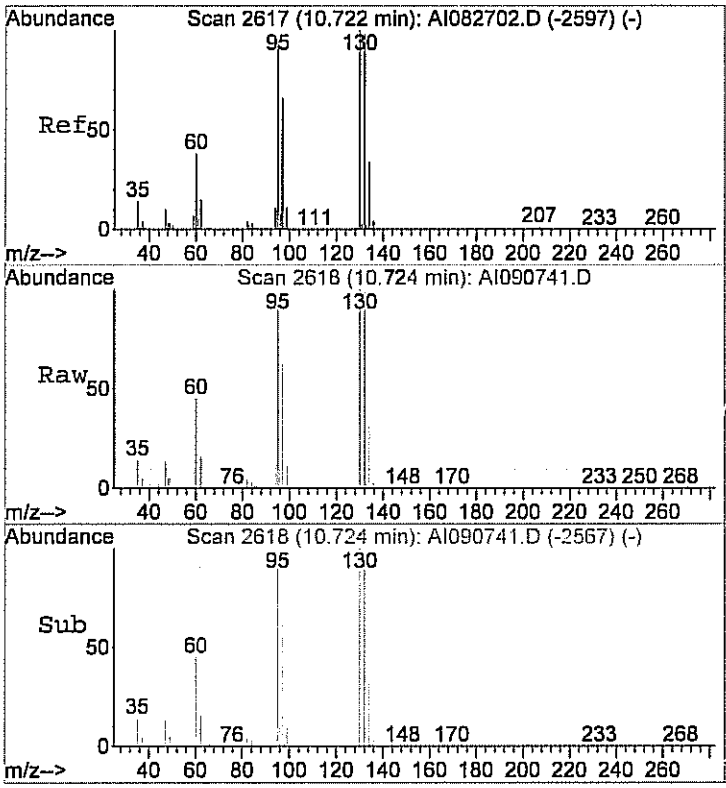


#30
Tetrahydrofuran
Concen: 0.27 ppb m
RT: 8.12 min Scan# 1748
Delta R.T. 0.03 min
Lab File: AI090741.D
Acq: 8 Sep 2011 9:22 am

Tgt Ion: 42 Resp: 2061

Ion	Ratio	Lower	Upper
42	100		
71	33.0	24.6	64.6
72	12.5	26.5	66.5#

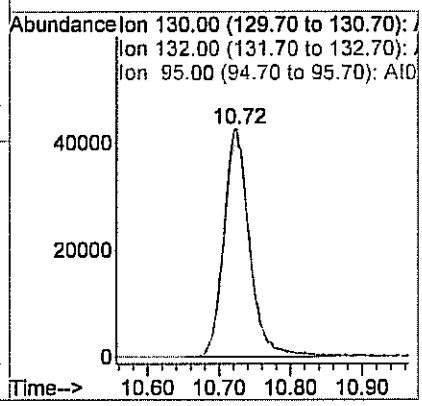




#41
Trichloroethene
Concen: 5.09 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090741.D
Acq: 8 Sep 2011 9:22 am

Tgt Ion:130 Resp: 107445

Ion	Ratio	Lower	Upper
130	100		
132	97.3	79.0	119.0
95	97.1	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090742.D Vial: 62
Acq On : 8 Sep 2011 9:55 am Operator: RJP
Sample : C1108077-014A 180x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 10:15:50 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

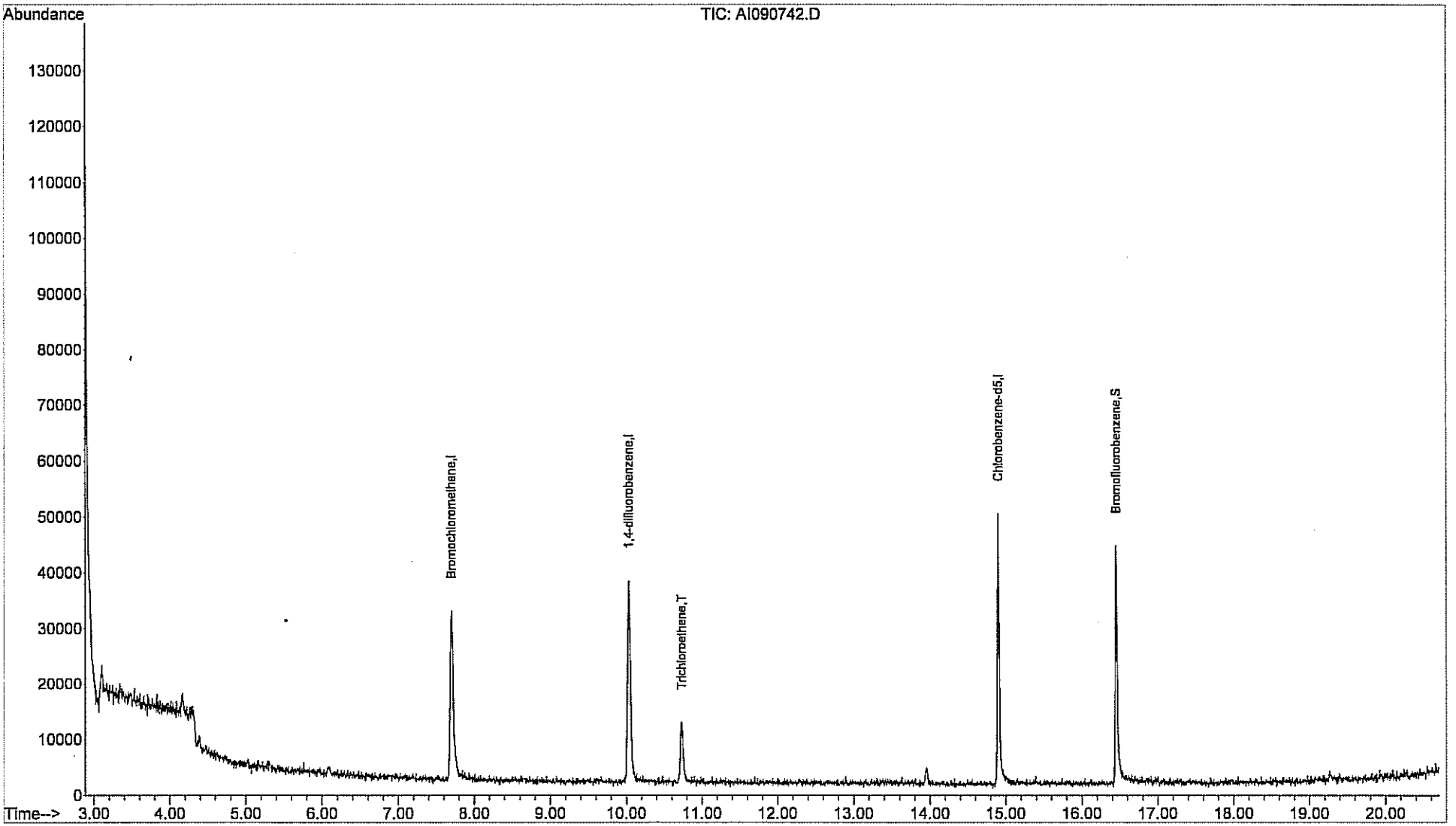
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12781	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	39895	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	29526	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14474	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.73	130	5225m	0.25	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090742.D A826_1UG.M Thu Sep 15 12:49:36 2011 MSD1 Page 1

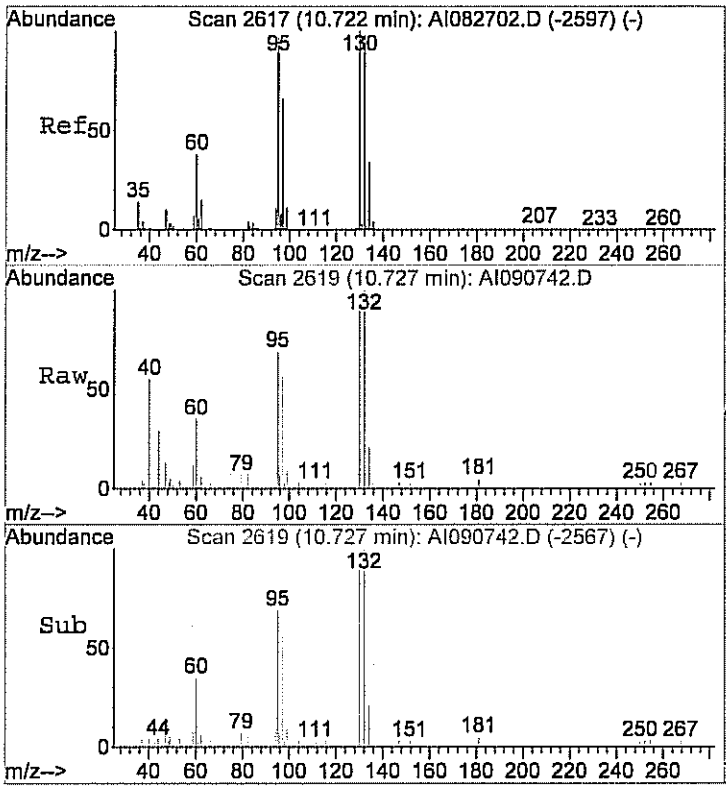
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090742.D Vial: 62
Acq On : 8 Sep 2011 9:55 am Operator: RJP
Sample : C1108077-014A 180x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:07 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



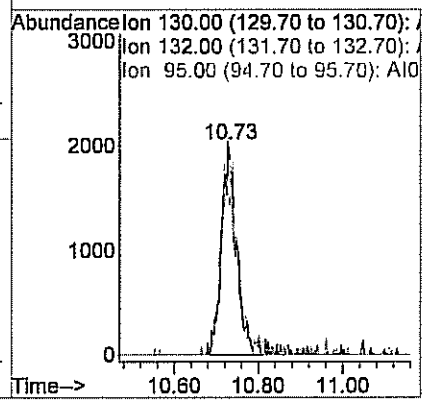
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 0.25 ppb m
RT: 10.73 min Scan# 2619
Delta R.T. 0.01 min
Lab File: AI090742.D
Acq: 8 Sep 2011 9:55 am

Tgt Ion:130 Resp: 5225

Ion	Ratio	Lower	Upper
130	100		
132	98.4	79.0	119.0
95	89.9	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.26	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	6.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Acetone	2.1	0.30		ppbV	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzene	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroform	1.6	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Cyclohexane	7.9	1.5		ppbV	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.66	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 113	0.10	0.15	J	ppbV	1	9/7/2011 10:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 12	0.54	0.15		ppbV	1	9/7/2011 10:18:00 PM
Heptane	7.3	1.5		ppbV	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Hexane	3.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
o-Xylene	0.78	0.15		ppbV	1	9/7/2011 10:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	7.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Toluene	0.88	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Trichloroethene	94	14		ppbV	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	1.4	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	1.5	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	31	7.1		ug/m3	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.75	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Acetone	5.1	0.72		ug/m3	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:18:00 PM
Benzene	0.81	0.49		ug/m3	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:18:00 PM
Chloroform	8.1	0.74		ug/m3	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	4.5	0.60		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Cyclohexane	28	5.2		ug/m3	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
Ethylbenzene	2.9	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 10:18:00 PM
Freon 113	0.78	1.2	J	ug/m3	1	9/7/2011 10:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Heptane	30	6.2		ug/m3	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Hexane	13	5.4		ug/m3	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:18:00 PM
m&p-Xylene	6.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:18:00 PM
o-Xylene	3.4	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	52	10		ug/m3	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 10:18:00 PM
Toluene	3.4	0.57		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Trichloroethene	520	76		ug/m3	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Data File : C:\HPCHEM\1\DATA\AI090721.D
Acq On : 7 Sep 2011 10:18 pm
Sample : C1108077-015A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 07 22:39:23 2011

Quantitation Report (QT Reviewed)

Vial: 41
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

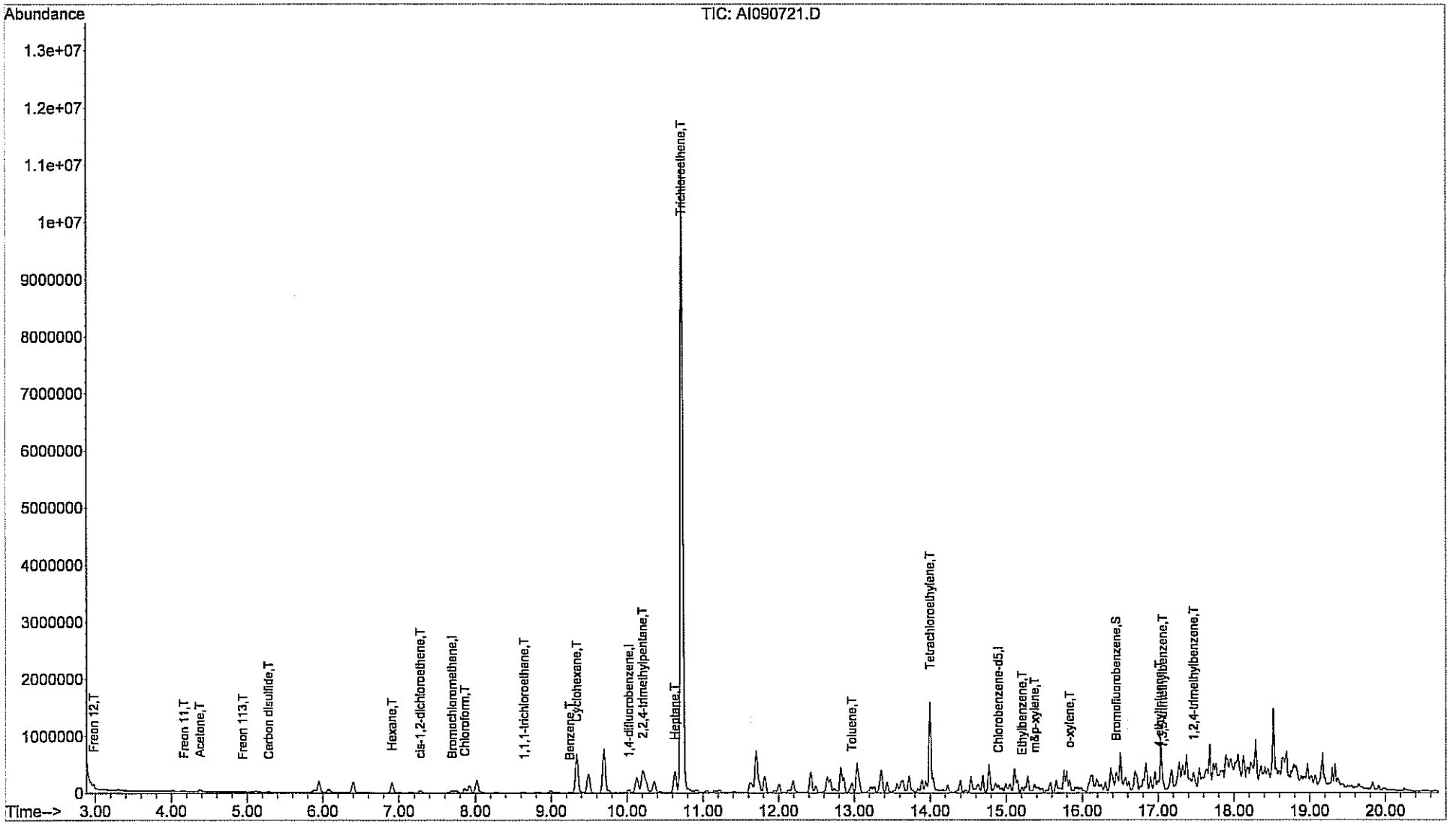
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	14062	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	55299	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	55595	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	33068m	1.18	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	32522	0.54	ppb		98
13) Freon 11	4.16	101	14420	0.31	ppb		98
14) Acetone	4.38	58	10482	2.11	ppb		96
17) Freon 113	4.95	101	3298	0.10	ppb		98
20) Carbon disulfide	5.28	76	10046	0.25	ppb		99
26) cis-1,2-dichloroethene	7.27	61	22974	1.12	ppb		99
27) Hexane	6.91	57	89493	5.21	ppb		99
29) Chloroform	7.86	83	71225	1.64	ppb	#	74
33) 1,1,1-trichloroethane	8.65	97	10776	0.26	ppb		91
34) Cyclohexane	9.34	56	182652	10.10	ppb	#	21
36) Benzene	9.24	78	11637	0.25	ppb		97
39) 2,2,4-trimethylpentane	10.21	57	444455	8.83	ppb	#	44
40) Heptane	10.63	43	177975	10.28	ppb		96
41) Trichloroethene	10.72	130	4694901	162.49	ppb		99
48) Toluene	12.97	92	32017	0.88	ppb		97
53) Tetrachloroethylene	14.00	164	342881	8.91	ppb		100
55) Ethylbenzene	15.20	91	49330	0.66	ppb		99
56) m&p-xylene	15.37	91	87075	1.43	ppb		100
59) o-xylene	15.83	91	55260	0.78	ppb		99
63) 4-ethyltoluene	17.01	105	8657	0.15	ppb		93
64) 1,3,5-trimethylbenzene	17.07	105	19719	0.31	ppb		92
65) 1,2,4-trimethylbenzene	17.48	105	18069	0.35	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090721.D
Acq On : 7 Sep 2011 10:18 pm
Sample : C1108077-015A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:33 2011

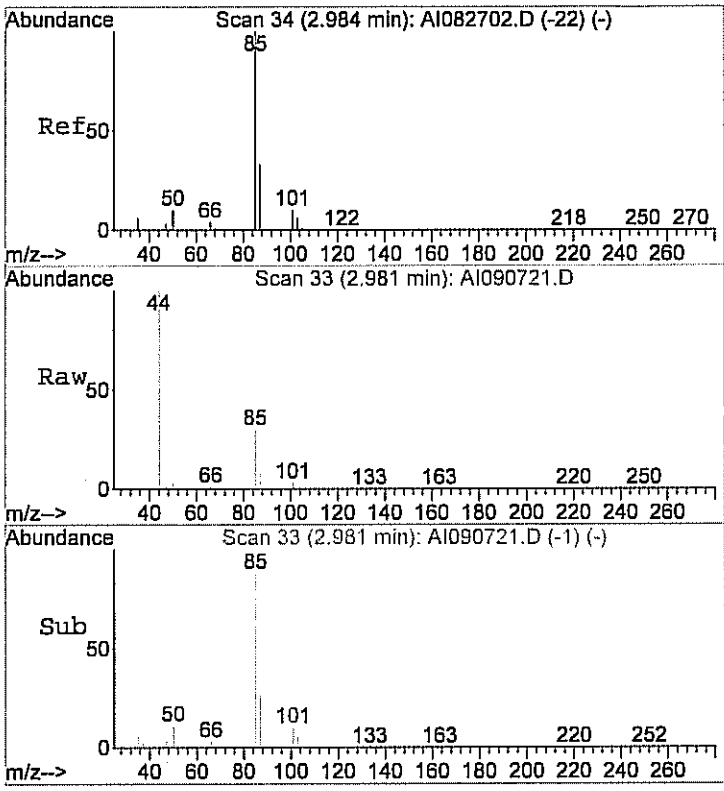
Vial: 41
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Page 411 of 560

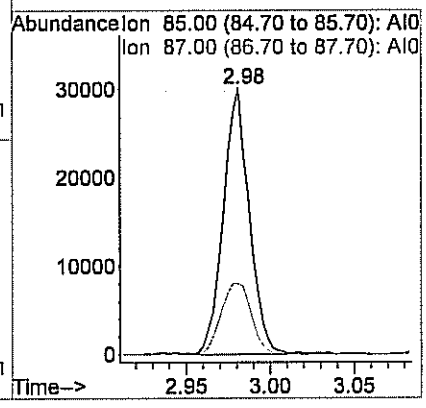
Centek Laboratories, LLC

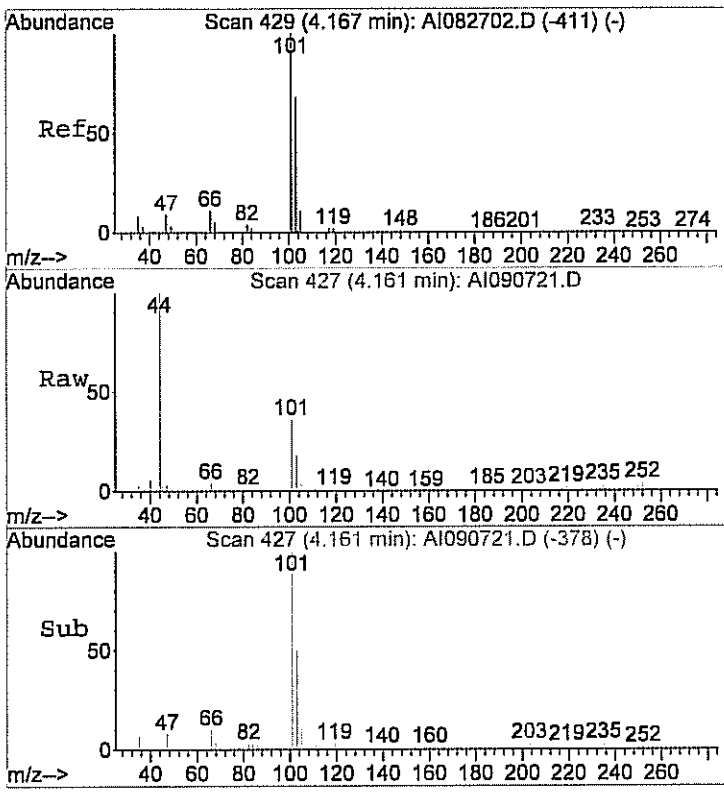


#3
Freon 12
Concen: 0.54 ppb
RT: 2.98 min Scan# 33
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 85 Resp: 32522

Ion	Ratio	Lower	Upper
85	100		
87	31.1	12.2	52.2

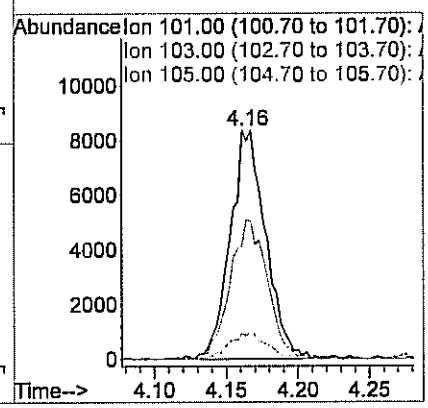


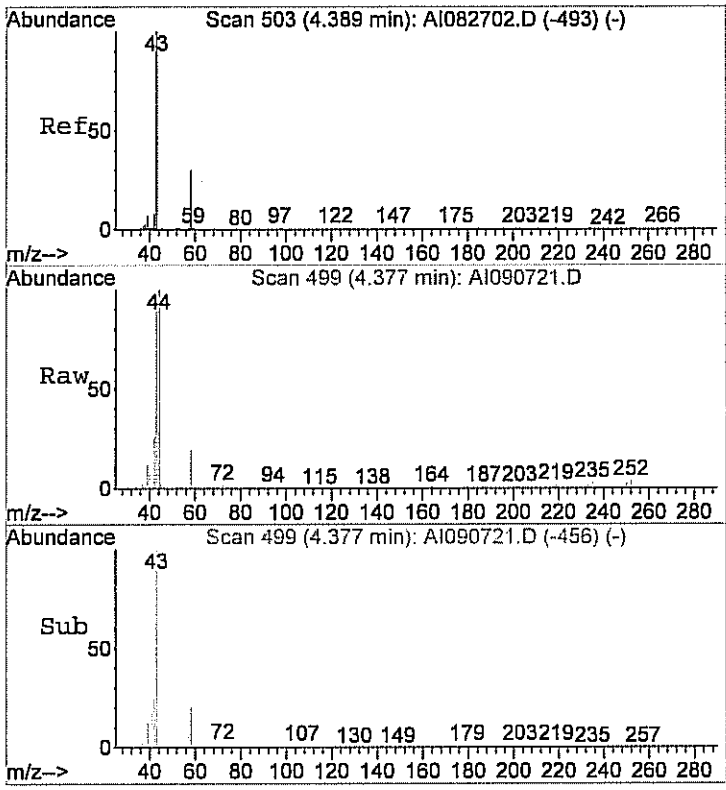


#13
Freon 11
Concen: 0.31 ppb
RT: 4.16 min Scan# 427
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:101 Resp: 14420

Ion	Ratio	Lower	Upper
101	100		
103	63.3	44.9	84.9
105	12.2	0.0	30.9

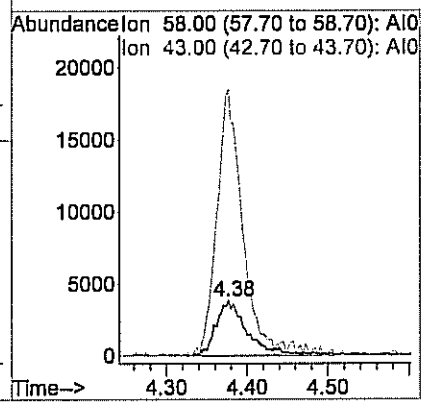


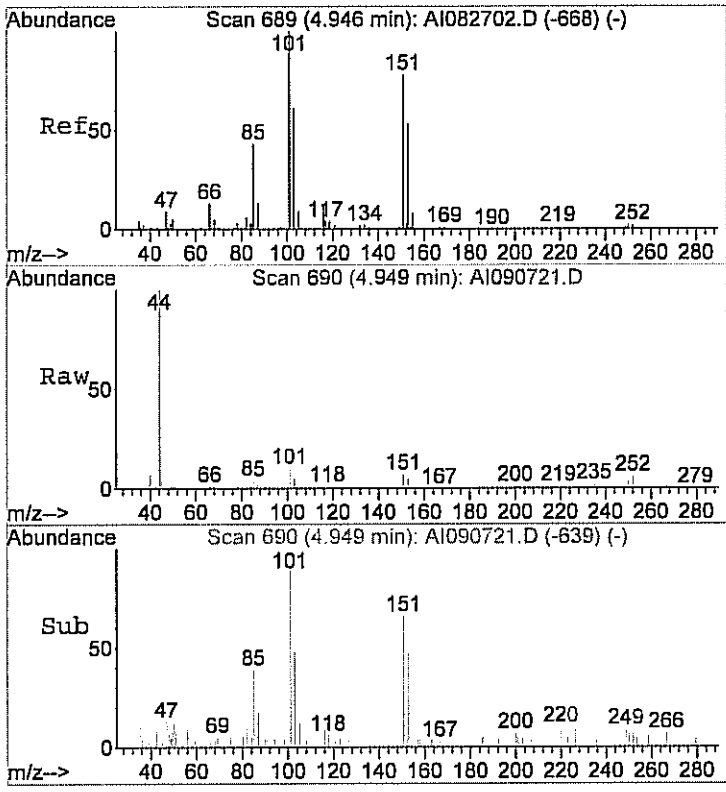


#14
Acetone
Concen: 2.11 ppb
RT: 4.38 min Scan# 499
Delta R.T. -0.02 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 58 Resp: 10482

Ion	Ratio	Lower	Upper
58	100		
43	381.7	360.8	420.8

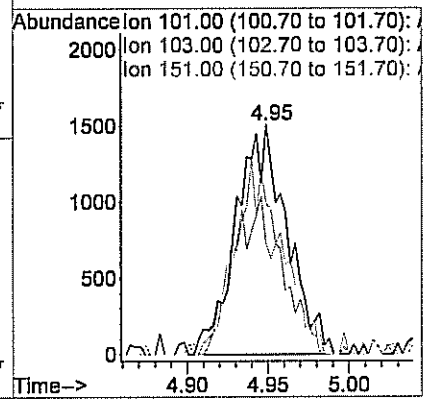


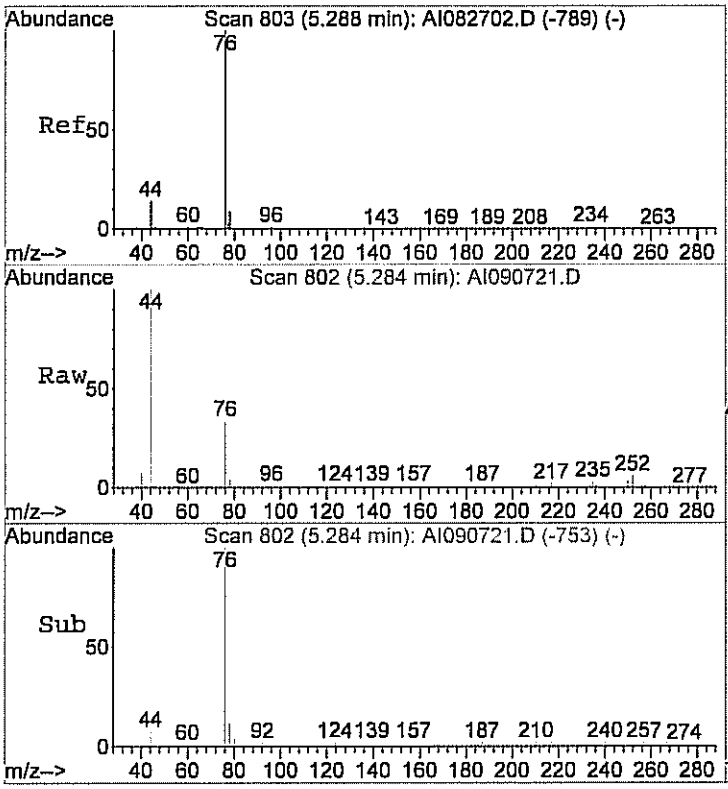


#17
Freon 113
Concen: 0.10 ppb
RT: 4.95 min Scan# 690
Delta R.T. 0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:101 Resp: 3298

Ion	Ratio	Lower	Upper
101	100		
103	64.9	44.3	84.3
151	78.8	61.0	101.0

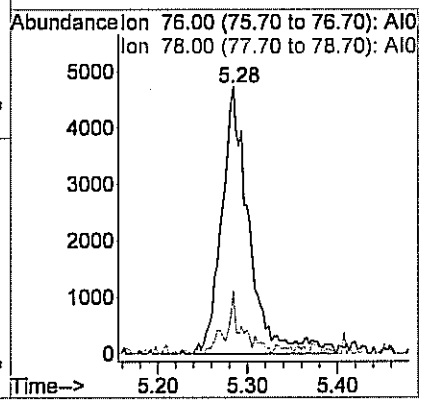


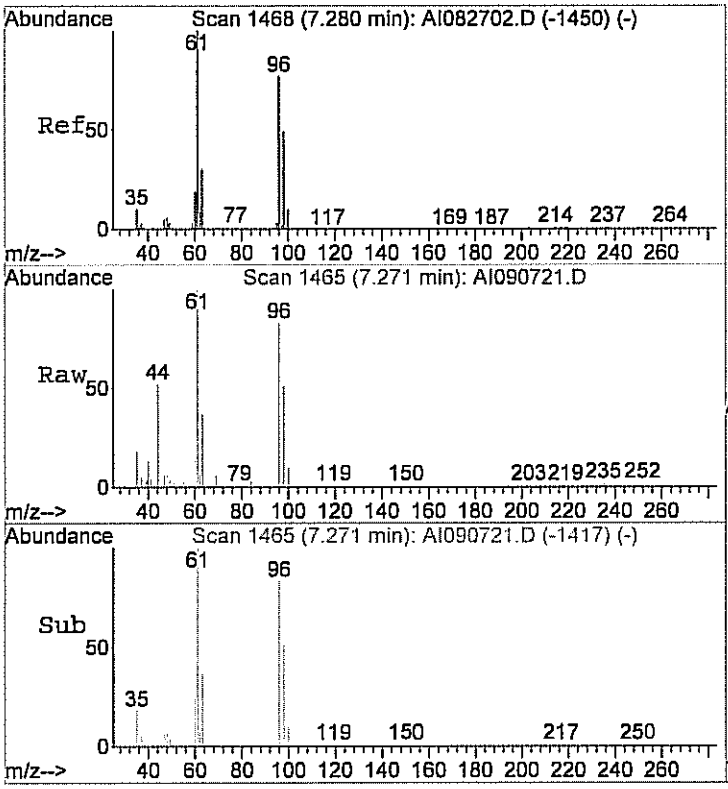


#20
Carbon disulfide
Concen: 0.25 ppb
RT: 5.28 min Scan# 802
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 76 Resp: 10046

Ion	Ratio	Lower	Upper
76	100		
78	10.0	0.0	29.6

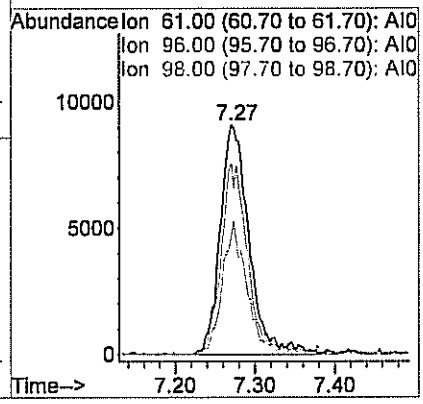


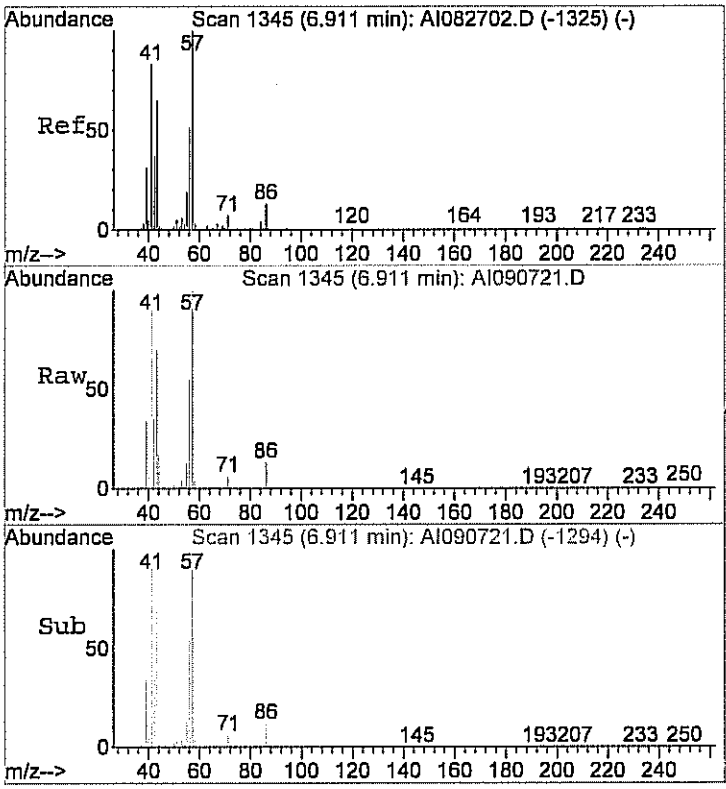


#26
cis-1,2-dichloroethene
Concen: 1.12 ppb
RT: 7.27 min Scan# 1465
Delta R.T. -0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 61 Resp: 22974

Ion	Ratio	Lower	Upper
61	100		
96	77.6	56.6	96.6
98	50.2	30.4	70.4

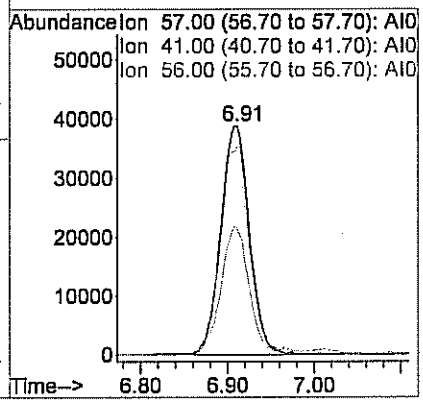


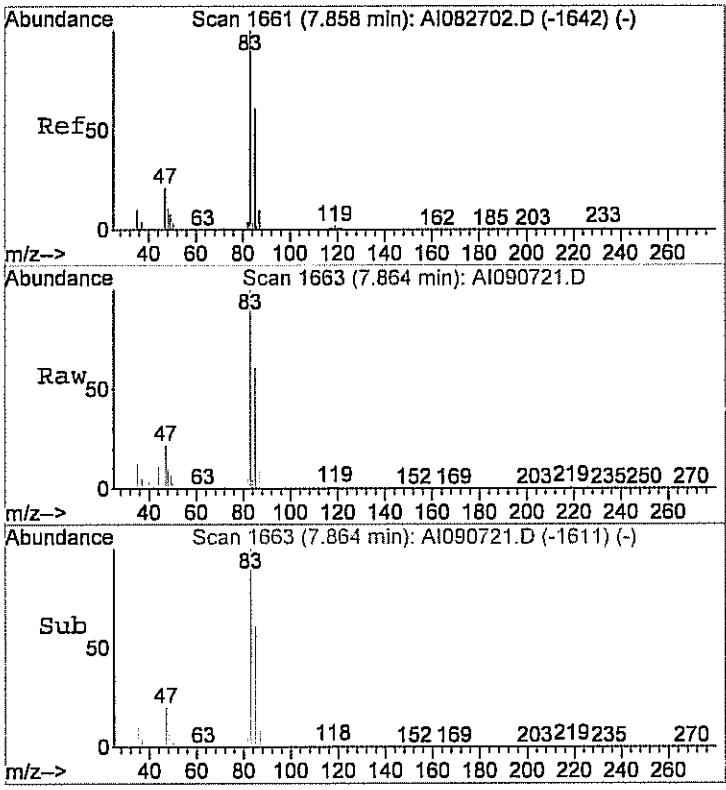


#27
Hexane
Concen: 5.21 ppb
RT: 6.91 min Scan# 1345
Delta R.T. 0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 57 Resp: 89493

Ion	Ratio	Lower	Upper
57	100		
41	94.4	75.5	115.5
56	56.3	35.9	75.9

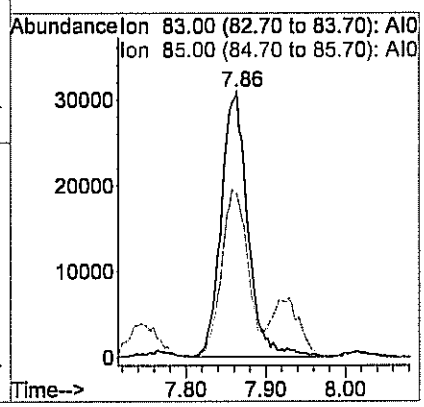


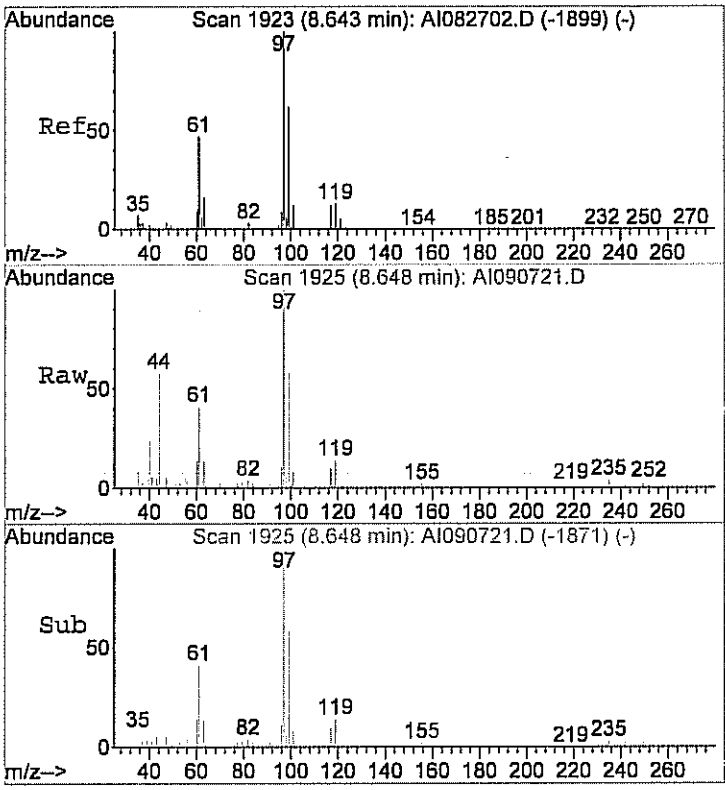


#29
Chloroform
Concen: 1.64 ppb
RT: 7.86 min Scan# 1663
Delta R.T. 0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 83 Resp: 71225

Ion	Ratio	Lower	Upper
83	100		
85	85.9	45.0	85.0#

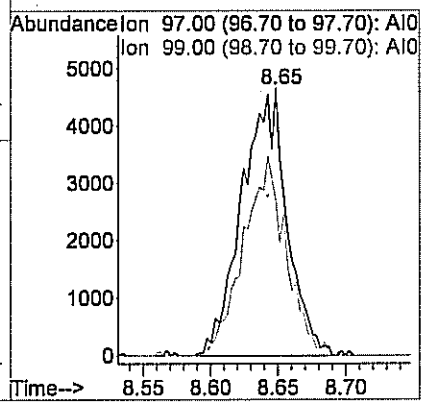


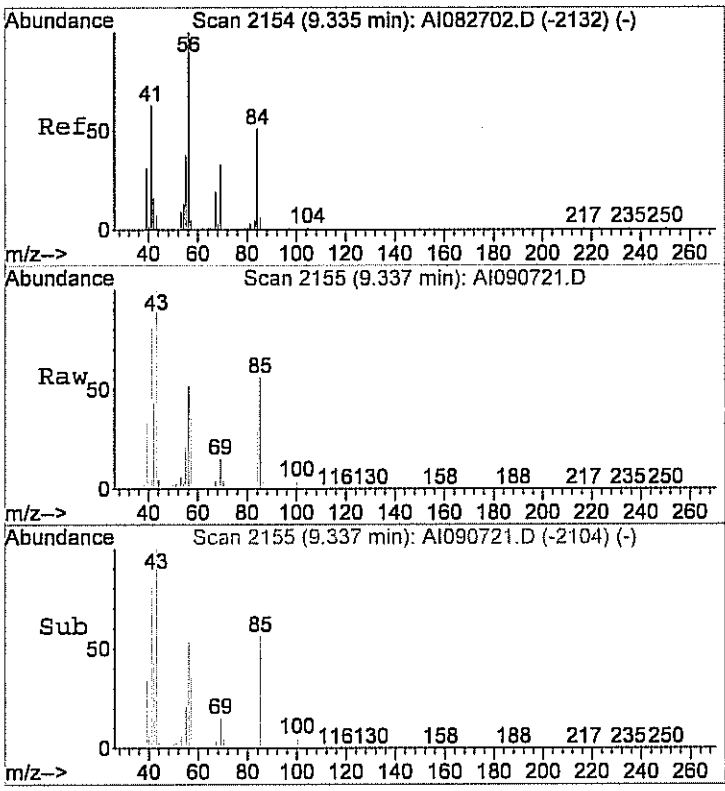


#33
1,1,1-trichloroethane
Concen: 0.26 ppb
RT: 8.65 min Scan# 1925
Delta R.T. 0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 97 Resp: 10776

Ion	Ratio	Lower	Upper
97	100		
99	70.5	43.8	83.8

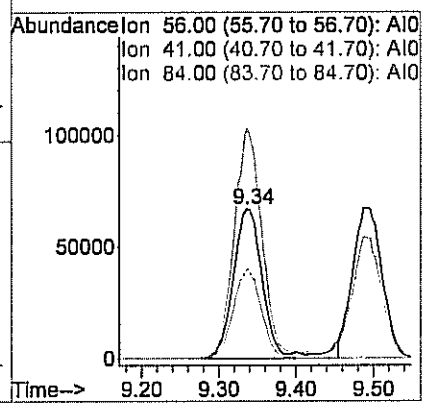


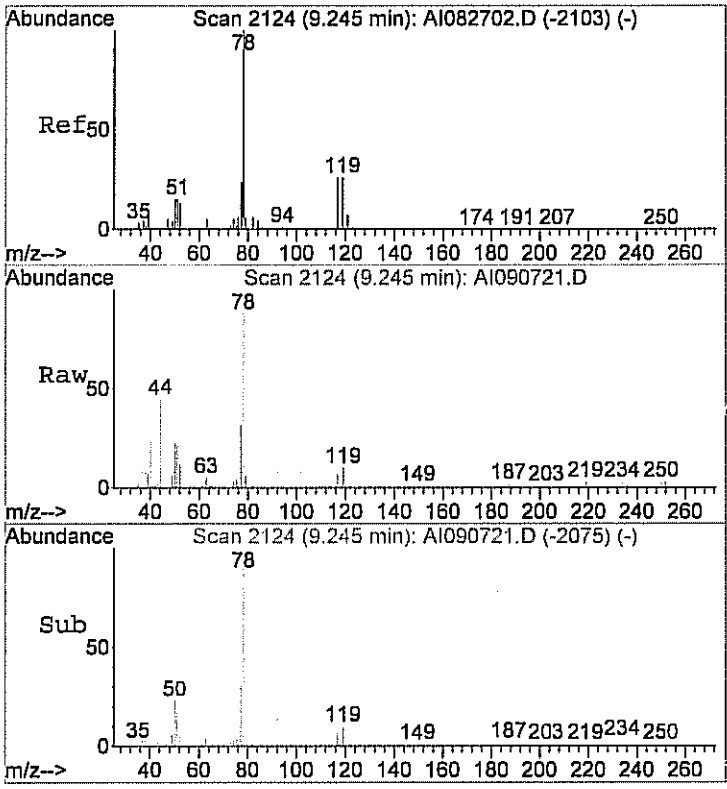


#34
Cyclohexane
Concen: 10.10 ppb
RT: 9.34 min Scan# 2155
Delta R.T. 0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 56 Resp: 182652

Ion	Ratio	Lower	Upper
56	100		
41	153.4	49.1	89.1#
84	55.1	114.6	154.6#

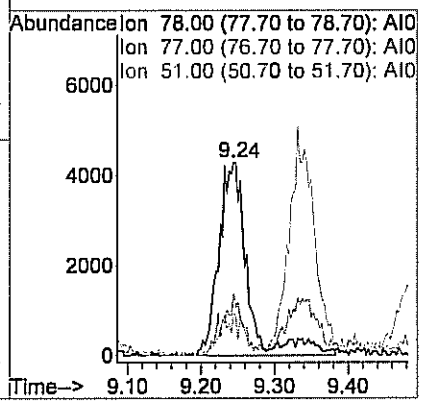


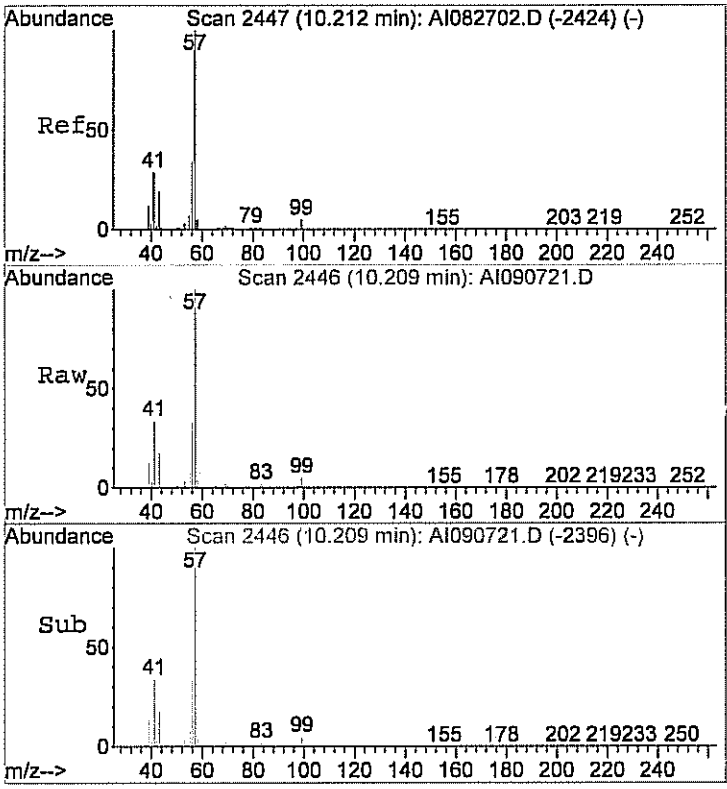


#36
Benzene
Concen: 0.25 ppb
RT: 9.24 min Scan# 2124
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 78 Resp: 11637

Ion	Ratio	Lower	Upper
78	100		
77	23.5	5.2	45.2
51	18.3	0.0	37.6

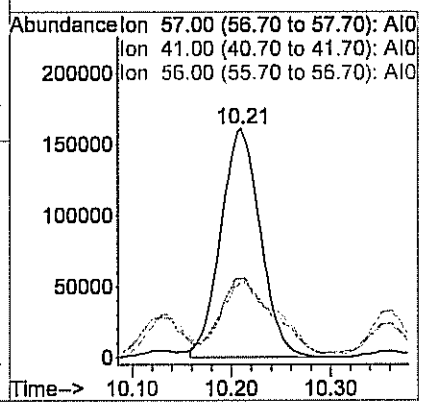


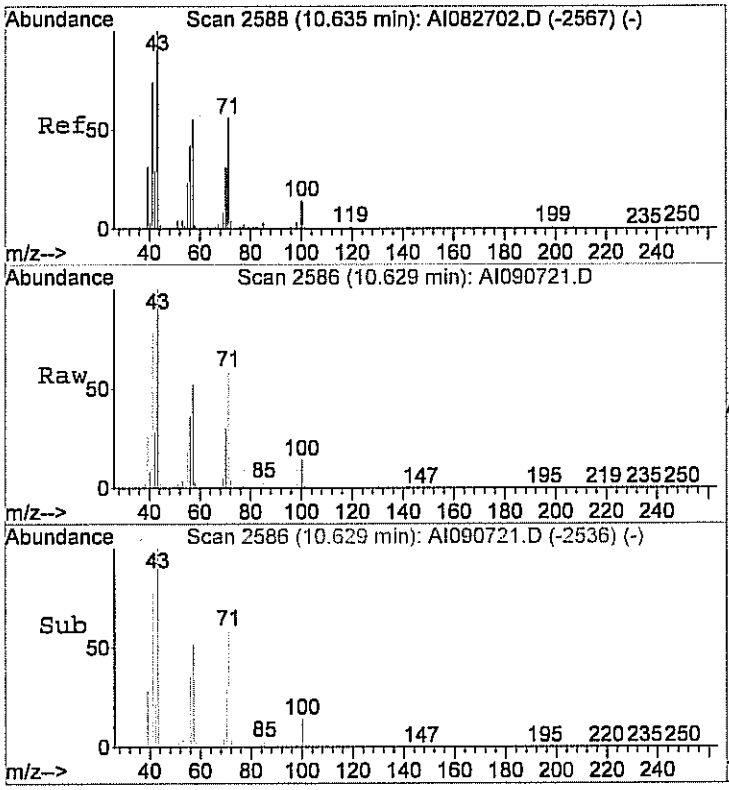


#39
2,2,4-trimethylpentane
Concen: 8.83 ppb
RT: 10.21 min Scan# 2446
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 57 Resp: 444455

Ion	Ratio	Lower	Upper
57	100		
41	71.0	17.9	57.9#
56	66.7	13.7	53.7#

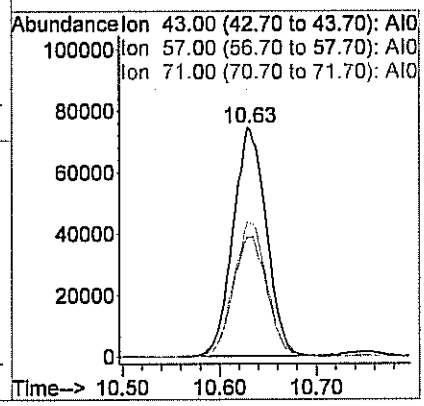


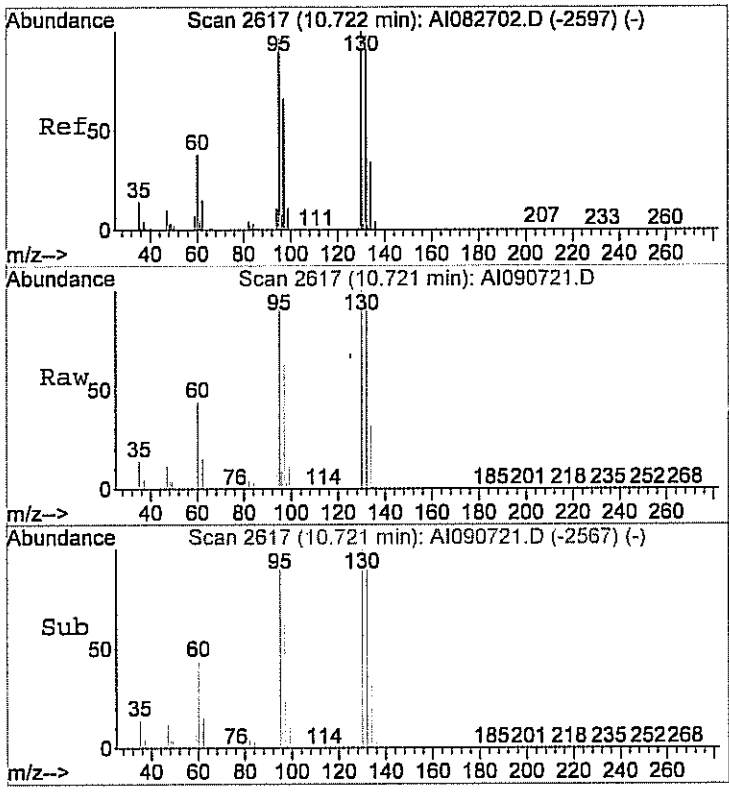


#40
Heptane
Concen: 10.28 ppb
RT: 10.63 min Scan# 2586
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 43 Resp: 177975

Ion	Ratio	Lower	Upper
43	100		
57	54.5	32.1	72.1
71	59.1	35.5	75.5

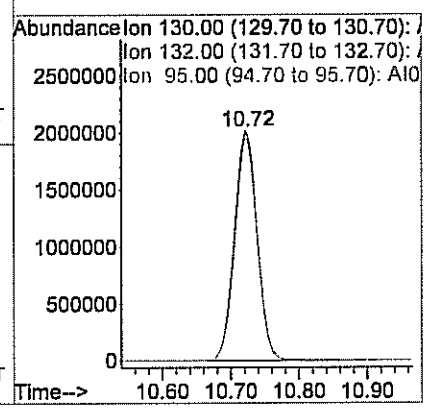


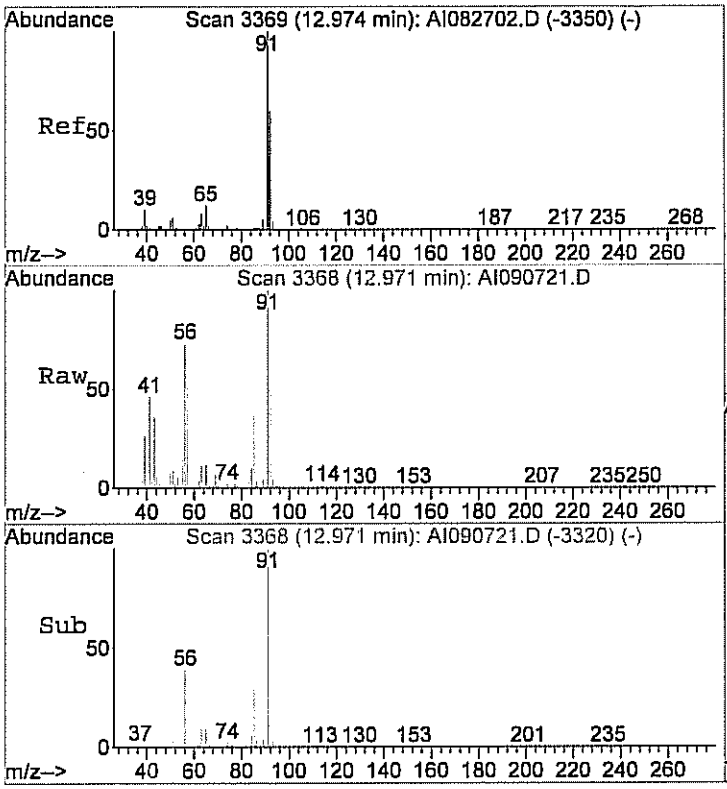


#41
Trichloroethene
Concen: 162.49 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:130 Resp: 4694901

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	96.3	76.8	116.8

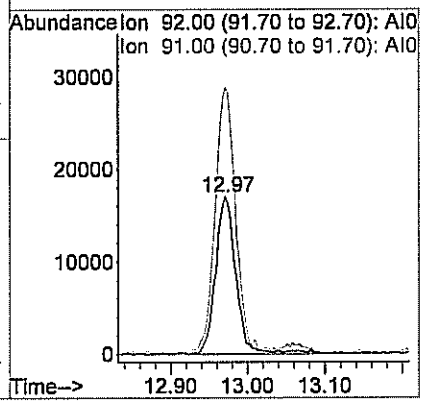


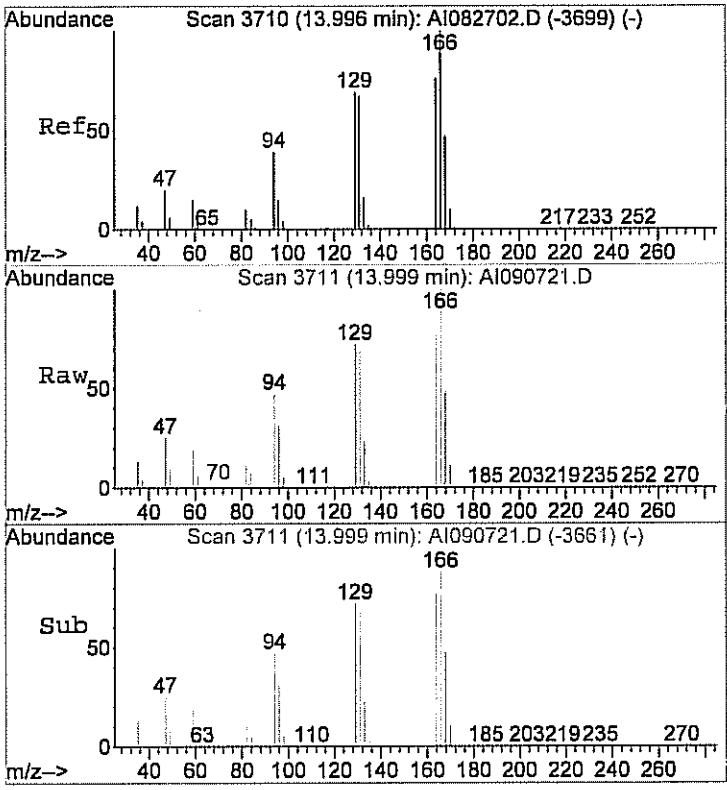


#48
Toluene
Concen: 0.88 ppb
RT: 12.97 min Scan# 3368
Delta R.T. -0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 92 Resp: 32017

Ion	Ratio	Lower	Upper
92	100		
91	175.2	159.8	199.8

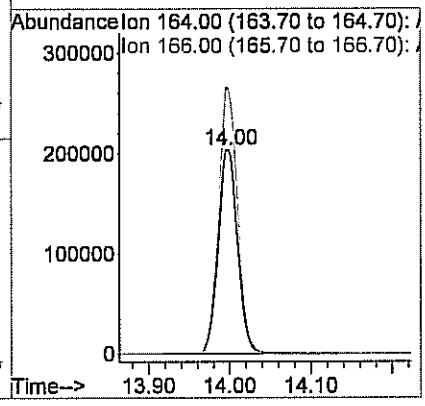


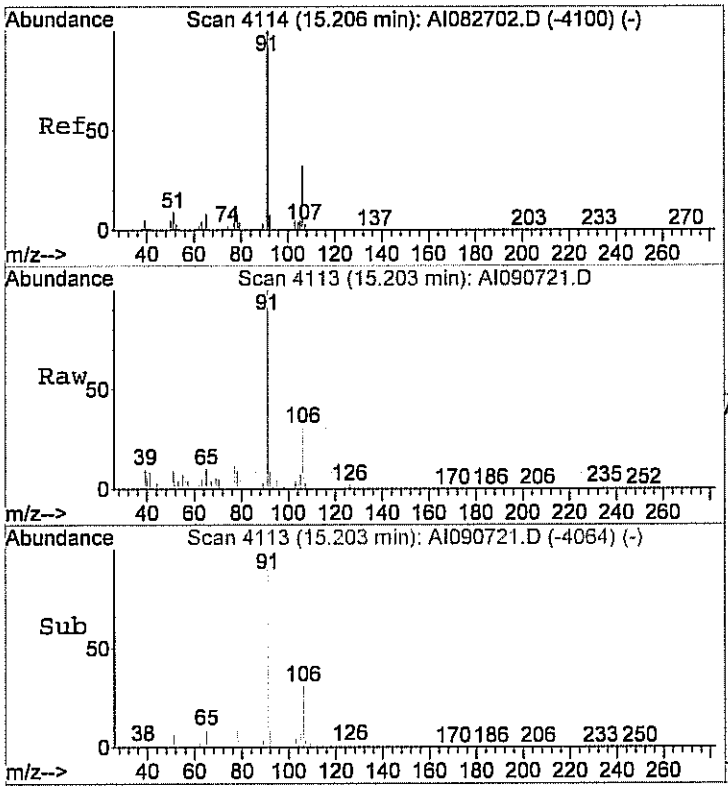


#53
Tetrachloroethylene
Concen: 8.91 ppb
RT: 14.00 min Scan# 3711
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:164 Resp: 342881

Ion	Ratio	Lower	Upper
164	100		
166	128.9	109.4	149.4

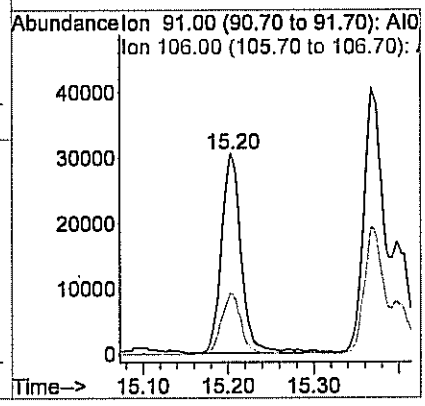


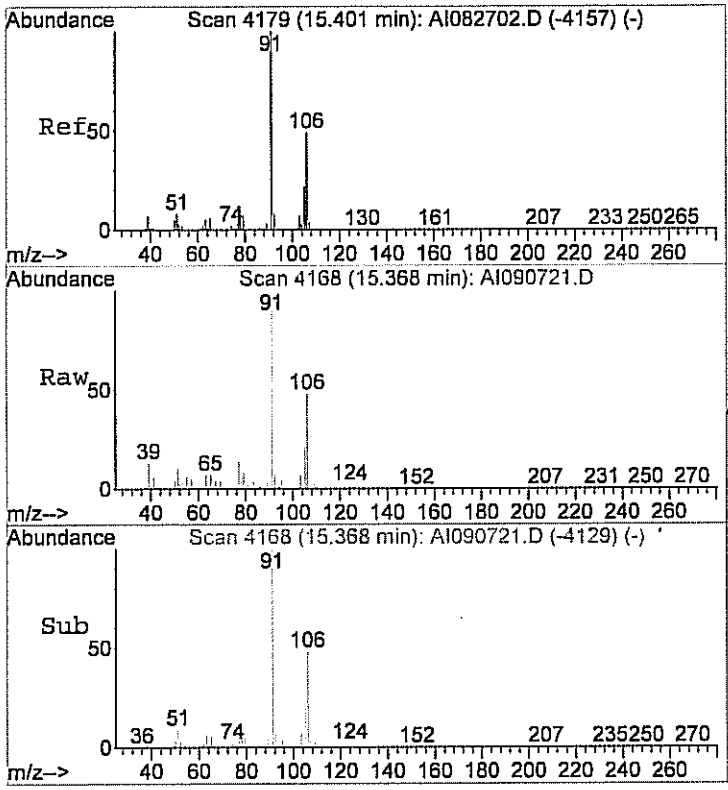


#55
Ethylbenzene
Concen: 0.66 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 91 Resp: 49330

Ion	Ratio	Lower	Upper
91	100		
106	30.3	10.7	50.7

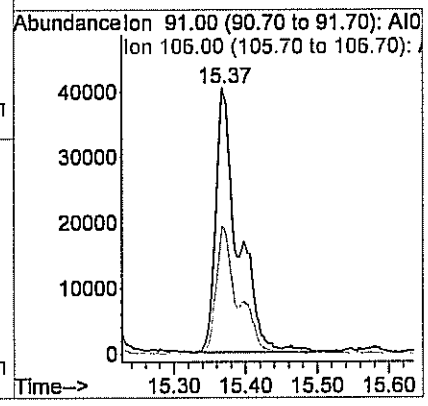


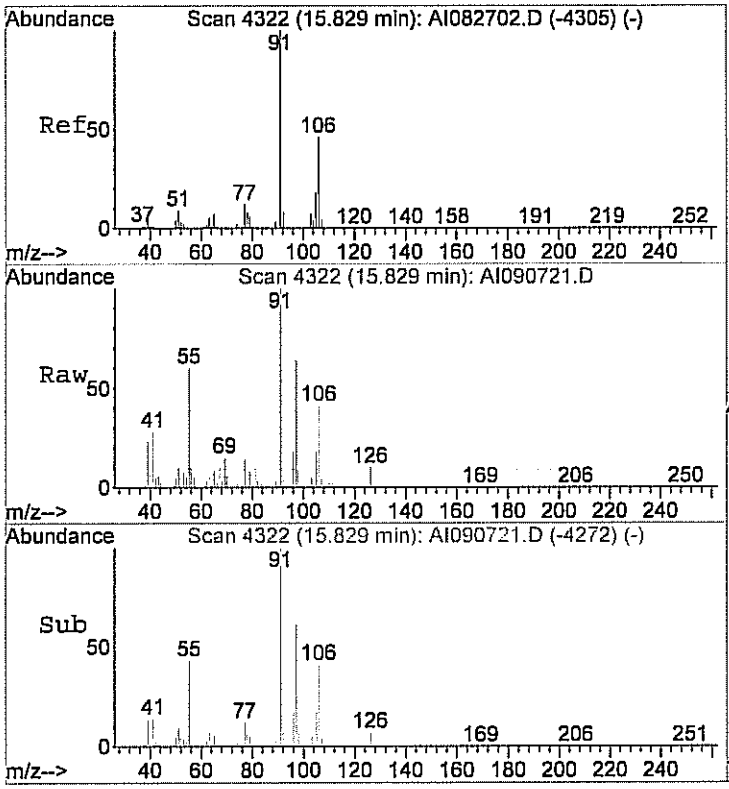


#56
m&p-xylene
Concen: 1.43 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 91 Resp: 87075

Ion	Ratio	Lower	Upper
91	100		
106	47.7	27.5	67.5

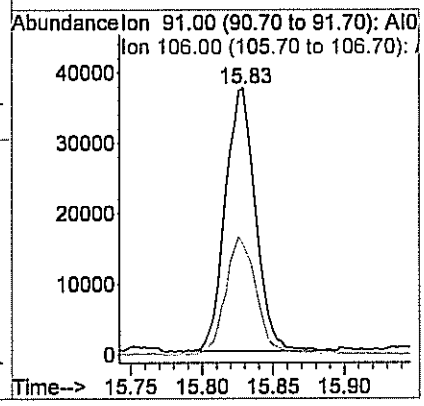


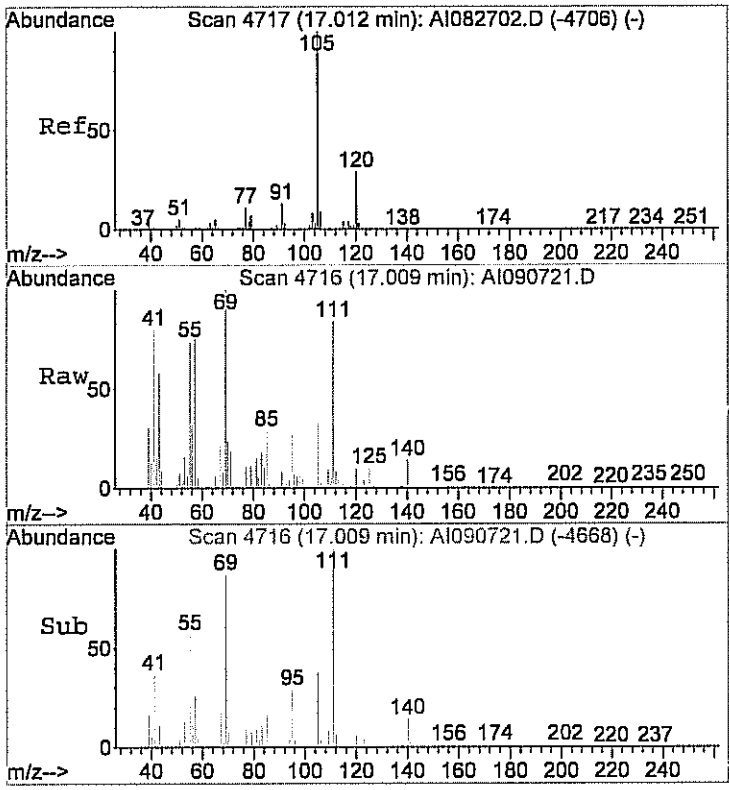


#59
o-xylene
Concen: 0.78 ppb
RT: 15.83 min Scan# 4322
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion: 91 Resp: 55260

Ion	Ratio	Lower	Upper
91	100		
106	47.0	26.2	66.2

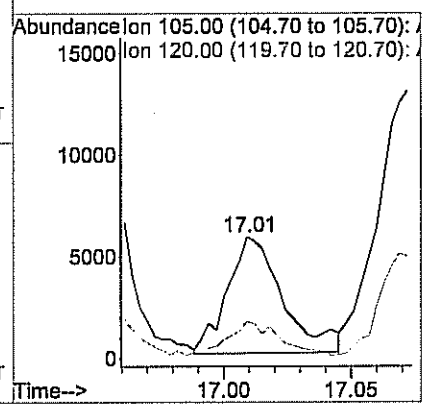


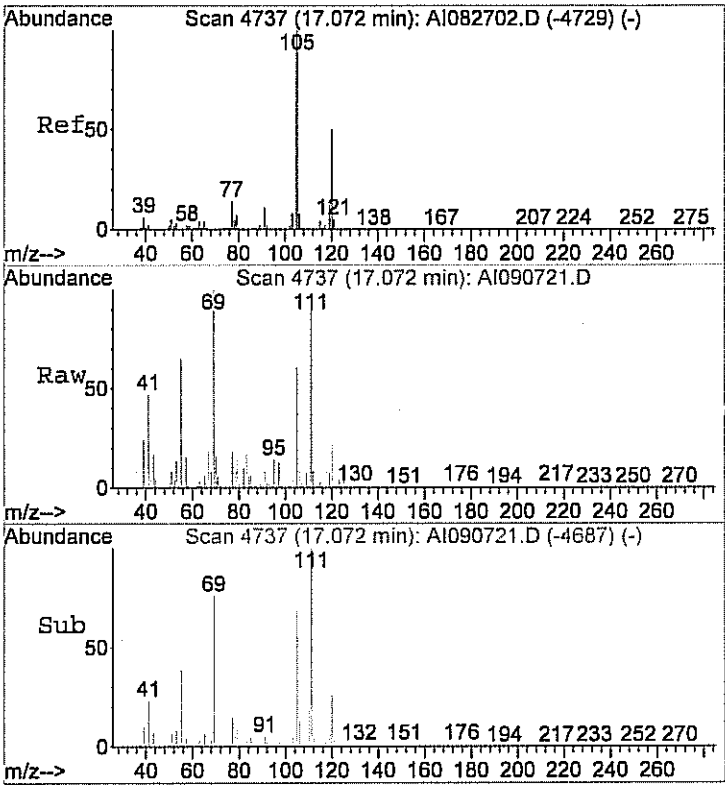


#63
4-ethyltoluene
Concen: 0.15 ppb
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:105 Resp: 8657

Ion	Ratio	Lower	Upper
105	100		
120	32.0	8.1	48.1

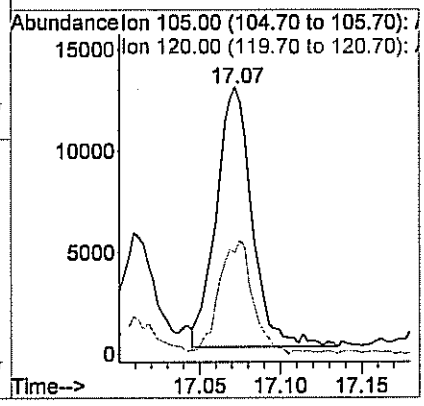


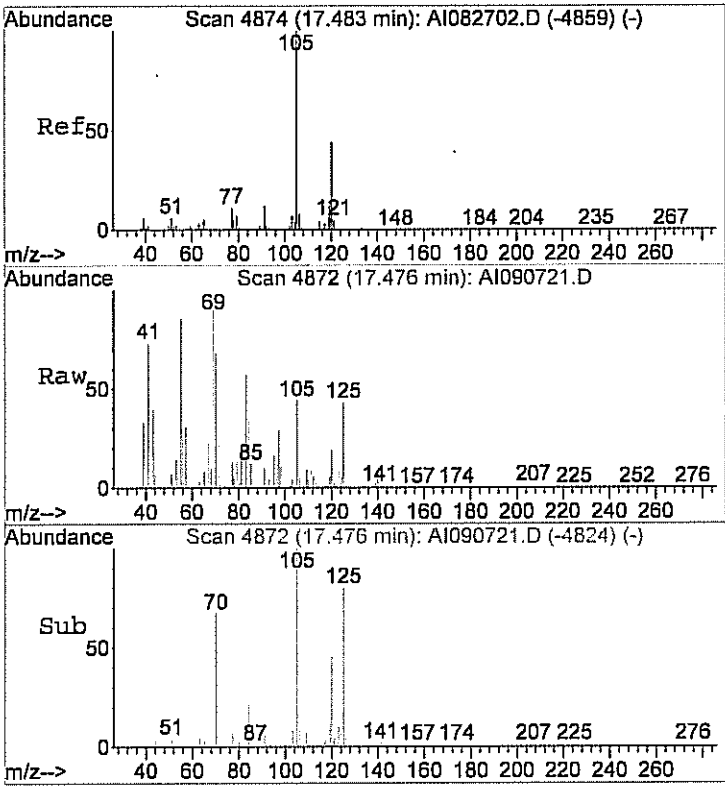


#64
1,3,5-trimethylbenzene
Concen: 0.31 ppb
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:105 Resp: 19719

Ion	Ratio	Lower	Upper
105	100		
120	41.0	26.2	66.2

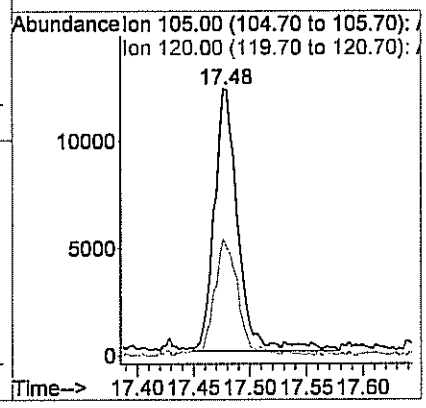




#65
1,2,4-trimethylbenzene
Concen: 0.35 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI090721.D
Acq: 7 Sep 2011 10:18 pm

Tgt Ion:105 Resp: 18069

Ion	Ratio	Lower	Upper
105	100		
120	42.6	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090807.D Vial: 7
Acq On : 8 Sep 2011 1:45 pm Operator: RJP
Sample : C1108077-015A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 14:05:59 2011 Quant Results File: A826_1UG.RES

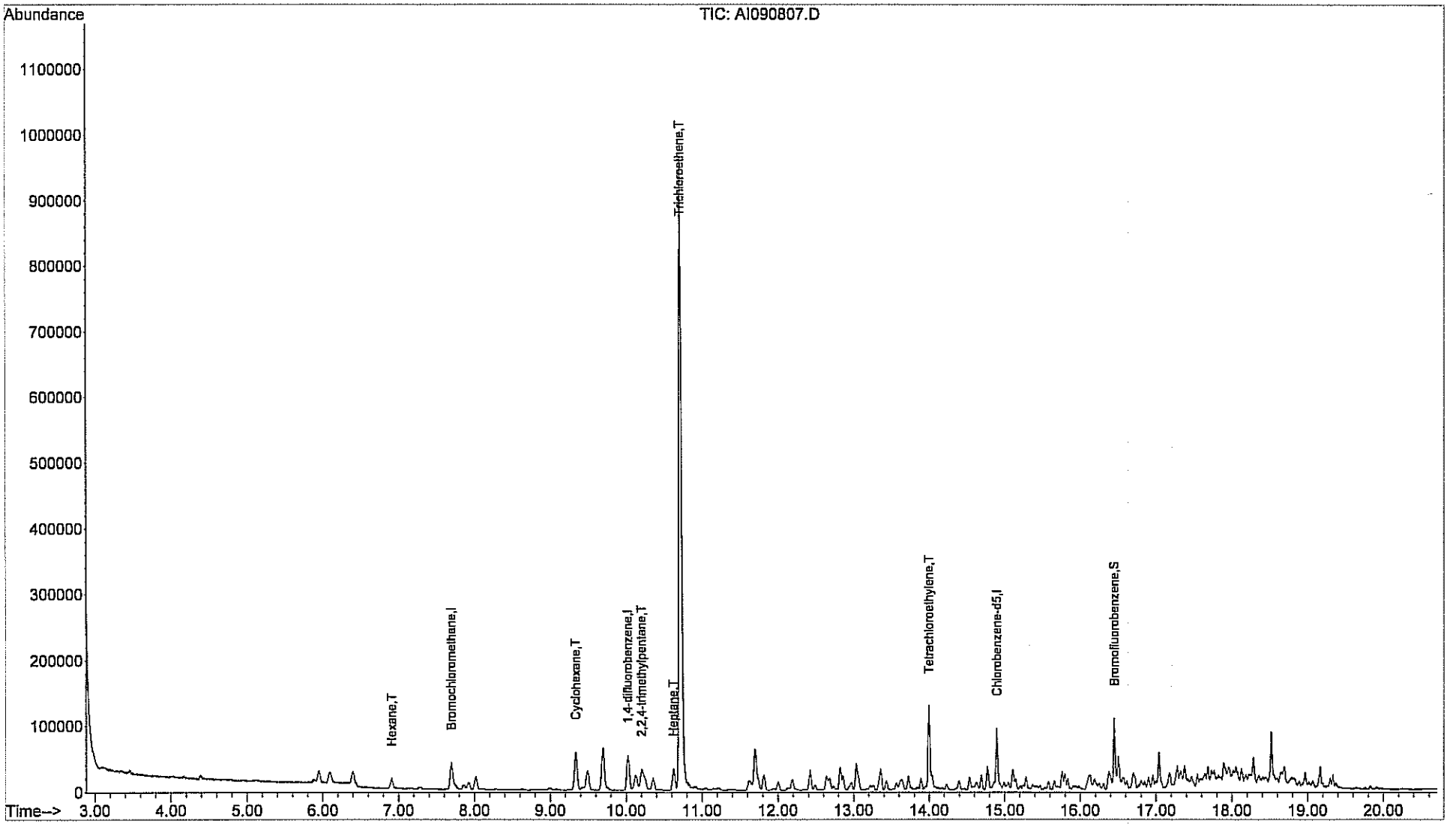
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	15393	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	54594	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	52367	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	28141	1.06	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 106.00%				
Target Compounds							Qvalue
27) Hexane	6.90	57	6677	0.36	ppb		95
34) Cyclohexane	9.34	56	14023	0.79	ppb	#	23
39) 2,2,4-trimethylpentane	10.21	57	32603	0.66	ppb	#	68
40) Heptane	10.63	43	12500	0.73	ppb		99
41) Trichloroethene	10.72	130	400560	14.04	ppb		98
53) Tetrachloroethylene	14.00	164	27613	0.76	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090807.D A826_1UG.M Wed Sep 28 16:03:49 2011 MSD1 Page 1

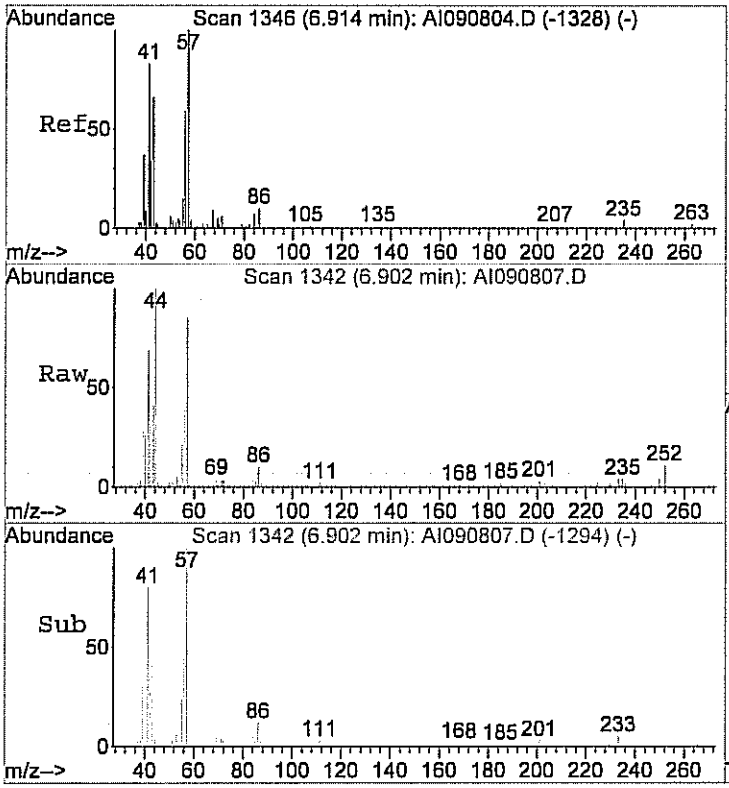
Data File : C:\HPCHEM\1\DATA\AI090807.D Vial: 7
Acq On : 8 Sep 2011 1:45 pm Operator: RJP
Sample : C1108077-015A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:13 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Page 424 of 560

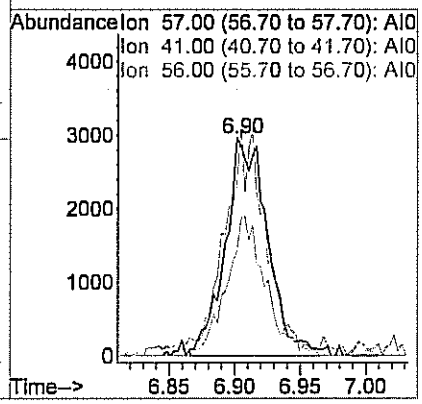
Centek Laboratories, LLC

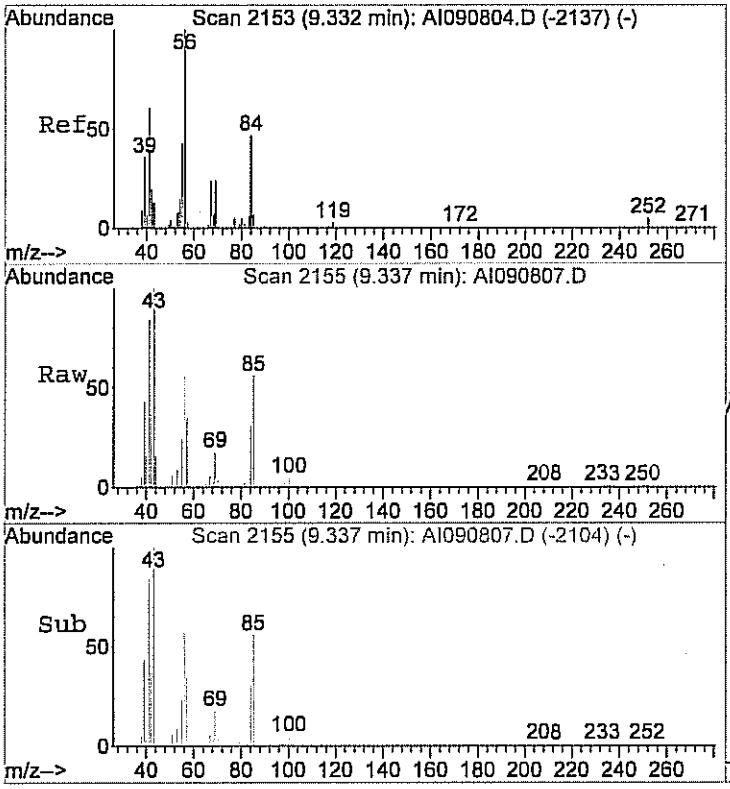


#27
Hexane
Concen: 0.36 ppb
RT: 6.90 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion: 57 Resp: 6677

Ion	Ratio	Lower	Upper
57	100		
41	101.0	75.5	115.5
56	58.7	35.9	75.9

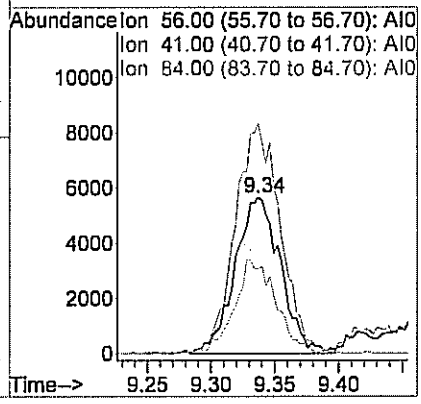


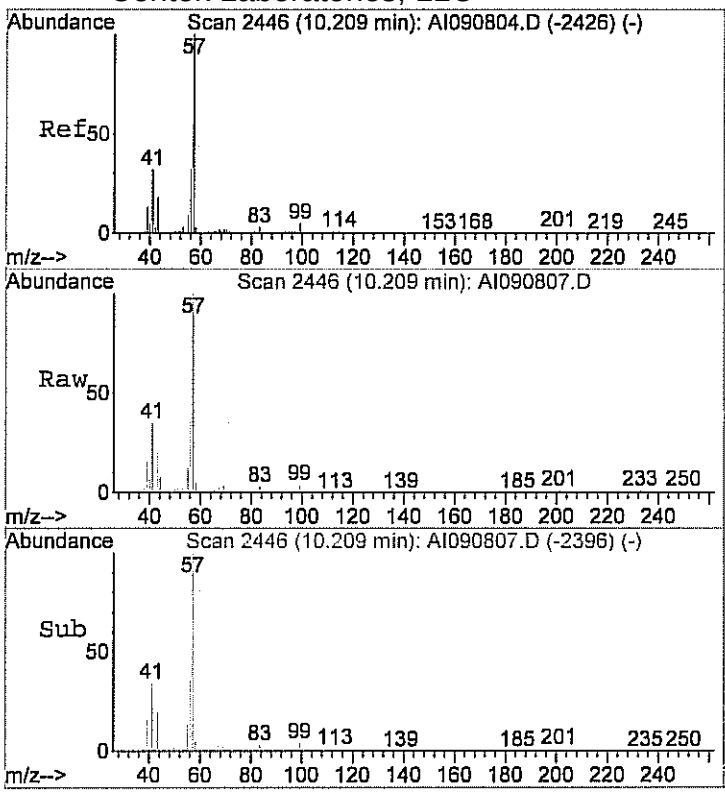


#34
Cyclohexane
Concen: 0.79 ppb
RT: 9.34 min Scan# 2155
Delta R.T. 0.00 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion: 56 Resp: 14023

Ion	Ratio	Lower	Upper
56	100		
41	146.4	49.1	89.1#
84	54.4	114.6	154.6#

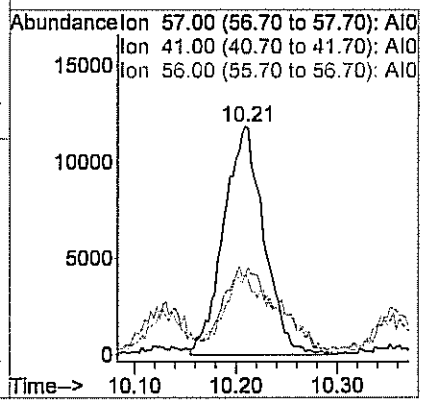


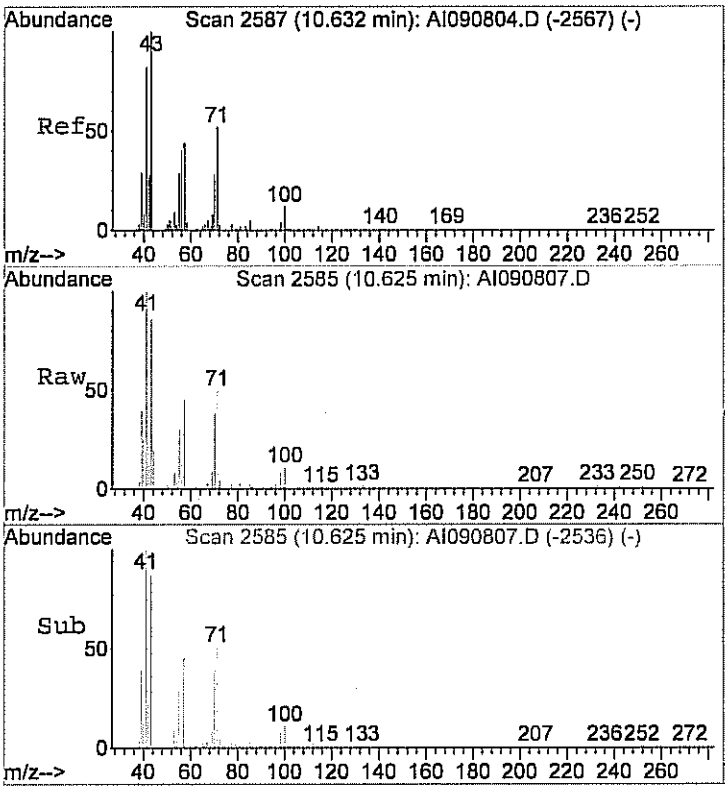


#39
2,2,4-trimethylpentane
Concen: 0.66 ppb
RT: 10.21 min Scan# 2446
Delta R.T. -0.00 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion: 57 Resp: 32603

Ion	Ratio	Lower	Upper
57	100		
41	35.2	17.9	57.9
56	69.4	13.7	53.7#

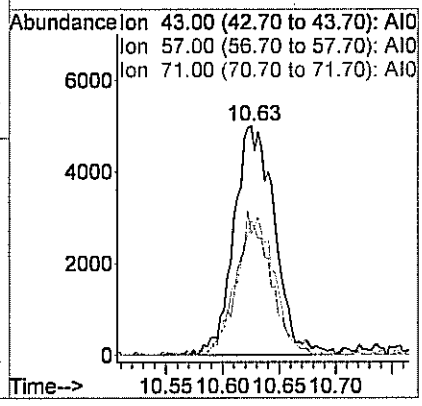


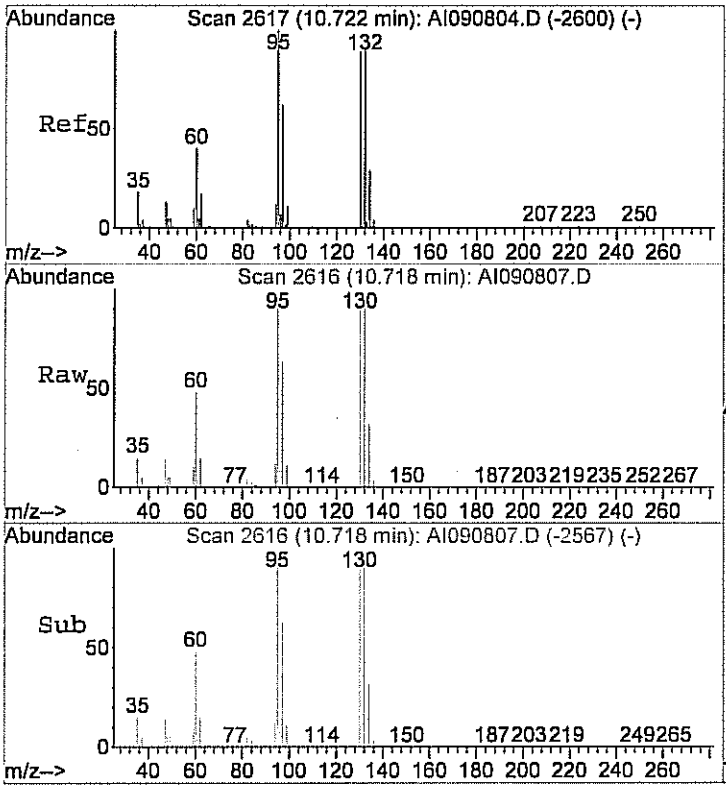


#40
Heptane
Concen: 0.73 ppb
RT: 10.63 min Scan# 2585
Delta R.T. -0.00 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion: 43 Resp: 12500

Ion	Ratio	Lower	Upper
43	100		
57	51.8	32.1	72.1
71	57.2	35.5	75.5

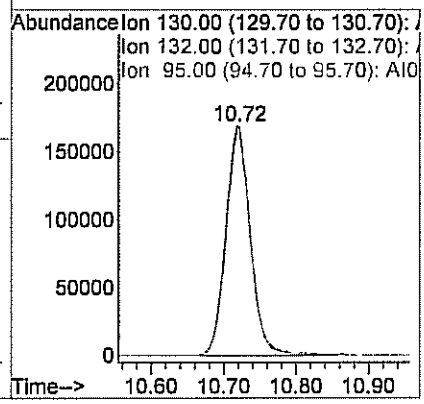


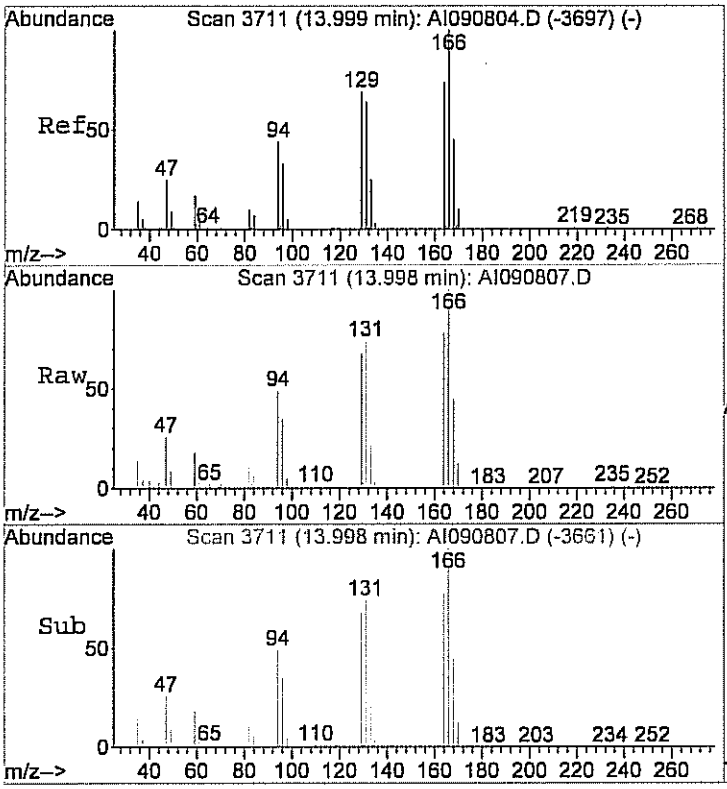


#41
Trichloroethene
Concen: 14.04 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion:130 Resp: 400560

Ion	Ratio	Lower	Upper
130	100		
132	97.4	79.0	119.0
95	98.5	76.8	116.8

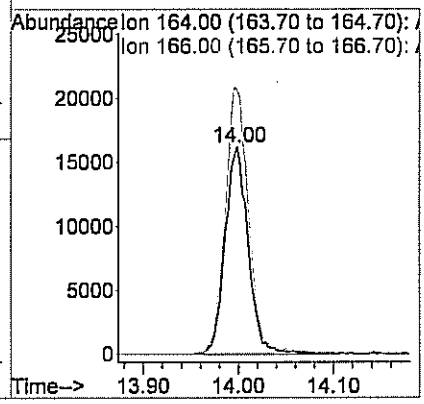




#53
Tetrachloroethylene
Concen: 0.76 ppb
RT: 14.00 min Scan# 3711
Delta R.T. -0.00 min
Lab File: AI090807.D
Acq: 8 Sep 2011 1:45 pm

Tgt Ion:164 Resp: 27613

Ion	Ratio	Lower	Upper
164	100		
166	128.3	109.4	149.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090809.D Vial: 7
Acq On : 8 Sep 2011 3:01 pm Operator: RJP
Sample : C1108077-015A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 15:22:25 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

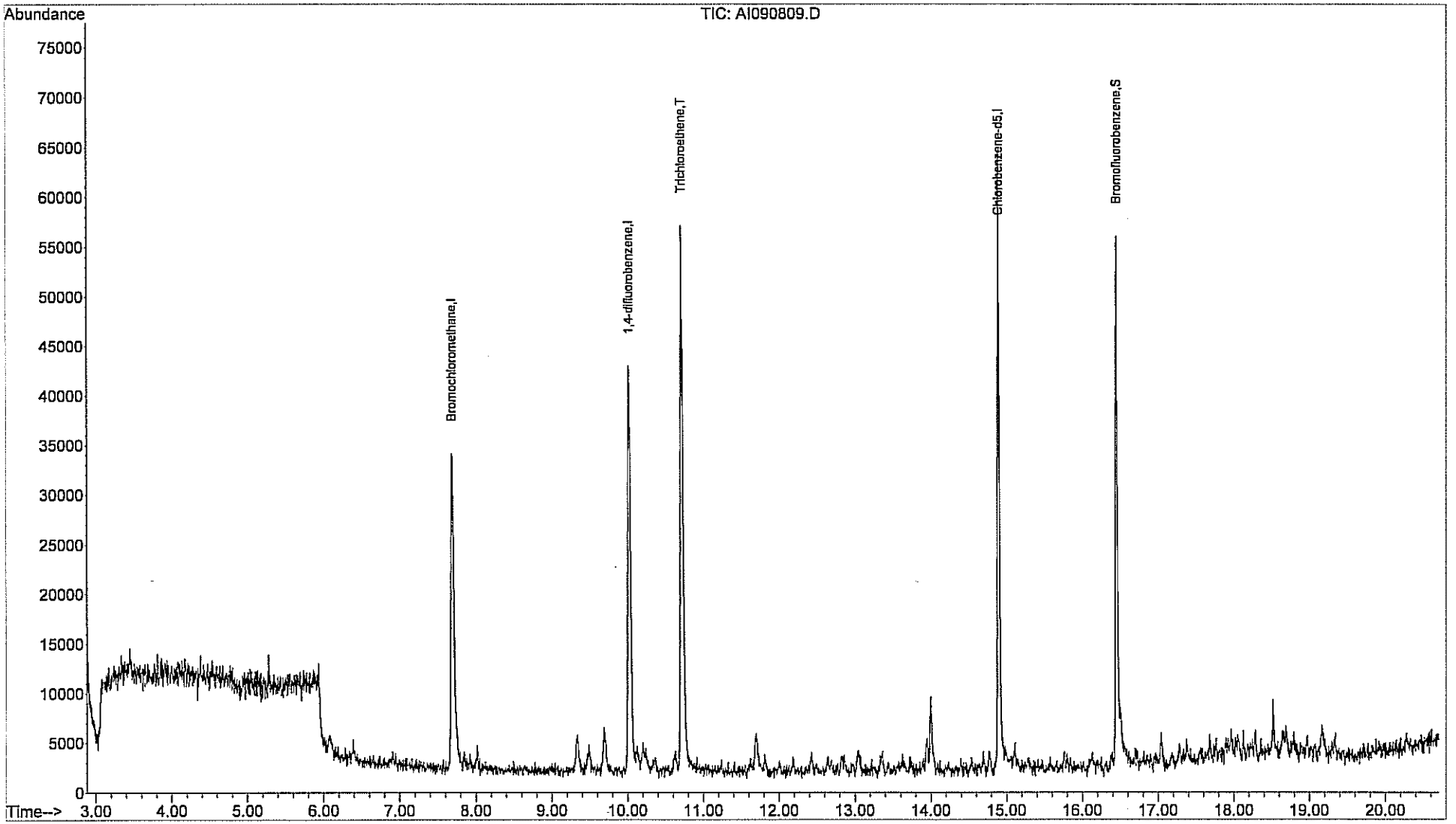
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	13124	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	42895	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	38172	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	18235	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.72	130	23445	1.05	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

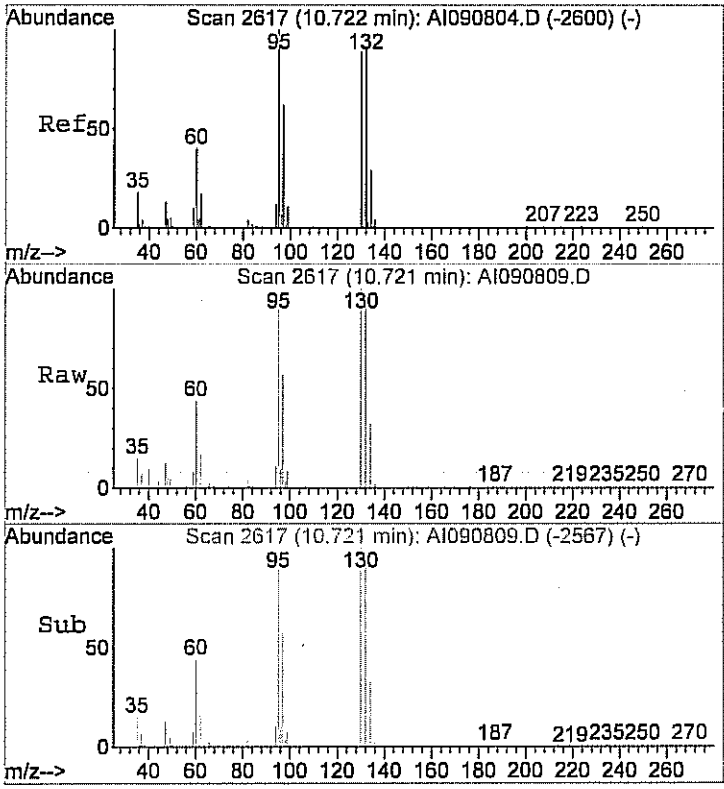
Data File : C:\HPCHEM\1\DATA\AI090809.D
Acq On : 8 Sep 2011 3:01 pm
Sample : C1108077-015A 90X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:14 2011

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



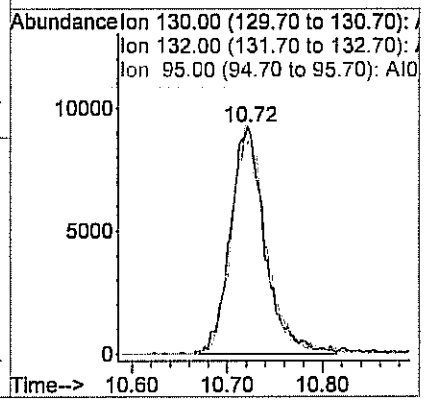
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 1.05 ppb
RT: 10.72 min Scan# 2617
Delta R.T. -0.00 min
Lab File: AI090809.D
Acq: 8 Sep 2011 3:01 pm

Tgt Ion:130 Resp: 23445

Ion	Ratio	Lower	Upper
130	100		
132	99.3	79.0	119.0
95	98.8	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Acetone	3.5	3.0		ppbV	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzene	0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	1.3	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Cyclohexane	4.9	1.5		ppbV	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 10:50:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.17	0.30	J	ppbV	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	9/8/2011 2:16:00 PM
Toluene	0.21	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Trichloroethene	100	14		ppbV	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Acetone	8.5	7.2		ug/m3	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:50:00 PM
Benzene	0.49	0.49		ug/m3	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:50:00 PM
Chloroform	8.9	0.74		ug/m3	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	5.1	0.60		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Cyclohexane	17	5.2		ug/m3	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.75	1.3	J	ug/m3	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	9/8/2011 2:16:00 PM
Toluene	0.80	0.57		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Trichloroethene	570	76		ug/m3	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090722.D Vial: 42
Acq On : 7 Sep 2011 10:50 pm Operator: RJP
Sample : C1108077-016A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 23:11:32 2011 Quant Results File: A826_1UG.RES

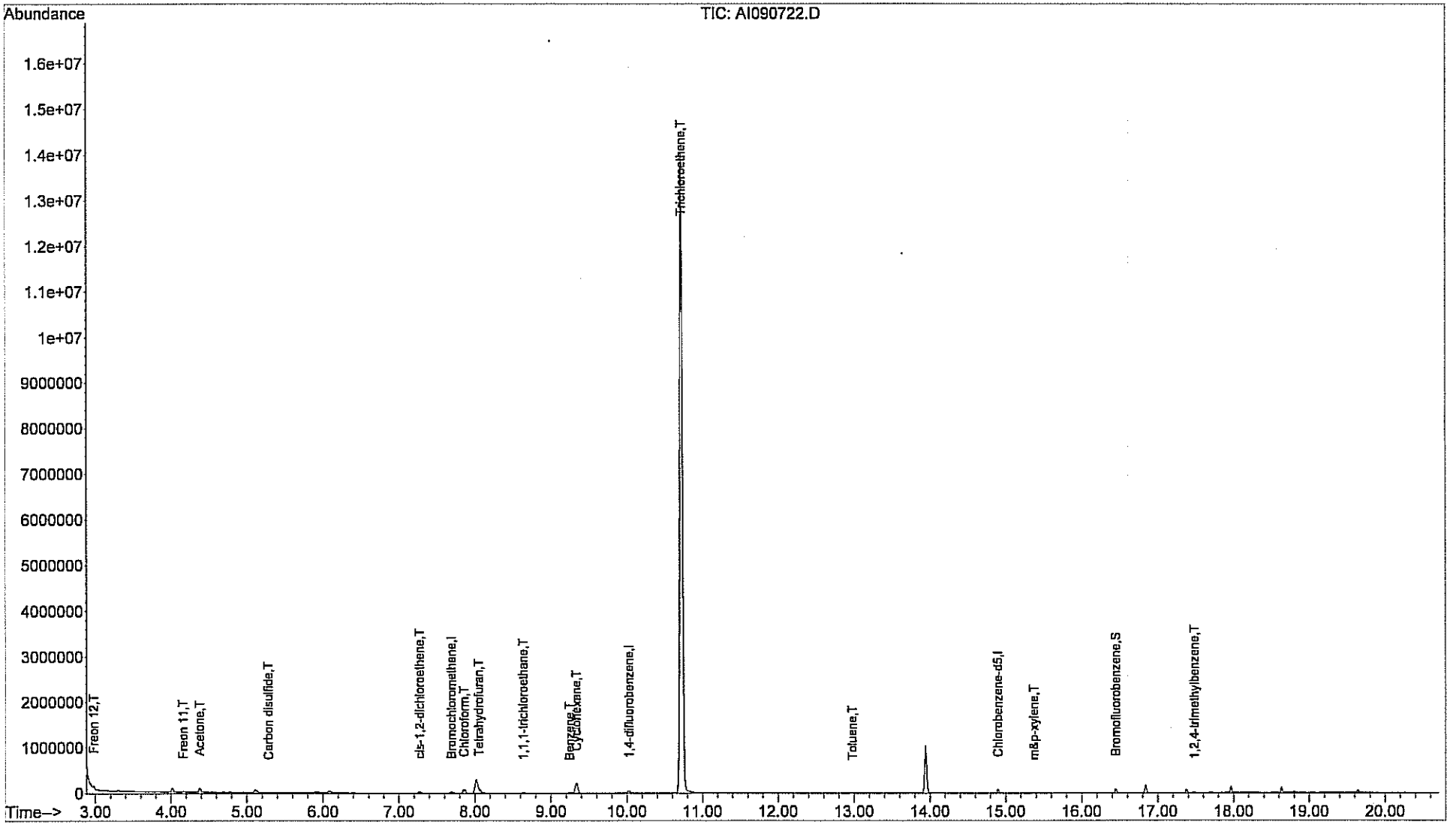
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13789	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	52538	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	45895	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	27943	1.20	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	34094	0.58	ppb		99
13) Freon 11	4.16	101	13357	0.29	ppb		100
14) Acetone	4.37	58	11177	2.30	ppb	#	1
20) Carbon disulfide	5.28	76	6949	0.18	ppb		95
26) cis-1,2-dichloroethene	7.27	61	25636	1.27	ppb		97
29) Chloroform	7.86	83	76256	1.79	ppb		100
30) Tetrahydrofuran	8.06	42	55679m	6.47	ppb		
33) 1,1,1-trichloroethane	8.64	97	12757	0.33	ppb		97
34) Cyclohexane	9.34	56	106101	6.18	ppb	#	77
36) Benzene	9.24	78	6955	0.15	ppb		98
41) Trichloroethene	10.72	130	6056926	220.64	ppb		99
48) Toluene	12.98	92	6243	0.21	ppb		95
56) m&p-xylene	15.37	91	8604	0.17	ppb		96
65) 1,2,4-trimethylbenzene	17.48	105	7772	0.18	ppb		98

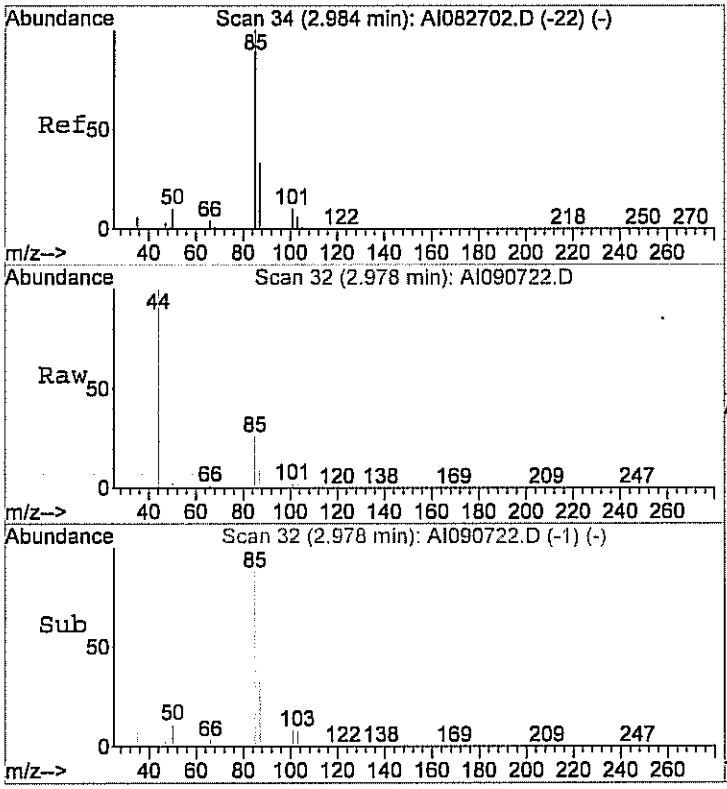
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090722.D Vial: 42
Acq On : 7 Sep 2011 10:50 pm Operator: RJP
Sample : C1108077-016A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:34 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



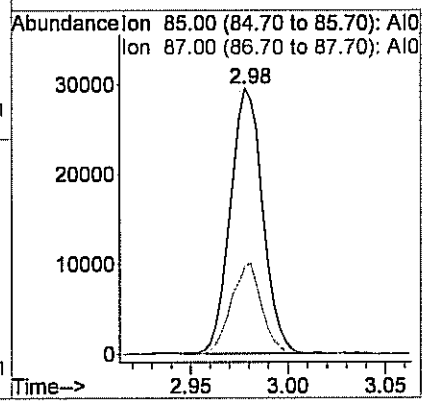
Centek Laboratories, LLC

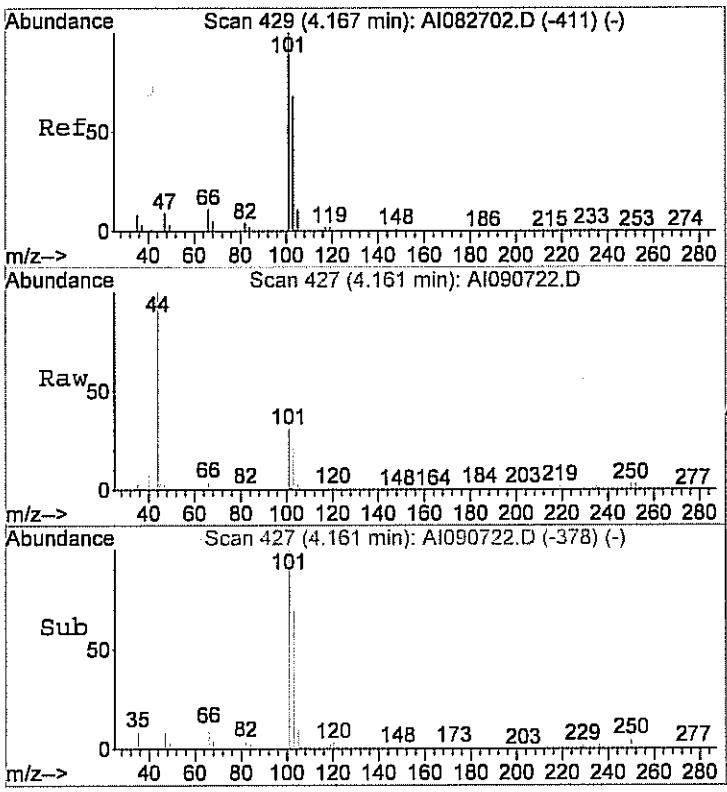


#3
Freon 12
Concen: 0.58 ppb
RT: 2.98 min Scan# 32
Delta R.T. -0.01 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 85 Resp: 34094

Ion	Ratio	Lower	Upper
85	100		
87	32.6	12.2	52.2

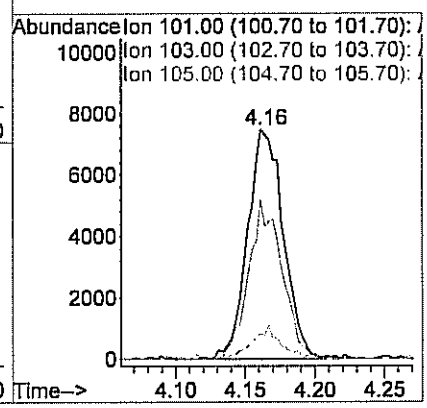


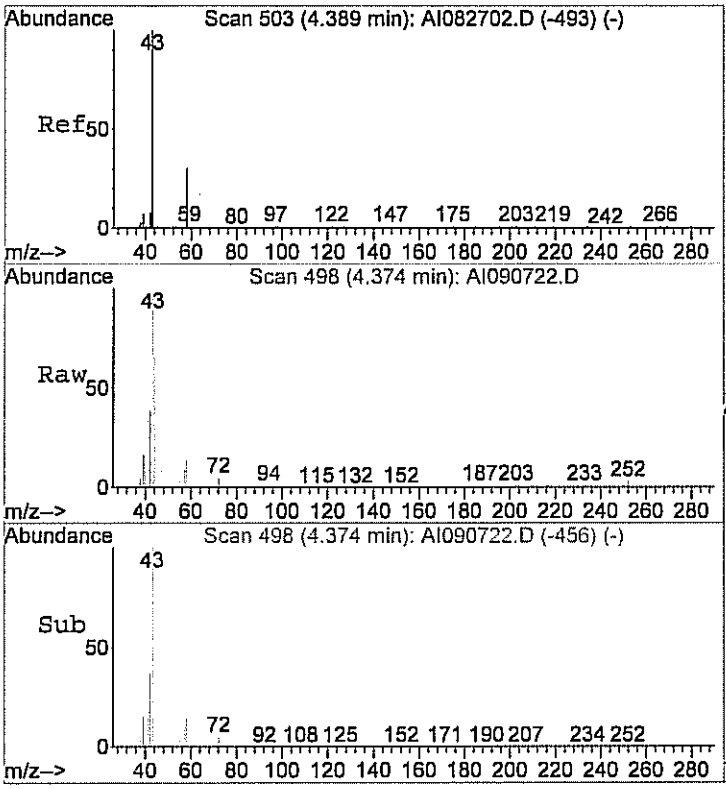


#13
Freon 11
Concen: 0.29 ppb
RT: 4.16 min Scan# 427
Delta R.T. -0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion:101 Resp: 13357

Ion	Ratio	Lower	Upper
101	100		
103	65.0	44.9	84.9
105	12.0	0.0	30.9

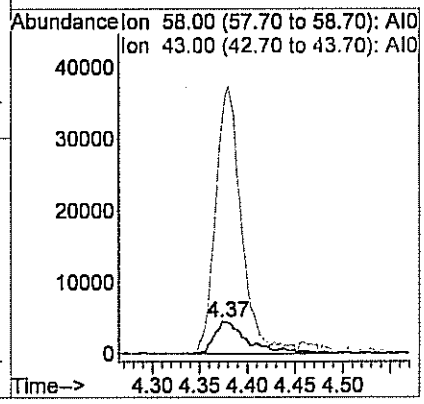


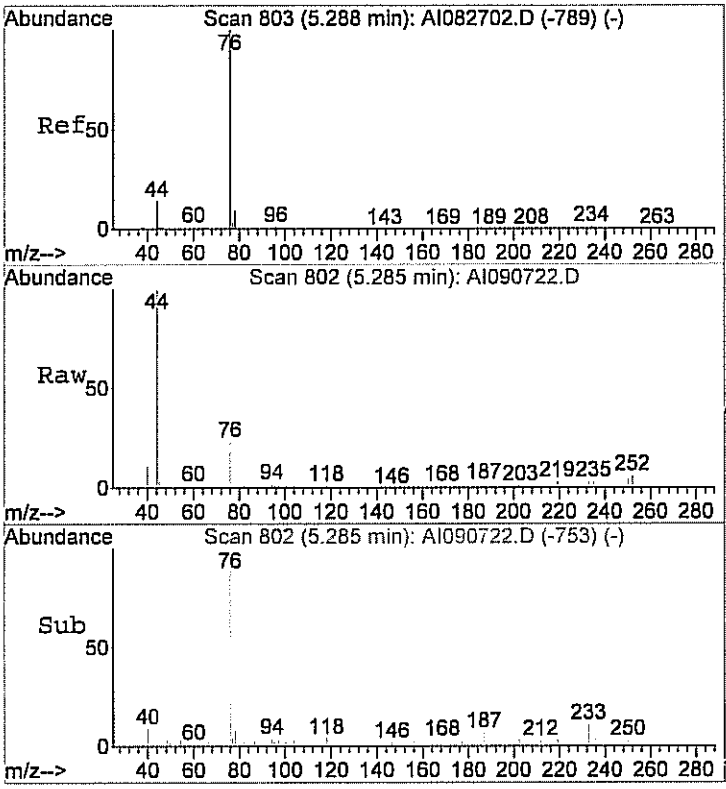


#14
Acetone
Concen: 2.30 ppb
RT: 4.37 min Scan# 498
Delta R.T. -0.02 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 58 Resp: 11177

Ion	Ratio	Lower	Upper
58	100		
43	625.7	360.8	420.8#

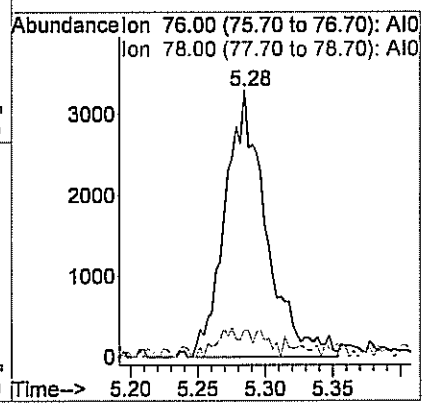


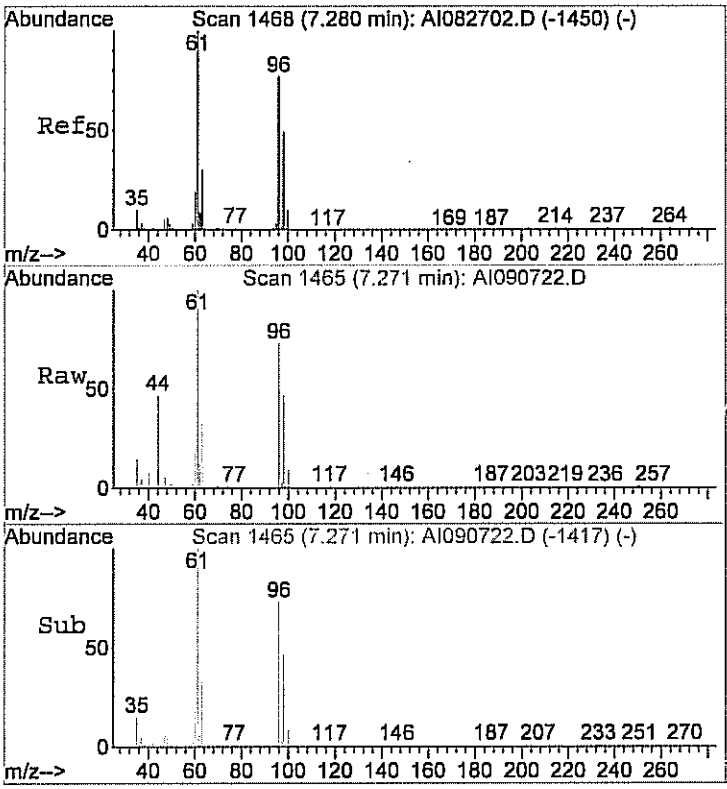


#20
Carbon disulfide
Concen: 0.18 ppb
RT: 5.28 min Scan# 802
Delta R.T. -0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 76 Resp: 6949

Ion	Ratio	Lower	Upper
76	100		
78	11.3	0.0	29.6

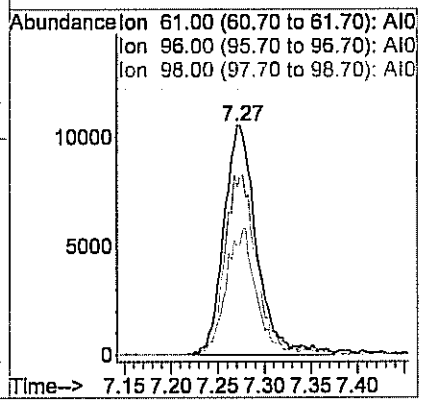


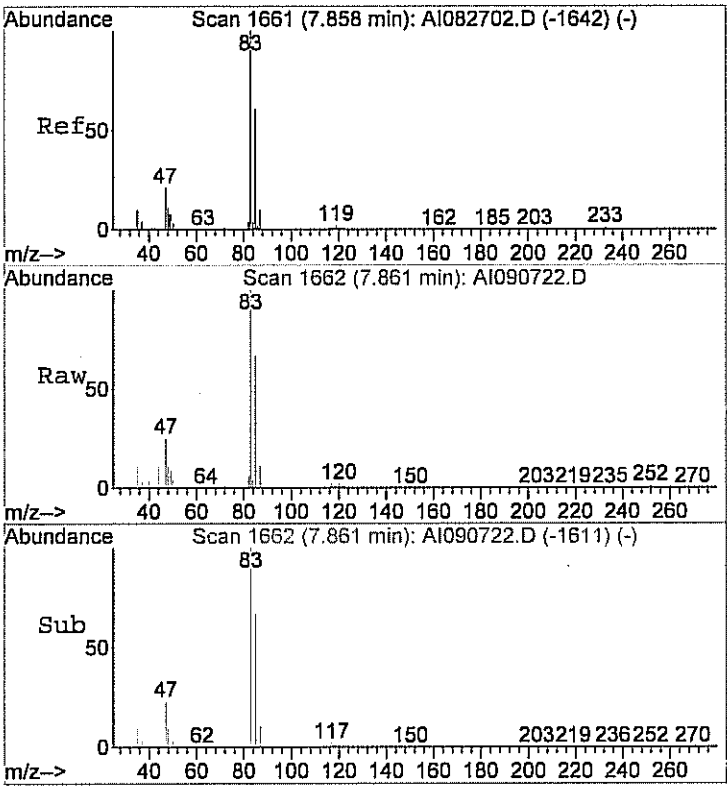


#26
cis-1,2-dichloroethene
Concen: 1.27 ppb
RT: 7.27 min Scan# 1465
Delta R.T. -0.01 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 61 Resp: 25636

Ion	Ratio	Lower	Upper
61	100		
96	79.8	56.6	96.6
98	52.5	30.4	70.4

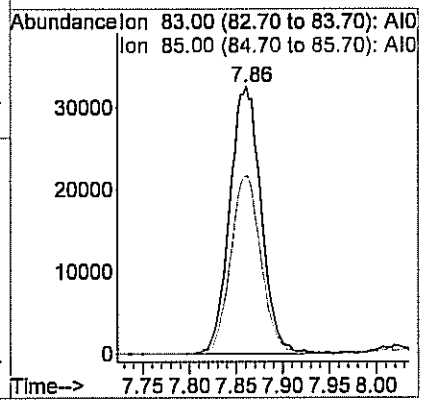


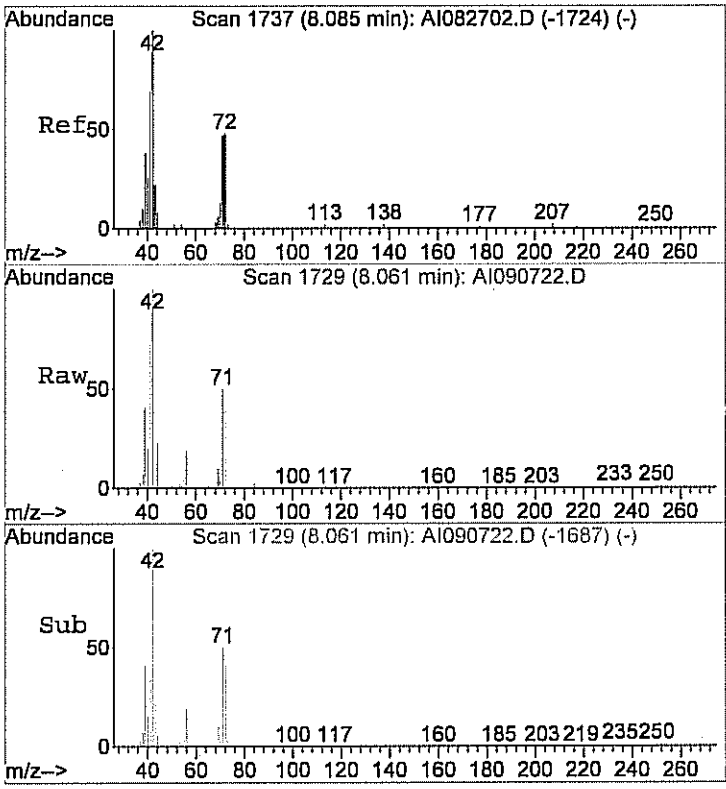


#29
Chloroform
Concen: 1.79 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 83 Resp: 76256

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.0	85.0

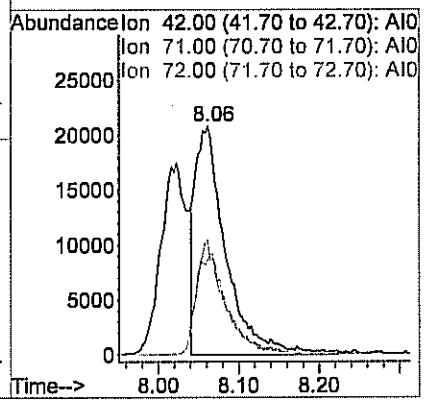


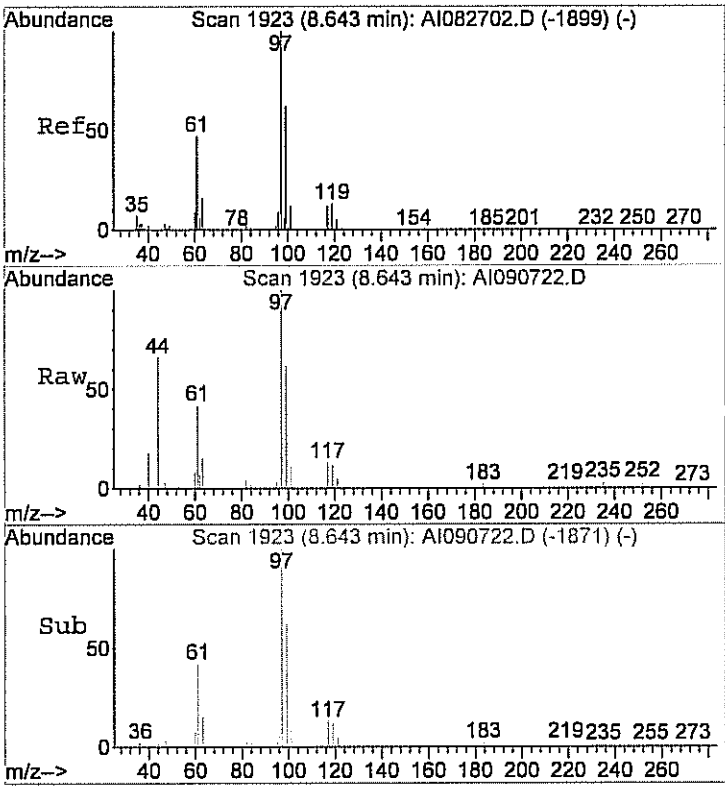


#30
Tetrahydrofuran
Concen: 6.47 ppb m
RT: 8.06 min Scan# 1729
Delta R.T. -0.02 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 42 Resp: 55679

Ion	Ratio	Lower	Upper
42	100		
71	46.8	24.6	64.6
72	45.7	26.5	66.5

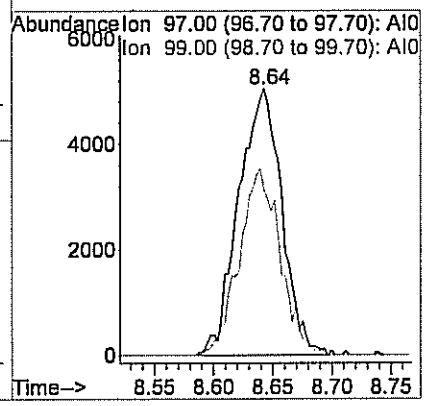


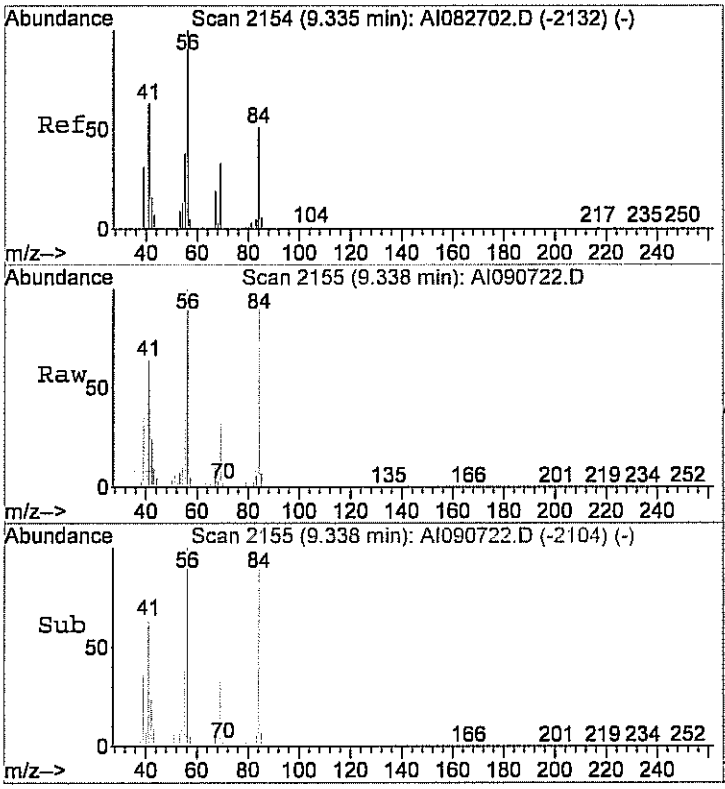


#33
1,1,1-trichloroethane
Concen: 0.33 ppb
RT: 8.64 min Scan# 1923
Delta R.T. 0.01 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 97 Resp: 12757

Ion	Ratio	Lower	Upper
97	100		
99	65.9	43.8	83.8

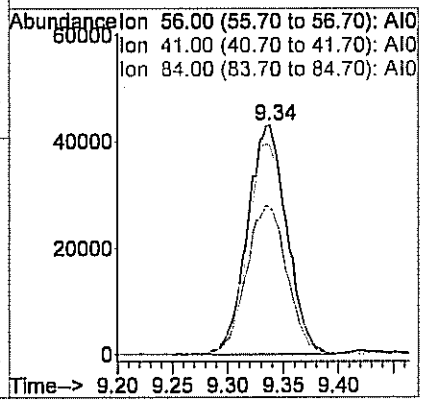


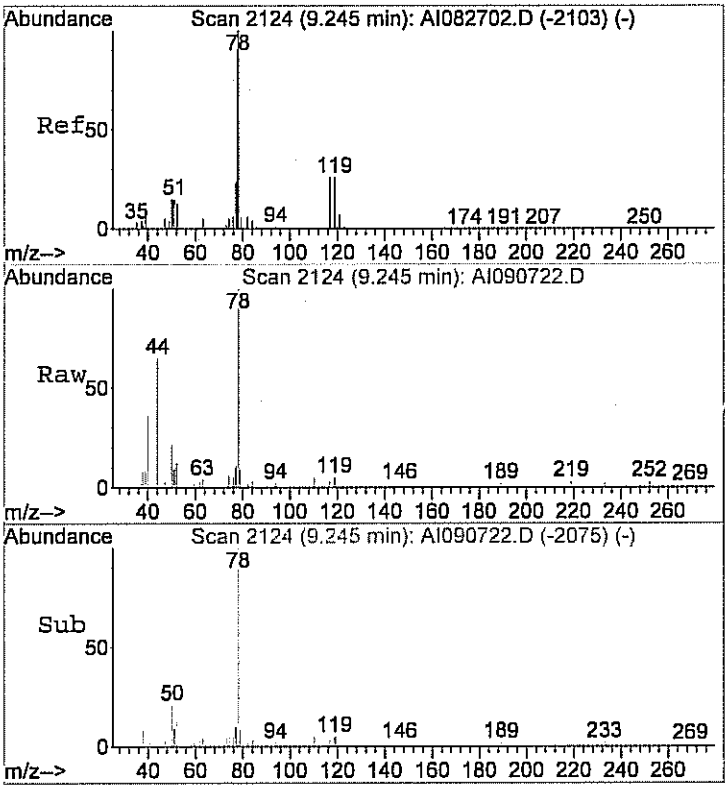


#34
Cyclohexane
Concen: 6.18 ppb
RT: 9.34 min Scan# 2155
Delta R.T. 0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 56 Resp: 106101

Ion	Ratio	Lower	Upper
56	100		
41	69.4	49.1	89.1
84	93.5	114.6	154.6#

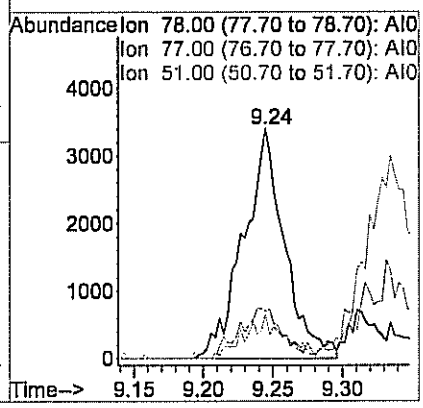


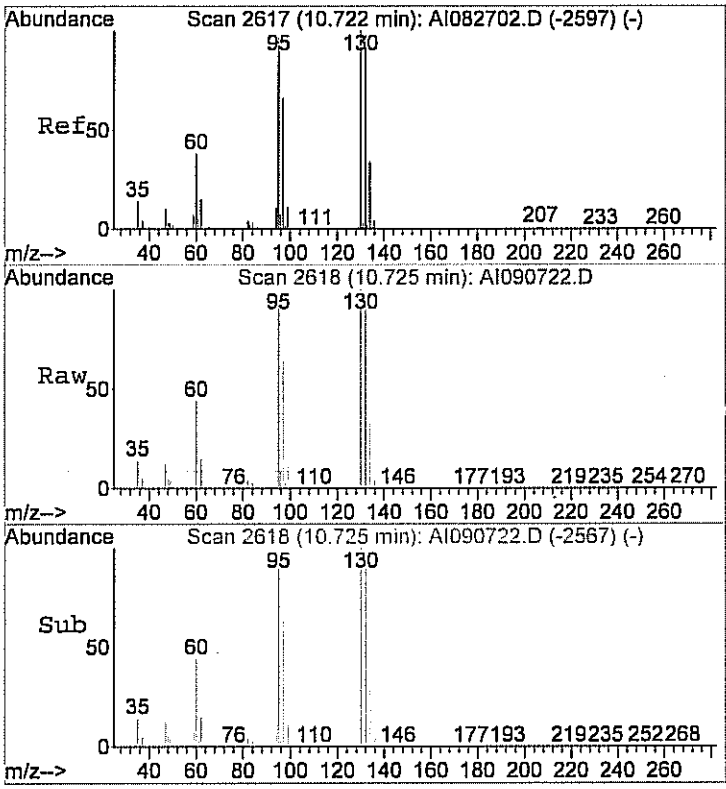


#36
Benzene
Concen: 0.15 ppb
RT: 9.24 min Scan# 2124
Delta R.T. -0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 78 Resp: 6955

Ion	Ratio	Lower	Upper
78	100		
77	23.2	5.2	45.2
51	17.4	0.0	37.6

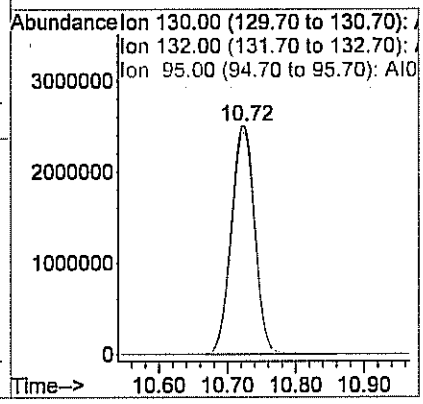


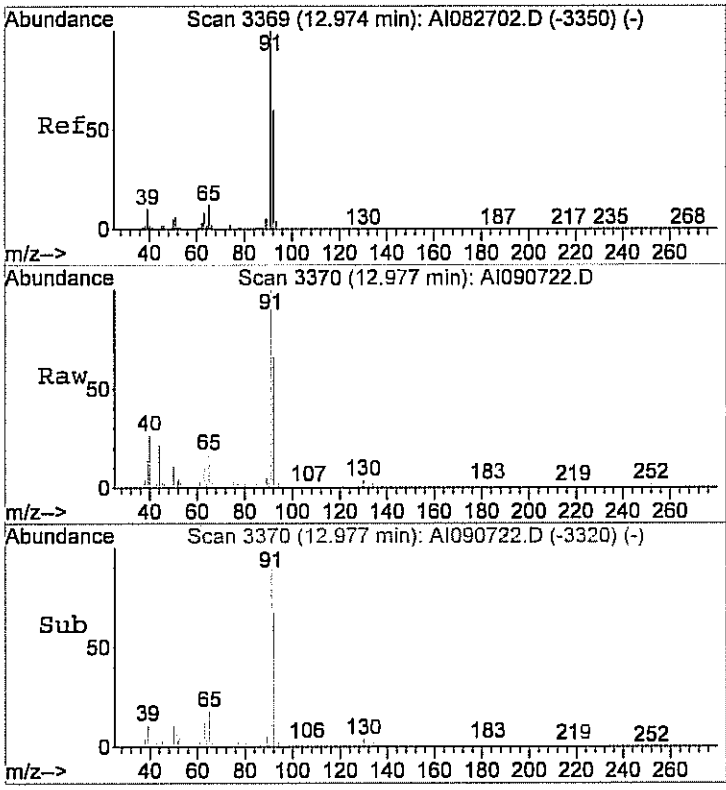


#41
Trichloroethene
Concen: 220.64 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion:130 Resp: 6056926

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	96.5	76.8	116.8

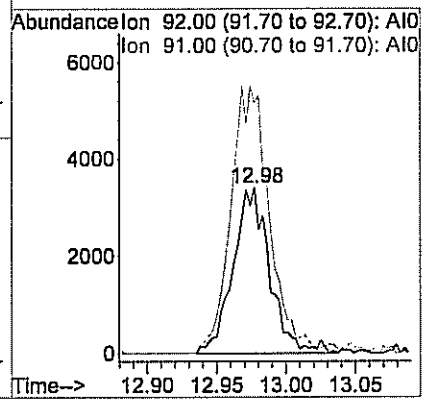


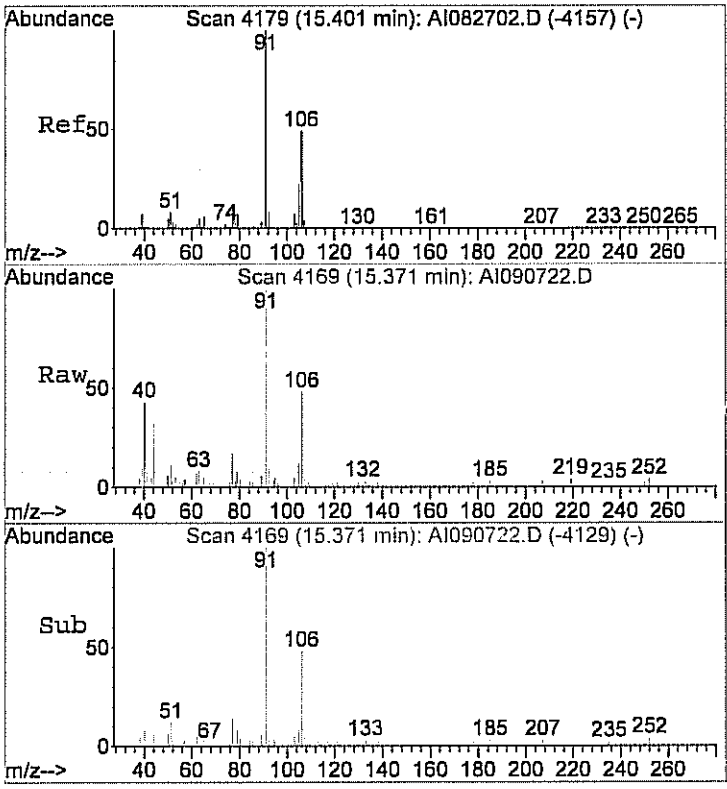


#48
Toluene
Concen: 0.21 ppb
RT: 12.98 min Scan# 3370
Delta R.T. 0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 92 Resp: 6243

Ion	Ratio	Lower	Upper
92	100		
91	172.7	159.8	199.8

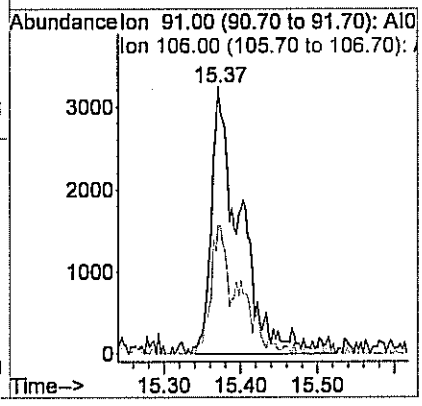


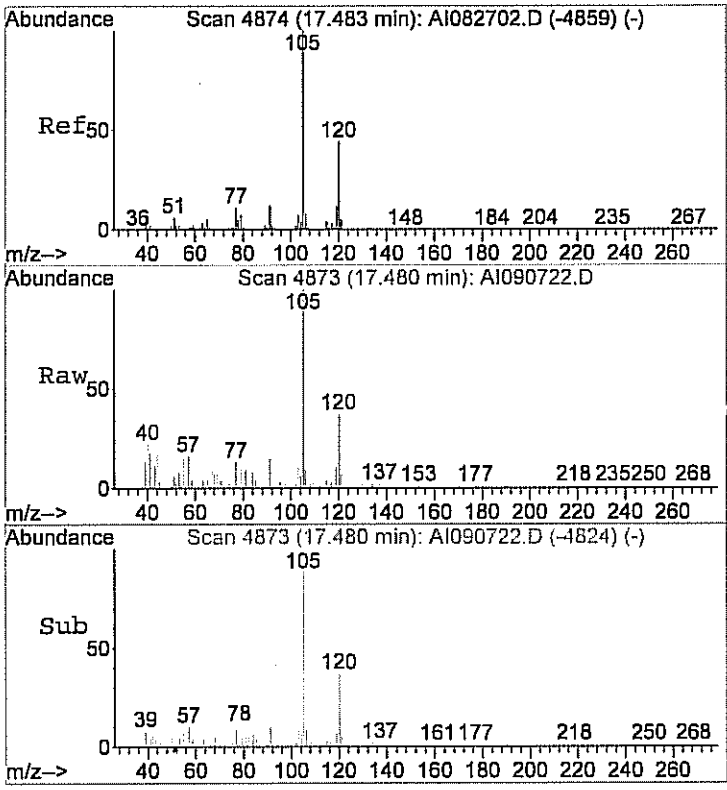


#56
m&p-xylene
Concen: 0.17 ppb
RT: 15.37 min Scan# 4169
Delta R.T. -0.03 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion: 91 Resp: 8604

Ion	Ratio	Lower	Upper
91	100		
106	45.1	27.5	67.5

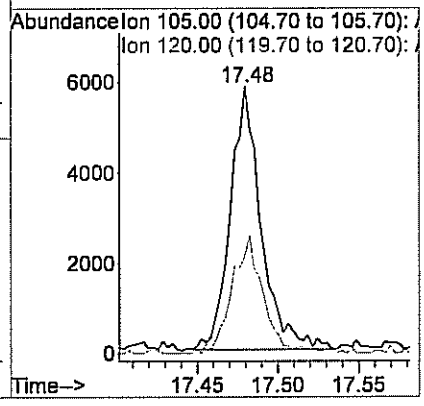




#65
1,2,4-trimethylbenzene
Concen: 0.18 ppb
RT: 17.48 min Scan# 4873
Delta R.T. -0.00 min
Lab File: AI090722.D
Acq: 7 Sep 2011 10:50 pm

Tgt Ion:105 Resp: 7772

Ion	Ratio	Lower	Upper
105	100		
120	46.0	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090808.D Vial: 8
Acq On : 8 Sep 2011 2:16 pm Operator: RJP
Sample : C1108077-016A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 14:37:26 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

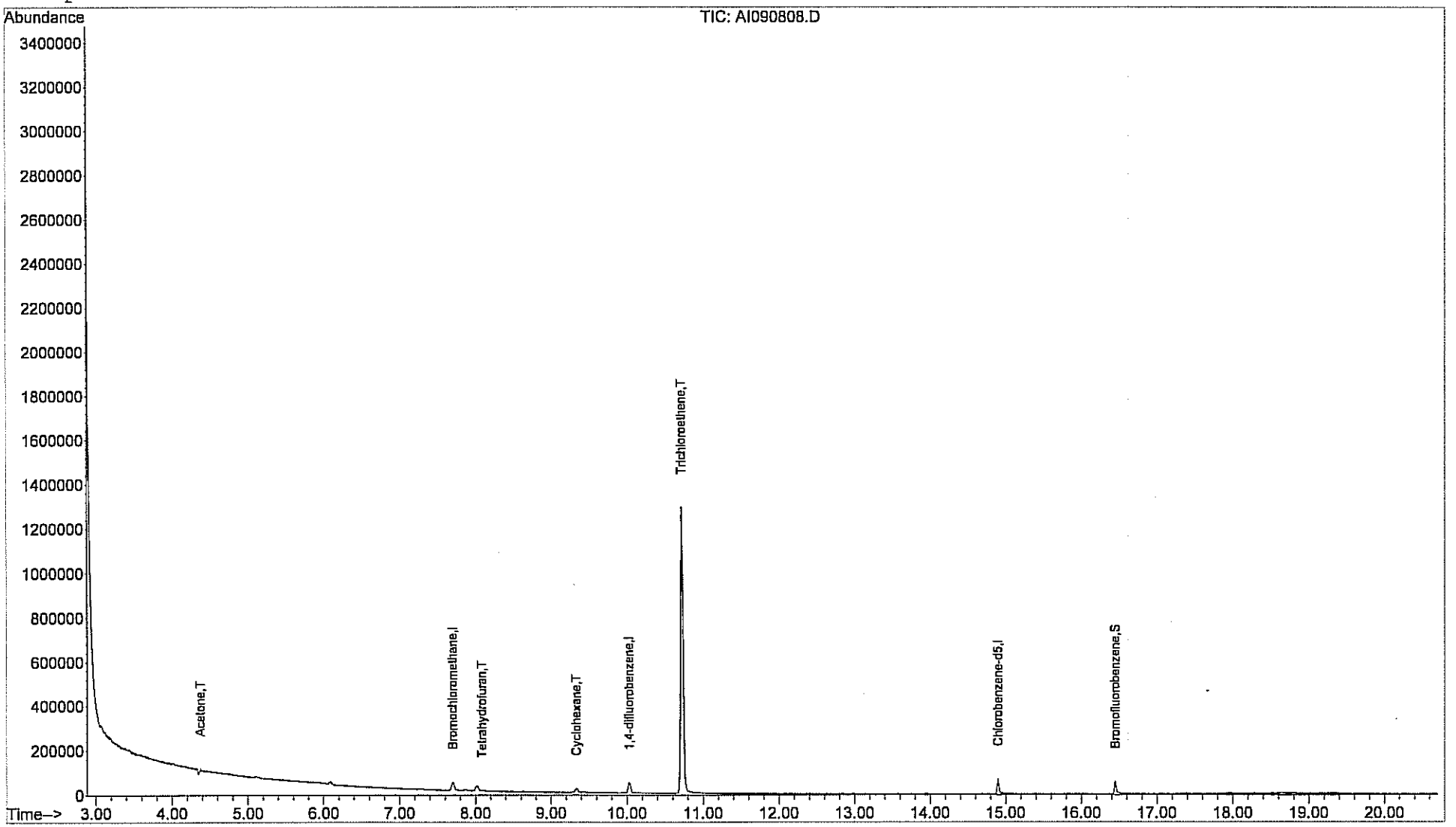
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13434	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	47144	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	39621	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	18476	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
14) Acetone	4.38	58	1667m	0.35	ppb		
30) Tetrahydrofuran	8.09	42	3008m	0.36	ppb		
34) Cyclohexane	9.33	56	7607	0.49	ppb	#	75
41) Trichloroethene	10.72	130	532448	21.62	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

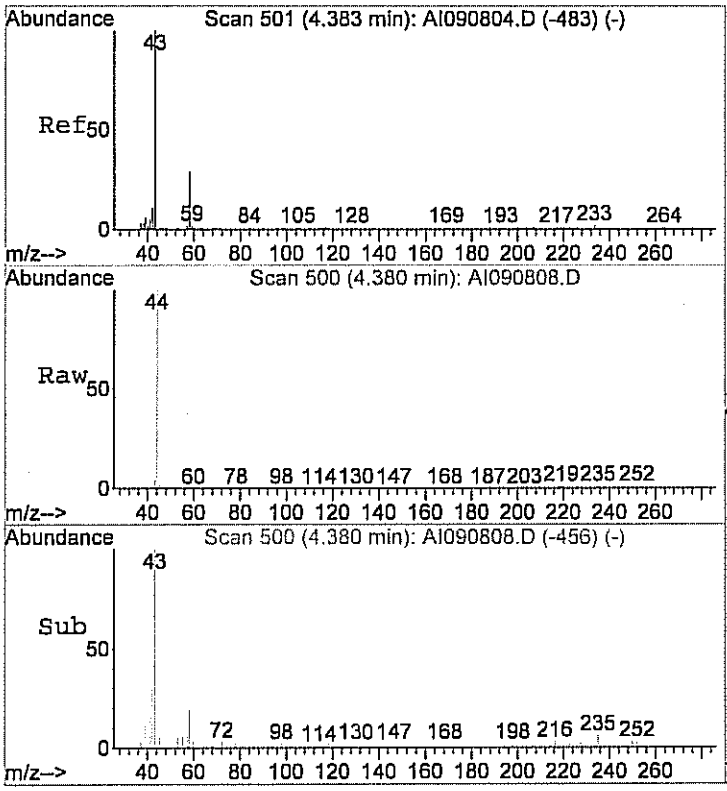
Data File : C:\HPCHEM\1\DATA\AI090808.D Vial: 8
Acq On : 8 Sep 2011 2:16 pm Operator: RJP
Sample : C1108077-016A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:14 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



AI090808.D A826_1UG.M Wed Sep 28 16:03:54 2011 MSD1 Page 2

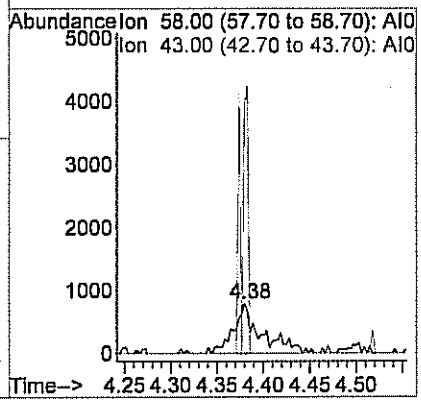
Centek Laboratories, LLC

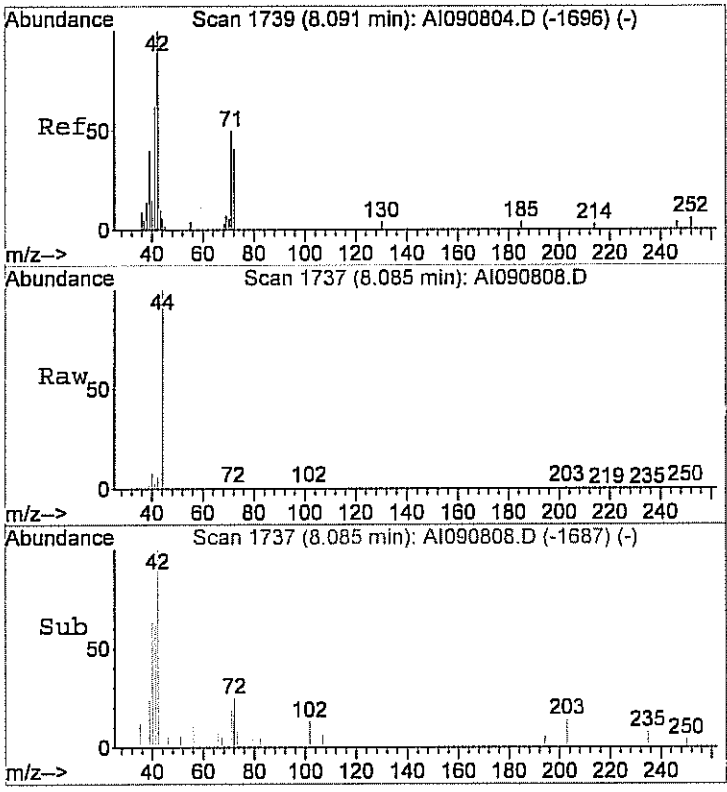


#14
Acetone
Concen: 0.35 ppb m
RT: 4.38 min Scan# 500
Delta R.T. -0.02 min
Lab File: AI090808.D
Acq: 8 Sep 2011 2:16 pm

Tgt Ion: 58 Resp: 1667

Ion	Ratio	Lower	Upper
58	100		
43	132.8	360.8	420.8#

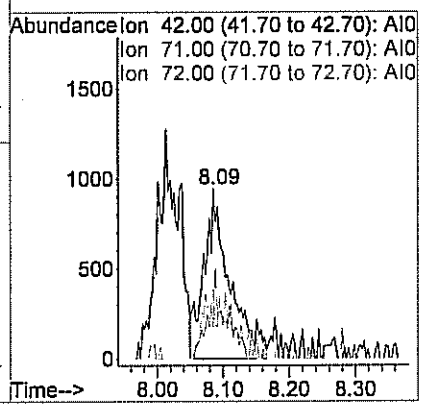


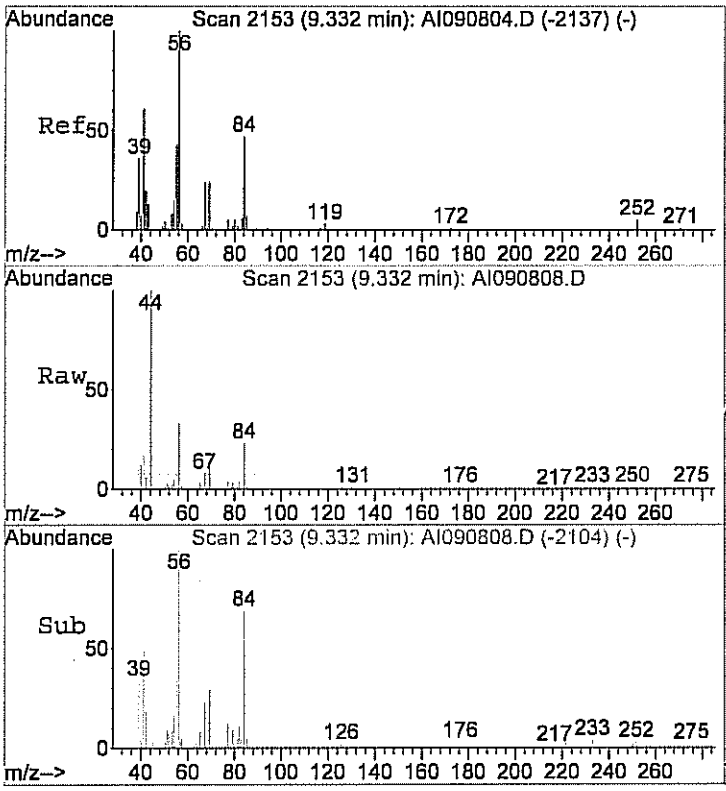


#30
Tetrahydrofuran
Concen: 0.36 ppb m
RT: 8.09 min Scan# 1737
Delta R.T. -0.00 min
Lab File: AI090808.D
Acq: 8 Sep 2011 2:16 pm

Tgt Ion: 42 Resp: 3008

Ion	Ratio	Lower	Upper
42	100		
71	29.0	24.6	64.6
72	35.8	26.5	66.5

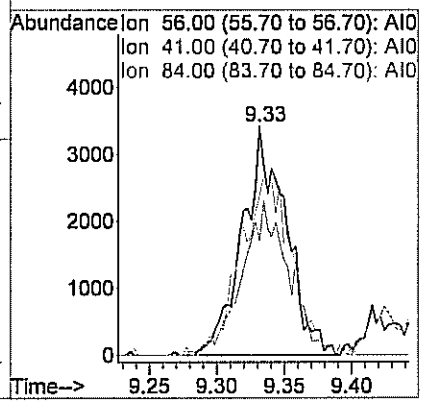


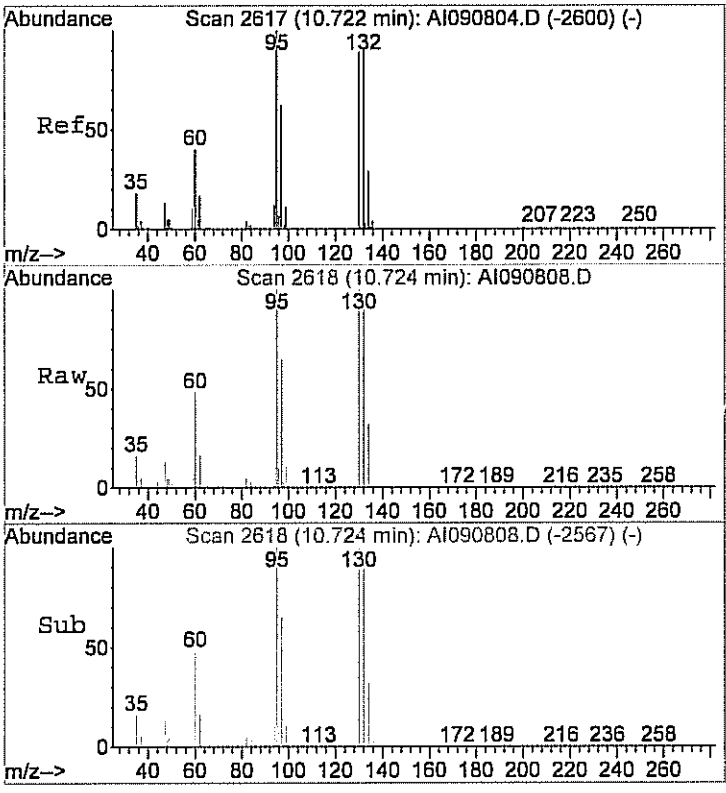


#34
Cyclohexane
Concen: 0.49 ppb
RT: 9.33 min Scan# 2153
Delta R.T. -0.00 min
Lab File: AI090808.D
Acq: 8 Sep 2011 2:16 pm

Tgt Ion: 56 Resp: 7607

Ion	Ratio	Lower	Upper
56	100		
41	72.3	49.1	89.1
84	92.2	114.6	154.6#

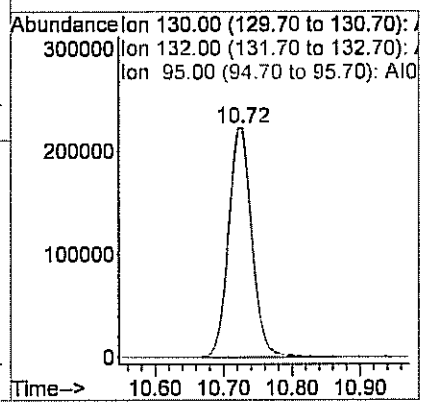




#41
Trichloroethene
Concen: 21.62 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI090808.D
Acq: 8 Sep 2011 2:16 pm

Tgt Ion:130 Resp: 532448

Ion	Ratio	Lower	Upper
130	100		
132	97.4	79.0	119.0
95	97.7	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090810.D Vial: 8
Acq On : 8 Sep 2011 3:32 pm Operator: RJP
Sample : C1108077-016A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 15:53:35 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

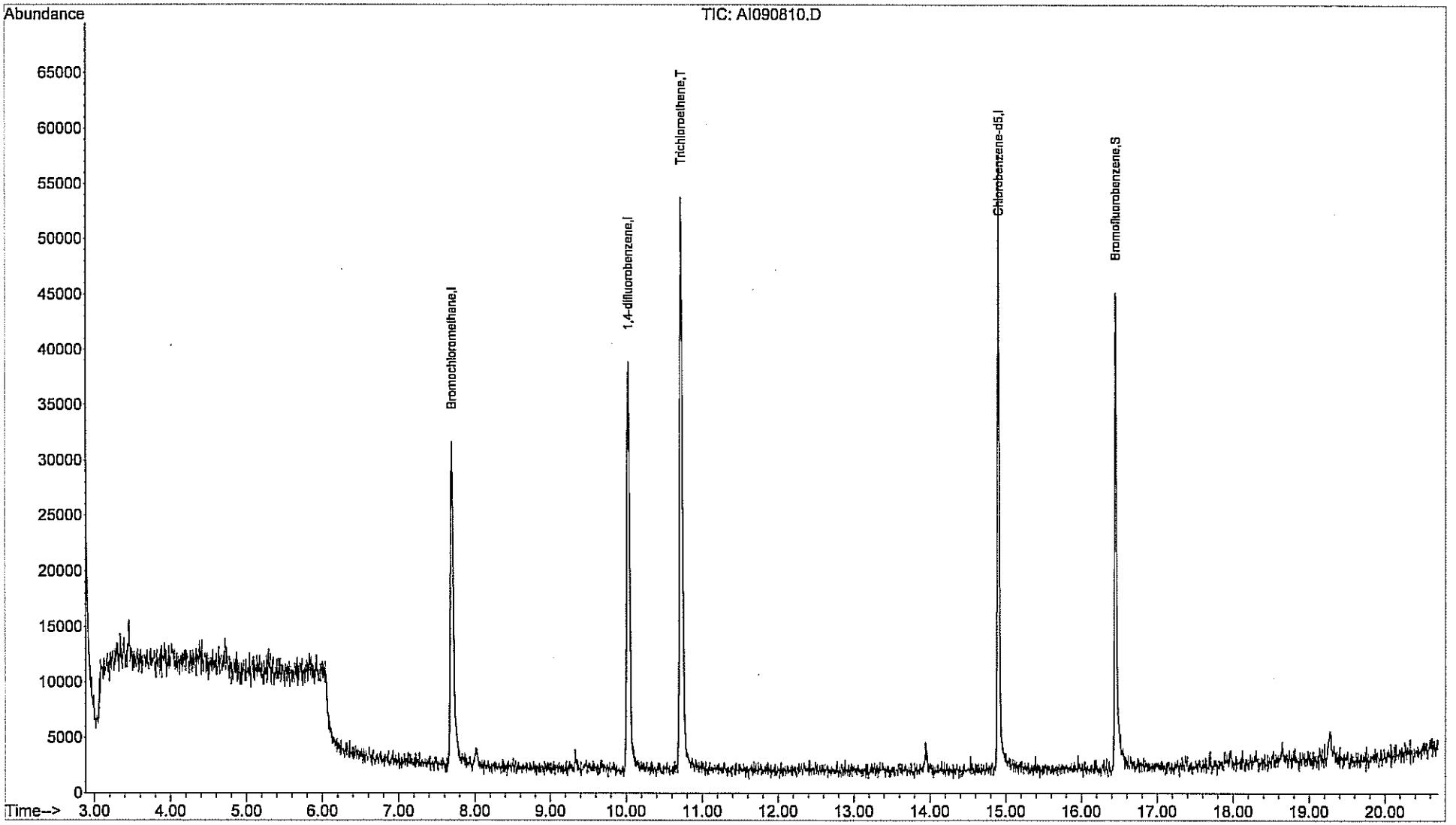
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12244	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	39667	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33462	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13896	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.72	130	23819	1.15	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI090810.D A826_1UG.M Wed Sep 28 16:04:00 2011 MSD1 Page 1

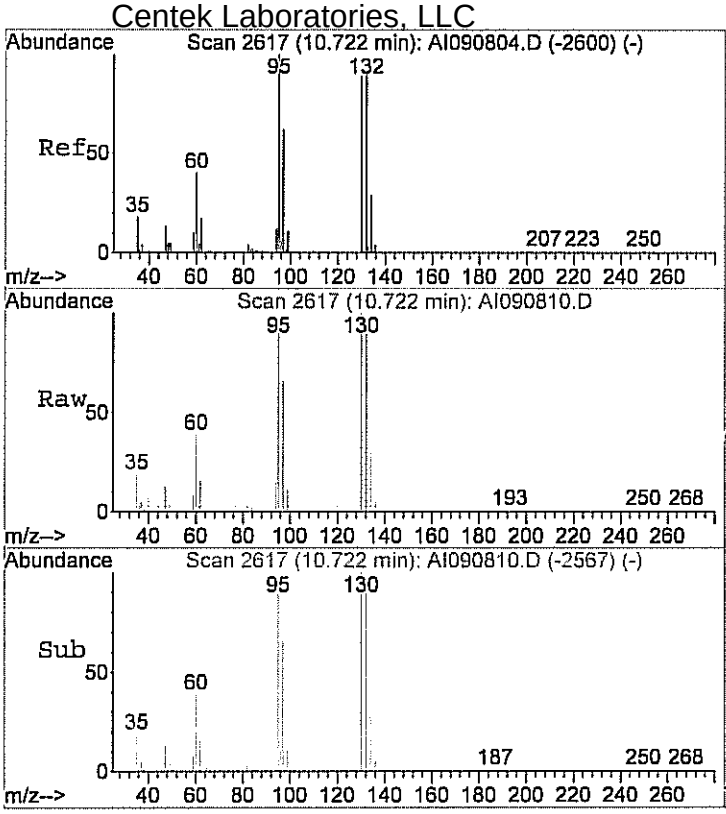
Quantitation Report (Qt Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090810.D Vial: 8
Acq On : 8 Sep 2011 3:32 pm Operator: RJP
Sample : C1108077-016A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:15 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



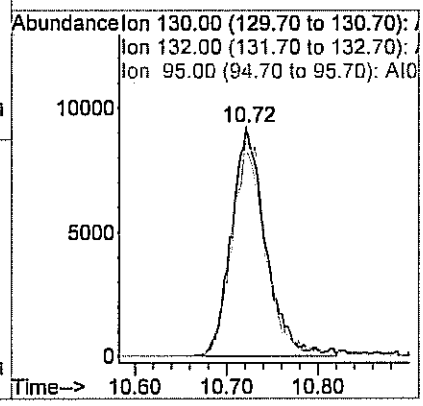
Centek Laboratories, LLC



#41
Trichloroethene
Concen: 1.15 ppb
RT: 10.72 min Scan# 2617
Delta R.T. 0.00 min
Lab File: AI090810.D
Acq: 8 Sep 2011 3:32 pm

Tgt Ion:130 Resp: 23819

Ion	Ratio	Lower	Upper
130	100		
132	98.3	79.0	119.0
95	95.3	76.8	116.8



Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Acetone	2.0	0.30		ppbV	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 11	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 12	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Toluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Surr: Bromofluorobenzene	111	70-130		%REC	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Acetone	4.9	0.72		ug/m3	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 1:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 1:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	9/7/2011 1:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 1:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 1:24:00 PM
Toluene	< 0.57	0.57		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090705.D Vial: 26
Acq On : 7 Sep 2011 1:24 pm Operator: RJP
Sample : C1108077-017A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 13:45:19 2011 Quant Results File: A826_1UG.RES

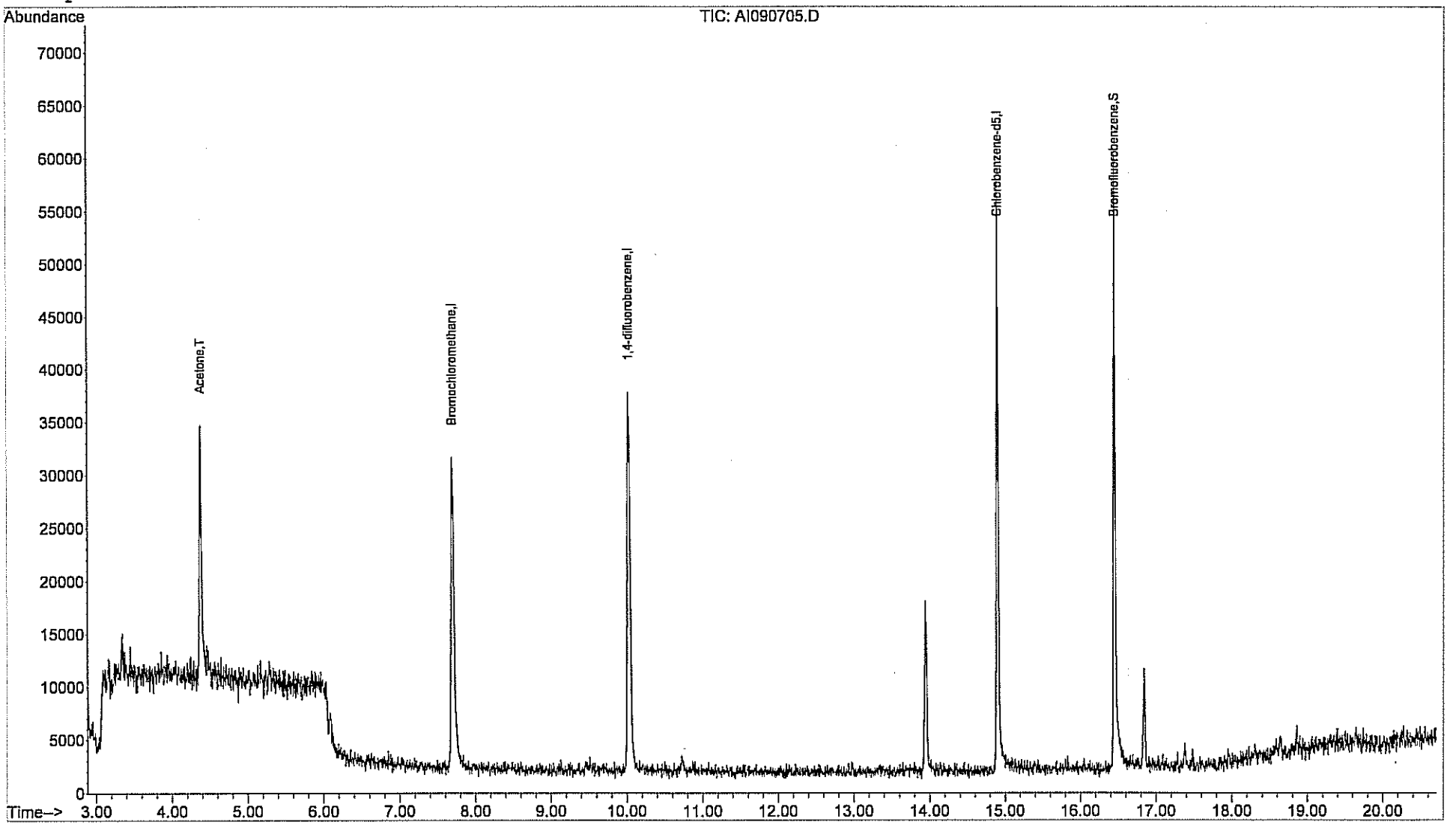
Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12227	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.02	114	39654	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33128	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	18642	1.11	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%			
Target Compounds						Qvalue
14) Acetone	4.38	58	8767	2.03	ppb	# 87

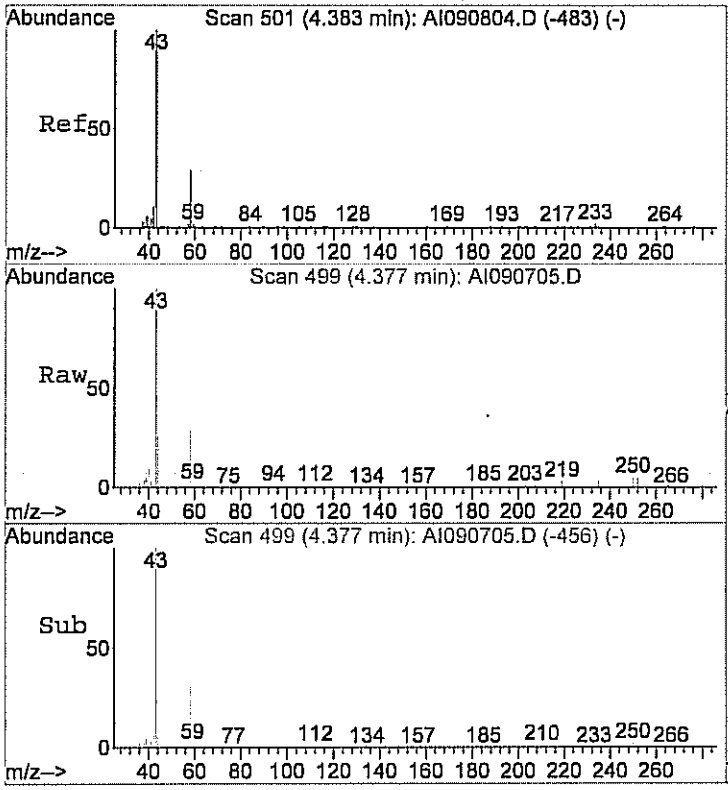
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090705.D Vial: 26
Acq On : 7 Sep 2011 1:24 pm Operator: RJP
Sample : C1108077-017A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:06 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



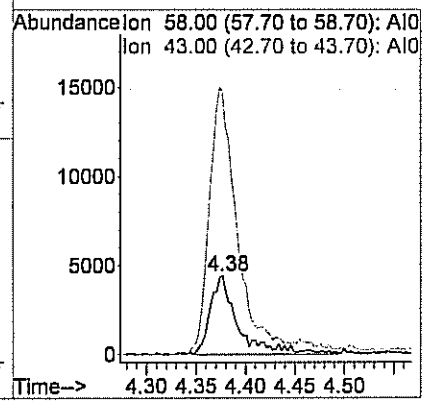
Centek Laboratories, LLC



#14
Acetone
Concen: 2.03 ppb
RT: 4.38 min Scan# 499
Delta R.T. -0.02 min
Lab File: AI090705.D
Acq: 7 Sep 2011 1:24 pm

Tgt Ion: 58 Resp: 8767

Ion	Ratio	Lower	Upper
58	100		
43	359.5	360.8	420.8#



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI082613.D 0.10 =AI082612.D 0.15 =AI082610.D
0.30 =AI082609.D 0.50 =AI082607.D 1.0 =AI082606.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.864	0.704	0.594	0.574	0.662	16.44
3)	T	Freon 12			4.988	4.599	3.876	3.815	4.274	10.49
4)	T	Chloromethane			1.242	1.116	0.995	0.962	1.071	9.28
5)	T	Freon 114			4.054	3.203	2.829	2.843	3.213	13.92
6)	T	Vinyl Chloride	0.948	0.942	1.168	0.988	0.846	0.846	0.954	10.57
7)	T	1,3-butadiene			0.937	0.754	0.585	0.632	0.700	18.41
8)	T	Bromomethane			1.661	1.228	1.100	1.053	1.228	17.99
9)	T	Ethanol				0.338	0.232	0.339	0.284	17.91
10)	T	Acrolein			0.365	0.243	0.245	0.197	0.265	21.22
11)	T	Chloroethane			0.524	0.394	0.367	0.346	0.406	15.34
12)	T	Vinyl Bromide			1.416	1.183	0.990	1.001	1.137	13.74
13)	T	Freon 11			4.139	3.403	2.899	2.964	3.318	13.52
14)	T	Acetone				0.385	0.370	0.295	0.353	9.83
15)	T	Isopropyl alcoh			0.857	0.831	0.722	0.649	0.721	14.02
16)	T	1,1-dichloroeth			1.254	1.102	0.909	0.961	1.048	11.57
17)	T	Freon 113			2.861	2.349	2.086	2.029	2.325	12.84
18)	T	Methylene chlor			1.127	0.945	0.822	0.786	0.903	13.67
19)	T	Allyl chloride			1.110	0.926	0.827	0.783	0.894	13.10
20)	T	Carbon disulfid			3.937	3.065	2.431	2.348	2.837	20.96
21)	T	trans-1,2-dichl			1.724	1.622	1.451	1.430	1.564	7.10
22)	T	methyl tert-but			1.446	1.226	1.126	1.119	1.253	10.03
23)	T	1,1-dichloroeth			2.311	1.964	1.771	1.784	1.977	9.97
24)	T	Vinyl acetate			1.483	1.428	1.330	1.451	1.511	9.88
25)	T	Methyl Ethyl Ke				0.335	0.277	0.321	0.327	9.46
26)	T	cis-1,2-dichlor			1.646	1.498	1.310	1.348	1.464	8.45
27)	T	Hexane			1.435	1.205	1.034	1.121	1.222	11.36
28)	T	Ethyl acetate			1.750	1.523	1.307	1.283	1.426	13.14
29)	T	Chloroform			3.518	3.183	2.796	2.815	3.081	8.71
30)	T	Tetrahydrofuran			0.758	0.538	0.576	0.603	0.624	12.28
31)	T	1,2-dichloroeth			2.145	2.018	1.695	1.710	1.905	9.34
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			0.861	0.755	0.639	0.655	0.738	11.24
34)	T	Cyclohexane			0.379	0.315	0.280	0.290	0.327	11.96
35)	T	Carbon tetrachl	0.932	1.003	1.147	1.032	0.905	0.881	0.996	8.86
36)	T	Benzene			0.993	0.871	0.752	0.765	0.857	10.41
37)	T	Methyl methacry				0.217	0.190	0.194	0.204	8.92
38)	T	1,4-dioxane				0.114	0.119	0.099	0.115	8.24
39)	T	2,2,4-trimethyl			1.022	0.925	0.798	0.781	0.910	11.04
40)	T	Heptane			0.331	0.307	0.265	0.280	0.313	11.43
41)	T	Trichloroethene	0.540	0.519	0.615	0.525	0.459	0.464	0.523	9.36
42)	T	1,2-dichloropro			0.307	0.300	0.257	0.242	0.281	9.25
43)	T	Bromodichlorome			0.959	0.881	0.767	0.749	0.856	9.90
44)	T	cis-1,3-dichlor			0.356	0.360	0.310	0.333	0.371	14.79
45)	T	trans-1,3-dichl			0.239	0.260	0.236	0.263	0.273	14.66
46)	T	1,1,2-trichloro			0.485	0.461	0.371	0.395	0.438	10.17
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.660	0.648	0.576	0.579	0.653	11.12
49)	T	Methyl Isobutyl				0.328	0.336	0.266	0.308	10.06
50)	T	Dibromochlorome			1.266	1.217	1.006	0.978	1.134	10.84
51)	T	Methyl Butyl Ke				0.156	0.185	0.176	0.180	8.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI082613.D 0.10 =AI082612.D 0.15 =AI082610.D
0.30 =AI082609.D 0.50 =AI082607.D 1.0 =AI082606.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
52)	T	1,2-dibromoetha			0.815	0.793	0.667	0.682	0.764	9.93
53)	T	Tetrachloroethy			0.809	0.754	0.612	0.587	0.692	12.53
54)	T	Chlorobenzene			1.127	1.121	0.929	0.922	1.048	9.95
55)	T	Ethylbenzene			1.229	1.282	1.124	1.233	1.339	15.61
56)	T	m&p-xylene			0.923	1.032	0.936	1.043	1.093	16.86
57)	T	Styrene			0.490	0.578	0.551	0.624	0.658	24.68
58)	T	Bromoform			1.173	1.235	1.016	0.995	1.151	10.91
59)	T	o-xylene			1.248	1.132	1.231	1.134	1.270	11.56
60)	S	Bromofluorobenz	0.524	0.510	0.451	0.482	0.492	0.548	0.505	6.06
61)	T	1,1,2,2-tetrach			0.951	0.940	0.801	0.794	0.901	9.56
62)	T	2-Chlorotoluene			0.740	0.766	0.681	0.752	0.813	16.26
63)	T	4-ethyltoluene			0.786	0.882	0.847	0.946	1.046	28.59
64)	T	1,3,5-trimethyl			0.932	0.971	1.041	1.037	1.147	21.66
65)	T	1,2,4-trimethyl			0.779	0.800	0.757	0.807	0.925	25.03
66)	T	1,3-dichloroben			0.772	0.806	0.725	0.751	0.848	17.10
67)	T	benzyl chloride			0.393	0.409	0.319	0.371	0.420	21.47
68)	T	1,4-dichloroben			0.721	0.733	0.681	0.721	0.807	19.24
69)	T	1,2-dichloroben			0.859	0.837	0.704	0.712	0.841	14.75
70)	T	1,2,4-trichloro			0.349	0.388	0.317	0.366	0.407	22.18
71)	T	Naphthalene			0.588	0.467	0.372	0.450	0.542	25.64
72)	T	Hexachloro-1,3-			0.811	0.726	0.541	0.591	0.698	15.96

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	16280	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	60754	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	52059	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24349	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	9764	1.00	ppb		94
3) Freon 12	2.98	85	66962	1.00	ppb		99
4) Chloromethane	3.13	50	16490	1.00	ppb		100
5) Freon 114	3.13	85	48381	1.00	ppb		97
6) Vinyl Chloride	3.27	62	14803	1.00	ppb		98
7) 1,3-butadiene	3.34	39	10406	1.00	ppb		92
8) Bromomethane	3.59	94	18862	1.00	ppb		97
9) Ethanol	3.88	45	4290	1.02	ppb	#	40
10) Acrolein	4.32	56	4285	1.00	ppb		92
11) Chloroethane	3.71	64	6304	1.00	ppb		99
12) Vinyl Bromide	3.96	106	17645	1.00	ppb		94
13) Freon 11	4.16	101	51518	1.00	ppb		100
14) Acetone	4.40	58	5932	1.00	ppb	#	86
15) Isopropyl alcohol	4.48	45	9113	0.99	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16065	1.00	ppb		96
17) Freon 113	4.95	101	36685	1.00	ppb		98
18) Methylene chloride	5.17	84	14333	1.00	ppb		91
19) Allyl chloride	5.15	41	13845	1.01	ppb		96
20) Carbon disulfide	5.29	76	41057	1.00	ppb		98
21) trans-1,2-dichloroethene	6.00	61	23324	1.00	ppb		90
22) methyl tert-butyl ether	6.11	73	17824	1.00	ppb		85
23) 1,1-dichloroethane	6.39	63	30094	1.00	ppb		98
24) Vinyl acetate	6.49	43	22521	1.01	ppb		98
25) Methyl Ethyl Ketone	6.97	72	4841	1.00	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	22496	1.00	ppb		93
27) Hexane	6.91	57	17828	1.00	ppb		92
28) Ethyl acetate	7.53	43	19607	1.00	ppb		98
29) Chloroform	7.86	83	47326	1.00	ppb		100
30) Tetrahydrofuran	8.09	42	9655	1.01	ppb		96
31) 1,2-dichloroethane	8.94	62	29376	1.00	ppb		99
33) 1,1,1-trichloroethane	8.64	97	42715	1.00	ppb		100
34) Cyclohexane	9.33	56	18159	1.00	ppb	#	78
35) Carbon tetrachloride	9.27	117	59821	1.00	ppb		100
36) Benzene	9.25	78	49705	1.00	ppb		95
37) Methyl methacrylate	11.10	41	9610	1.00	ppb	#	84
38) 1,4-dioxane	11.16	88	6164m	1.03	ppb		
39) 2,2,4-trimethylpentane	10.21	57	51973	1.00	ppb		96
40) Heptane	10.63	43	17976	1.00	ppb		94
41) Trichloroethene	10.72	130	29969	1.00	ppb		98
42) 1,2-dichloropropane	10.84	63	16266	1.00	ppb		98
43) Bromodichloromethane	11.23	83	50839	1.00	ppb		98
44) cis-1,3-dichloropropene	12.14	75	21586	1.00	ppb		96
45) trans-1,3-dichloropropene	12.94	75	15090	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	25356	1.00	ppb	100
~~48)~~	~~Toluene~~	~~12.98~~	~~92~~	~~33217~~	~~1.00~~	~~ppb~~	~~93~~
49)	Methyl Isobutyl Ketone	12.13	43	11956	1.00	ppb	97
50)	Dibromochloromethane	13.91	129	56873	1.00	ppb	97
51)	Methyl Butyl Ketone	13.52	43	5709	1.05	ppb	99
52)	1,2-dibromoethane	14.15	107	37845	1.00	ppb	100
53)	Tetrachloroethylene	14.00	164	34190	1.00	ppb	98
54)	Chlorobenzene	14.94	112	52166	1.00	ppb	98
55)	Ethylbenzene	15.21	91	66649	1.00	ppb	98
56)	m&p-xylene	15.40	91	111593	2.00	ppb	96
57)	Styrene	15.80	104	32693	1.00	ppb	96
58)	Bromoform	15.88	173	57414	1.00	ppb	99
59)	o-xylene	15.83	91	61443	1.00	ppb	100
61)	1,1,2,2-tetrachloroethane	16.25	83	41056	1.00	ppb	100
62)	2-Chlorotoluene	16.88	91	37448	1.00	ppb	98
63)	4-ethyltoluene	17.02	105	48252	1.00	ppb	98
64)	1,3,5-trimethylbenzene	17.07	105	55879	1.00	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	41146	1.00	ppb	96
66)	1,3-dichlorobenzene	17.73	146	40606	1.00	ppb	98
67)	benzyl chloride	17.80	91	18251	1.00	ppb	96
68)	1,4-dichlorobenzene	17.86	146	39177	1.01	ppb	99
69)	1,2-dichlorobenzene	18.14	146	38371	1.00	ppb	95
70)	1,2,4-trichlorobenzene	19.76	180	16928	1.00	ppb	97
71)	Naphthalene	19.91	128	20603	1.01	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	28950	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

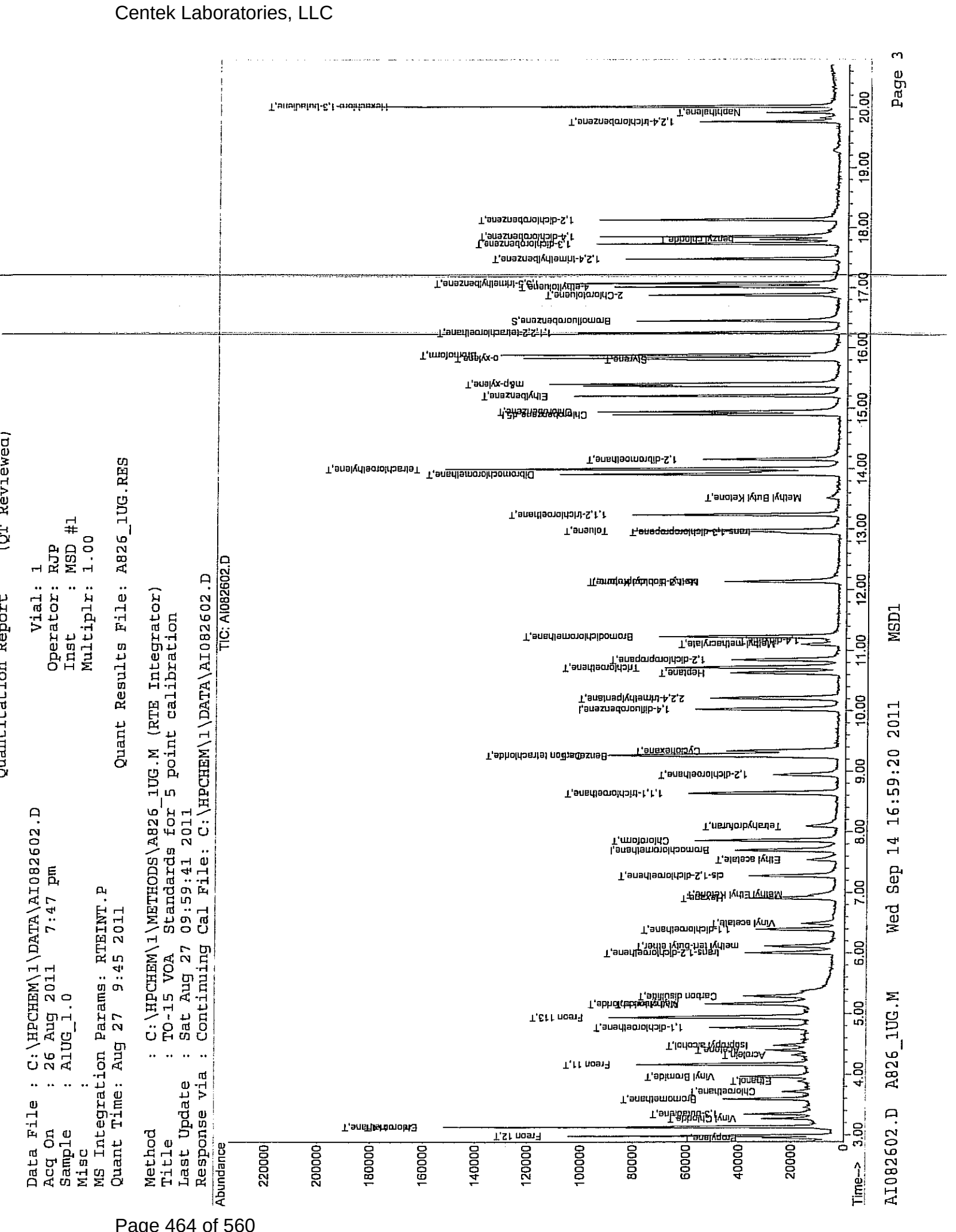
Data File : C:\HPCHEM\1\DATA\AI082602.D
Acq On : 26 Aug 2011 7:47 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:45 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D

TIC: AI082602.D



AI082602.D A826_1UG.M Wed Sep 14 16:59:20 2011 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	16611	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	61419	1.00	ppb		0.00
~~47) Chlorobenzene-d5~~	~~14.89~~	~~117~~	~~53750~~	~~1.00~~	~~ppb~~		~~0.00~~
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	27008	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	20427	2.05	ppb		90
3) Freon 12	2.98	85	140219	2.05	ppb		99
4) Chloromethane	3.13	50	35214	2.09	ppb		99
5) Freon 114	3.12	85	107306	2.17	ppb		98
6) Vinyl Chloride	3.26	62	32177	2.13	ppb		100
7) 1,3-butadiene	3.34	39	21131	1.99	ppb		85
8) Bromomethane	3.59	94	39378	2.05	ppb		99
9) Ethanol	3.88	45	8736m	2.04	ppb		
10) Acrolein	4.30	56	9293	2.13	ppb		81
11) Chloroethane	3.71	64	13614	2.12	ppb		98
12) Vinyl Bromide	3.96	106	38022	2.11	ppb		99
13) Freon 11	4.16	101	111008	2.11	ppb		100
14) Acetone	4.39	58	12087	2.00	ppb		97
15) Isopropyl alcohol	4.47	45	21173	2.24	ppb	#	100
16) 1,1-dichloroethene	4.76	96	34877	2.13	ppb		94
17) Freon 113	4.94	101	79534	2.12	ppb		99
18) Methylene chloride	5.16	84	29872	2.05	ppb		92
19) Allyl chloride	5.15	41	29492	2.11	ppb		94
20) Carbon disulfide	5.28	76	89158	2.13	ppb		99
21) trans-1,2-dichloroethene	6.00	61	53362	2.24	ppb		93
22) methyl tert-butyl ether	6.10	73	44308	2.44	ppb		85
23) 1,1-dichloroethane	6.39	63	66996	2.18	ppb		98
24) Vinyl acetate	6.48	43	57727	2.54	ppb		98
25) Methyl Ethyl Ketone	6.94	72	11796m	2.39	ppb		
26) cis-1,2-dichloroethene	7.27	61	50945	2.22	ppb		94
27) Hexane	6.91	57	42784	2.35	ppb		89
28) Ethyl acetate	7.53	43	47432m	2.38	ppb		
29) Chloroform	7.86	83	104447	2.16	ppb		100
30) Tetrahydrofuran	8.08	42	21844m	2.24	ppb		
31) 1,2-dichloroethane	8.93	62	65675	2.19	ppb		97
33) 1,1,1-trichloroethane	8.64	97	96671	2.24	ppb		100
34) Cyclohexane	9.33	56	44211	2.41	ppb		94
35) Carbon tetrachloride	9.27	117	130803	2.16	ppb		100
36) Benzene	9.24	78	110453	2.20	ppb		98
37) Methyl methacrylate	11.09	41	28220m	2.90	ppb		
38) 1,4-dioxane	11.13	88	14392m	2.37	ppb		
39) 2,2,4-trimethylpentane	10.21	57	122621	2.33	ppb		95
40) Heptane	10.63	43	44082	2.43	ppb		94
41) Trichloroethene	10.72	130	66676	2.20	ppb		97
42) 1,2-dichloropropane	10.85	63	36325	2.21	ppb		99
43) Bromodichloromethane	11.23	83	114078	2.22	ppb		99
44) cis-1,3-dichloropropene	12.13	75	56690	2.60	ppb		95
45) trans-1,3-dichloropropene	12.94	75	41654	2.74	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	57051	2.23	ppb	98
~~48)~~	~~Toluene~~	~~12.97~~	~~92~~	~~82842~~	~~2.42~~	~~ppb~~	~~95~~
49)	Methyl Isobutyl Ketone	12.12	43	34887m	2.83	ppb	
50)	Dibromochloromethane	13.91	129	132485	2.26	ppb	98
51)	Methyl Butyl Ketone	13.49	43	19988m	3.55	ppb	
52)	1,2-dibromoethane	14.15	107	92387	2.37	ppb	99
53)	Tetrachloroethylene	14.00	164	78777	2.23	ppb	99
54)	Chlorobenzene	14.94	112	124601	2.32	ppb	97
55)	Ethylbenzene	15.21	91	182543	2.65	ppb	99
56)	m&p-xylene	15.37	91	300023	5.21	ppb	99
57)	Styrene	15.80	104	98914	2.93	ppb	96
58)	Bromoform	15.88	173	141874	2.39	ppb	99
59)	o-xylene	15.83	91	162941	2.57	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	108371	2.56	ppb	100
62)	2-Chlorotoluene	16.88	91	111607	2.89	ppb	98
63)	4-ethyltoluene	17.02	105	166899	3.35	ppb	96
64)	1,3,5-trimethylbenzene	17.07	105	167589	2.90	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	143393	3.38	ppb	99
66)	1,3-dichlorobenzene	17.73	146	118962	2.84	ppb	99
67)	benzyl chloride	17.81	91	62684	3.34	ppb	97
68)	1,4-dichlorobenzene	17.86	146	116012	2.89	ppb	99
69)	1,2-dichlorobenzene	18.14	146	111208	2.81	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	60691	3.47	ppb	97
71)	Naphthalene	19.91	128	81125m	3.84	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	86971	2.91	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082603.D
Acq On : 26 Aug 2011 8:21 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:59 2011

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D

TIC: AI082603.D

Abundance

Propylene,T
Freon 12,T
Chloromethane,T
Vinyl Chloride,T
1,3-Butadiene,T
Bromomethane,T
Chloroethane,I
Ethanol,T
Vinyl Bromide,T
Freon 11,T
Acetone,T
Isopropyl alcohol,T
1,1-dichloroethene,T
Freon 113,T
Methylene Chloride,T
Carbon disulfide,T
trans-1,2-dichloroethene,T
Methyl tert-butyl ether,I
1,1-dichloroethane,T
Vinyl acetate,T
Methyl Ethyl Ketone,T
cis-1,2-dichloroethene,T
Ethyl acetate,T
Bromochloromethane,I
Chloroform,T
Tetrahydrofuran,T
1,1,1-trichloroethane,T
1,2-dichloroethane,T
Benzene,T
Carbon tetrachloride,T
Cyclohexane,T
1,4-difluorobenzene,I
2,2,4-trimethylpentane,T
Heptane,T
Trichloroethene,T
1,2-dichloropropane,T
1,4-dioxane,T
Methyl methacrylate,T
Bromodichloromethane,T
trans-1,3-dichloropropene,T
Toluene,T
1,1,2-trichloroethane,T
Methyl Butyl Ketone,T
Dibromochloromethane,T
Tetrachloroethylene,T
1,2-dibromoethane,T
Chlorobenzene-d5,I
Chlorobenzene,T
Ethylbenzene,T
m&p-xylene,T
Styrene,T
o-Xylene,T
1,1,2,2-tetrachloroethane,T
Bromofluorobenzene,S
2-Chlorotoluene,T
4-ethyltoluene,T
1,3,5-trimethylbenzene,T
1,2,4-trimethylbenzene,T
1,3-dichlorobenzene,T
1,4-dichlorobenzene,T
Benzyl chloride,T
1,2-dichlorobenzene,T
1,2,4-trichlorobenzene,T
Naphthalene,T
Hexachloro-1,3-butadiene,T

Time-->

AI082603.D A826_1UG.M Wed Sep 14 16:59:23 2011 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D Vial: 3
Acq On : 26 Aug 2011 8:53 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	17234	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	65753	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	59133	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	31507	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	16022	1.55	ppb		94
3) Freon 12	2.98	85	107105	1.51	ppb		98
4) Chloromethane	3.13	50	27211	1.56	ppb		99
5) Freon 114	3.13	85	80658	1.57	ppb		99
6) Vinyl Chloride	3.27	62	23915	1.53	ppb		98
7) 1,3-butadiene	3.34	39	16942	1.54	ppb		97
8) Bromomethane	3.59	94	29495	1.48	ppb		97
9) Ethanol	3.88	45	6422m	1.44	ppb		
10) Acrolein	4.31	56	6748	1.49	ppb		93
11) Chloroethane	3.71	64	10203	1.53	ppb		96
12) Vinyl Bromide	3.96	106	28163	1.51	ppb		97
13) Freon 11	4.17	101	81728	1.50	ppb		100
14) Acetone	4.39	58	9091	1.45	ppb		99
15) Isopropyl alcohol	4.48	45	16282	1.66	ppb	#	100
16) 1,1-dichloroethene	4.77	96	26185	1.54	ppb		95
17) Freon 113	4.94	101	57688	1.49	ppb		97
18) Methylene chloride	5.17	84	21705	1.44	ppb		93
19) Allyl chloride	5.15	41	21506	1.48	ppb		95
20) Carbon disulfide	5.29	76	66092	1.52	ppb		100
21) trans-1,2-dichloroethene	6.00	61	40103	1.62	ppb		91
22) methyl tert-butyl ether	6.10	73	32745	1.74	ppb		87
23) 1,1-dichloroethane	6.40	63	52093	1.64	ppb		98
24) Vinyl acetate	6.49	43	42333	1.79	ppb		100
25) Methyl Ethyl Ketone	6.95	72	9014	1.76	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	37392	1.57	ppb		88
27) Hexane	6.91	57	32270	1.71	ppb		89
28) Ethyl acetate	7.53	43	32660m	1.58	ppb		
29) Chloroform	7.86	83	78351	1.56	ppb		98
30) Tetrahydrofuran	8.08	42	15786m	1.56	ppb		
31) 1,2-dichloroethane	8.94	62	48703	1.57	ppb		99
33) 1,1,1-trichloroethane	8.64	97	72020	1.56	ppb		98
34) Cyclohexane	9.33	56	33263	1.69	ppb		94
35) Carbon tetrachloride	9.27	117	98668	1.52	ppb		99
36) Benzene	9.24	78	84721	1.57	ppb		98
37) Methyl methacrylate	11.10	41	18722m	1.80	ppb		
38) 1,4-dioxane	11.15	88	12241	1.89	ppb		90
39) 2,2,4-trimethylpentane	10.21	57	92336	1.64	ppb		95
40) Heptane	10.63	43	33224	1.71	ppb		95
41) Trichloroethene	10.72	130	50857	1.57	ppb		97
42) 1,2-dichloropropane	10.84	63	28091	1.60	ppb		100
43) Bromodichloromethane	11.23	83	84091	1.53	ppb		100
44) cis-1,3-dichloropropene	12.14	75	40112	1.72	ppb		96
45) trans-1,3-dichloropropene	12.94	75	29789	1.83	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D Vial: 3
Acq On : 26 Aug 2011 8:53 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	44366	1.62	ppb	98
~~48)~~	~~Toluene~~	~~12.97~~	~~92~~	~~60762~~	~~1.61~~	~~ppb~~	~~93~~
49)	Methyl Isobutyl Ketone	12.12	43	25186m	1.86	ppb	
50)	Dibromochloromethane	13.91	129	98172	1.52	ppb	98
51)	Methyl Butyl Ketone	13.50	43	17248m	2.79	ppb	
52)	1,2-dibromoethane	14.15	107	68175	1.59	ppb	100
53)	Tetrachloroethylene	14.00	164	58542	1.51	ppb	99
54)	Chlorobenzene	14.95	112	91490	1.55	ppb	97
55)	Ethylbenzene	15.21	91	130175	1.72	ppb	98
56)	m&p-xylene	15.40	91	218103	3.44	ppb	98
57)	Styrene	15.80	104	69603	1.88	ppb	94
58)	Bromoform	15.88	173	103302	1.58	ppb	99
59)	o-xylene	15.83	91	120503	1.73	ppb	97
61)	1,1,2,2-tetrachloroethane	16.25	83	80854	1.73	ppb	99
62)	2-Chlorotoluene	16.88	91	80034	1.88	ppb	99
63)	4-ethyltoluene	17.02	105	111885	2.04	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	119095	1.88	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	95053	2.03	ppb	98
66)	1,3-dichlorobenzene	17.73	146	82210	1.78	ppb	99
67)	benzyl chloride	17.80	91	39261	1.90	ppb	97
68)	1,4-dichlorobenzene	17.86	146	80606	1.82	ppb	99
69)	1,2-dichlorobenzene	18.14	146	79880	1.83	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	40600	2.11	ppb	98
71)	Naphthalene	19.92	128	54978	2.36	ppb	99
72)	Hexachloro-1,3-butadiene	20.02	225	62941	1.91	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

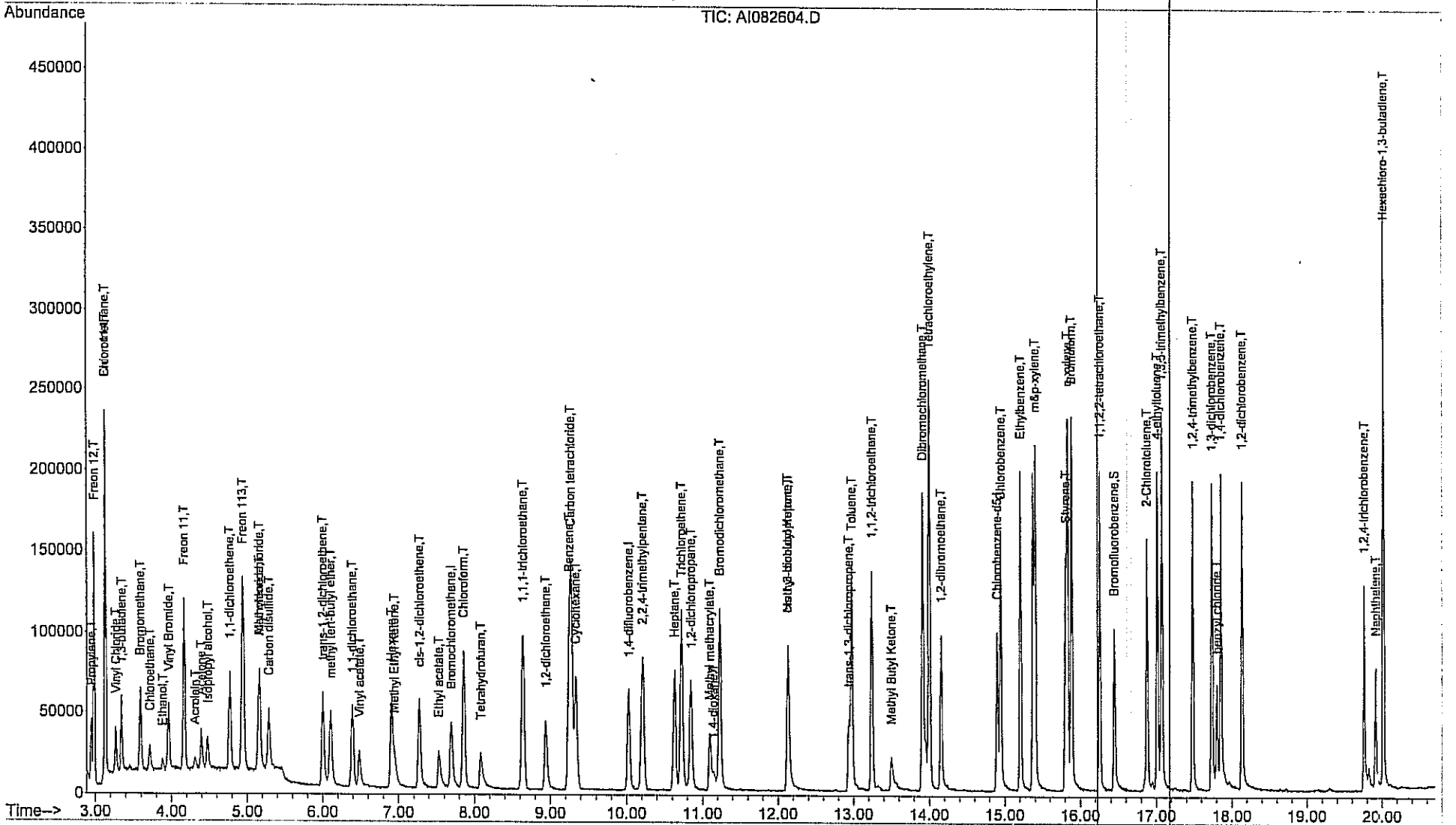
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D
Acq On : 26 Aug 2011 8:53 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:48 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082604.D A826_1UG.M Wed Sep 14 16:59:26 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17503	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	67673	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	60322	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	33027	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	10042	0.96	ppb		93
3) Freon 12	2.98	85	66766	0.93	ppb		97
4) Chloromethane	3.13	50	16838	0.95	ppb		98
5) Freon 114	3.13	85	49768	0.96	ppb		97
6) Vinyl Chloride	3.27	62	14813	0.93	ppb		98
7) 1,3-butadiene	3.34	39	11065	0.99	ppb		98
8) Bromomethane	3.59	94	18431	0.91	ppb		98
9) Ethanol	3.89	45	5938m	1.31	ppb		
10) Acrolein	4.32	56	3440	0.75	ppb		91
11) Chloroethane	3.72	64	6063	0.89	ppb		98
12) Vinyl Bromide	3.96	106	17521	0.92	ppb		100
13) Freon 11	4.17	101	51887	0.94	ppb		99
14) Acetone	4.40	58	5160	0.81	ppb	#	82
15) Isopropyl alcohol	4.48	45	11363	1.14	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16815	0.97	ppb		92
17) Freon 113	4.94	101	35518	0.90	ppb		95
18) Methylene chloride	5.17	84	13749	0.90	ppb		94
19) Allyl chloride	5.15	41	13708	0.93	ppb		95
20) Carbon disulfide	5.29	76	41096	0.93	ppb		100
21) trans-1,2-dichloroethene	6.01	61	25035	1.00	ppb		92
22) methyl tert-butyl ether	6.12	73	19580	1.02	ppb		86
23) 1,1-dichloroethane	6.40	63	31230	0.97	ppb		97
24) Vinyl acetate	6.49	43	25405	1.06	ppb		98
25) Methyl Ethyl Ketone	6.95	72	5610m	1.08	ppb		
26) cis-1,2-dichloroethene	7.28	61	23586	0.98	ppb		92
27) Hexane	6.91	57	19620	1.02	ppb		89
28) Ethyl acetate	7.54	43	22463	1.07	ppb		97
29) Chloroform	7.86	83	49279	0.97	ppb		100
30) Tetrahydrofuran	8.09	42	10556	1.03	ppb		93
31) 1,2-dichloroethane	8.95	62	29933	0.95	ppb		97
33) 1,1,1-trichloroethane	8.64	97	44354	0.93	ppb		99
34) Cyclohexane	9.34	56	19640	0.97	ppb		94
35) Carbon tetrachloride	9.27	117	59612	0.89	ppb		100
36) Benzene	9.25	78	51777	0.94	ppb		96
37) Methyl methacrylate	11.10	41	13122m	1.23	ppb		
38) 1,4-dioxane	11.16	88	6706	1.00	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	52826	0.91	ppb		97
40) Heptane	10.63	43	18947	0.95	ppb		93
41) Trichloroethene	10.73	130	31367	0.94	ppb		98
42) 1,2-dichloropropane	10.85	63	16359	0.90	ppb		100
43) Bromodichloromethane	11.23	83	50677	0.89	ppb		99
44) cis-1,3-dichloropropene	12.14	75	22511	0.94	ppb		96
45) trans-1,3-dichloropropene	12.94	75	17795	1.06	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	26740	0.95	ppb	99
48)	Toluene	12.98	92	34938	0.91	ppb	94
49)	Methyl Isobutyl Ketone	12.14	43	16021	1.16	ppb	96
50)	Dibromochloromethane	13.91	129	59005	0.90	ppb	98
51)	Methyl Butyl Ketone	13.50	43	10637m	1.68	ppb	
52)	1,2-dibromoethane	14.16	107	41120	0.94	ppb	99
53)	Tetrachloroethylene	14.00	164	35394	0.89	ppb	97
54)	Chlorobenzene	14.94	112	55601	0.92	ppb	95
55)	Ethylbenzene	15.21	91	74366	0.96	ppb	99
56)	m&p-xylene	15.40	91	125879	1.95	ppb	98
57)	Styrene	15.80	104	37636	0.99	ppb	95
58)	Bromoform	15.88	173	60011	0.90	ppb	99
59)	o-xylene	15.83	91	68416	0.96	ppb	96
61)	1,1,2,2-tetrachloroethane	16.25	83	47879	1.01	ppb	99
62)	2-Chlorotoluene	16.88	91	45387	1.05	ppb	98
63)	4-ethyltoluene	17.02	105	57064	1.02	ppb	97
64)	1,3,5-trimethylbenzene	17.08	105	62550	0.97	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	48670	1.02	ppb	96
66)	1,3-dichlorobenzene	17.74	146	45309	0.96	ppb	97
67)	benzyl chloride	17.80	91	22380	1.06	ppb	98
68)	1,4-dichlorobenzene	17.85	146	43475	0.96	ppb	97
69)	1,2-dichlorobenzene	18.14	146	42920	0.97	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	22099	1.13	ppb	99
71)	Naphthalene	19.91	128	27126	1.14	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	35674	1.06	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D
Acq On : 26 Aug 2011 9:58 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D

TIC: AI082606.D

AI082606.D A826_1UG.M Wed Sep 14 16:59:29 2011 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	20287	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	76621	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	66272	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	32611	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	6024	0.50	ppb		93
3) Freon 12	2.98	85	39312	0.47	ppb		99
4) Chloromethane	3.13	50	10095	0.49	ppb		98
5) Freon 114	3.13	85	28700	0.48	ppb		98
6) Vinyl Chloride	3.27	62	8586	0.47	ppb		100
7) 1,3-butadiene	3.34	39	5936	0.46	ppb		90
8) Bromomethane	3.59	94	11161	0.47	ppb		99
9) Ethanol	3.88	45	2354	0.45	ppb	#	43
10) Acrolein	4.31	56	2488	0.47	ppb		98
11) Chloroethane	3.71	64	3720	0.47	ppb		98
12) Vinyl Bromide	3.96	106	10045	0.46	ppb		99
13) Freon 11	4.17	101	29406	0.46	ppb		99
14) Acetone	4.40	58	3751	0.51	ppb	#	61
15) Isopropyl alcohol	4.48	45	7325	0.64	ppb	#	100
16) 1,1-dichloroethene	4.77	96	9224	0.46	ppb		93
17) Freon 113	4.94	101	21159	0.46	ppb		97
18) Methylene chloride	5.17	84	8343	0.47	ppb		91
19) Allyl chloride	5.16	41	8384	0.49	ppb		100
20) Carbon disulfide	5.29	76	24655	0.48	ppb		96
21) trans-1,2-dichloroethene	6.00	61	14718	0.51	ppb		93
22) methyl tert-butyl ether	6.11	73	11425	0.51	ppb		87
23) 1,1-dichloroethane	6.40	63	17963	0.48	ppb		96
24) Vinyl acetate	6.49	43	13490	0.49	ppb		98
25) Methyl Ethyl Ketone	6.95	72	2813	0.47	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	13290	0.47	ppb		92
27) Hexane	6.91	57	10487	0.47	ppb		98
28) Ethyl acetate	7.54	43	13259	0.54	ppb		98
29) Chloroform	7.86	83	28360	0.48	ppb		100
30) Tetrahydrofuran	8.10	42	5845	0.49	ppb		94
31) 1,2-dichloroethane	8.94	62	17189	0.47	ppb		97
33) 1,1,1-trichloroethane	8.64	97	24495	0.45	ppb		96
34) Cyclohexane	9.34	56	10725	0.47	ppb		94
35) Carbon tetrachloride	9.28	117	34661	0.46	ppb		100
36) Benzene	9.25	78	28819	0.46	ppb		97
37) Methyl methacrylate	11.10	41	7294	0.60	ppb		93
38) 1,4-dioxane	11.17	88	4553	0.60	ppb		87
39) 2,2,4-trimethylpentane	10.21	57	30568	0.47	ppb		98
40) Heptane	10.63	43	10163	0.45	ppb		92
41) Trichloroethene	10.72	130	17597	0.47	ppb		98
42) 1,2-dichloropropane	10.85	63	9845	0.48	ppb		97
43) Bromodichloromethane	11.23	83	29368	0.46	ppb		97
44) cis-1,3-dichloropropene	12.14	75	11858	0.44	ppb		93
45) trans-1,3-dichloropropene	12.94	75	9050	0.48	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.25	97	14207	0.44	ppb	95
48)	Toluene	12.98	92	19073	0.45	ppb	89
49)	Methyl Isobutyl Ketone	12.14	43	11124m	0.73	ppb	
50)	Dibromochloromethane	13.91	129	33332	0.46	ppb	99
51)	Methyl Butyl Ketone	13.50	43	6119	0.88	ppb	96
52)	1,2-dibromoethane	14.16	107	22094	0.46	ppb	99
53)	Tetrachloroethylene	14.00	164	20279	0.47	ppb	99
54)	Chlorobenzene	14.95	112	30774	0.46	ppb	99
55)	Ethylbenzene	15.21	91	37236	0.44	ppb	100
56)	m&p-xylene	15.40	91	62003	0.87	ppb	97
57)	Styrene	15.81	104	18262	0.44	ppb	94
58)	Bromoform	15.89	173	33673	0.46	ppb	99
59)	o-xylene	15.83	91	40774	0.52	ppb	92
61)	1,1,2,2-tetrachloroethane	16.26	83	26547	0.51	ppb	98
62)	2-Chlorotoluene	16.88	91	22557	0.47	ppb	97
63)	4-ethyltoluene	17.02	105	28072	0.46	ppb	95
64)	1,3,5-trimethylbenzene	17.08	105	34496	0.48	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	25068	0.48	ppb	99
66)	1,3-dichlorobenzene	17.73	146	24023	0.46	ppb	98
67)	benzyl chloride	17.81	91	10565	0.46	ppb	93
68)	1,4-dichlorobenzene	17.86	146	22551	0.46	ppb	98
69)	1,2-dichlorobenzene	18.14	146	23314	0.48	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	10520	0.49	ppb	99
71)	Naphthalene	19.91	128	12326	0.47	ppb	96
72)	Hexachloro-1,3-butadiene	20.01	225	17921	0.49	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

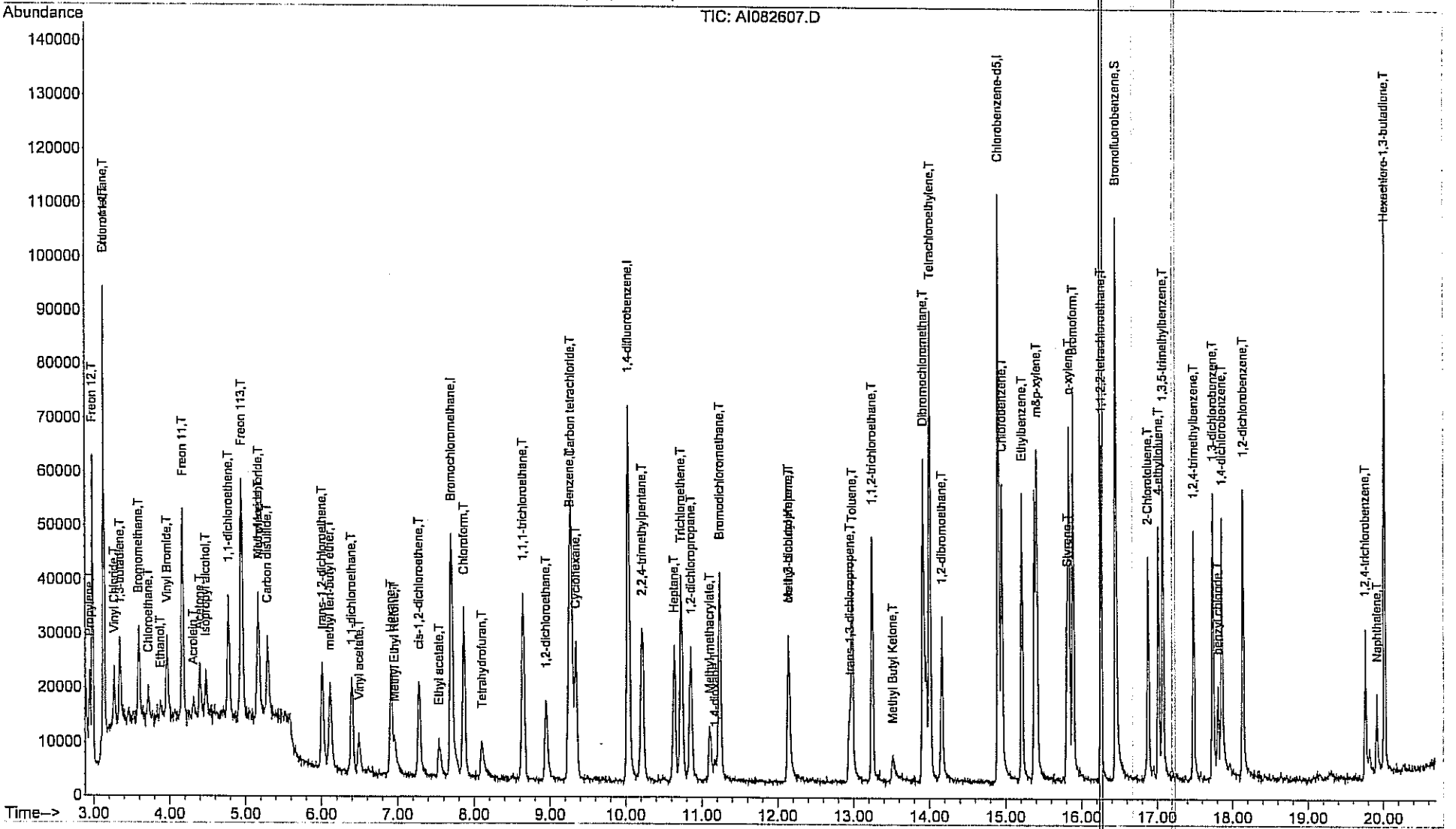
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D
Acq On : 26 Aug 2011 10:31 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082607.D A826_1UG.M Wed Sep 14 16:59:32 2011 MSD1 Page 3

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17624	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	64788	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	54147	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	26102	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	3723	0.35	ppb		98
3) Freon 12	2.98	85	24318	0.34	ppb		97
4) Chloromethane	3.14	50	5898	0.33	ppb		96
5) Freon 114	3.13	85	16934	0.32	ppb		97
6) Vinyl Chloride	3.27	62	5224	0.33	ppb		99
7) 1,3-butadiene	3.34	39	3987	0.35	ppb		97
8) Bromomethane	3.60	94	6493	0.32	ppb		100
9) Ethanol	3.89	45	1786m	0.39	ppb		
10) Acrolein	4.32	56	1285	0.28	ppb		98
11) Chloroethane	3.72	64	2083	0.31	ppb		82
12) Vinyl Bromide	3.97	106	6257	0.33	ppb		97
13) Freon 11	4.17	101	17994	0.32	ppb		97
14) Acetone	4.40	58	2036	0.32	ppb	#	67
15) Isopropyl alcohol	4.48	45	4396m	0.44	ppb		
16) 1,1-dichloroethene	4.78	96	5824	0.33	ppb		91
17) Freon 113	4.95	101	12420	0.31	ppb		97
18) Methylene chloride	5.17	84	4994	0.32	ppb		93
19) Allyl chloride	5.16	41	4897	0.33	ppb		97
20) Carbon disulfide	5.29	76	16206	0.36	ppb		97
21) trans-1,2-dichloroethene	6.01	61	8578	0.34	ppb		94
22) methyl tert-butyl ether	6.12	73	6480	0.34	ppb		89
23) 1,1-dichloroethane	6.40	63	10384	0.32	ppb		99
24) Vinyl acetate	6.49	43	7548	0.31	ppb		98
25) Methyl Ethyl Ketone	6.98	72	1771	0.34	ppb	#	100
26) cis-1,2-dichloroethene	7.29	61	7921	0.33	ppb		92
27) Hexane	6.92	57	6369	0.33	ppb		89
28) Ethyl acetate	7.55	43	8052	0.38	ppb		100
29) Chloroform	7.87	83	16831	0.33	ppb		99
30) Tetrahydrofuran	8.11	42	2843	0.27	ppb		86
31) 1,2-dichloroethane	8.95	62	10672	0.34	ppb		99
33) 1,1,1-trichloroethane	8.65	97	14678	0.32	ppb		100
34) Cyclohexane	9.34	56	6123	0.32	ppb		90
35) Carbon tetrachloride	9.28	117	20058	0.31	ppb		98
36) Benzene	9.25	78	16931	0.32	ppb		97
37) Methyl methacrylate	11.11	41	4223	0.41	ppb		86
38) 1,4-dioxane	11.20	88	2208m	0.35	ppb		
39) 2,2,4-trimethylpentane	10.21	57	17977	0.32	ppb		97
40) Heptane	10.64	43	5968	0.31	ppb		92
41) Trichloroethene	10.73	130	10203	0.32	ppb		100
42) 1,2-dichloropropane	10.85	63	5829	0.34	ppb		96
43) Bromodichloromethane	11.24	83	17124	0.32	ppb		99
44) cis-1,3-dichloropropene	12.14	75	6991	0.30	ppb		97
45) trans-1,3-dichloropropene	12.94	75	5053	0.31	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,2-trichloroethane	13.25	97	8953	0.33	ppb		100
~~48)~~	~~Toluene~~	~~12.98~~	~~92~~	~~10529~~	~~0.30~~	~~ppb~~		~~93~~
49)	Methyl Isobutyl Ketone	12.14	43	5332	0.43	ppb		100
50)	Dibromochloromethane	13.92	129	19772	0.33	ppb		99
51)	Methyl Butyl Ketone	13.58	43	2536	0.45	ppb	#	40
52)	1,2-dibromoethane	14.16	107	12880	0.33	ppb		95
53)	Tetrachloroethylene	14.00	164	12251	0.34	ppb		98
54)	Chlorobenzene	14.95	112	18202	0.34	ppb		98
55)	Ethylbenzene	15.21	91	20832	0.30	ppb		99
56)	m&p-xylene	15.40	91	33533m	0.58	ppb		
57)	Styrene	15.81	104	9383	0.28	ppb		99
58)	Bromoform	15.89	173	20064	0.34	ppb		100
59)	o-xylene	15.83	91	18387	0.29	ppb		99
61)	1,1,2,2-tetrachloroethane	16.26	83	15265	0.36	ppb		98
62)	2-Chlorotoluene	16.88	91	12444	0.32	ppb		98
63)	4-ethyltoluene	17.02	105	14326	0.29	ppb		98
64)	1,3,5-trimethylbenzene	17.08	105	15771	0.27	ppb		91
65)	1,2,4-trimethylbenzene	17.49	105	12998	0.30	ppb		99
66)	1,3-dichlorobenzene	17.74	146	13094	0.31	ppb		99
67)	benzyl chloride	17.81	91	6638	0.35	ppb		97
68)	1,4-dichlorobenzene	17.86	146	11905	0.29	ppb		97
69)	1,2-dichlorobenzene	18.14	146	13593	0.34	ppb		97
70)	1,2,4-trichlorobenzene	19.76	180	6309	0.36	ppb		90
71)	Naphthalene	19.91	128	7579	0.36	ppb		96
72)	Hexachloro-1,3-butadiene	20.02	225	11800	0.39	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

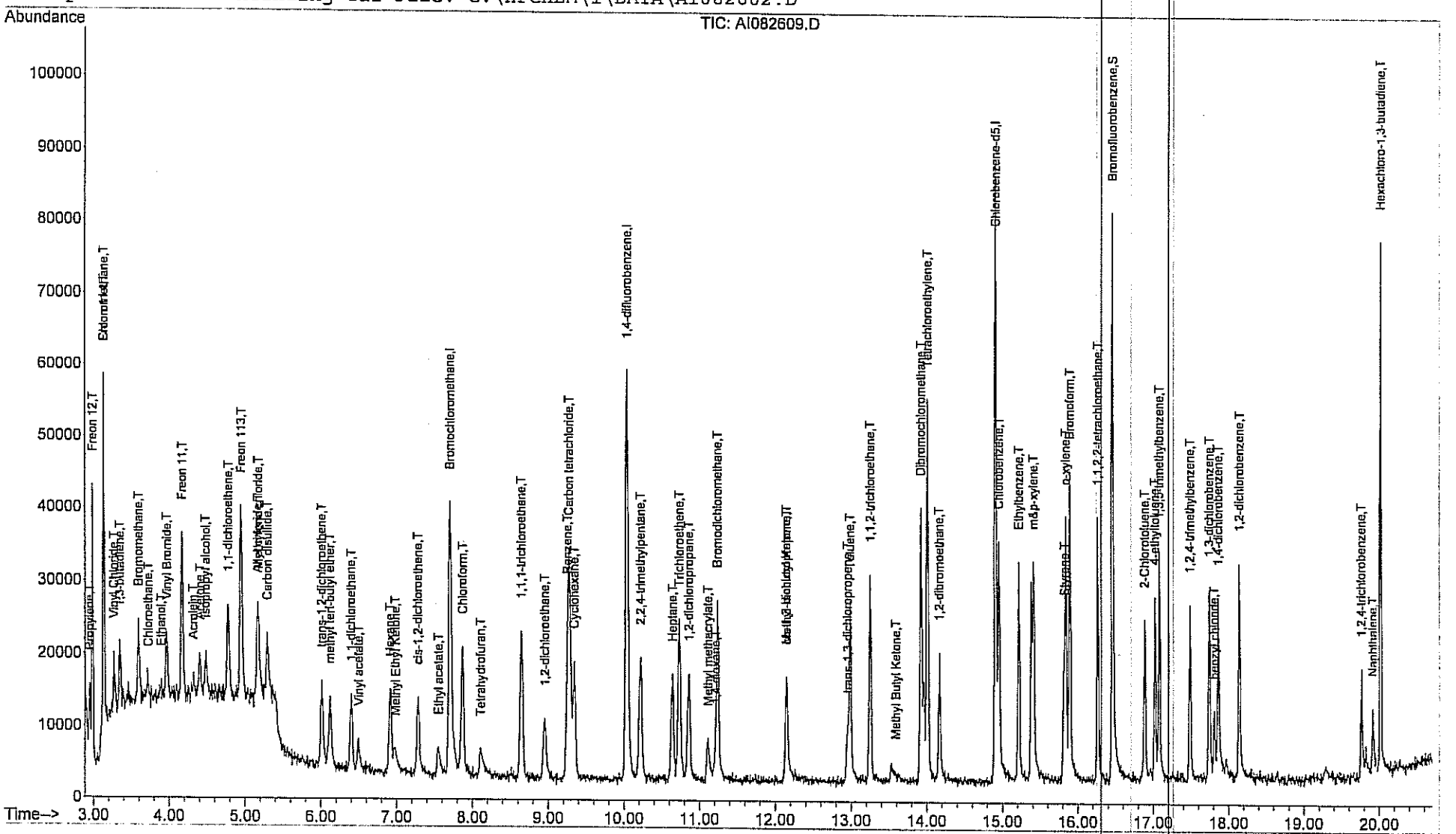
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D
Acq On : 26 Aug 2011 11:37 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:51 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082609.D A826_1UG.M Wed Sep 14 16:59:35 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D Vial: 9
Acq On : 27 Aug 2011 12:09 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	16666	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	63613	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	51764	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	23358	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	2161	0.22	ppb		92
3) Freon 12	2.99	85	12469	0.18	ppb		96
4) Chloromethane	3.13	50	3106m	0.18	ppb		
5) Freon 114	3.13	85	10134	0.20	ppb		98
6) Vinyl Chloride	3.27	62	2919	0.19	ppb		88
7) 1,3-butadiene	3.35	39	2343	0.22	ppb		99
8) Bromomethane	3.59	94	4153	0.22	ppb		90
10) Acrolein	4.33	56	913m	0.21	ppb		
11) Chloroethane	3.71	64	1311	0.20	ppb		87
12) Vinyl Bromide	3.97	106	3539	0.20	ppb		97
13) Freon 11	4.17	101	10347	0.20	ppb		97
15) Isopropyl alcohol	4.48	45	2142m	0.23	ppb		
16) 1,1-dichloroethene	4.78	96	3136	0.19	ppb		91
17) Freon 113	4.95	101	7151	0.19	ppb		95
18) Methylene chloride	5.18	84	2817	0.19	ppb		98
19) Allyl chloride	5.16	41	2776	0.20	ppb		95
20) Carbon disulfide	5.30	76	9842	0.23	ppb		96
21) trans-1,2-dichloroethene	6.01	61	4311	0.18	ppb		87
22) methyl tert-butyl ether	6.11	73	3616	0.20	ppb		82
23) 1,1-dichloroethane	6.40	63	5777	0.19	ppb		99
24) Vinyl acetate	6.50	43	3708	0.16	ppb		92
26) cis-1,2-dichloroethene	7.28	61	4114	0.18	ppb		93
27) Hexane	6.92	57	3587	0.20	ppb		96
28) Ethyl acetate	7.56	43	4376	0.22	ppb		97
29) Chloroform	7.86	83	8795	0.18	ppb		97
30) Tetrahydrofuran	8.12	42	1894	0.19	ppb		92
31) 1,2-dichloroethane	8.96	62	5362	0.18	ppb		97
33) 1,1,1-trichloroethane	8.64	97	8214	0.18	ppb		99
34) Cyclohexane	9.34	56	3620	0.19	ppb	#	65
35) Carbon tetrachloride	9.28	117	10944	0.17	ppb		96
36) Benzene	9.25	78	9471	0.18	ppb		97
39) 2,2,4-trimethylpentane	10.22	57	9749	0.18	ppb		98
40) Heptane	10.64	43	3161	0.17	ppb		97
41) Trichloroethene	10.73	130	5864	0.19	ppb		90
42) 1,2-dichloropropane	10.85	63	2929	0.17	ppb		96
43) Bromodichloromethane	11.23	83	9147	0.17	ppb		99
44) cis-1,3-dichloropropene	12.15	75	3399	0.15	ppb		96
45) trans-1,3-dichloropropene	12.95	75	2277	0.14	ppb		98
46) 1,1,2-trichloroethane	13.25	97	4627	0.17	ppb		99
48) Toluene	12.99	92	5126	0.16	ppb		94
50) Dibromochloromethane	13.91	129	9833	0.17	ppb		99
52) 1,2-dibromoethane	14.16	107	6326	0.17	ppb		99
53) Tetrachloroethylene	14.01	164	6278	0.18	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D Vial: 9
Acq On : 27 Aug 2011 12:09 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Chlorobenzene	14.95	112	8754	0.17	ppb		98
55)	Ethylbenzene	15.21	91	9540	0.14	ppb		97
56)	m&p-xylene	15.41	91	14338	0.26	ppb		97
57)	Styrene	15.81	104	3808	0.12	ppb		89
58)	Bromoform	15.89	173	9108	0.16	ppb		97
59)	o-xylene	15.83	91	9694	0.16	ppb		85
61)	1,1,2,2-tetrachloroethane	16.25	83	7384	0.18	ppb		98
62)	2-Chlorotoluene	16.88	91	5743	0.15	ppb		94
63)	4-ethyltoluene	17.02	105	6105	0.13	ppb		97
64)	1,3,5-trimethylbenzene	17.08	105	7237	0.13	ppb		92
65)	1,2,4-trimethylbenzene	17.49	105	6051	0.15	ppb		96
66)	1,3-dichlorobenzene	17.74	146	5997	0.15	ppb		98
67)	benzyl chloride	17.81	91	3055	0.17	ppb		99
68)	1,4-dichlorobenzene	17.86	146	5602	0.14	ppb		98
69)	1,2-dichlorobenzene	18.14	146	6667	0.17	ppb		100
70)	1,2,4-trichlorobenzene	19.76	180	2708	0.16	ppb	#	80
71)	Naphthalene	19.92	128	4566	0.22	ppb		97
72)	Hexachloro-1,3-butadiene	20.01	225	6296	0.22	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

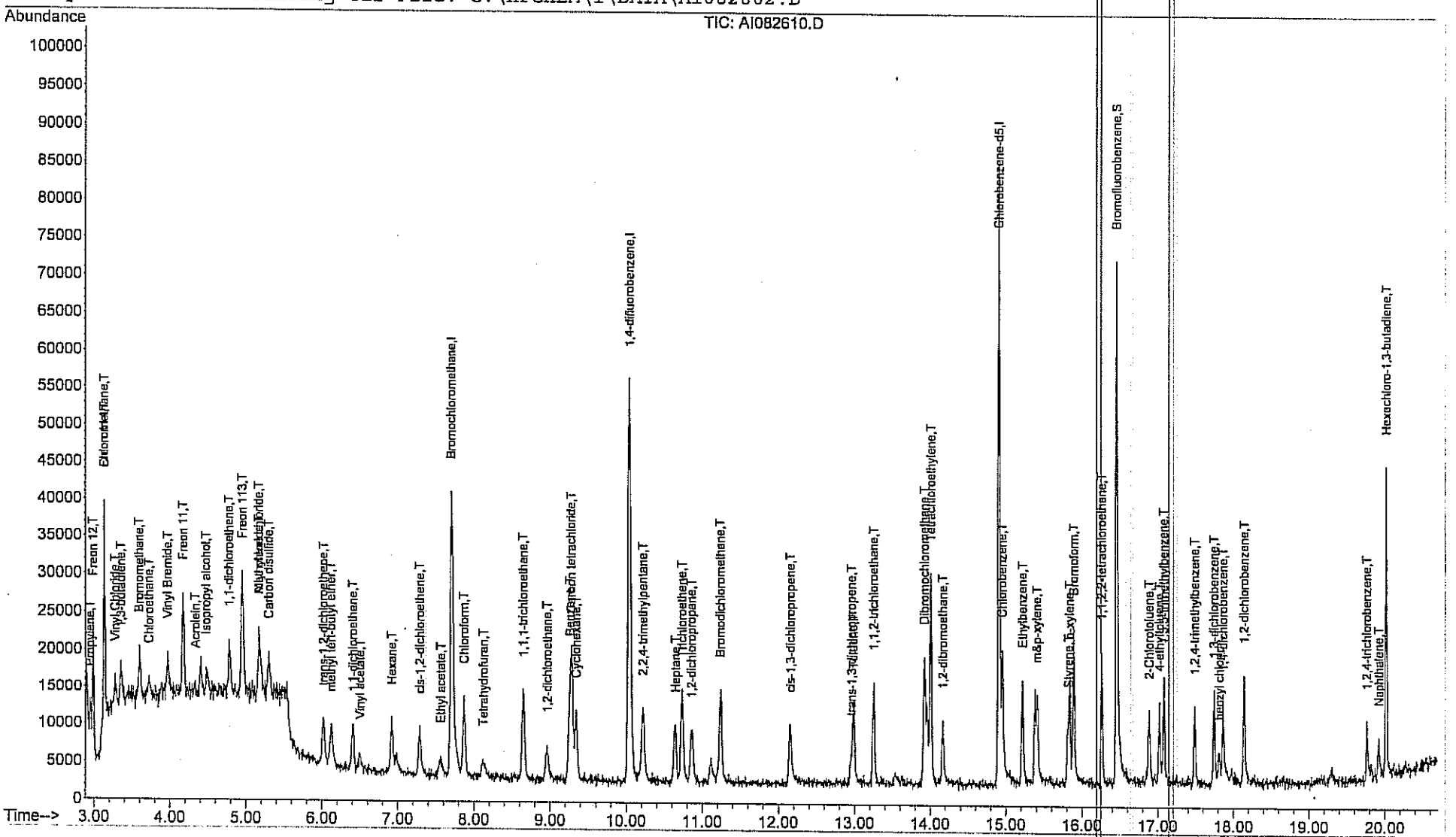
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D
Acq On : 27 Aug 2011 12:09 am
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:53 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082610.D A826_1UG.M Wed Sep 14 16:59:38 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082612.D Vial: 11
Acq On : 27 Aug 2011 1:14 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 01:35:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18058	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	66203	1.00	ppb	0.02
47) Chlorobenzene-d5	14.90	117	55725	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	28444	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	1701	0.10	ppb	93
35) Carbon tetrachloride	9.28	117	6638	0.10	ppb	100
41) Trichloroethene	10.74	130	3436	0.11	ppb	99

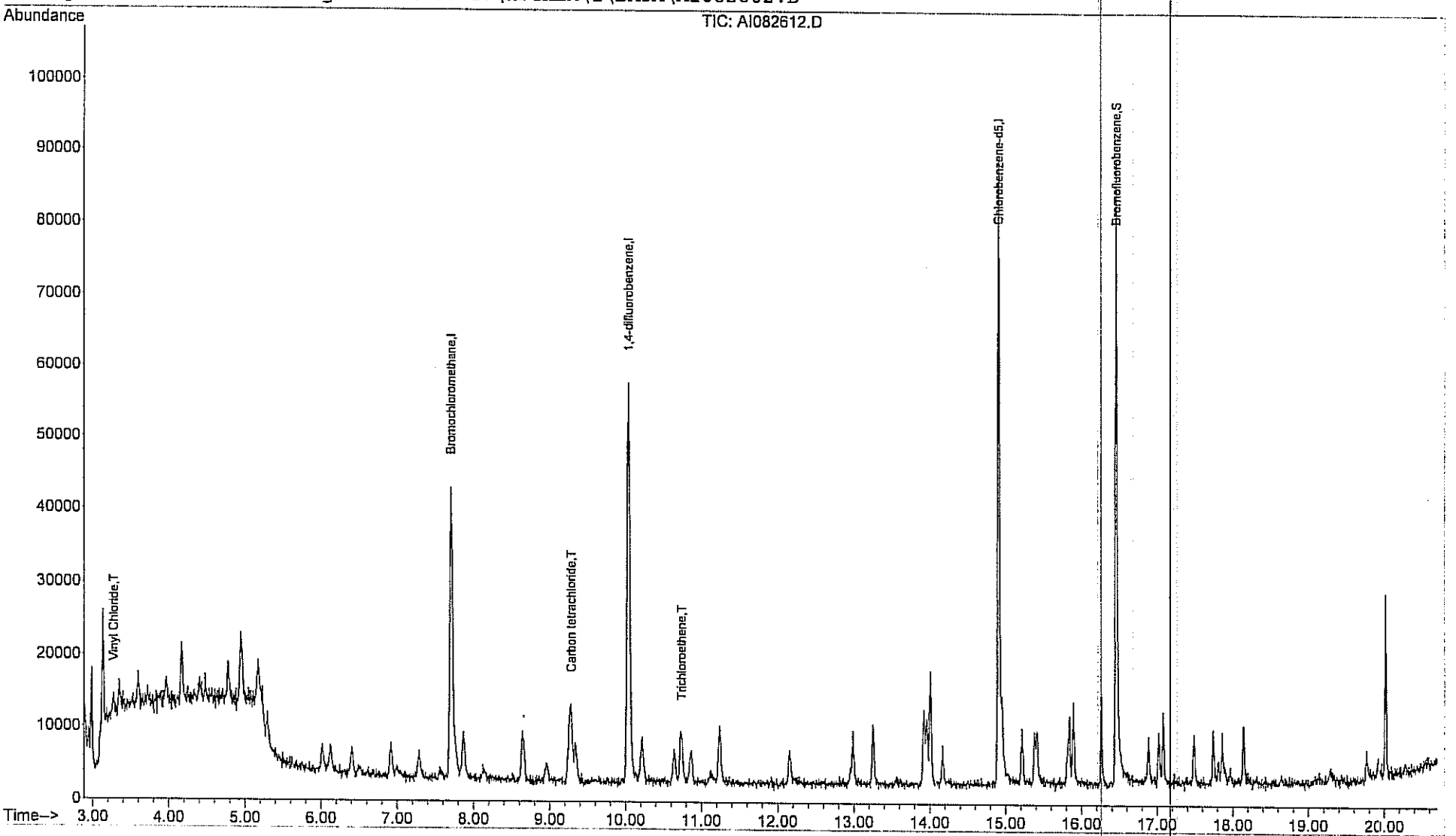
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082612.D
Acq On : 27 Aug 2011 1:14 am
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:54 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082612.D A826_1UG.M Wed Sep 14 16:59:42 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082613.D Vial: 12
Acq On : 27 Aug 2011 1:46 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 02:07:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18373	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.04	114	69553	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	58557	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	30696	1.12	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	697	0.04	ppb	69
35) Carbon tetrachloride	9.28	117	2594	0.04	ppb	100
41) Trichloroethene	10.73	130	1503	0.04	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

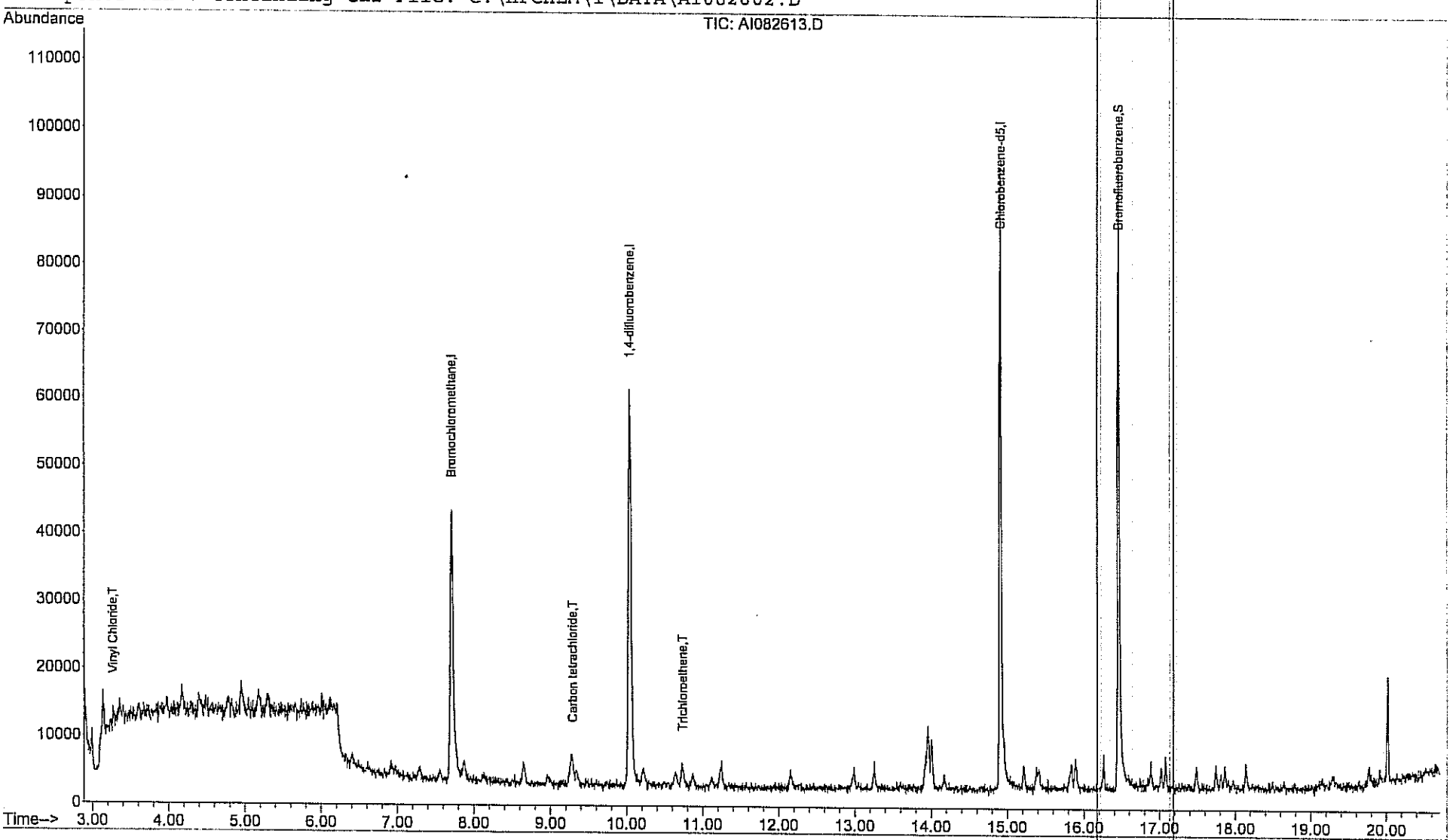
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082613.D
Acq On : 27 Aug 2011 1:46 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:55 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082613.D A826_1UG.M Wed Sep 14 16:59:44 2011 MSD1

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI090702.D Vial: 23
Acq On : 7 Sep 2011 10:45 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	80	0.00
2	T	Propylene	0.662	0.633	4.4	89	0.00
3	T	Freon 12	4.274	4.212	1.5	89	0.00
4	T	Chloromethane	1.071	1.241	-15.9	104	0.00
5	T	Freon 114	3.213	3.396	-5.7	96	0.00
6	T	Vinyl Chloride	0.954	1.041	-9.1	99	0.00
7	T	1,3-butadiene	0.700	0.691	1.3	88	0.00
8	T	Bromomethane	1.228	1.261	-2.7	96	0.00
9	T	Ethanol	0.284	0.360	-26.8	85	-0.02
10	T	Acrolein	0.265	0.297	-12.1	122	-0.03
11	T	Chloroethane	0.406	0.439	-8.1	102	0.00
12	T	Vinyl Bromide	1.137	1.136	0.1	91	0.00
13	T	Freon 11	3.318	3.476	-4.8	94	0.00
14	T	Acetone	0.353	0.394	-11.6	108	-0.02
15	T	Isopropyl alcohol	0.721	0.781	-8.3	97	-0.03
16	T	1,1-dichloroethene	1.048	1.135	-8.3	95	0.00
17	T	Freon 113	2.325	2.814	-21.0	112	0.00
18	T	Methylene chloride	0.903	1.158	-28.2	119	0.00
19	T	Allyl chloride	0.894	0.921	-3.0	95	0.00
20	T	Carbon disulfide	2.837	3.219	-13.5	110	0.00
21	T	trans-1,2-dichloroethene	1.564	1.573	-0.6	88	0.00
22	T	methyl tert-butyl ether	1.253	1.286	-2.6	92	-0.04
23	T	1,1-dichloroethane	1.977	1.992	-0.8	90	0.00
24	T	Vinyl acetate	1.511	1.379	8.7	76	-0.02
25	T	Methyl Ethyl Ketone	0.327	0.268	18.0	67	0.00
26	T	cis-1,2-dichloroethene	1.464	1.476	-0.8	88	-0.01
27	T	Hexane	1.222	1.192	2.5	85	0.00
28	T	Ethyl acetate	1.426	1.146	19.6	72	0.00
29	T	Chloroform	3.081	3.086	-0.2	88	0.00
30	T	Tetrahydrofuran	0.624	0.554	11.2	74	0.00
31	T	1,2-dichloroethane	1.905	1.933	-1.5	91	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	74	0.00
33	T	1,1,1-trichloroethane	0.738	0.798	-8.1	89	0.00
34	T	Cyclohexane	0.327	0.342	-4.6	87	0.00
35	T	Carbon tetrachloride	0.996	1.079	-8.3	90	0.00
36	T	Benzene	0.857	0.841	1.9	81	0.00
37	T	Methyl methacrylate	0.204	0.185	9.3	70	0.00
38	T	1,4-dioxane	0.115	0.085	26.1	63	0.00
39	T	2,2,4-trimethylpentane	0.910	0.993	-9.1	94	0.00
40	T	Heptane	0.313	0.350	-11.8	92	0.00
41	T	Trichloroethene	0.523	0.531	-1.5	84	0.00
42	T	1,2-dichloropropane	0.281	0.300	-6.8	91	0.00
43	T	Bromodichloromethane	0.856	0.896	-4.7	88	0.00
44	T	cis-1,3-dichloropropene	0.371	0.386	-4.0	85	0.00
45	T	trans-1,3-dichloropropene	0.273	0.259	5.1	73	0.00
46	T	1,1,2-trichloroethane	0.438	0.434	0.9	81	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
48	T	Toluene	0.653	0.673	-3.1	78	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.243	21.1	61	0.00

(#) = Out of Range

Results Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI090702.D Vial: 23
Acq On : 7 Sep 2011 10:45 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.164	-2.6	80	0.00
51	T	Methyl Butyl Ketone	0.180	0.162	10.0	61	0.03
52	T	1,2-dibromoethane	0.764	0.800	-4.7	78	0.00
53	T	Tetrachloroethylene	0.692	0.697	-0.7	79	0.00
54	T	Chlorobenzene	1.048	1.016	3.1	74	0.00
55	T	Ethylbenzene	1.339	1.257	6.1	68	0.00
56	T	m&p-xylene	1.093	1.139	-4.2	73	0.00
57	T	Styrene	0.658	0.586	10.9	63	0.00
58	T	Bromoform	1.151	0.988	14.2	66	0.00
59	T	o-xylene	1.270	1.241	2.3	73	0.00
60	S	Bromofluorobenzene	0.505	0.528	-4.6	64	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	0.848	5.9	71	0.00
62	T	2-Chlorotoluene	0.813	0.759	6.6	67	0.00
63	T	4-ethyltoluene	1.046	1.066	-1.9	75	0.00
64	T	1,3,5-trimethylbenzene	1.147	1.229	-7.1	79	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.917	0.9	76	0.00
66	T	1,3-dichlorobenzene	0.848	0.796	6.1	71	0.00
67	T	benzyl chloride	0.420	0.512	-21.9	92	0.00
68	T	1,4-dichlorobenzene	0.807	0.719	10.9	67	0.00
69	T	1,2-dichlorobenzene	0.841	0.837	0.5	79	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.338	17.0	62	0.00
71	T	Naphthalene	0.542	0.347	36.0#	52	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.634	9.2	72	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AI090702.D A826_1UG.M Thu Sep 15 12:59:26 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090702.D Vial: 23
Acq On : 7 Sep 2011 10:45 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 11:05:59 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	14074	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	49747	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	40301	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	21267	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	8902	0.96	ppb		100
3) Freon 12	2.98	85	59275	0.99	ppb		100
4) Chloromethane	3.13	50	17464	1.16	ppb		97
5) Freon 114	3.13	85	47798	1.06	ppb		95
6) Vinyl Chloride	3.27	62	14644	1.09	ppb		98
7) 1,3-butadiene	3.34	39	9724	0.99	ppb		84
8) Bromomethane	3.59	94	17752	1.03	ppb		98
9) Ethanol	3.86	45	5069m	1.27	ppb		
10) Acrolein	4.29	56	4180	1.12	ppb		93
11) Chloroethane	3.71	64	6176	1.08	ppb		99
12) Vinyl Bromide	3.96	106	15995	1.00	ppb		97
13) Freon 11	4.16	101	48923	1.05	ppb		100
14) Acetone	4.37	58	5548m	1.12	ppb		
15) Isopropyl alcohol	4.45	45	10991	1.08	ppb	#	100
16) 1,1-dichloroethene	4.76	96	15967	1.08	ppb		97
17) Freon 113	4.94	101	39605	1.21	ppb		96
18) Methylene chloride	5.16	84	16299	1.28	ppb		94
19) Allyl chloride	5.15	41	12962	1.03	ppb		92
20) Carbon disulfide	5.28	76	45305	1.13	ppb		100
21) trans-1,2-dichloroethene	6.00	61	22135	1.01	ppb		98
22) methyl tert-butyl ether	6.08	73	18095	1.03	ppb		85
23) 1,1-dichloroethane	6.39	63	28031	1.01	ppb		96
24) Vinyl acetate	6.47	43	19409	0.91	ppb		99
25) Methyl Ethyl Ketone	6.96	72	3765	0.82	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	20771	1.01	ppb		95
27) Hexane	6.91	57	16770	0.98	ppb		99
28) Ethyl acetate	7.53	43	16123	0.80	ppb		99
29) Chloroform	7.86	83	43437	1.00	ppb		100
30) Tetrahydrofuran	8.08	42	7795	0.89	ppb		91
31) 1,2-dichloroethane	8.93	62	27200	1.01	ppb		99
33) 1,1,1-trichloroethane	8.63	97	39696	1.08	ppb		99
34) Cyclohexane	9.34	56	17012	1.05	ppb		97
35) Carbon tetrachloride	9.27	117	53661	1.08	ppb		99
36) Benzene	9.24	78	41822	0.98	ppb		97
37) Methyl methacrylate	11.09	41	9182	0.90	ppb		100
38) 1,4-dioxane	11.17	88	4205m	0.74	ppb		
39) 2,2,4-trimethylpentane	10.21	57	49406	1.09	ppb		98
40) Heptane	10.63	43	17401	1.12	ppb		93
41) Trichloroethene	10.72	130	26425	1.02	ppb		99
42) 1,2-dichloropropane	10.84	63	14917	1.07	ppb		96
43) Bromodichloromethane	11.22	83	44553	1.05	ppb		99
44) cis-1,3-dichloropropene	12.13	75	19215	1.04	ppb		94
45) trans-1,3-dichloropropene	12.94	75	12902	0.95	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090702.D Vial: 23
Acq On : 7 Sep 2011 10:45 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 11:05:59 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

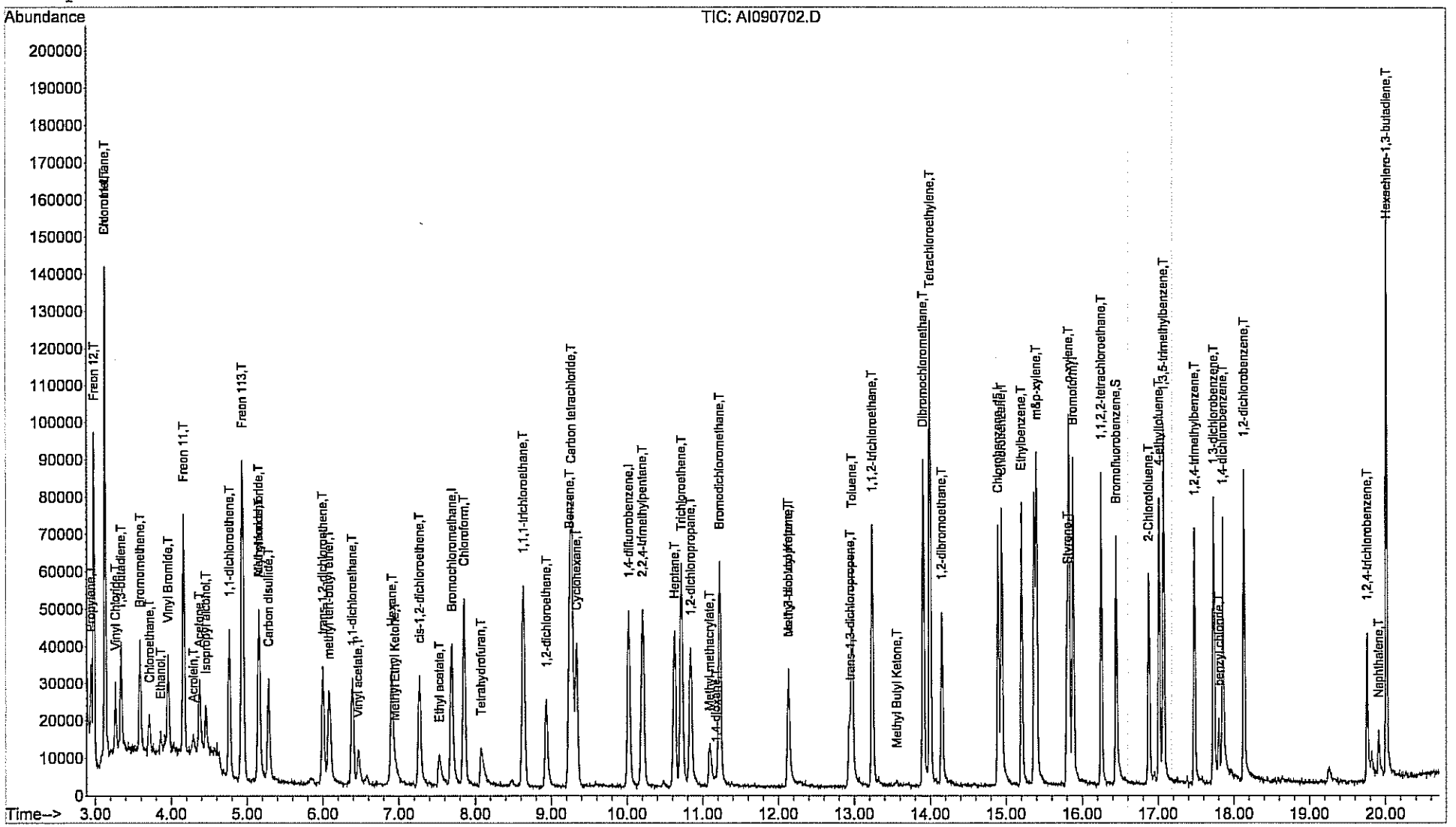
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	21600	0.99	ppb	100
48)	Toluene	12.97	92	27117	1.03	ppb	93
49)	Methyl Isobutyl Ketone	12.14	43	9808m	0.79	ppb	
50)	Dibromochloromethane	13.91	129	46917	1.03	ppb	100
51)	Methyl Butyl Ketone	13.55	43	6541m	0.90	ppb	
52)	1,2-dibromoethane	14.15	107	32226	1.05	ppb	99
53)	Tetrachloroethylene	14.00	164	28080	1.01	ppb	98
54)	Chlorobenzene	14.94	112	40929	0.97	ppb	98
55)	Ethylbenzene	15.21	91	50673	0.94	ppb	99
56)	m&p-xylene	15.40	91	91818	2.08	ppb	100
57)	Styrene	15.80	104	23600	0.89	ppb	94
58)	Bromoform	15.88	173	39814	0.86	ppb	98
59)	o-xylene	15.82	91	50024	0.98	ppb	98
61)	1,1,2,2-tetrachloroethane	16.25	83	34174	0.94	ppb	99
62)	2-Chlorotoluene	16.88	91	30602	0.93	ppb	98
63)	4-ethyltoluene	17.01	105	42980	1.02	ppb	99
64)	1,3,5-trimethylbenzene	17.08	105	49546	1.07	ppb	96
65)	1,2,4-trimethylbenzene	17.48	105	36937	0.99	ppb	100
66)	1,3-dichlorobenzene	17.73	146	32097	0.94	ppb	97
67)	benzyl chloride	17.80	91	20616m	1.22	ppb	
68)	1,4-dichlorobenzene	17.86	146	28996	0.89	ppb	94
69)	1,2-dichlorobenzene	18.14	146	33731	1.00	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	13604	0.83	ppb	95
71)	Naphthalene	19.91	128	13993m	0.64	ppb	
72)	Hexachloro-1,3-butadiene	20.01	225	25534	0.91	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qt Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090702.D Vial: 23
Acq On : 7 Sep 2011 10:45 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 7 11:08 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



AI090702.D A826_1UG.M Thu Sep 15 12:58:57 2011 MSD1 Page 3

Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI090804.D Vial: 4
Acq On : 8 Sep 2011 12:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	76	0.00
2	T	Propylene	0.662	0.544	17.8	72	0.00
3	T	Freon 12	4.274	3.716	13.1	74	0.00
4	T	Chloromethane	1.071	1.093	-2.1	86	0.00
5	T	Freon 114	3.213	3.002	6.6	80	0.00
6	T	Vinyl Chloride	0.954	0.927	2.8	83	0.00
7	T	1,3-butadiene	0.700	0.651	7.0	78	0.00
8	T	Bromomethane	1.228	1.215	1.1	88	0.00
9	T	Ethanol	0.284	0.269	5.3	60	-0.01
10	T	Acrolein	0.265	0.232	12.5	90	-0.02
11	T	Chloroethane	0.406	0.390	3.9	85	0.00
12	T	Vinyl Bromide	1.137	1.042	8.4	79	0.00
13	T	Freon 11	3.318	3.264	1.6	84	0.00
14	T	Acetone	0.353	0.347	1.7	89	-0.01
15	T	Isopropyl alcohol	0.721	0.668	7.4	78	-0.02
16	T	1,1-dichloroethene	1.048	0.976	6.9	77	0.00
17	T	Freon 113	2.325	2.270	2.4	85	0.00
18	T	Methylene chloride	0.903	1.142	-26.5	110	0.00
19	T	Allyl chloride	0.894	0.844	5.6	82	0.00
20	T	Carbon disulfide	2.837	2.668	6.0	86	0.00
21	T	trans-1,2-dichloroethene	1.564	1.362	12.9	72	0.00
22	T	methyl tert-butyl ether	1.253	0.996	20.5	68	-0.02
23	T	1,1-dichloroethane	1.977	1.655	16.3	70	0.00
24	T	Vinyl acetate	1.511	1.177	22.1	62	-0.02
25	T	Methyl Ethyl Ketone	0.327	0.271	17.1	64	0.00
26	T	cis-1,2-dichloroethene	1.464	1.253	14.4	71	0.00
27	T	Hexane	1.222	0.922	24.5	62	0.00
28	T	Ethyl acetate	1.426	1.104	22.6	65	0.00
29	T	Chloroform	3.081	2.670	13.3	72	0.00
30	T	Tetrahydrofuran	0.624	0.530	15.1	67	0.00
31	T	1,2-dichloroethane	1.905	1.688	11.4	75	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	61	0.00
33	T	1,1,1-trichloroethane	0.738	0.791	-7.2	73	0.00
34	T	Cyclohexane	0.327	0.312	4.6	65	0.00
35	T	Carbon tetrachloride	0.996	1.094	-9.8	75	0.00
36	T	Benzene	0.857	0.822	4.1	65	0.00
37	T	Methyl methacrylate	0.204	0.159	22.1	50#	0.00
38	T	1,4-dioxane	0.115	0.107	7.0	66	-0.02
39	T	2,2,4-trimethylpentane	0.910	0.907	0.3	70	0.00
40	T	Heptane	0.313	0.320	-2.2	69	0.00
41	T	Trichloroethene	0.523	0.542	-3.6	71	0.00
42	T	1,2-dichloropropane	0.281	0.275	2.1	69	0.00
43	T	Bromodichloromethane	0.856	0.891	-4.1	72	0.00
44	T	cis-1,3-dichloropropene	0.371	0.355	4.3	65	0.00
45	T	trans-1,3-dichloropropene	0.273	0.274	-0.4	63	0.00
46	T	1,1,2-trichloroethane	0.438	0.423	3.4	65	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	61	0.00
48	T	Toluene	0.653	0.588	10.0	62	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.282	8.4	65	0.00

(#) = Out of Range

Results Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI090804.D Vial: 4
Acq On : 8 Sep 2011 12:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.031	9.1	65	0.00
51	T	Methyl Butyl Ketone	0.180	0.134	25.6	47#	0.00
52	T	1,2-dibromoethane	0.764	0.702	8.1	63	0.00
53	T	Tetrachloroethylene	0.692	0.592	14.5	62	0.00
54	T	Chlorobenzene	1.048	0.936	10.7	62	0.00
55	T	Ethylbenzene	1.339	1.184	11.6	59	0.00
56	T	m&p-xylene	1.093	1.038	5.0	61	0.00
57	T	Styrene	0.658	0.558	15.2	55	0.00
58	T	Bromoform	1.151	0.948	17.6	58	0.00
59	T	o-xylene	1.270	1.154	9.1	62	0.00
60	S	Bromofluorobenzene	0.505	0.482	4.6	54	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	0.838	7.0	65	0.00
62	T	2-Chlorotoluene	0.813	0.732	10.0	60	0.00
63	T	4-ethyltoluene	1.046	0.848	18.9	55	0.00
64	T	1,3,5-trimethylbenzene	1.147	1.006	12.3	60	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.741	19.9	56	0.00
66	T	1,3-dichlorobenzene	0.848	0.781	7.9	64	0.00
67	T	benzyl chloride	0.420	0.321	23.6	53	0.00
68	T	1,4-dichlorobenzene	0.807	0.715	11.4	61	0.00
69	T	1,2-dichlorobenzene	0.841	0.723	14.0	62	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.332	18.4	56	0.00
71	T	Naphthalene	0.542	0.427	21.2	58	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.566	18.9	59	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AI090804.D A826_1UG.M Thu Sep 15 13:12:54 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090804.D Vial: 4
Acq On : 8 Sep 2011 12:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 12:31:22 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13282	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	41038	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	37015	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	17829	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	7228	0.82	ppb		98
3) Freon 12	2.98	85	49356	0.87	ppb		100
4) Chloromethane	3.13	50	14517	1.02	ppb		97
5) Freon 114	3.13	85	39877	0.93	ppb		99
6) Vinyl Chloride	3.27	62	12311	0.97	ppb		100
7) 1,3-butadiene	3.34	39	8648	0.93	ppb		99
8) Bromomethane	3.59	94	16135	0.99	ppb		91
9) Ethanol	3.87	45	3579m	0.95	ppb		
10) Acrolein	4.29	56	3084	0.88	ppb		96
11) Chloroethane	3.71	64	5178	0.96	ppb		100
12) Vinyl Bromide	3.96	106	13835	0.92	ppb		96
13) Freon 11	4.17	101	43355	0.98	ppb		99
14) Acetone	4.38	58	4613m	0.98	ppb		
15) Isopropyl alcohol	4.46	45	8867m	0.93	ppb		
16) 1,1-dichloroethene	4.77	96	12969	0.93	ppb		97
17) Freon 113	4.94	101	30149	0.98	ppb		100
18) Methylene chloride	5.17	84	15168	1.26	ppb		91
19) Allyl chloride	5.15	41	11215	0.94	ppb		94
20) Carbon disulfide	5.28	76	35437	0.94	ppb		100
21) trans-1,2-dichloroethene	6.00	61	18092	0.87	ppb		99
22) methyl tert-butyl ether	6.10	73	13232	0.80	ppb		82
23) 1,1-dichloroethane	6.39	63	21984	0.84	ppb		99
24) Vinyl acetate	6.47	43	15638	0.78	ppb		100
25) Methyl Ethyl Ketone	6.96	72	3593m	0.83	ppb		
26) cis-1,2-dichloroethene	7.27	61	16637	0.86	ppb		98
27) Hexane	6.91	57	12245	0.75	ppb		98
28) Ethyl acetate	7.53	43	14657m	0.77	ppb		
29) Chloroform	7.85	83	35457	0.87	ppb		99
30) Tetrahydrofuran	8.09	42	7033m	0.85	ppb		
31) 1,2-dichloroethane	8.94	62	22425	0.89	ppb		99
33) 1,1,1-trichloroethane	8.64	97	32471	1.07	ppb		96
34) Cyclohexane	9.33	56	12786	0.95	ppb	#	74
35) Carbon tetrachloride	9.28	117	44916	1.10	ppb		98
36) Benzene	9.24	78	33734	0.96	ppb		96
37) Methyl methacrylate	11.10	41	6531	0.78	ppb		94
38) 1,4-dioxane	11.14	88	4400m	0.94	ppb		
39) 2,2,4-trimethylpentane	10.21	57	37201	1.00	ppb		99
40) Heptane	10.63	43	13143	1.02	ppb		98
41) Trichloroethene	10.72	130	22223	1.04	ppb		98
42) 1,2-dichloropropane	10.84	63	11301	0.98	ppb		98
43) Bromodichloromethane	11.23	83	36572	1.04	ppb		99
44) cis-1,3-dichloropropene	12.14	75	14586	0.96	ppb		98
45) trans-1,3-dichloropropene	12.93	75	11226	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090804.D Vial: 4
Acq On : 8 Sep 2011 12:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 12:31:22 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	17376	0.97	ppb	98
48)	Toluene	12.97	92	21773	0.90	ppb	92
49)	Methyl Isobutyl Ketone	12.13	43	10440m	0.92	ppb	
50)	Dibromochloromethane	13.91	129	38178	0.91	ppb	99
51)	Methyl Butyl Ketone	13.53	43	4948m	0.74	ppb	
52)	1,2-dibromoethane	14.15	107	26003	0.92	ppb	99
53)	Tetrachloroethylene	14.00	164	21924	0.86	ppb	100
54)	Chlorobenzene	14.94	112	34646	0.89	ppb	98
55)	Ethylbenzene	15.21	91	43839	0.88	ppb	99
56)	m&p-xylene	15.40	91	76877	1.90	ppb	100
57)	Styrene	15.80	104	20665	0.85	ppb	97
58)	Bromoform	15.88	173	35094	0.82	ppb	100
59)	o-xylene	15.83	91	42709	0.91	ppb	100
61)	1,1,2,2-tetrachloroethane	16.25	83	31025	0.93	ppb	98
62)	2-Chlorotoluene	16.88	91	27092	0.90	ppb	100
63)	4-ethyltoluene	17.02	105	31389	0.81	ppb	95
64)	1,3,5-trimethylbenzene	17.07	105	37230	0.88	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	27436	0.80	ppb	98
66)	1,3-dichlorobenzene	17.73	146	28924	0.92	ppb	97
67)	benzyl chloride	17.81	91	11872	0.76	ppb	94
68)	1,4-dichlorobenzene	17.85	146	26467	0.89	ppb	96
69)	1,2-dichlorobenzene	18.14	146	26744	0.86	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	12275m	0.81	ppb	
71)	Naphthalene	19.91	128	15806m	0.79	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	20956	0.81	ppb	98

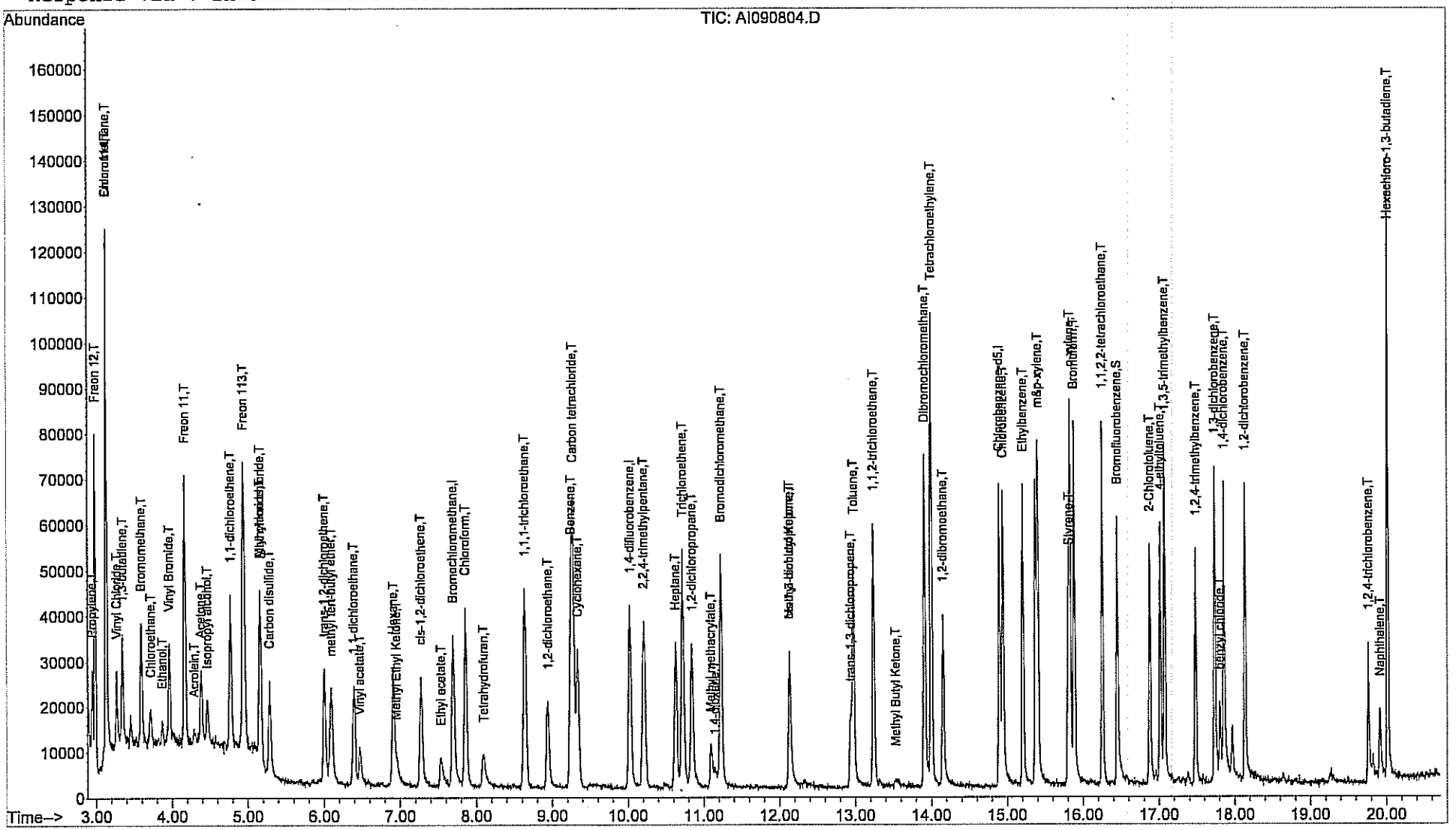
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090804.D
Acq On : 8 Sep 2011 12:10 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 12:34 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

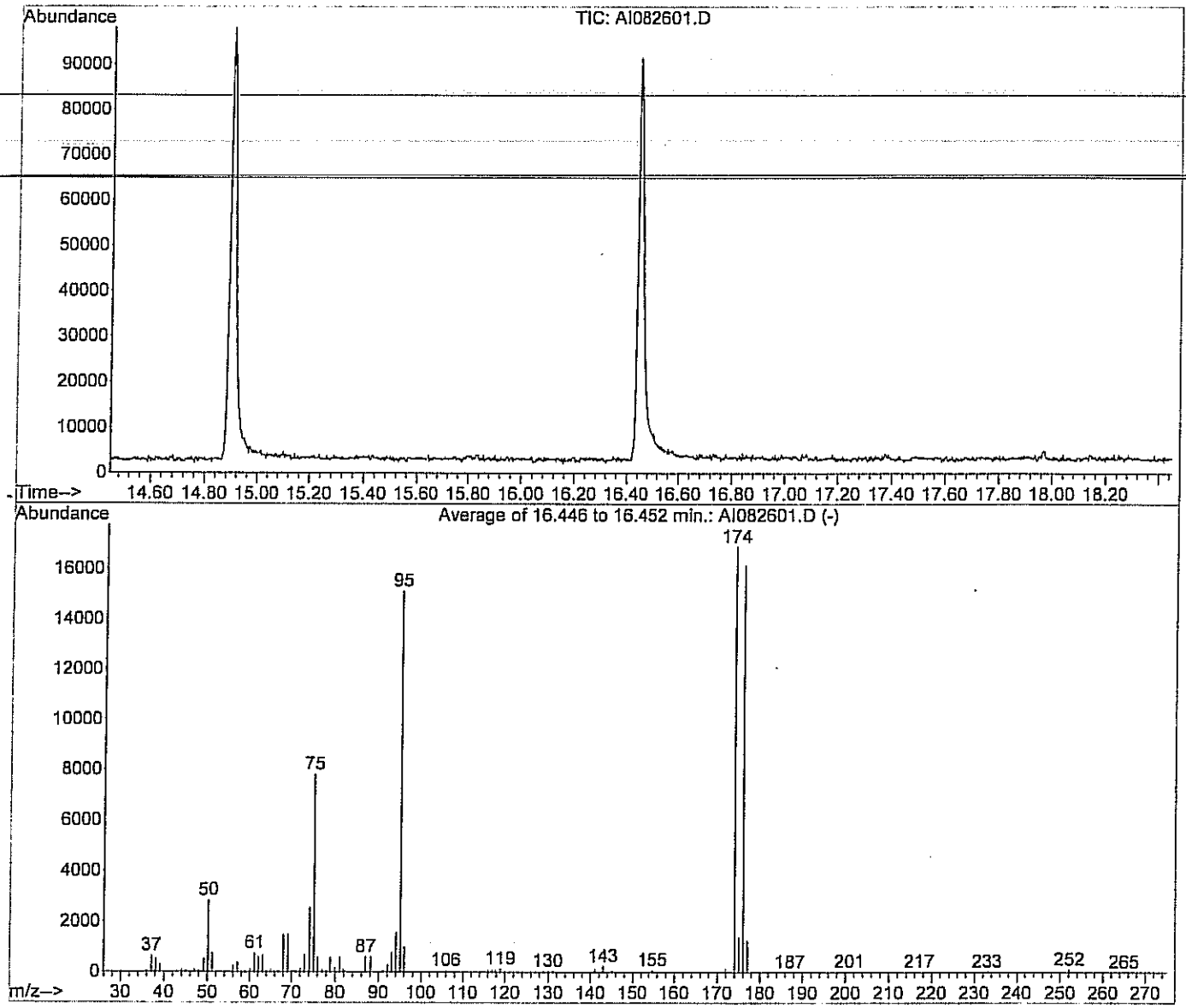
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI082601.D
Acq On : 26 Aug 2011 7:13 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.446 to 16.452 min.

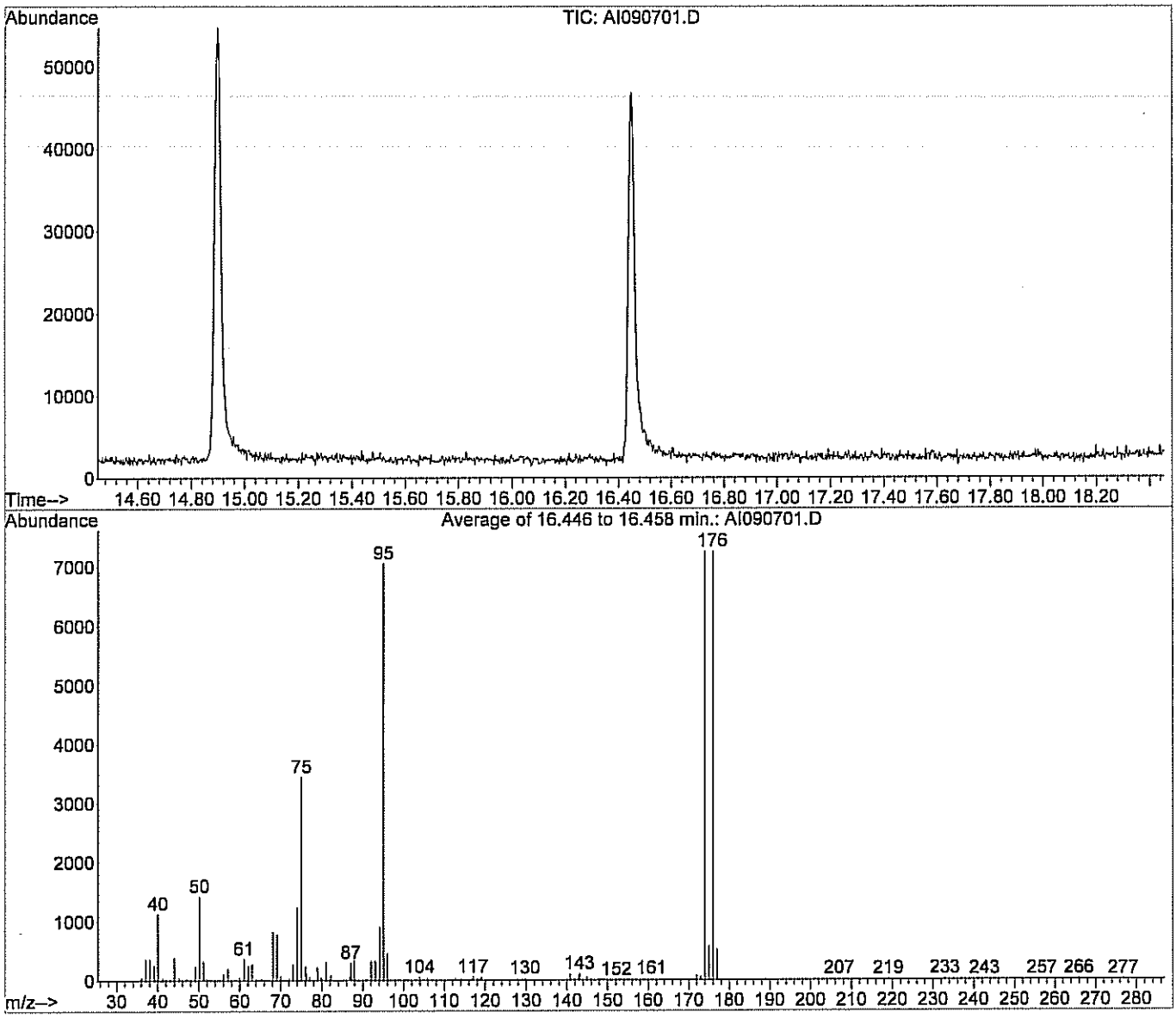
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	2842	PASS
75	95	30	66	51.7	7829	PASS
95	95	100	100	100.0	15137	PASS
96	95	5	9	6.7	1010	PASS
173	174	0.00	2	0.4	69	PASS
174	95	50	120	111.6	16900	PASS
175	174	4	9	8.3	1398	PASS
176	174	95	101	95.6	16160	PASS
177	176	5	9	7.8	1261	PASS

AI082601.D A826_1UG.M Wed Sep 14 16:58:39 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI090701.D
Acq On : 7 Sep 2011 10:10 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 22
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.446 to 16.458 min.

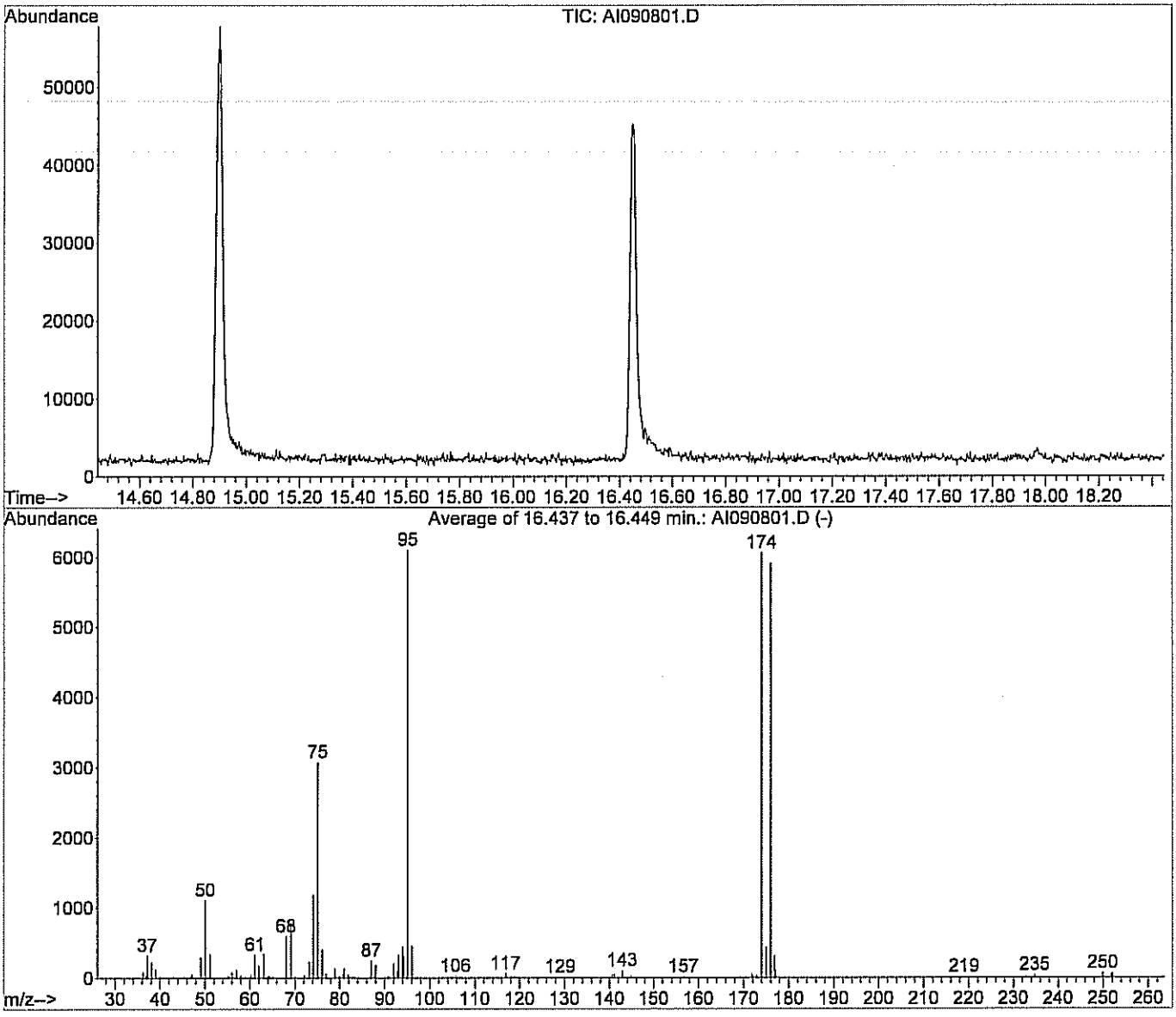
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	20.2	1425	PASS
75	95	30	66	48.8	3441	PASS
95	95	100	100	100.0	7056	PASS
96	95	5	9	6.6	463	PASS
173	174	0.00	2	0.8	59	PASS
174	95	50	120	102.8	7252	PASS
175	174	4	9	7.9	576	PASS
176	174	95	101	100.1	7257	PASS
177	176	5	9	7.2	522	PASS

AI090701.D A826_1UG.M Wed Sep 28 16:34:45 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI090801.D
Acq On : 8 Sep 2011 10:27 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.437 to 16.449 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.1	1107	PASS
75	95	30	66	50.4	3081	PASS
95	95	100	100	100.0	6109	PASS
96	95	5	9	7.5	457	PASS
173	174	0.00	2	0.6	34	PASS
174	95	50	120	99.3	6069	PASS
175	174	4	9	7.1	433	PASS
176	174	95	101	97.5	5916	PASS
177	176	5	9	5.3	315	PASS

AI090801.D A826_1UG.M Thu Sep 15 13:11:07 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *15-Sep-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090711 SampType: MBLK TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58452

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-090811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-090811** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4927**
Client ID: **ZZZZZ** Batch ID: **R4927** TestNo: **TO-15** Analysis Date: **9/8/2011** SeqNo: **58489**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID AMB1UG-090811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58489

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090704.D Vial: 25
Acq On : 7 Sep 2011 11:53 am Operator: RJP
Sample : AMB1UG-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 12:14:26 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

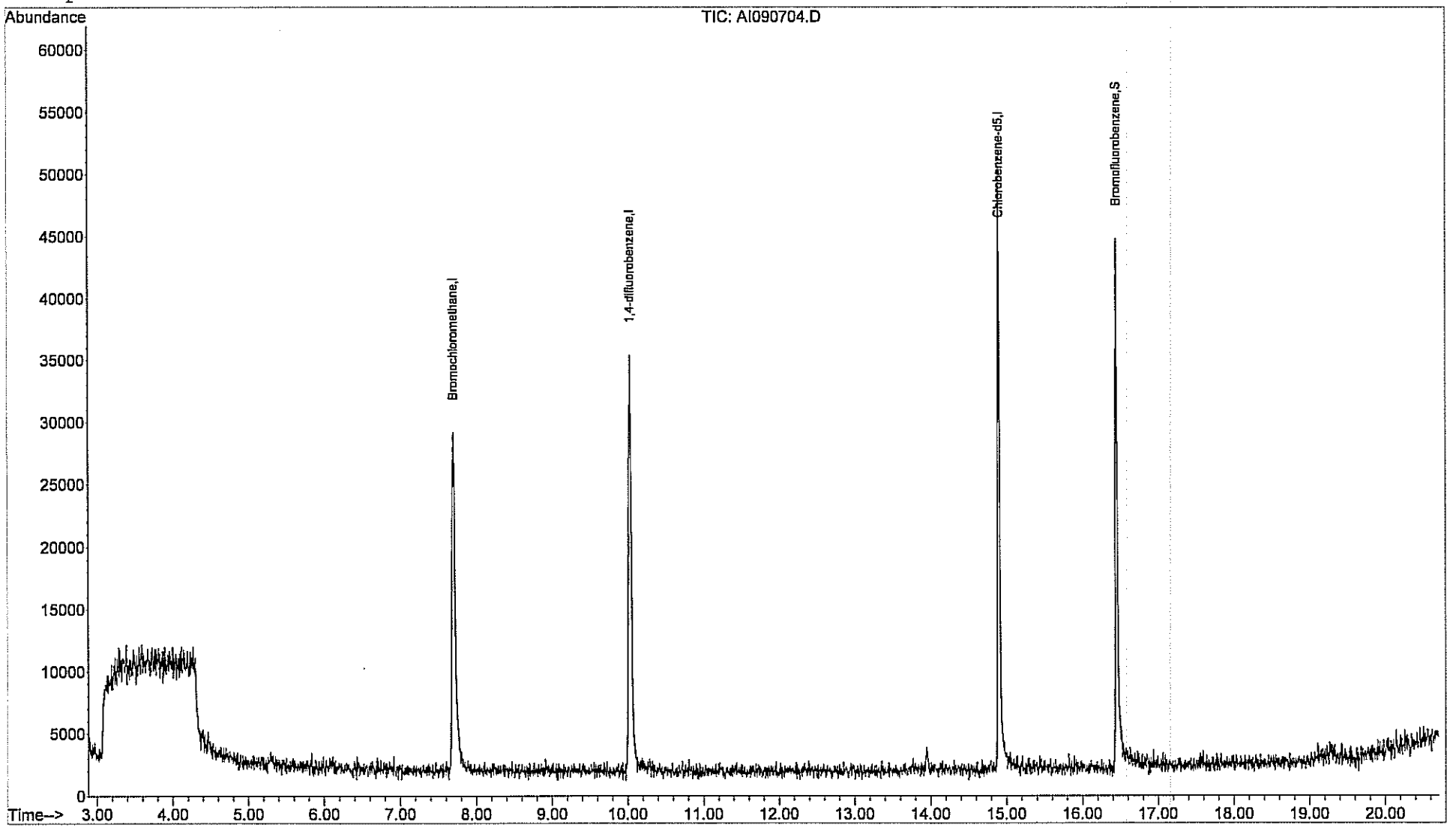
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12207	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	37192	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	31109	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	15249	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090704.D Vial: 25
Acq On : 7 Sep 2011 11:53 am Operator: RJP
Sample : AMB1UG-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:21 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090806.D Vial: 6
Acq On : 8 Sep 2011 1:14 pm Operator: RJP
Sample : AMB1UG-090811 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 13:35:02 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

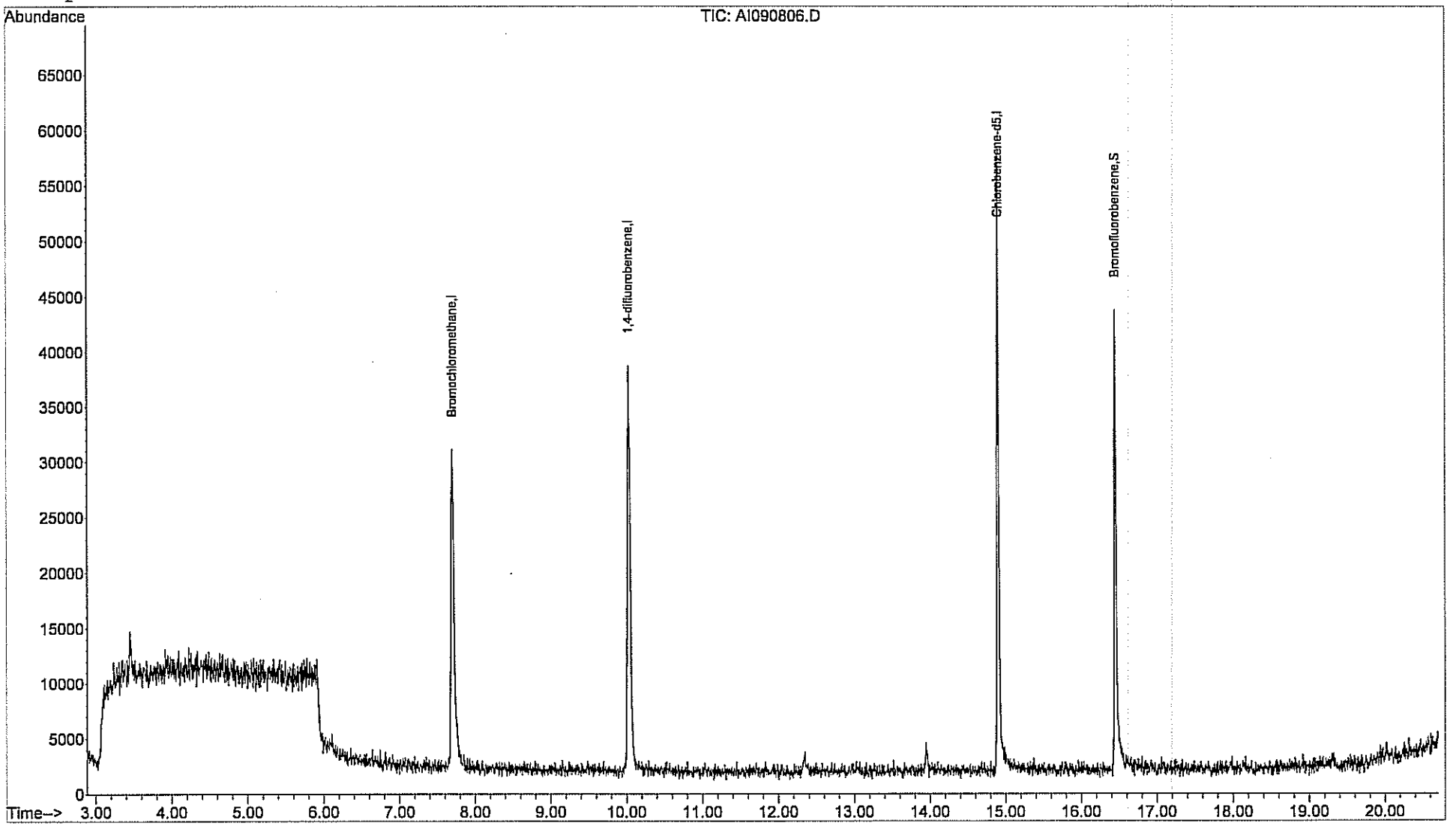
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12608	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	41206	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	34455	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14773	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Qt Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090806.D Vial: 6
Acq On : 8 Sep 2011 1:14 pm Operator: RJP
Sample : AMB1UG-090811 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:12 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *15-Sep-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-090711	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4926
Client ID:	ZZZZZ	Batch ID:	R4926	TestNo:	TO-15			Analysis Date:	9/7/2011	SeqNo:	58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.130	0.15	1	0	113	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethane	1.020	0.15	1	0	102	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	0.7600	0.15	1	0	76.0	70	130				
1,2,4-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,2-Dibromoethane	0.9800	0.15	1	0	98.0	70	130				
1,2-Dichlorobenzene	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,2-Dichloropropane	1.050	0.15	1	0	105	70	130				
1,3,5-Trimethylbenzene	0.9700	0.15	1	0	97.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dichlorobenzene	0.9100	0.15	1	0	91.0	70	130				
1,4-Dioxane	0.6500	0.30	1	0	65.0	70	130				S
2,2,4-trimethylpentane	1.060	0.15	1	0	106	70	130				
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130				
Acetone	1.060	0.30	1	0	106	70	130				
Allyl chloride	1.070	0.15	1	0	107	70	130				
Benzene	1.030	0.15	1	0	103	70	130				
Benzyl chloride	0.7900	0.15	1	0	79.0	70	130				
Bromodichloromethane	1.090	0.15	1	0	109	70	130				
Bromoform	0.8600	0.15	1	0	86.0	70	130				
Bromomethane	1.120	0.15	1	0	112	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.110	0.15	1	0	111	70	130				
Carbon tetrachloride	1.120	0.15	1	0	112	70	130				
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130				
Chloroethane	1.070	0.15	1	0	107	70	130				
Chloroform	1.000	0.15	1	0	100	70	130				
Chloromethane	1.180	0.15	1	0	118	70	130				
cis-1,2-Dichloroethene	1.040	0.15	1	0	104	70	130				
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130				
Cyclohexane	1.070	0.15	1	0	107	70	130				
Dibromochloromethane	0.9900	0.15	1	0	99.0	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.100	0.15	1	0	110	70	130				
Freon 113	1.110	0.15	1	0	111	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	1.000	0.15	1	0	100	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	0.8000	0.15	1	0	80.0	70	130				
Hexane	0.9400	0.15	1	0	94.0	70	130				
Isopropyl alcohol	1.270	0.15	1	0	127	70	130				
m&p-Xylene	2.040	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.7300	0.30	1	0	73.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.7400	0.30	1	0	74.0	70	130				
Methyl tert-butyl ether	0.9900	0.15	1	0	99.0	70	130				
Methylene chloride	1.270	0.15	1	0	127	70	130				
o-Xylene	0.9800	0.15	1	0	98.0	70	130				
Propylene	0.9200	0.15	1	0	92.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	0.9700	0.15	1	0	97.0	70	130				
Tetrahydrofuran	0.9400	0.15	1	0	94.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58453

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.000	0.15	1	0	100	70	130				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130				
Trichloroethene	1.010	0.15	1	0	101	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.140	0.15	1	0	114	70	130				

Sample ID ALCS1UG-090811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1,2,2-Tetrachloroethane	0.9800	0.15	1	0	98.0	70	130				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethane	0.8700	0.15	1	0	87.0	70	130				
1,1-Dichloroethene	0.9600	0.15	1	0	96.0	70	130				
1,2,4-Trichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2,4-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,2-Dibromoethane	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloroethane	0.9300	0.15	1	0	93.0	70	130				
1,2-Dichloropropane	0.9600	0.15	1	0	96.0	70	130				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,3-butadiene	1.030	0.15	1	0	103	70	130				
1,3-Dichlorobenzene	0.9300	0.15	1	0	93.0	70	130				
1,4-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130				
1,4-Dioxane	0.7500	0.30	1	0	75.0	70	130				
2,2,4-trimethylpentane	0.9600	0.15	1	0	96.0	70	130				
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4927
Client ID: ZZZZZ	Batch ID: R4927	TestNo: TO-15		Analysis Date: 9/8/2011	SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.230	0.30	1	0	123	70	130				
Allyl chloride	1.040	0.15	1	0	104	70	130				
Benzene	0.9300	0.15	1	0	93.0	70	130				
Benzyl chloride	0.7900	0.15	1	0	79.0	70	130				
Bromodichloromethane	1.020	0.15	1	0	102	70	130				
Bromoform	0.8300	0.15	1	0	83.0	70	130				
Bromomethane	1.020	0.15	1	0	102	70	130				
Carbon disulfide	0.9300	0.15	1	0	93.0	70	130				
Carbon tetrachloride	1.060	0.15	1	0	106	70	130				
Chlorobenzene	0.8800	0.15	1	0	88.0	70	130				
Chloroethane	1.030	0.15	1	0	103	70	130				
Chloroform	0.8700	0.15	1	0	87.0	70	130				
Chloromethane	1.000	0.15	1	0	100	70	130				
cis-1,2-Dichloroethene	0.9000	0.15	1	0	90.0	70	130				
cis-1,3-Dichloropropene	0.9400	0.15	1	0	94.0	70	130				
Cyclohexane	0.9300	0.15	1	0	93.0	70	130				
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130				
Ethyl acetate	0.7600	0.25	1	0	76.0	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	0.9900	0.15	1	0	99.0	70	130				
Freon 113	0.9900	0.15	1	0	99.0	70	130				
Freon 114	0.9500	0.15	1	0	95.0	70	130				
Freon 12	0.8800	0.15	1	0	88.0	70	130				
Heptane	0.9800	0.15	1	0	98.0	70	130				
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130				
Hexane	0.8100	0.15	1	0	81.0	70	130				
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130				
m&p-Xylene	1.930	0.30	2	0	96.5	70	130				
Methyl Butyl Ketone	0.7600	0.30	1	0	76.0	70	130				
Methyl Ethyl Ketone	0.7700	0.30	1	0	77.0	70	130				
Methyl Isobutyl Ketone	0.8000	0.30	1	0	80.0	70	130				

Qualifiers:

. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-090811 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4927
Client ID: ZZZZZ Batch ID: R4927 TestNo: TO-15 Analysis Date: 9/8/2011 SeqNo: 58490

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8100	0.15	1	0	81.0	70	130				
Methylene chloride	1.270	0.15	1	0	127	70	130				
o-Xylene	0.9200	0.15	1	0	92.0	70	130				
Propylene	0.8400	0.15	1	0	84.0	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	0.8700	0.15	1	0	87.0	70	130				
Tetrahydrofuran	0.7200	0.15	1	0	72.0	70	130				
Toluene	0.9000	0.15	1	0	90.0	70	130				
trans-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	70	130				
trans-1,3-Dichloropropene	1.050	0.15	1	0	105	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	0.8800	0.15	1	0	88.0	70	130				
Vinyl Bromide	0.9400	0.15	1	0	94.0	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090703.D Vial: 24
Acq On : 7 Sep 2011 11:18 am Operator: RJP
Sample : ALCS1UG-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 11:39:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13257	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	46294	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	39817	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	22928	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	8092	0.92	ppb		99
3) Freon 12	2.98	85	56374	1.00	ppb		99
4) Chloromethane	3.12	50	16773	1.18	ppb		97
5) Freon 114	3.13	85	46334	1.09	ppb		99
6) Vinyl Chloride	3.26	62	14441	1.14	ppb		99
7) 1,3-butadiene	3.34	39	10370	1.12	ppb		100
8) Bromomethane	3.59	94	18271	1.12	ppb		95
9) Ethanol	3.87	45	3641m	0.97	ppb		
10) Acrolein	4.30	56	3621	1.03	ppb		98
11) Chloroethane	3.71	64	5752	1.07	ppb		90
12) Vinyl Bromide	3.96	106	16170	1.07	ppb		98
13) Freon 11	4.16	101	48559	1.10	ppb		98
14) Acetone	4.38	58	4965m	1.06	ppb		
15) Isopropyl alcohol	4.46	45	12163	1.27	ppb	#	100
16) 1,1-dichloroethene	4.76	96	14925	1.07	ppb		99
17) Freon 113	4.94	101	34226	1.11	ppb		99
18) Methylene chloride	5.16	84	15172	1.27	ppb		94
19) Allyl chloride	5.15	41	12662	1.07	ppb		95
20) Carbon disulfide	5.28	76	41852	1.11	ppb		98
21) trans-1,2-dichloroethene	6.00	61	20739	1.00	ppb		98
22) methyl tert-butyl ether	6.09	73	16375	0.99	ppb		88
23) 1,1-dichloroethane	6.39	63	26695	1.02	ppb		98
24) Vinyl acetate	6.47	43	20082	1.00	ppb		97
25) Methyl Ethyl Ketone	6.94	72	3909	0.90	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	20089	1.04	ppb		97
27) Hexane	6.91	57	15201	0.94	ppb		97
28) Ethyl acetate	7.53	43	18357	0.97	ppb		98
29) Chloroform	7.86	83	41038	1.00	ppb		99
30) Tetrahydrofuran	8.09	42	7761	0.94	ppb		91
31) 1,2-dichloroethane	8.93	62	27061	1.07	ppb		98
33) 1,1,1-trichloroethane	8.63	97	38448	1.13	ppb		99
34) Cyclohexane	9.34	56	16252	1.07	ppb		96
35) Carbon tetrachloride	9.27	117	51585	1.12	ppb		100
36) Benzene	9.24	78	40807	1.03	ppb		99
37) Methyl methacrylate	11.09	41	9383	0.99	ppb		94
38) 1,4-dioxane	11.19	88	3472m	0.65	ppb		
39) 2,2,4-trimethylpentane	10.21	57	44785	1.06	ppb		100
40) Heptane	10.63	43	16003	1.10	ppb		96
41) Trichloroethene	10.72	130	24430	1.01	ppb		99
42) 1,2-dichloropropane	10.84	63	13696	1.05	ppb		98
43) Bromodichloromethane	11.22	83	43072	1.09	ppb		99
44) cis-1,3-dichloropropene	12.13	75	16980	0.99	ppb		97
45) trans-1,3-dichloropropene	12.93	75	12511	0.99	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090703.D Vial: 24
Acq On : 7 Sep 2011 11:18 am Operator: RJP
Sample : ALCS1UG-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 11:39:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	20126	0.99	ppb	98
48)	Toluene	12.97	92	25876	1.00	ppb	93
49)	Methyl Isobutyl Ketone	12.15	43	9012m	0.74	ppb	
50)	Dibromochloromethane	13.91	129	44654	0.99	ppb	100
51)	Methyl Butyl Ketone	13.53	43	5238m	0.73	ppb	
52)	1,2-dibromoethane	14.15	107	29903	0.98	ppb	99
53)	Tetrachloroethylene	14.00	164	26787	0.97	ppb	95
54)	Chlorobenzene	14.95	112	38932	0.93	ppb	99
55)	Ethylbenzene	15.20	91	52410	0.98	ppb	99
56)	m&p-xylene	15.40	91	89006	2.04	ppb	100
57)	Styrene	15.80	104	24485	0.93	ppb	98
58)	Bromoform	15.88	173	39232	0.86	ppb	98
59)	o-xylene	15.83	91	49541	0.98	ppb	100
61)	1,1,2,2-tetrachloroethane	16.25	83	33510	0.93	ppb	99
62)	2-Chlorotoluene	16.88	91	30125	0.93	ppb	98
63)	4-ethyltoluene	17.01	105	38022	0.91	ppb	96
64)	1,3,5-trimethylbenzene	17.07	105	44378	0.97	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	32873	0.89	ppb	99
66)	1,3-dichlorobenzene	17.73	146	30036	0.89	ppb	95
67)	benzyl chloride	17.80	91	13210	0.79	ppb	97
68)	1,4-dichlorobenzene	17.85	146	29291	0.91	ppb	98
69)	1,2-dichlorobenzene	18.14	146	29339	0.88	ppb	97
70)	1,2,4-trichlorobenzene	19.76	180	12307	0.76	ppb	98
71)	Naphthalene	19.92	128	13695m	0.63	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	22120	0.80	ppb	97

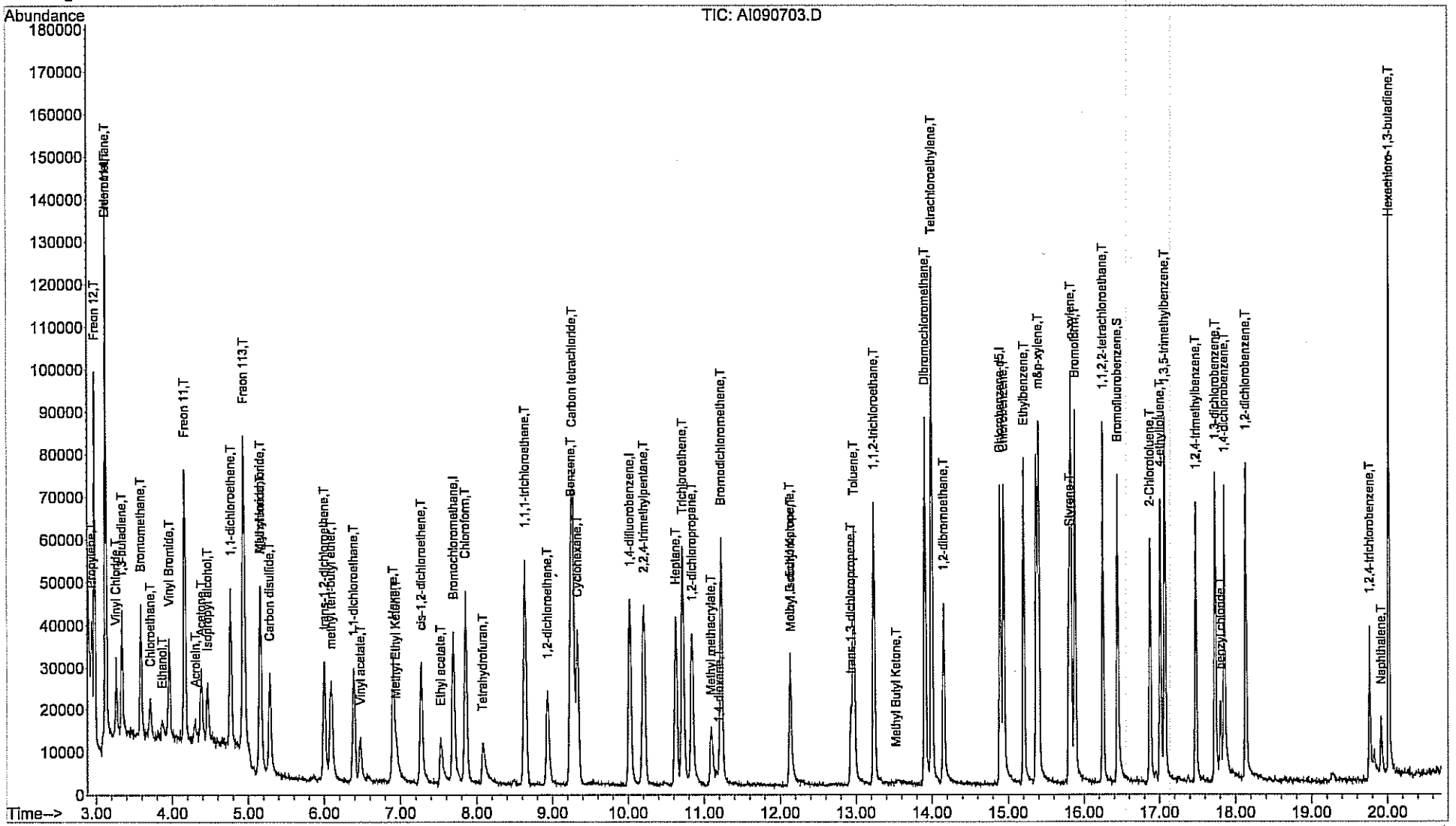
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090703.D
Acq On : 7 Sep 2011 11:18 am
Sample : ALCS1UG-090711
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:21 2011

Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090805.D Vial: 5
Acq On : 8 Sep 2011 12:42 pm Operator: RJP
Sample : ALCS1UG-090811 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 13:03:30 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13237	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	42933	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	38558	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	19785	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	7355	0.84	ppb		92
3) Freon 12	2.98	85	49766	0.88	ppb		99
4) Chloromethane	3.13	50	14208	1.00	ppb		94
5) Freon 114	3.13	85	40389	0.95	ppb		97
6) Vinyl Chloride	3.27	62	12855	1.02	ppb		98
7) 1,3-butadiene	3.34	39	9578	1.03	ppb		98
8) Bromomethane	3.59	94	16610	1.02	ppb		93
9) Ethanol	3.86	45	3521m	0.94	ppb		
10) Acrolein	4.30	56	3261	0.93	ppb		97
11) Chloroethane	3.71	64	5513	1.03	ppb		98
12) Vinyl Bromide	3.96	106	14169	0.94	ppb		95
13) Freon 11	4.16	101	43495	0.99	ppb		100
14) Acetone	4.37	58	5739m	1.23	ppb		
15) Isopropyl alcohol	4.45	45	9332	0.98	ppb	#	100
16) 1,1-dichloroethene	4.77	96	13279	0.96	ppb		98
17) Freon 113	4.94	101	30336	0.99	ppb		99
18) Methylene chloride	5.16	84	15167	1.27	ppb		95
19) Allyl chloride	5.15	41	12283	1.04	ppb		97
20) Carbon disulfide	5.28	76	34966	0.93	ppb		99
21) trans-1,2-dichloroethene	6.00	61	17904	0.86	ppb		95
22) methyl tert-butyl ether	6.09	73	13424	0.81	ppb		86
23) 1,1-dichloroethane	6.39	63	22642	0.87	ppb		97
24) Vinyl acetate	6.46	43	17527	0.88	ppb		97
25) Methyl Ethyl Ketone	6.95	72	3349m	0.77	ppb		
26) cis-1,2-dichloroethene	7.28	61	17397	0.90	ppb		98
27) Hexane	6.91	57	13104	0.81	ppb		96
28) Ethyl acetate	7.52	43	14404	0.76	ppb		98
29) Chloroform	7.85	83	35535	0.87	ppb		99
30) Tetrahydrofuran	8.07	42	5985	0.72	ppb		94
31) 1,2-dichloroethane	8.93	62	23519	0.93	ppb		100
33) 1,1,1-trichloroethane	8.64	97	32898	1.04	ppb		97
34) Cyclohexane	9.33	56	13115	0.93	ppb		94
35) Carbon tetrachloride	9.27	117	45229	1.06	ppb		97
36) Benzene	9.24	78	34069	0.93	ppb		97
37) Methyl methacrylate	11.09	41	7474	0.85	ppb		93
38) 1,4-dioxane	11.15	88	3674m	0.75	ppb		
39) 2,2,4-trimethylpentane	10.21	57	37455	0.96	ppb		99
40) Heptane	10.63	43	13242	0.98	ppb		94
41) Trichloroethene	10.72	130	21942	0.98	ppb		97
42) 1,2-dichloropropane	10.85	63	11565	0.96	ppb		98
43) Bromodichloromethane	11.23	83	37312	1.02	ppb		99
44) cis-1,3-dichloropropene	12.14	75	15051	0.94	ppb		98
45) trans-1,3-dichloropropene	12.94	75	12309	1.05	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090805.D
Acq On : 8 Sep 2011 12:42 pm
Sample : ALCS1UG-090811
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 08 13:03:30 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

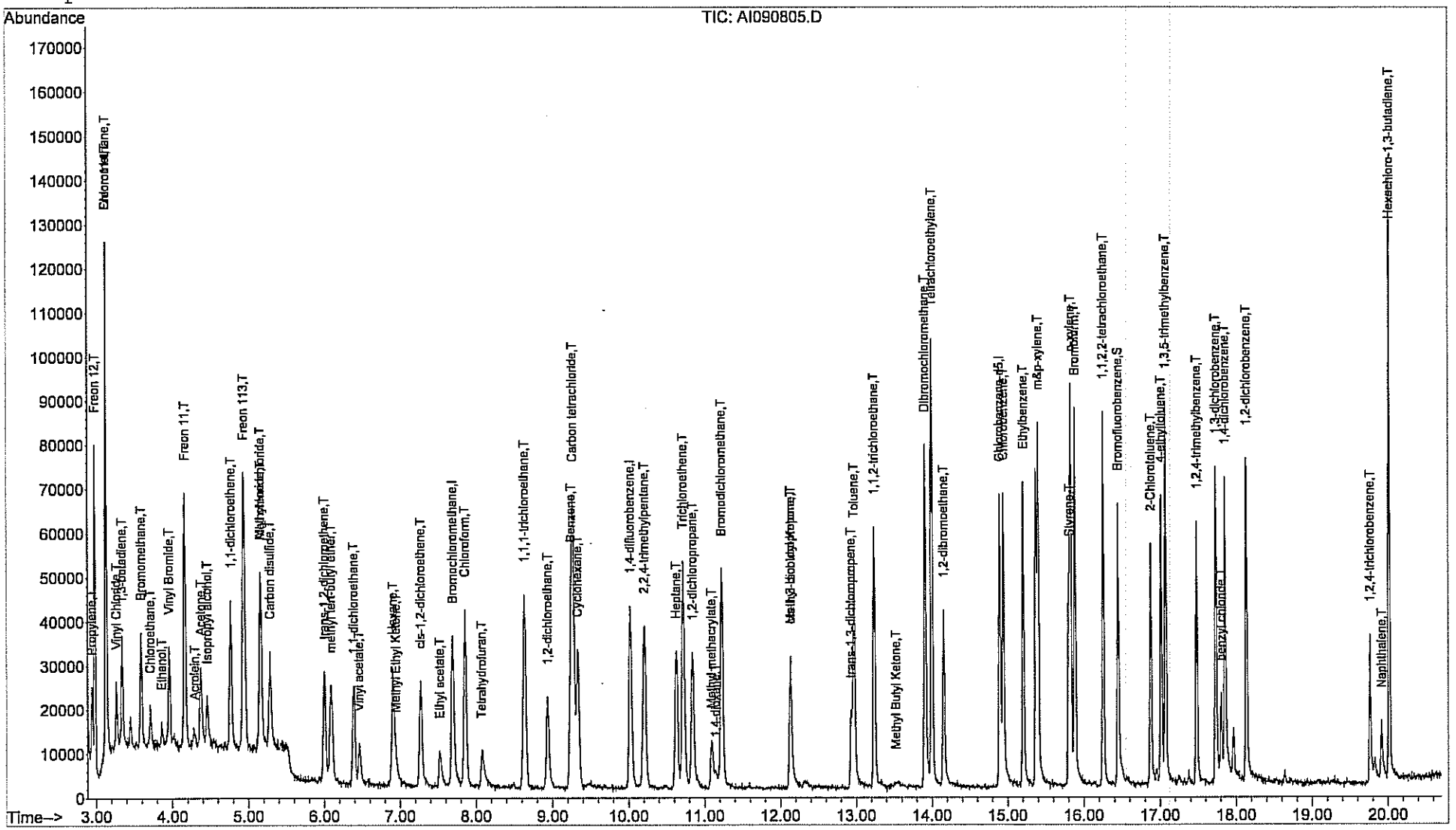
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	17369	0.92	ppb	100
48)	Toluene	12.97	92	22610	0.90	ppb	95
49)	Methyl Isobutyl Ketone	12.13	43	9448m	0.80	ppb	
50)	Dibromochloromethane	13.91	129	39472	0.90	ppb	98
51)	Methyl Butyl Ketone	13.52	43	5232m	0.76	ppb	
52)	1,2-dibromoethane	14.15	107	27703	0.94	ppb	97
53)	Tetrachloroethylene	13.99	164	23169	0.87	ppb	97
54)	Chlorobenzene	14.95	112	35704	0.88	ppb	98
55)	Ethylbenzene	15.21	91	46823	0.91	ppb	98
56)	m&p-xylene	15.40	91	81562	1.93	ppb	99
57)	Styrene	15.80	104	23588	0.93	ppb	99
58)	Bromoform	15.88	173	36648	0.83	ppb	99
59)	o-xylene	15.83	91	44920	0.92	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	34146	0.98	ppb	99
62)	2-Chlorotoluene	16.88	91	27640	0.88	ppb	100
63)	4-ethyltoluene	17.01	105	36655	0.91	ppb	98
64)	1,3,5-trimethylbenzene	17.08	105	43987	0.99	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	30922	0.87	ppb	99
66)	1,3-dichlorobenzene	17.73	146	30538	0.93	ppb	99
67)	benzyl chloride	17.81	91	12745	0.79	ppb	96
68)	1,4-dichlorobenzene	17.85	146	28727	0.92	ppb	96
69)	1,2-dichlorobenzene	18.13	146	29072	0.90	ppb	97
70)	1,2,4-trichlorobenzene	19.77	180	13032m	0.83	ppb	
71)	Naphthalene	19.92	128	13028m	0.62	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	21196	0.79	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090805.D
Acq On : 8 Sep 2011 12:42 pm
Sample : ALCS1UG-090811
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 16:08 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *15-Sep-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.13	1.75	30	
1,1,2,2-Tetrachloroethane	0.8400	0.15	1	0	84.0	70	130	0.93	10.2	30	
1,1,2-Trichloroethane	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30	
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130	1.02	0.985	30	
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130	1.07	0	30	
1,2,4-Trichlorobenzene	0.6500	0.15	1	0	65.0	70	130	0.76	15.6	30	S
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130	0.89	8.19	30	
1,2-Dibromoethane	0.9100	0.15	1	0	91.0	70	130	0.98	7.41	30	
1,2-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130	0.88	4.65	30	
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130	1.07	4.78	30	
1,2-Dichloropropane	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
1,3,5-Trimethylbenzene	0.7300	0.15	1	0	73.0	70	130	0.97	28.2	30	
1,3-butadiene	1.150	0.15	1	0	115	70	130	1.12	2.64	30	
1,3-Dichlorobenzene	0.7600	0.15	1	0	76.0	70	130	0.89	15.8	30	
1,4-Dichlorobenzene	0.7600	0.15	1	0	76.0	70	130	0.91	18.0	30	
1,4-Dioxane	0.5100	0.30	1	0	51.0	70	130	0.65	24.1	30	S
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130	1.06	4.83	30	
4-ethyltoluene	0.7200	0.15	1	0	72.0	70	130	0.91	23.3	30	
Acetone	1.150	0.30	1	0	115	70	130	1.06	8.14	30	
Allyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	
Benzene	1.000	0.15	1	0	100	70	130	1.03	2.96	30	
Benzyl chloride	0.9300	0.15	1	0	93.0	70	130	0.79	16.3	30	
Bromodichloromethane	1.010	0.15	1	0	101	70	130	1.09	7.62	30	
Bromoform	0.7800	0.15	1	0	78.0	70	130	0.86	9.76	30	
Bromomethane	1.030	0.15	1	0	103	70	130	1.12	8.37	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4926
Client ID: ZZZZZ	Batch ID: R4926	TestNo: TO-15		Analysis Date: 9/7/2011	SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.020	0.15	1	0	102	70	130	1.11	8.45	30	
Carbon tetrachloride	1.090	0.15	1	0	109	70	130	1.12	2.71	30	
Chlorobenzene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Chloroethane	1.170	0.15	1	0	117	70	130	1.07	8.93	30	
Chloroform	0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
Chloromethane	1.170	0.15	1	0	117	70	130	1.18	0.851	30	
cis-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
cis-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Cyclohexane	1.030	0.15	1	0	103	70	130	1.07	3.81	30	
Dibromochloromethane	0.9000	0.15	1	0	90.0	70	130	0.99	9.52	30	
Ethyl acetate	0.7700	0.25	1	0	77.0	70	130	0.97	23.0	30	
Ethylbenzene	0.8700	0.15	1	0	87.0	70	130	0.98	11.9	30	
Freon 11	1.100	0.15	1	0	110	70	130	1.1	0	30	
Freon 113	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
Freon 114	1.070	0.15	1	0	107	70	130	1.09	1.85	30	
Freon 12	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Heptane	1.080	0.15	1	0	108	70	130	1.1	1.83	30	
Hexachloro-1,3-butadiene	0.5300	0.15	1	0	53.0	70	130	0.8	40.6	30	SR
Hexane	0.8700	0.15	1	0	87.0	70	130	0.94	7.73	30	
Isopropyl alcohol	1.150	0.15	1	0	115	70	130	1.27	9.92	30	
m&p-Xylene	1.790	0.30	2	0	89.5	70	130	2.04	13.1	30	
Methyl Butyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.73	29.9	30	S
Methyl Ethyl Ketone	0.8400	0.30	1	0	84.0	70	130	0.9	6.90	30	
Methyl Isobutyl Ketone	0.9400	0.30	1	0	94.0	70	130	0.74	23.8	30	
Methyl tert-butyl ether	0.8700	0.15	1	0	87.0	70	130	0.99	12.9	30	
Methylene chloride	1.210	0.15	1	0	121	70	130	1.27	4.84	30	
o-Xylene	1.010	0.15	1	0	101	70	130	0.98	3.02	30	
Propylene	1.030	0.15	1	0	103	70	130	0.92	11.3	30	
Styrene	0.8100	0.15	1	0	81.0	70	130	0.93	13.8	30	
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130	0.97	13.2	30	
Tetrahydrofuran	0.9000	0.15	1	0	90.0	70	130	0.94	4.35	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1108077
Project: Griffis AFB

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-090711 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4926
Client ID: ZZZZZ Batch ID: R4926 TestNo: TO-15 Analysis Date: 9/7/2011 SeqNo: 58454

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9400	0.15	1	0	94.0	70	130	1	6.19	30	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
Trichloroethene	1.090	0.15	1	0	109	70	130	1.01	7.62	30	
Vinyl acetate	0.8600	0.15	1	0	86.0	70	130	1	15.1	30	
Vinyl Bromide	1.080	0.15	1	0	108	70	130	1.07	0.930	30	
Vinyl chloride	1.120	0.15	1	0	112	70	130	1.14	1.77	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090723.D Vial: 43
Acq On : 7 Sep 2011 11:23 pm Operator: RJP
Sample : ALCS1UGD-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 23:44:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	14288	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	50244	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	45507	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	28327	1.23	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	9706	1.03	ppb		90
3) Freon 12	2.98	85	60381	0.99	ppb		99
4) Chloromethane	3.13	50	17834	1.17	ppb		98
5) Freon 114	3.13	85	49044	1.07	ppb		96
6) Vinyl Chloride	3.27	62	15206	1.12	ppb		97
7) 1,3-butadiene	3.34	39	11527	1.15	ppb		96
8) Bromomethane	3.59	94	18057	1.03	ppb		99
9) Ethanol	3.86	45	4348	1.07	ppb	#	8
10) Acrolein	4.30	56	3835	1.01	ppb		82
11) Chloroethane	3.71	64	6777	1.17	ppb		94
12) Vinyl Bromide	3.96	106	17518	1.08	ppb		100
13) Freon 11	4.16	101	52130	1.10	ppb		99
14) Acetone	4.38	58	5811m	1.15	ppb		
15) Isopropyl alcohol	4.46	45	11870	1.15	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16008	1.07	ppb		98
17) Freon 113	4.94	101	35965	1.08	ppb		98
18) Methylene chloride	5.16	84	15555	1.21	ppb		96
19) Allyl chloride	5.15	41	14703	1.15	ppb		97
20) Carbon disulfide	5.29	76	41401	1.02	ppb		100
21) trans-1,2-dichloroethene	6.00	61	22041	0.99	ppb		97
22) methyl tert-butyl ether	6.10	73	15541	0.87	ppb		84
23) 1,1-dichloroethane	6.39	63	28438	1.01	ppb		98
24) Vinyl acetate	6.46	43	18525	0.86	ppb		98
25) Methyl Ethyl Ketone	6.94	72	3925m	0.84	ppb		
26) cis-1,2-dichloroethene	7.27	61	20883	1.00	ppb		98
27) Hexane	6.91	57	15228	0.87	ppb		96
28) Ethyl acetate	7.53	43	15684m	0.77	ppb		
29) Chloroform	7.86	83	43306	0.98	ppb		99
30) Tetrahydrofuran	8.09	42	8050m	0.90	ppb		
31) 1,2-dichloroethane	8.94	62	27734	1.02	ppb		100
33) 1,1,1-trichloroethane	8.64	97	42792	1.15	ppb		99
34) Cyclohexane	9.33	56	16983	1.03	ppb		96
35) Carbon tetrachloride	9.27	117	54638	1.09	ppb		100
36) Benzene	9.24	78	42898	1.00	ppb		97
37) Methyl methacrylate	11.09	41	7549m	0.74	ppb		
38) 1,4-dioxane	11.18	88	2944m	0.51	ppb		
39) 2,2,4-trimethylpentane	10.21	57	46178	1.01	ppb		99
40) Heptane	10.63	43	16930	1.08	ppb		99
41) Trichloroethene	10.72	130	28734	1.09	ppb		98
42) 1,2-dichloropropane	10.84	63	14923	1.06	ppb		100
43) Bromodichloromethane	11.22	83	43612	1.01	ppb		100
44) cis-1,3-dichloropropene	12.13	75	18519	0.99	ppb		97
45) trans-1,3-dichloropropene	12.93	75	13593	0.99	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090723.D Vial: 43
Acq On : 7 Sep 2011 11:23 pm Operator: RJP
Sample : ALCS1UGD-090711 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 07 23:44:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	21393	0.97	ppb	99
48)	Toluene	12.97	92	27810	0.94	ppb	95
49)	Methyl Isobutyl Ketone	12.13	43	13143m	0.94	ppb	
50)	Dibromochloromethane	13.91	129	46309	0.90	ppb	98
51)	Methyl Butyl Ketone	13.59	43	4447m	0.54	ppb	
52)	1,2-dibromoethane	14.16	107	31628	0.91	ppb	97
53)	Tetrachloroethylene	14.00	164	26754	0.85	ppb	99
54)	Chlorobenzene	14.94	112	40726	0.85	ppb	98
55)	Ethylbenzene	15.20	91	52708	0.87	ppb	100
56)	m&p-xylene	15.40	91	89222	1.79	ppb	99
57)	Styrene	15.80	104	24358	0.81	ppb	95
58)	Bromoform	15.88	173	40713	0.78	ppb	99
59)	o-xylene	15.83	91	58219	1.01	ppb	91
61)	1,1,2,2-tetrachloroethane	16.25	83	34358	0.84	ppb	98
62)	2-Chlorotoluene	16.88	91	32023	0.87	ppb	99
63)	4-ethyltoluene	17.02	105	34250m	0.72	ppb	
64)	1,3,5-trimethylbenzene	17.07	105	37877	0.73	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	34391m	0.82	ppb	
66)	1,3-dichlorobenzene	17.74	146	29276	0.76	ppb	95
67)	benzyl chloride	17.81	91	17805m	0.93	ppb	
68)	1,4-dichlorobenzene	17.86	146	27805	0.76	ppb	99
69)	1,2-dichlorobenzene	18.14	146	32111m	0.84	ppb	
70)	1,2,4-trichlorobenzene	19.76	180	12118m	0.65	ppb	
71)	Naphthalene	19.92	128	6729	0.27	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	16815m	0.53	ppb	

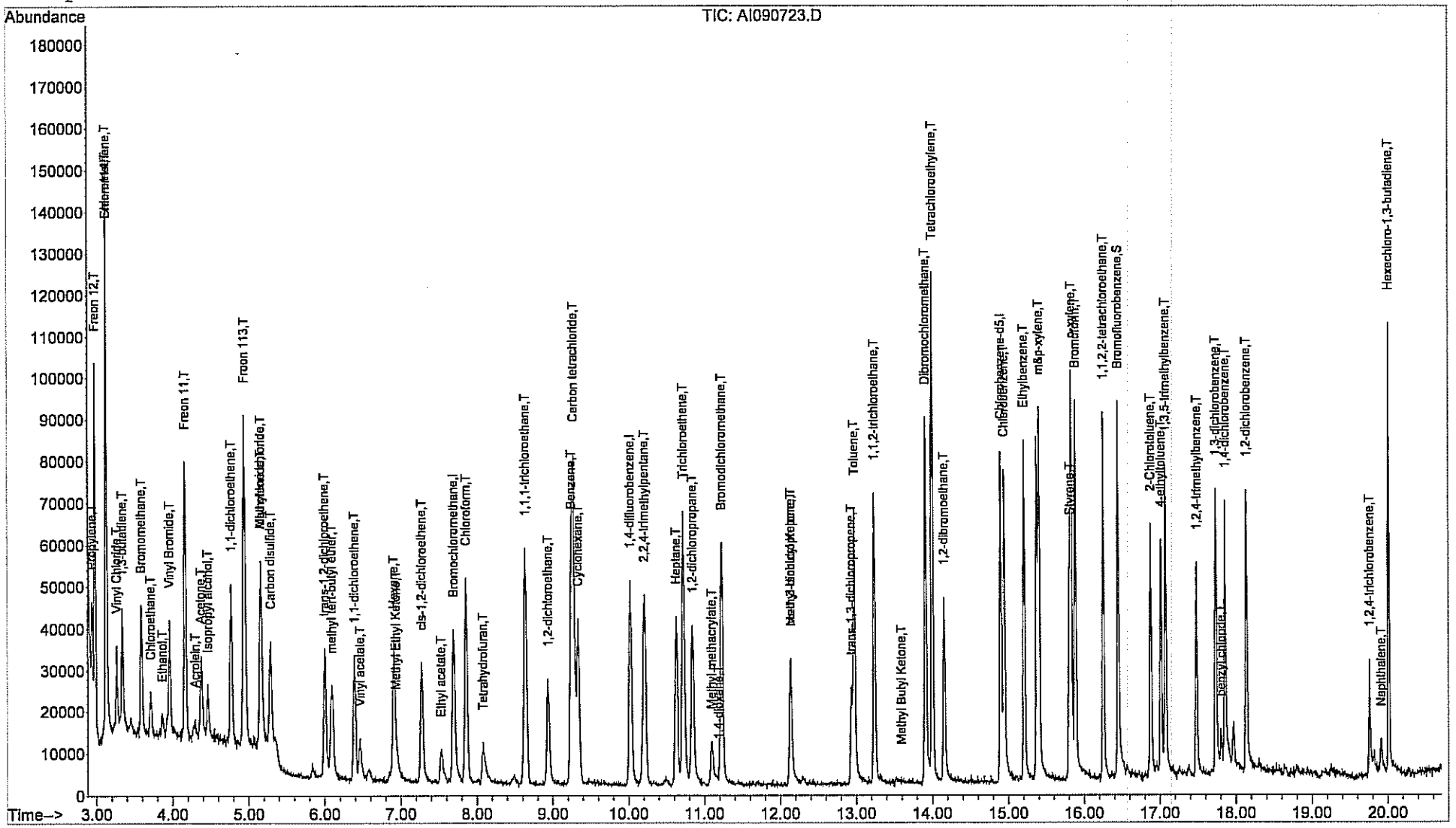
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090723.D
Acq On : 7 Sep 2011 11:23 pm
Sample : ALCS1UGD-090711
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 8 9:36 2011

Vial: 43
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090817.D Vial: 15
Acq On : 8 Sep 2011 8:13 pm Operator: RJP
Sample : ALCS1UGD-090811 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 20:34:15 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13803	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	44278	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	37864	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	18194	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	7437	0.81	ppb		95
3) Freon 12	2.98	85	51409	0.87	ppb		100
4) Chloromethane	3.13	50	14191	0.96	ppb		99
5) Freon 114	3.13	85	39921	0.90	ppb		99
6) Vinyl Chloride	3.27	62	12810	0.97	ppb		96
7) 1,3-butadiene	3.34	39	8652	0.90	ppb		98
8) Bromomethane	3.59	94	14910	0.88	ppb		99
9) Ethanol	3.86	45	5220m	1.33	ppb		
10) Acrolein	4.28	56	3486	0.95	ppb		89
11) Chloroethane	3.71	64	4961	0.89	ppb		86
12) Vinyl Bromide	3.96	106	13836	0.88	ppb		93
13) Freon 11	4.16	101	43086	0.94	ppb		98
14) Acetone	4.37	58	5001m	1.03	ppb		
15) Isopropyl alcohol	4.46	45	7067	0.71	ppb	#	100
16) 1,1-dichloroethene	4.77	96	13598	0.94	ppb		96
17) Freon 113	4.94	101	33988	1.06	ppb		96
18) Methylene chloride	5.16	84	14854m	1.19	ppb		
19) Allyl chloride	5.15	41	10776	0.87	ppb		99
20) Carbon disulfide	5.29	76	38657	0.99	ppb		100
21) trans-1,2-dichloroethene	6.01	61	18196	0.84	ppb		98
22) methyl tert-butyl ether	6.09	73	12441m	0.72	ppb		
23) 1,1-dichloroethane	6.40	63	23283	0.85	ppb		99
24) Vinyl acetate	6.47	43	15948m	0.76	ppb		
25) Methyl Ethyl Ketone	6.96	72	3151m	0.70	ppb		
26) cis-1,2-dichloroethene	7.28	61	17412	0.86	ppb		97
27) Hexane	6.91	57	12933	0.77	ppb		98
28) Ethyl acetate	7.54	43	12280m	0.62	ppb		
29) Chloroform	7.85	83	36793	0.87	ppb		97
30) Tetrahydrofuran	8.09	42	7156m	0.83	ppb		
31) 1,2-dichloroethane	8.94	62	22504	0.86	ppb		99
33) 1,1,1-trichloroethane	8.64	97	32602	1.00	ppb		99
34) Cyclohexane	9.34	56	13775	0.95	ppb		95
35) Carbon tetrachloride	9.28	117	44998	1.02	ppb		99
36) Benzene	9.25	78	33335	0.88	ppb		97
37) Methyl methacrylate	11.11	41	6049m	0.67	ppb		
38) 1,4-dioxane	11.17	88	2750m	0.54	ppb		
39) 2,2,4-trimethylpentane	10.21	57	39221	0.97	ppb		99
40) Heptane	10.63	43	13576	0.98	ppb		99
41) Trichloroethene	10.72	130	23556	1.02	ppb		99
42) 1,2-dichloropropane	10.84	63	11710	0.94	ppb		100
43) Bromodichloromethane	11.23	83	38225	1.01	ppb		98
44) cis-1,3-dichloropropene	12.14	75	14756	0.90	ppb		97
45) trans-1,3-dichloropropene	12.94	75	11378	0.94	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI090817.D Vial: 15
Acq On : 8 Sep 2011 8:13 pm Operator: RJP
Sample : ALCS1UGD-090811 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 08 20:34:15 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	17613	0.91	ppb	100
48)	Toluene	12.97	92	22095	0.89	ppb	98
49)	Methyl Isobutyl Ketone	12.14	43	5610m	0.48	ppb	
50)	Dibromochloromethane	13.91	129	40610	0.95	ppb	98
51)	Methyl Butyl Ketone	13.57	43	1589m	0.23	ppb	
52)	1,2-dibromoethane	14.16	107	27530	0.95	ppb	100
53)	Tetrachloroethylene	14.00	164	22919	0.87	ppb	98
54)	Chlorobenzene	14.94	112	34055	0.86	ppb	97
55)	Ethylbenzene	15.21	91	43259	0.85	ppb	99
56)	m&p-xylene	15.40	91	72536	1.75	ppb	96
57)	Styrene	15.80	104	19949	0.80	ppb	96
58)	Bromoform	15.88	173	35909	0.82	ppb	98
59)	o-xylene	15.83	91	42871	0.89	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	30867	0.90	ppb	98
62)	2-Chlorotoluene	16.88	91	26021	0.85	ppb	100
63)	4-ethyltoluene	17.02	105	29260m	0.74	ppb	
64)	1,3,5-trimethylbenzene	17.08	105	33451	0.77	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	25026m	0.71	ppb	
66)	1,3-dichlorobenzene	17.74	146	27457	0.86	ppb	96
67)	benzyl chloride	17.80	91	6347	0.40	ppb	94
68)	1,4-dichlorobenzene	17.86	146	24093	0.79	ppb	95
69)	1,2-dichlorobenzene	18.14	146	25476	0.80	ppb	95
70)	1,2,4-trichlorobenzene	19.77	180	7502	0.49	ppb	91
71)	Naphthalene	19.92	128	6278	0.31	ppb	93
72)	Hexachloro-1,3-butadiene	20.02	225	15717	0.59	ppb	98

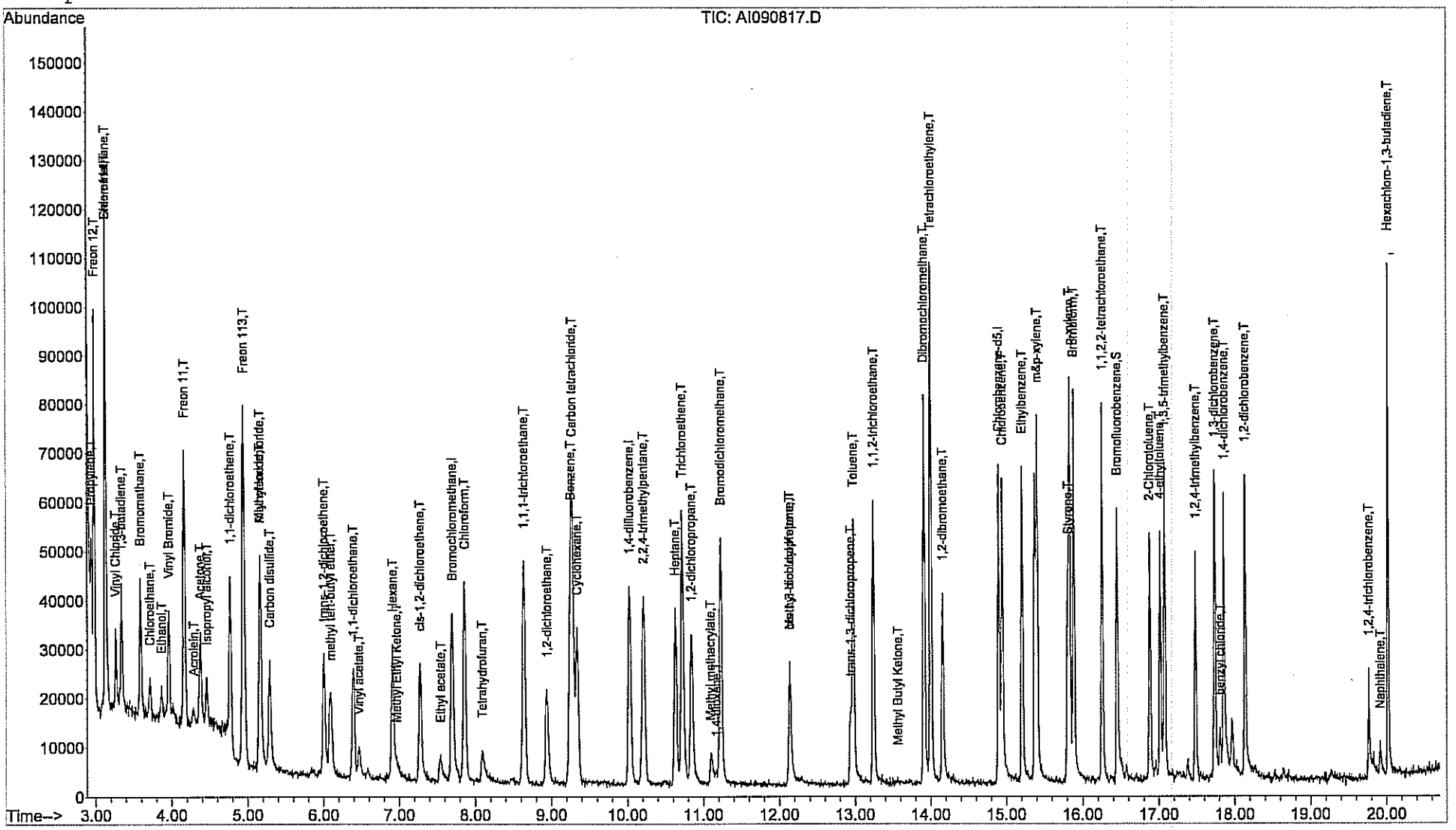
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI090817.D
Acq On : 8 Sep 2011 8:13 pm
Sample : ALCS1UGD-090811
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 9 9:09 2011

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8648
Standard Stock #(s) 8648
LCS Stock #(s) 8647
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
-	BFBUG	AI08260 1	-		A826-106		8/26/11	0713		
	AIUG-1.0	02	-							
	2.0	03	-							
	1.5	04	-							
	1.0	06	-	200						
	0.50	07	-							
	0.30	09	-							
	0.15	10	-							
	0.04 10	12	-							
	0.04	13	-					0146		
	BLK	14	-							

Analyzed by: _____

Page No: 105

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8668
Standard Stock #(s) 8669
LCS Stock #(s) 8670
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB106	A090701	-	-	A525-106		7/7/11	1010		
	A106-1.0	02	-	200						
	ALCS106-090711	03	-							
	AMB106 1	04	-							
	C1108077-017	05	-							
	001	07	-							
	002	08	-							
	003	09	-							
	004	10	-							
	005	11	-							
	006	12	-							
	007	13	-							
	008	14	-							
	009	15	-							
	010	16	-							
	011	17	-							
	012	18	-							
	013	19	-							
	014	20	-							
	015	21	-							
	016	22	-							
	ALCS106D-090711	23	-	↓			↓			
	C1108077-001 DL	24	10	20			7/8/11	0002		
	002	26	↓	↓						
	003	27	↓	↓						
	004	28	5	40						
	005	29	10	20						
	006	30	↓	↓	↓		↓	0315		

Analyzed by: [signature]

Page No: 15

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8668
Standard Stock #(s) 8669
LCS Stock #(s)
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	~~C1108077-007A~~	~~AI090732~~	~~10~~							
	008	33	1							
	009	34	40							
	010	35	10							
	011	MB 36	↓							
	012	37	↓							
	013	38	180							
	014	39								
	↓	40								
	BLK	41								
	C1108077-007A	AI090732	10	20	AI281UC		9/8/11	0424		
	008	33	1	1						
	↓	34	40	5						
	009	35	10	20						
	010	36	↓							
	011	37								
	012	38								
	013	39	↓	↓						
	↓	40	180	10(5)*						
	014	41	10	20						
	↓	42	180	10(5)*	↓		↓	0555		
	BLK	43	-							

Analyzed by: [signature]

*DL IN CAN

Page No: 116

Centek Laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8668
Standard Stock #(s) 8669
LCS Stock #(s) 8670
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIV6	A105081	-	-	A828.M		9/8/11	1027		
	AIV6-1.0	04	-	200						
	ALCSIV6-050811	05	-	↓						
	AMBIV6- ↓	06	-	↓						
	C1108077-015 05	07	10	20						
	016	08	↓	4						
	015	09	90	20(S)						
	016	10	↓	↓						
	001	11								
	006	12	↓	↓						
	C1109004-002	13	810	20(S)						
	001 ↓	14	90	4 (S)						
	ALCSIV6-050811	17	-	200						
	C1109007-003 DL	19	5	40						
	004	20	10	20						
	005	22	↓	↓						
	↓	24	90	20(S)			↓			
	006	25	10	20			9/9/11	0026		
	↓	26	40	5						
	007	27	10	20						
	↓	28	40	5						
	008	29	10	20						
	C1109012-001	31	40	5						
	C1109004-003	32	243	200(243)				0504		
	004 ↓	33	↓	↓ ↓			↓			
	BLK	34	↓							

Analyzed by: KAL

#DL IN CAN

Page No: 117

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by	
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.		
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.		
7611	1/26/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.		
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓		
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.		
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.		
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.		
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.		RECERT. ON 3/11 EXP 3/12
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓		
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	% VARIES	1L	MATHESON TRI-GAS		mb		
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.		
7621	↓	↓	↓ STD(A)	7617/7618 7324	↓	↓	↓	↓	↓		
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓		
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.		
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓		
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓		
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓		

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743A+B	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8333	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD B	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46						
8349			LCS	~~8346~~ 7617/15	↓	↓	↓	↓		
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SIL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.5 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8648	8/26/11	8/29/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8649	8/29/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8650	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8651			LCS	7617/7618						
8652			4PCH	7384						
8653			SULF/STD X	8615/6194						
8654			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8655			FORM 50	8643	10ppm	0.23psig	45psia	50ppb		
8656			TO15 UG IS (A)	8649	50ppb	0.9psig	45psia	1ppb		
8657			STD (A)	8650						
8658	↓	↓	LCS	8651	↓	↓	↓	↓	↓	
8659	8/30/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
5660	9/1/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
* 8661	9/5/11	9/12/11	IS MIX	CUSTOM GAS		LOT # 080311-002			MD	
8662	9/5/11	9/12/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb		
8663	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8663			LCS	7617/7618						
8664			4-PCH	7384						
8665			SUL/STD	8615/6194	↓	↓	↓	↓		
8666			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8667	↓	↓	FORM 50	8666	10ppm	0.23psig	45psia	50ppb	↓	

Page # 18

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8664	9/5/11	5/12/11	TO15 IVA IS	8662	50ppb	0.9psia	45psia	1ppb	m	
8665	↓	↓	STD	8663	↓	↓	↓	↓	↓	
8676	↓	↓	LCS	8664	↓	↓	↓	↓	↓	

Page # 19

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
233	189	30	8-10-11	WAC 081011 A	ug/m3 +0.25	+ 30	+ 30
170						+	+
241						+	+
282						+	+
189						+	+
168	326			WAC081011 B		+	+
87						+	+
360						+	+
133						+	+
326						+	+
320	190			WAC081011 C		+	+
203						+	+
163						+	+
220						+	+
190						+	+
336	138			WAC081011 D		+	+
188						+	+
222						+	+
161						+	+
138						+	+
94	418			WAC081011 E		+	+
553						+	+
128						+	+
475						+	+
418						+	+

Cleaned by: _____

Page # _____

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
827 CL	851	20	08/16/11	WAC081611A	1ug/m³+0.25	+ 30	+ 30
850					TCE, CT, VNCL	+	+
737						+	+
836						+	+
851						+	+
157	236	30		WAC081611 G		+	+
96						+	+
283						+	+
287						+	+
236						+	+
327	248			WAC081611 H		+	+
415						+	+
429						+	+
171						+	+
249						+	+
476	193			WAC081611 K		+	+
203						+	+
567						+	+
232						+	+
193						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: _____

Page # _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081013.D Vial: 8
Acq On : 10 Aug 2011 5:05 pm Operator: RJP
Sample : WAC081011H Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 17:26:30 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14191	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	53401	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	43040	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	19103	0.92	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue

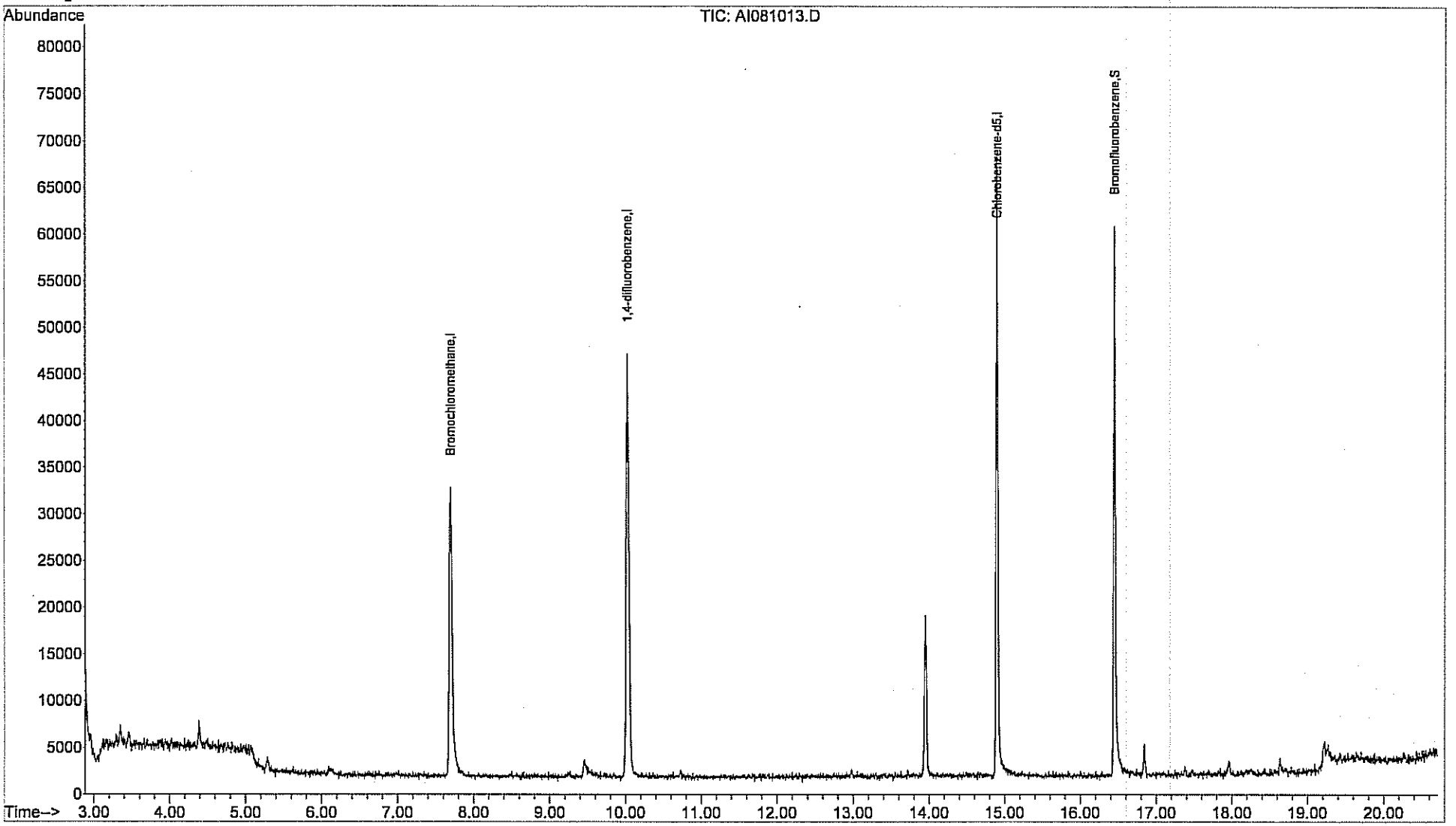
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081013.D A826_1UG.M Thu Sep 29 09:59:27 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI081013.D
Acq On : 10 Aug 2011 5:05 pm
Sample : WAC081011H
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:21 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081014.D Vial: 9
Acq On : 10 Aug 2011 5:38 pm Operator: RJP
Sample : WAC081011I Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 17:59:19 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

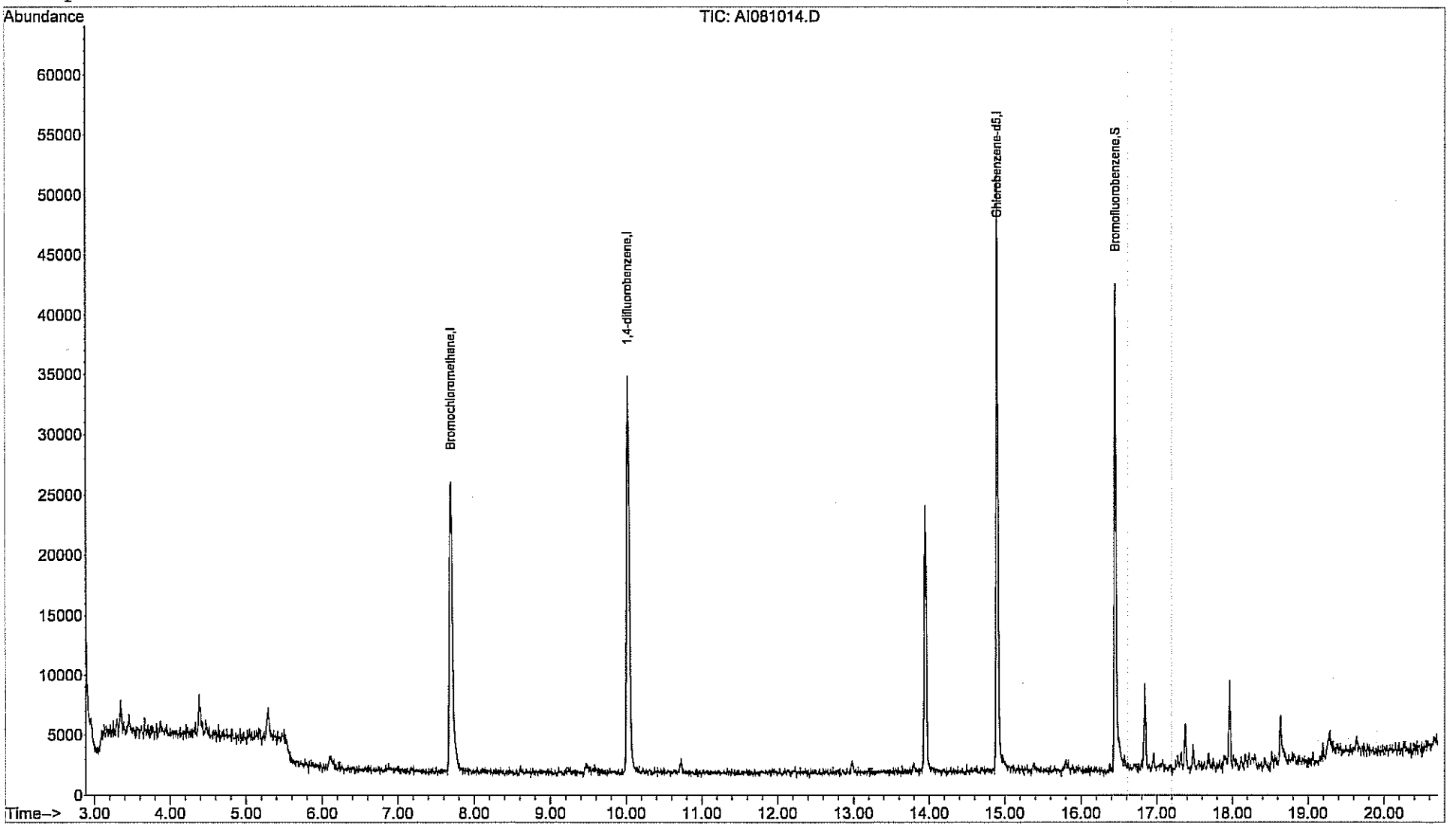
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	11026	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	39711	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	31370	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13430	0.89	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081014.D A826_1UG.M Thu Sep 29 09:59:31 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081014.D Vial: 9
Acq On : 10 Aug 2011 5:38 pm Operator: RJP
Sample : WAC081011I Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:21 2011 Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081015.D Vial: 10
Acq On : 10 Aug 2011 6:12 pm Operator: RJP
Sample : WAC081011J Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 18:32:57 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

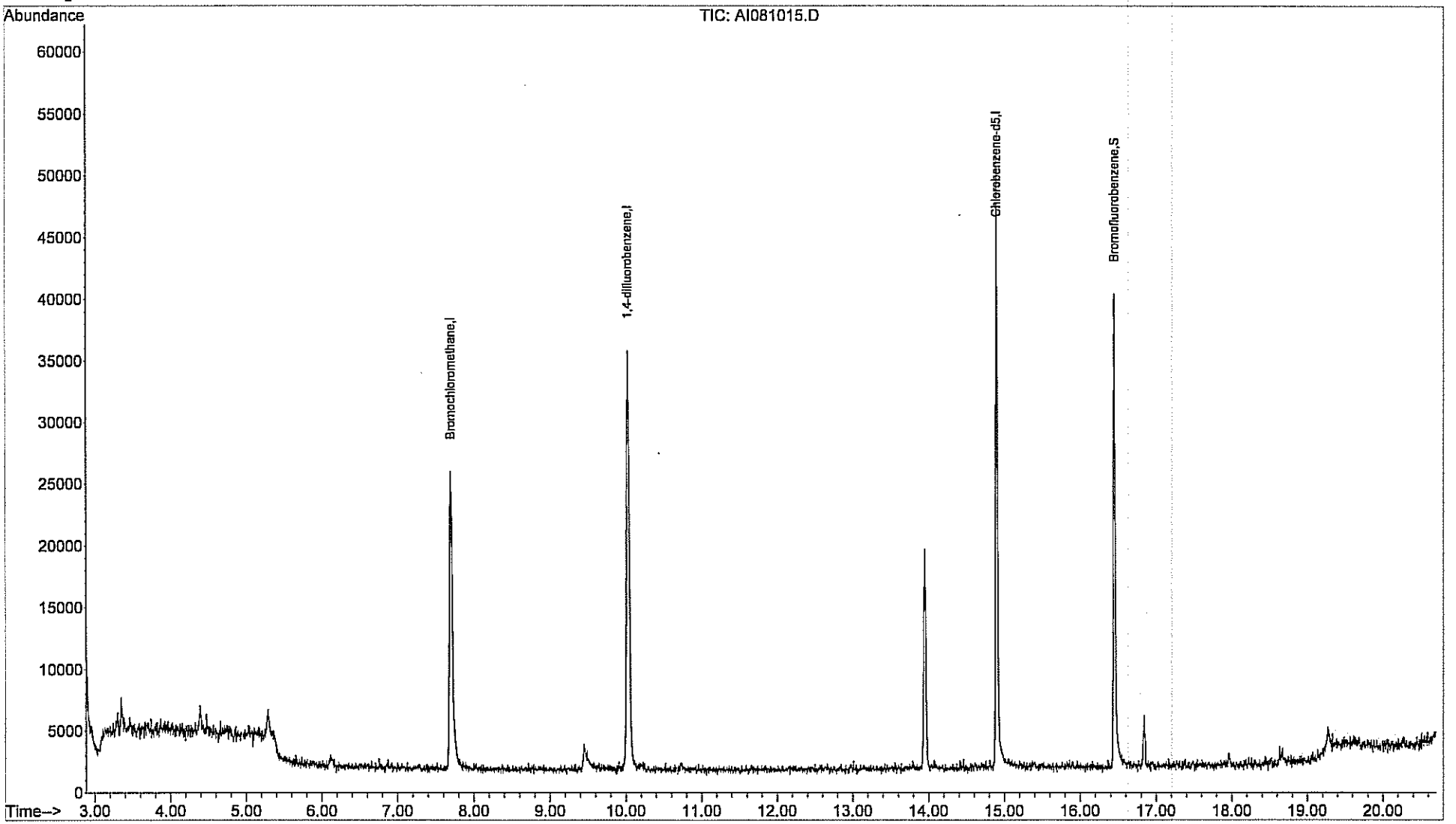
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	10845	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	40401	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	32140	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13016	0.84	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081015.D A826_1UG.M Thu Sep 29 09:59:33 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI081015.D
Acq On : 10 Aug 2011 6:12 pm
Sample : WAC081011J
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081016.D Vial: 11
Acq On : 10 Aug 2011 6:45 pm Operator: RJP
Sample : WAC081011K Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 19:06:16 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

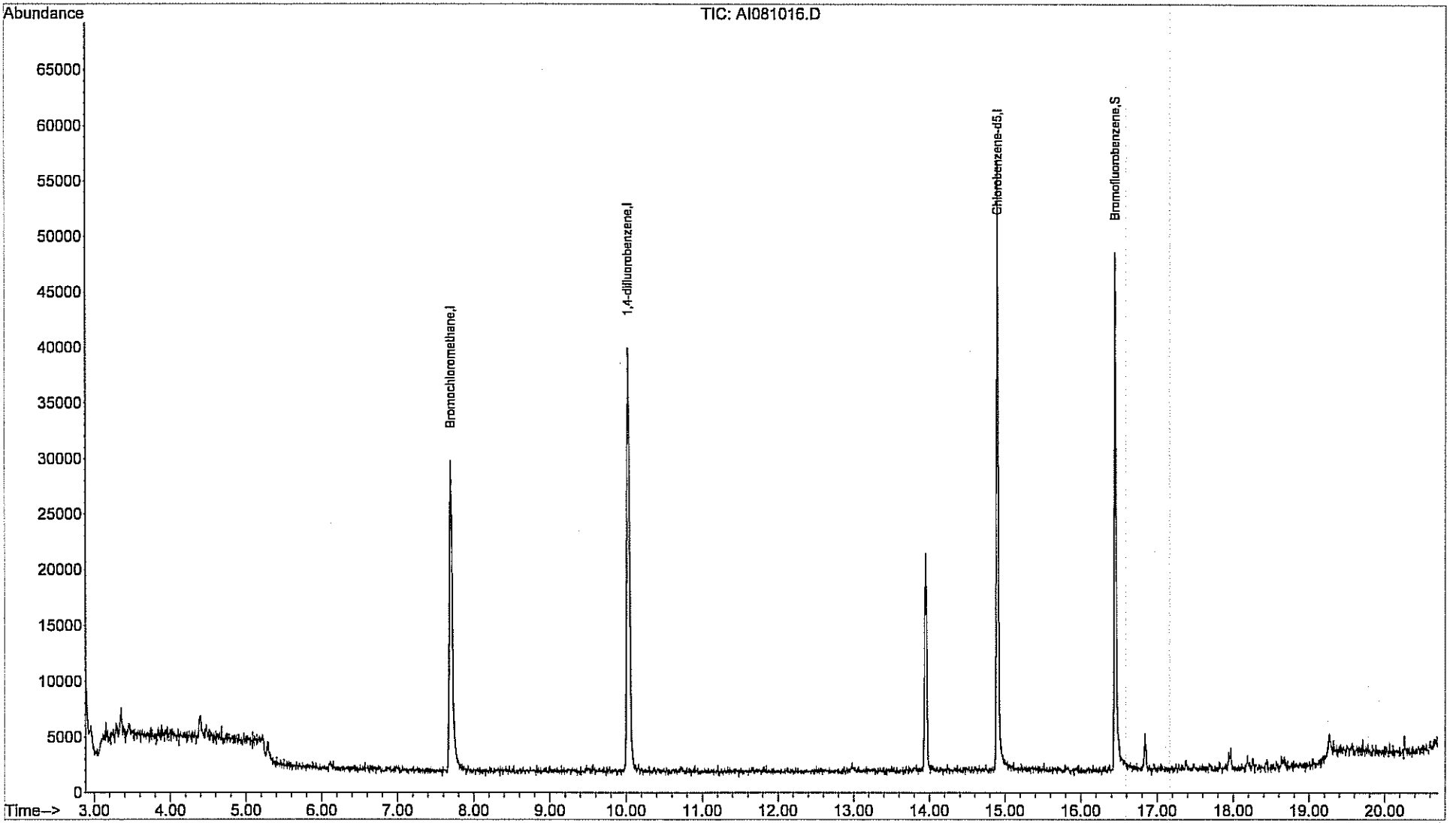
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12456	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	45036	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	35946	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	15433	0.89	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081016.D A826_1UG.M Thu Sep 29 09:59:35 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI081016.D
Acq On : 10 Aug 2011 6:45 pm
Sample : WAC081011K
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081017.D Vial: 12
Acq On : 10 Aug 2011 7:18 pm Operator: RJP
Sample : WAC081011L Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 19:39:30 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

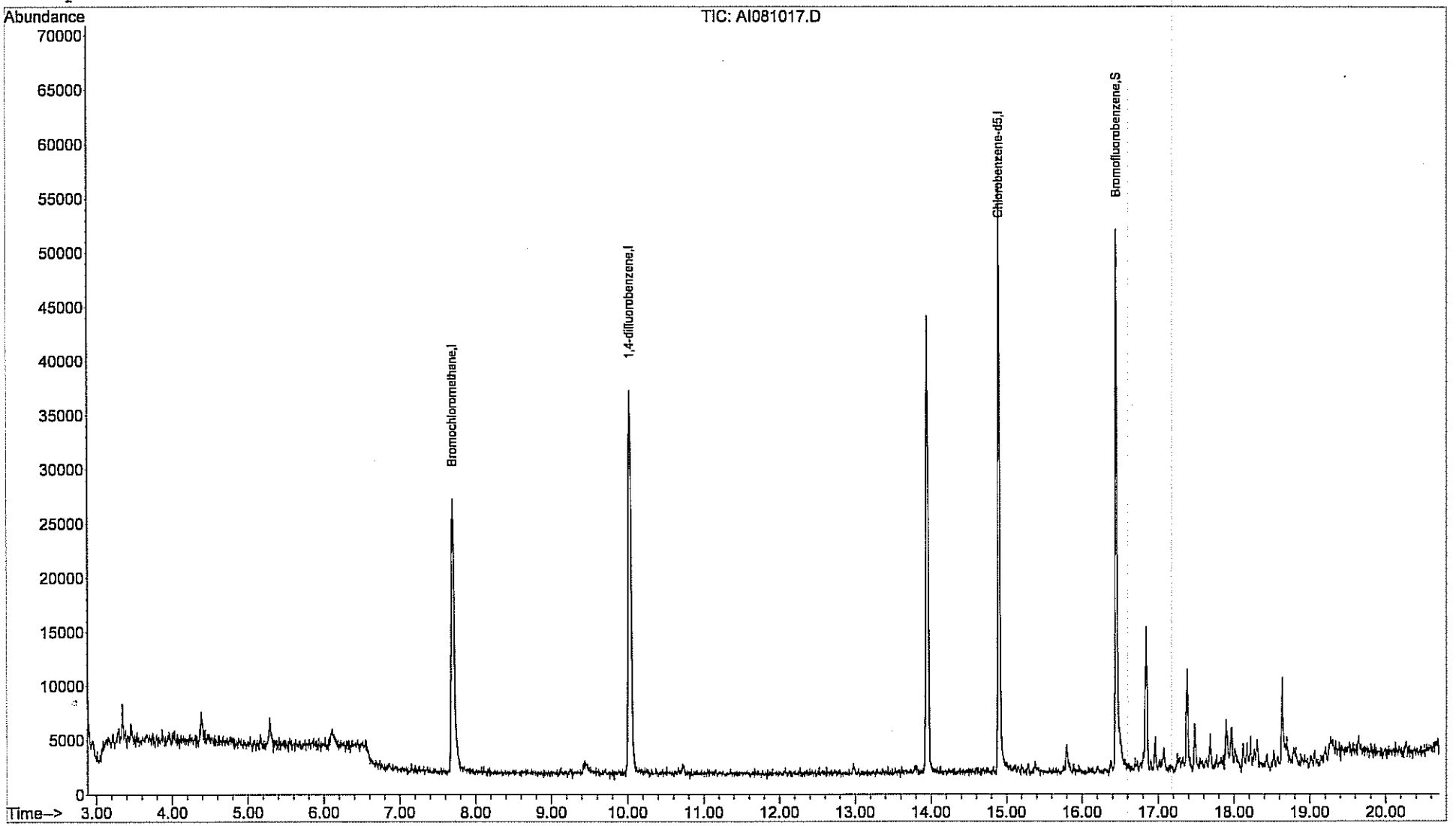
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11678	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	43486	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	34903	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16031	0.95	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081017.D A826_1UG.M Thu Sep 29 09:59:37 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081017.D Vial: 12
Acq On : 10 Aug 2011 7:18 pm Operator: RJP
Sample : WAC081011L Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011 Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081624.D Vial: 49
Acq On : 17 Aug 2011 3:57 pm Operator: RJP
Sample : WAC081611G Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:18:10 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13749	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	49838	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	37374	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14952	0.83	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

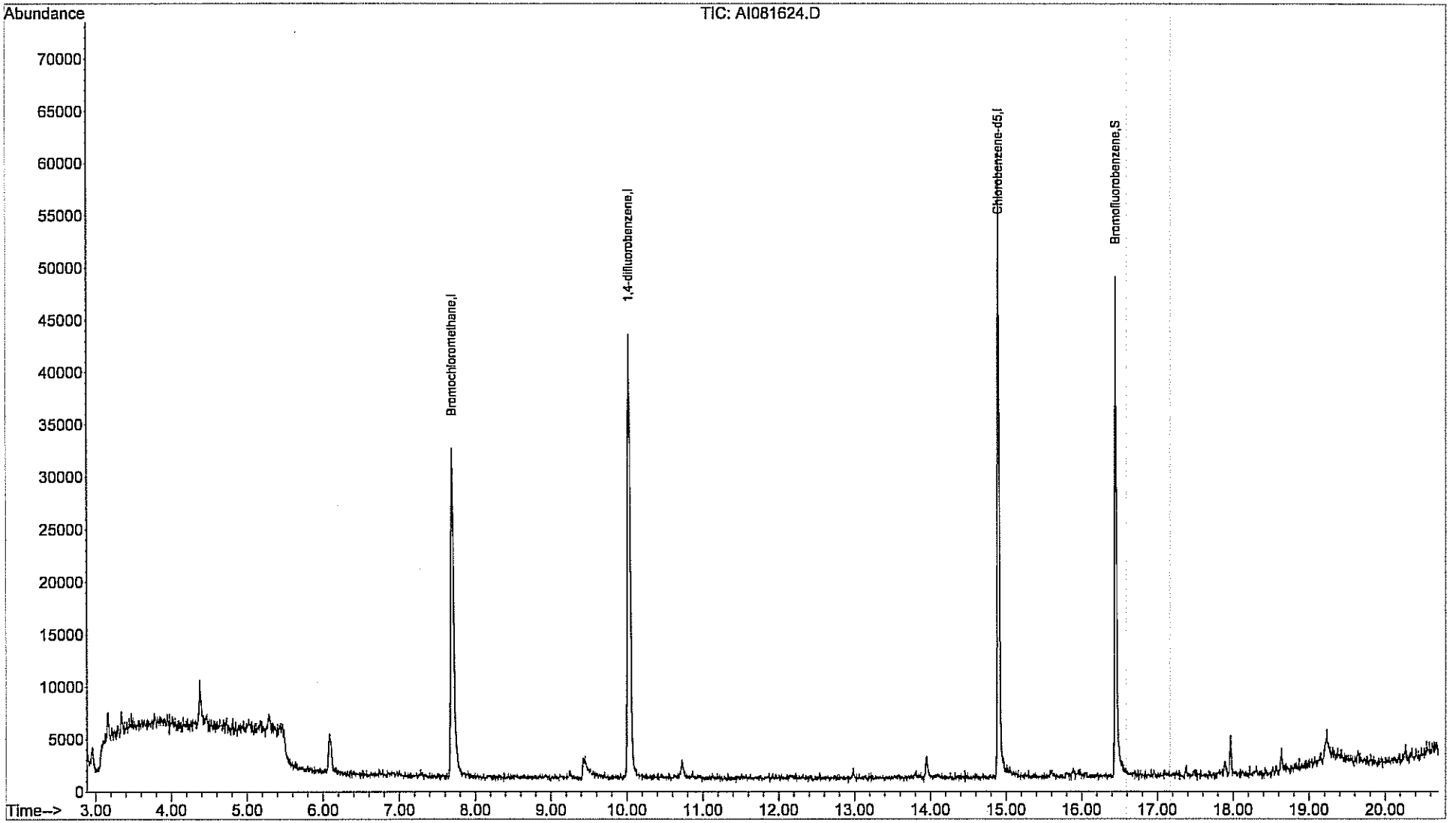
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081624.D A826_1UG.M Thu Sep 29 09:59:40 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI081624.D
Acq On : 17 Aug 2011 3:57 pm
Sample : WAC081611G
Misc : 1ugm3 & 0.25TCE QC Can
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011

Vial: 49
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081625.D Vial: 48
Acq On : 17 Aug 2011 4:29 pm Operator: RJP
Sample : WAC081611H Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:50:42 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

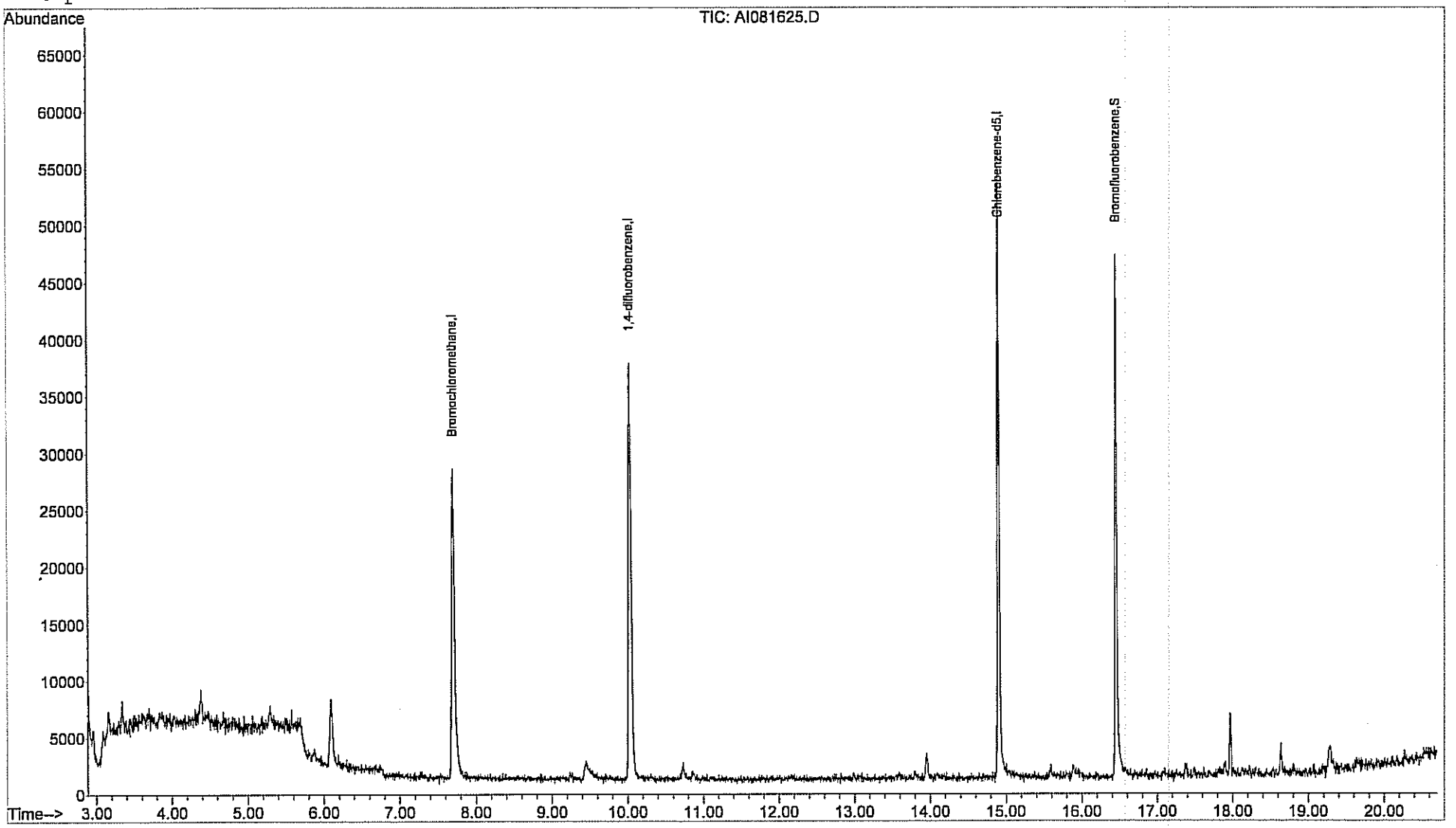
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12054	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	43357	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33937	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14893	0.91	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081625.D A826_1UG.M Thu Sep 29 09:59:42 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI081625.D
Acq On : 17 Aug 2011 4:29 pm
Sample : WAC081611H
Misc : 1ugm3 & 0.25TCE QC Can
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011

Vial: 48
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081628.D Vial: 48
Acq On : 17 Aug 2011 6:18 pm Operator: RJP
Sample : WAC081611K Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 18:38:51 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

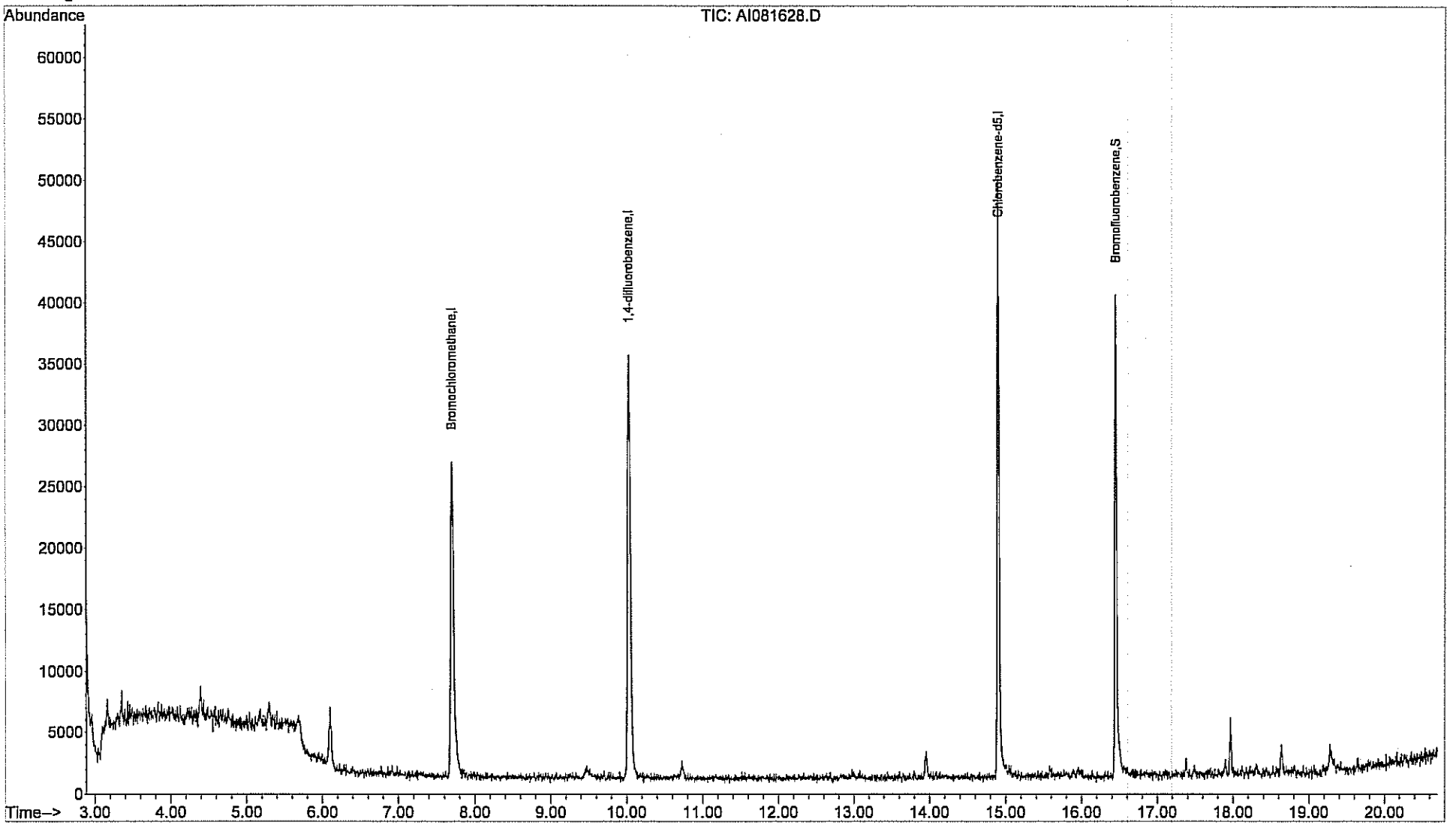
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11694	1.00	ppb	0.02
32) 1,4-difluorobenzene	10.04	114	41635	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	32355	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13131	0.84	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081628.D A826_1UG.M Thu Sep 29 09:59:44 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081628.D Vial: 48
Acq On : 17 Aug 2011 6:18 pm Operator: RJP
Sample : WAC081611K Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011 Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 28 16:02:59 2011
Response via : Initial Calibration



Centek Laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Project: 1000-08-17 SDG: C110901

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed		✓	
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓	✓	
	Sample(s) reanalyzed		✓	

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			

Comments:
SEE CASE NARRATIVE
* NO MS/MSD *

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples			

Comments:

TO-15 Package Review Checklist

Client: FPM Project: 1000-08-17 SDG: C1109015

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 10/11/11

QC Supervisor: [signature] Date: 10/11/11

CENTEK LABORATORIES, LLC
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM
584 Phoenix Drive
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

RE: 1000-08-17

Wednesday, September 14, 2011
Order No.: C1109015

Dear Katrina Mattice:

Centek Laboratories, LLC received 6 sample(s) on 9/8/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell J. Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and

all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any damages of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4 weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quaut Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

CLIENT: FPM

Project: 1000-08-17

Lab Order: C1109015

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2314] LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 10-Sep-11 **Corrective Action Report ID:** 2314

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-091011 did not meet criteria for carbon tetrachloride and oxylene. The LCSD did not reproduce. The recoveries were high. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 11-Sep-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: A new LCS stock standard will be analyzed. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 12-Sep-11

QA Officer Approval: Nick Scala QA Date: 11-Sep-11

Last Updated BY LEO Updated: 11-Oct-2011 12:22 PM Reported 11-Oct-2011 12:22 P

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: 1000-08-17 Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
776VMP0101AB	776VMP-1	9/6	0920	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 9ppb, Can = 283, Reg = 436
776VMP0201AB	776VMP-2	9/6	0905	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 360ppb, Can = 95, Reg = 304
776VMP0301AB	776VMP-3	9/6	0925	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 350, Reg = 455
776IA1DA	776IA-1	9/6	0930	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 120ppb, Can = 317, Reg = 448
776OA1EA	776OA-1	9/6	0940	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 327, Reg = 382
774IA1AE	774IA-1	9/6	0950	GS	AC	0/0	N	-	Unf.	1	1	1	PID = 0ppb, Can = 232, Reg = 66

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1109015

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) Katrina Mattice	Date: 9/7/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1700	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 8/31/11	#2 Received by: (Sig) Jan Leslie	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1155	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek Laboratories, LLC

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: FPM-ROME | Date and Time Received: 9/8/2011

Work Order Number C1109015 | Received by: JDS

Checklist completed by: [signature] 9/8/11 (Signature / Date) | Reviewed by: M 9/9/11 (Initials / Date)

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1109015

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1109015-001A	776VMP0101AB	283,4326	9/6/2011	9/8/2011
C1109015-002A	776VMP0201AB	95,304	9/6/2011	9/8/2011
C1109015-003A	776VMP0301AB	350,455	9/6/2011	9/8/2011
C1109015-004A	776IA1DA	317,448	9/6/2011	9/8/2011
C1109015-005A	776OA1EA	327,382	9/6/2011	9/8/2011
C1109015-006A	774IA1AE	232,66	9/6/2011	9/8/2011

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1109015-001A	Login	9/8/2011 2:59:17 PM	jans	Sample Log In
C1109015-002A	Login	9/8/2011 3:02:30 PM	jans	Sample Log In
C1109015-003A	Login	9/8/2011 3:02:30 PM	jans	Sample Log In
C1109015-004A	Login	9/8/2011 3:02:30 PM	jans	Sample Log In
C1109015-005A	Login	9/8/2011 3:02:30 PM	jans	Sample Log In
C1109015-006A	Login	9/8/2011 3:02:30 PM	jans	Sample Log In
C1109015-003A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-006A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-004A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-002A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-001A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-005A	Transfer	9/10/2011 11:40:42 AM	ADM	GC/MS Lab
C1109015-006A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed
C1109015-001A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed
C1109015-002A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed
C1109015-003A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed
C1109015-004A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed
C1109015-005A	Mark as Consumed	9/14/2011 1:55:11 PM	ADM	Consumed

CANISTER ORDER

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

2527
11-Oct-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 153 Brook Road
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 252
Project:

Submitted By:

Ship Date: 8/18/2011
VIA: FedEx
Due Date: 8/19/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	23

Can / Reg ID	Description
391	Time-Set Reg - 770
66	Time-Set Reg - 526
95	1L Mini-Can - 1087
232	1L Mini-Can - 1163
283	1L Mini-Can - 1052
304	Time-Set Reg - 727
317	1L Mini-Can - 1280
327	1L Mini-Can - 1290
350	1L Mini-Can - 1272
382	Time-Set Reg - 756
436	Time-Set Reg - 815
448	Time-Set Reg - 827
455	Time-Set Reg - 834
766	Shipping Cooler M
86	1L Mini-Can - 1091
98	1L Mini-Can - 1099
119	Time-Set Reg - 623
120	Time-Set Reg - 624
124	Time-Set Reg - 628
141	1L Mini-Can - 1115
567	1L Mini-Can - 138
441	Time-Set Reg - 820
479	1L Mini-Can - 1381
542	1L Mini-Can - 110
546	1L Mini-Can - 114
552	1L Mini-Can - 120
561	1L Mini-Can - 130
352	1L Mini-Can - 1301
366	1L Mini-Can - 1315
395	Time-Set Reg - 774
399	Time-Set Reg - 778
415	1L Mini-Can
440	Time-Set Reg - 819

SHIPPED TO:

Company:	FPM Group	Submitted By:	
Contact:	Katrina Mattice		
Address:	153 Brook Road		
	Rome, NY 13441		
Phone:	(315) 336-7721	Ship Date:	8/18/2011
		VIA:	FedEx
Quote ID:	252	Due Date:	8/19/2011
Project:			

Bottle Code	Bottle Type	TEST(s)	QTY
248	1L Mini-Can - 1180		
278	Time-Set Reg - 634		
287	1L Mini-Can - 255		
299	Time-Set Reg - 722		
346	Time-Set Reg - 743		
347	1L Mini-Can - 1269		
157	1L Mini-Can - 1127		
171	1L Mini-Can - 1142		
176	Time-Set Reg - 662		
187	Time-Set Reg - 625		
203	1L Mini-Can - 1158		
236	1L Mini-Can - 1167		

Comments: 12 1L @ 5 min 6 1L @ 12 hrs. Include 1 trip blank. 4 1L w/ quick grabs and guage.WAC 081011J-L & 081611G-H,K 1 reg 2cans

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	0.70	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.11	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroform	0.16	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Cyclohexane	0.47	0.15		ppbV	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 11	0.44	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 12:02:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
m&p-Xylene	0.44	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Methylene chloride	3.8	1.5		ppbV	10	9/10/2011 3:24:00 PM
o-Xylene	0.22	0.15		ppbV	1	9/10/2011 12:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Styrene	0.26	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	0.39	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	0.38	0.15		ppbV	1	9/10/2011 12:02:00 PM
Toluene	1.1	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Trichloroethene	6.9	1.5		ppbV	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.31	0.15		ppbV	1	9/10/2011 12:02:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.69	0.60		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	3.5	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.45	0.62	J	ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.90	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:02:00 PM
Benzene	0.55	0.49		ug/m3	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:02:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/10/2011 12:02:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Cyclohexane	1.6	0.52		ug/m3	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
Ethylbenzene	0.79	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Freon 11	2.5	0.86		ug/m3	1	9/10/2011 12:02:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 12:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	9/10/2011 3:24:00 PM
m&p-Xylene	1.9	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:02:00 PM
Methylene chloride	13	5.3		ug/m3	10	9/10/2011 3:24:00 PM
o-Xylene	0.97	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:02:00 PM
Styrene	1.1	0.65		ug/m3	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	2.7	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	1.1	0.45		ug/m3	1	9/10/2011 12:02:00 PM
Toluene	4.1	0.57		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Trichloroethene	38	8.2		ug/m3	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.81	0.39		ug/m3	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.12	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	0.24	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Benzene	0.14	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Cyclohexane	2.1	1.5		ppbV	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Ethyl acetate	0.51	0.25		ppbV	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 11	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 113	0.13	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 12	0.59	0.15		ppbV	1	9/10/2011 12:36:00 PM
Heptane	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	27	1.5		ppbV	10	9/10/2011 3:57:00 PM
m&p-Xylene	0.54	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Methylene chloride	0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
o-Xylene	0.21	0.15		ppbV	1	9/10/2011 12:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Styrene	0.23	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	1.4	0.15		ppbV	1	9/10/2011 12:36:00 PM
Toluene	1.2	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Trichloroethene	0.70	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	3.3	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.49	0.62	J	ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	1.2	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:36:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:36:00 PM
Benzene	0.45	0.49	J	ug/m3	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:36:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 12:36:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Cyclohexane	7.3	5.2		ug/m3	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Ethyl acetate	1.9	0.92		ug/m3	1	9/10/2011 12:36:00 PM
Ethylbenzene	0.88	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/10/2011 12:36:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	9/10/2011 12:36:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	68	3.7		ug/m3	10	9/10/2011 3:57:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:36:00 PM
Methylene chloride	0.53	0.53		ug/m3	1	9/10/2011 12:36:00 PM
o-Xylene	0.93	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:36:00 PM
Styrene	1.0	0.65		ug/m3	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	4.3	0.45		ug/m3	1	9/10/2011 12:36:00 PM
Toluene	4.5	0.57		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Trichloroethene	3.8	0.82		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	0.42	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.14	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.13	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Acetone	12	3.0		ppbV	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.13	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloromethane	0.46	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Cyclohexane	0.99	0.15		ppbV	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 11	0.29	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 113	0.12	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 1:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	5.0	1.5		ppbV	10	9/10/2011 4:30:00 PM
m&p-Xylene	0.39	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	0.68	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Methylene chloride	0.27	0.15		ppbV	1	9/10/2011 1:10:00 PM
o-Xylene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Styrene	0.16	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	0.59	0.15		ppbV	1	9/10/2011 1:10:00 PM
Toluene	0.82	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Trichloroethene	1.8	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT: FPM
Lab Order: C1109015
Project: 1000-08-17
Lab ID: C1109015-003A

Client Sample ID: 776VMP0301AB
Tag Number: 350,455
Collection Date: 9/6/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	2.1	0.75		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.70	0.75	J	ug/m3	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	9/10/2011 1:10:00 PM
Acetone	30	7.2		ug/m3	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:10:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.83	0.96	J	ug/m3	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:10:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:10:00 PM
Chloromethane	0.97	0.31		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:10:00 PM
Freon 113	0.93	1.2	J	ug/m3	1	9/10/2011 1:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 1:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	12	3.7		ug/m3	10	9/10/2011 4:30:00 PM
m&p-Xylene	1.7	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:10:00 PM
Methylene chloride	0.95	0.53		ug/m3	1	9/10/2011 1:10:00 PM
o-Xylene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:10:00 PM
Styrene	0.69	0.65		ug/m3	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	1.8	0.45		ug/m3	1	9/10/2011 1:10:00 PM
Toluene	3.1	0.57		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Trichloroethene	10	0.82		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.13	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Acetone	19	3.0		ppbV	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Benzene	0.11	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloromethane	0.71	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Ethyl acetate	0.91	0.25		ppbV	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.21	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 113	0.12	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 12	0.62	0.15		ppbV	1	9/10/2011 1:44:00 PM
Heptane	0.32	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	9/10/2011 5:03:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Methylene chloride	0.37	0.15		ppbV	1	9/10/2011 1:44:00 PM
o-Xylene	0.17	0.15		ppbV	1	9/10/2011 1:44:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Styrene	0.24	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Toluene	0.83	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Trichloroethene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.53	0.62	J	ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Acetone	47	7.2		ug/m3	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:44:00 PM
Benzene	0.36	0.49	J	ug/m3	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:44:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:44:00 PM
Chloromethane	1.5	0.31		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Ethyl acetate	3.3	0.92		ug/m3	1	9/10/2011 1:44:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:44:00 PM
Freon 113	0.93	1.2	J	ug/m3	1	9/10/2011 1:44:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.1	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	9/10/2011 5:03:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:44:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	9/10/2011 1:44:00 PM
o-Xylene	0.75	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:44:00 PM
Styrene	1.0	0.65		ug/m3	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 1:44:00 PM
Toluene	3.2	0.57		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Trichloroethene	1.9	0.82		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.16	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Acetone	22	3.0		ppbV	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.11	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloromethane	0.53	0.15		ppbV	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.12	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 12	0.58	0.15		ppbV	1	9/10/2011 2:18:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	2.9	3.0	J	ppbV	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Methylene chloride	0.26	0.15		ppbV	1	9/10/2011 2:18:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	0.45	0.15		ppbV	1	9/10/2011 2:18:00 PM
Toluene	1.5	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Trichloroethene	0.47	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.80	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Acetone	53	7.2		ug/m3	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:18:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.35	0.47	J	ug/m3	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.90	0.96	J	ug/m3	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:18:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:18:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.48	0.60	J	ug/m3	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/10/2011 2:18:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 2:18:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 2:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/10/2011 2:18:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	8.7	9.0	J	ug/m3	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:18:00 PM
Methylene chloride	0.92	0.53		ug/m3	1	9/10/2011 2:18:00 PM
o-Xylene	0.44	0.66	J	ug/m3	1	9/10/2011 2:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	1.3	0.45		ug/m3	1	9/10/2011 2:18:00 PM
Toluene	5.8	0.57		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Trichloroethene	2.6	0.82		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Acetone	14	3.0		ppbV	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Freon 11	14	1.5		ppbV	10	9/10/2011 6:08:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Freon 12	0.56	0.15		ppbV	1	9/10/2011 2:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	9/10/2011 6:08:00 PM
m&p-Xylene	0.28	0.30	J	ppbV	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/10/2011 2:52:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Styrene	0.13	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Toluene	0.65	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Trichloroethene	0.43	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Acetone	34	7.2		ug/m3	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.90	0.96	J	ug/m3	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:52:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
Ethylbenzene	0.57	0.66	J	ug/m3	1	9/10/2011 2:52:00 PM
Freon 11	77	8.6		ug/m3	10	9/10/2011 6:08:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 2:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	32	3.7		ug/m3	10	9/10/2011 6:08:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:52:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/10/2011 2:52:00 PM
o-Xylene	0.49	0.66	J	ug/m3	1	9/10/2011 2:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:52:00 PM
Styrene	0.56	0.65	J	ug/m3	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 2:52:00 PM
Toluene	2.5	0.57		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Trichloroethene	2.3	0.82		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

CENTEK LABORATORIES, LLC

Date: 11-Oct-11

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-091011	99.0							
ALCS1UGD-091011	102							
AMB1UG-091011	77.0							
C1109015-001A	105							
C1109015-002A	104							
C1109015-003A	100							
C1109015-004A	101							
C1109015-005A	94.0							
C1109015-006A	105							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\HPCHEM\1\DATA\AI091002.D
Tune Time : 10 Sep 2011 9:29 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI091002.D

			(BFB)	(IS1) 14402	(IS2) 43508	(IS3) 38085
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI091003.D	ALCS1UG-091011		99	13960	41457	38230
AI091004.D	AMB1UG-091011		77	13723	35962	30979
AI091006.D	C1109015-001A		105	13904	42634	40523
AI091007.D	C1109015-002A		104	13849	43808	40724
AI091008.D	C1109015-003A		100	14427	43809	39400
AI091009.D	C1109015-004A		101	14251	44625	38898
AI091010.D	C1109015-005A		94	14384	42532	37318
AI091011.D	C1109015-006A		105	14681	42679	38819
AI091012.D	C1109015-001A	10X	94	14598	41745	35640
AI091013.D	C1109015-002A	10X	86	14116	40884	33911
AI091014.D	C1109015-003A	10X	95	13594	40288	33018
AI091015.D	C1109015-004A	10X	95	13994	39259	33488
AI091016.D	C1109015-005A	10X	97	13780	40030	33291
AI091017.D	C1109015-006A	10X	89	13885	39317	34860
AI091018.D	ALCS1UGD-091011	102		13818	39976	33649

t - fails 24hr time check * - fails criteria

Created: Tue Oct 11 10:45:14 2011 MSD #1/

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-091011	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4950
Client ID:	ZZZZZ	Batch ID:	R4950	TestNo:	TO-15			Analysis Date:	9/10/2011	SeqNo:	58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130				
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130				
1,1,2-Trichloroethane	1.230	0.15	1	0	123	70	130				
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,2,4-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.020	0.15	1	0	102	70	130				
1,2-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,2-Dichloropropane	1.240	0.15	1	0	124	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	1.000	0.15	1	0	100	70	130				
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130				
1,4-Dichlorobenzene	1.100	0.15	1	0	110	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	1.200	0.15	1	0	120	70	130				
4-ethyltoluene	1.140	0.15	1	0	114	70	130				
Acetone	1.050	0.30	1	0	105	70	130				
Allyl chloride	1.160	0.15	1	0	116	70	130				
Benzene	1.170	0.15	1	0	117	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.250	0.15	1	0	125	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-091011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.100	0.15	1	0	110	70	130				
Carbon tetrachloride	1.260	0.15	1	0	126	70	130				
Chlorobenzene	1.100	0.15	1	0	110	70	130				
Chloroethane	1.060	0.15	1	0	106	70	130				
Chloroform	1.010	0.15	1	0	101	70	130				
Chloromethane	1.080	0.15	1	0	108	70	130				
cis-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
cis-1,3-Dichloropropene	1.280	0.15	1	0	128	70	130				
Cyclohexane	1.200	0.15	1	0	120	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	1.000	0.25	1	0	100	70	130				
Ethylbenzene	1.100	0.15	1	0	110	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.160	0.15	1	0	116	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.000	0.15	1	0	100	70	130				
Heptane	1.250	0.15	1	0	125	70	130				
Hexachloro-1,3-butadiene	0.9900	0.15	1	0	99.0	70	130				
Hexane	0.9400	0.15	1	0	94.0	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	2.320	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Ethyl Ketone	0.9800	0.30	1	0	98.0	70	130				
Methyl Isobutyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	70	130				
Methylene chloride	1.110	0.15	1	0	111	70	130				
o-Xylene	1.150	0.15	1	0	115	70	130				
Propylene	0.8900	0.15	1	0	89.0	70	130				
Styrene	1.120	0.15	1	0	112	70	130				
Tetrachloroethylene	1.150	0.15	1	0	115	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLCt

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-091011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
trans-1,3-Dichloropropene	1.260	0.15	1	0	126	70	130				
Trichloroethene	1.210	0.15	1	0	121	70	130				
Vinyl acetate	1.010	0.15	1	0	101	70	130				
Vinyl Bromide	1.130	0.15	1	0	113	70	130				
Vinyl chloride	1.120	0.15	1	0	112	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-091011** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4950**
Client ID: **ZZZZZ** Batch ID: **R4950** TestNo: **TO-15** Analysis Date: **9/10/2011** SeqNo: **58683**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130	1.27	0	30	
1,1,2,2-Tetrachloroethane	1.190	0.15	1	0	119	70	130	1.18	0.844	30	
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130	1.23	1.64	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1-Dichloroethene	1.050	0.15	1	0	105	70	130	1.11	5.56	30	
1,2,4-Trichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,2,4-Trimethylbenzene	1.080	0.15	1	0	108	70	130	1.03	4.74	30	
1,2-Dibromoethane	1.290	0.15	1	0	129	70	130	1.16	10.6	30	
1,2-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.02	8.45	30	
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
1,2-Dichloropropane	1.290	0.15	1	0	129	70	130	1.24	3.95	30	
1,3,5-Trimethylbenzene	1.210	0.15	1	0	121	70	130	1.26	4.05	30	
1,3-butadiene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
1,3-Dichlorobenzene	1.200	0.15	1	0	120	70	130	1.11	7.79	30	
1,4-Dichlorobenzene	1.210	0.15	1	0	121	70	130	1.1	9.52	30	
1,4-Dioxane	0.8000	0.30	1	0	80.0	70	130	0.92	14.0	30	
2,2,4-trimethylpentane	1.180	0.15	1	0	118	70	130	1.2	1.68	30	
4-ethyltoluene	1.180	0.15	1	0	118	70	130	1.14	3.45	30	
Acetone	1.080	0.30	1	0	108	70	130	1.05	2.82	30	
Allyl chloride	1.130	0.15	1	0	113	70	130	1.16	2.62	30	
Benzene	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
Benzyl chloride	1.250	0.15	1	0	125	70	130	1.11	11.9	30	
Bromodichloromethane	1.240	0.15	1	0	124	70	130	1.25	0.803	30	
Bromoform	1.050	0.15	1	0	105	70	130	0.99	5.88	30	
Bromomethane	1.110	0.15	1	0	111	70	130	1.1	0.905	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-091011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.100	0.15	1	0	110	70	130	1.1	0	30	
Carbon tetrachloride	1.370	0.15	1	0	137	70	130	1.26	8.37	30	S
Chlorobenzene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Chloroethane	1.060	0.15	1	0	106	70	130	1.06	0	30	
Chloroform	1.010	0.15	1	0	101	70	130	1.01	0	30	
Chloromethane	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
cis-1,2-Dichloroethene	0.9400	0.15	1	0	94.0	70	130	0.99	5.18	30	
cis-1,3-Dichloropropene	1.170	0.15	1	0	117	70	130	1.28	8.98	30	
Cyclohexane	1.150	0.15	1	0	115	70	130	1.2	4.26	30	
Dibromochloromethane	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Ethyl acetate	0.8300	0.25	1	0	83.0	70	130	1	18.6	30	
Ethylbenzene	1.100	0.15	1	0	110	70	130	1.1	0	30	
Freon 11	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Freon 113	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Freon 114	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
Freon 12	1.010	0.15	1	0	101	70	130	1	0.995	30	
Heptane	1.240	0.15	1	0	124	70	130	1.25	0.803	30	
Hexachloro-1,3-butadiene	1.060	0.15	1	0	106	70	130	0.99	6.83	30	
Hexane	0.8800	0.15	1	0	88.0	70	130	0.94	6.59	30	
Isopropyl alcohol	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	
m&p-Xylene	2.460	0.30	2	0	123	70	130	2.32	5.86	30	
Methyl Butyl Ketone	1.160	0.30	1	0	116	70	130	1.17	0.858	30	
Methyl Ethyl Ketone	0.7600	0.30	1	0	76.0	70	130	0.98	25.3	30	
Methyl Isobutyl Ketone	0.8200	0.30	1	0	82.0	70	130	0.91	10.4	30	
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130	0.83	18.6	30	
Methylene chloride	1.120	0.15	1	0	112	70	130	1.11	0.897	30	
o-Xylene	1.380	0.15	1	0	138	70	130	1.15	18.2	30	S
Propylene	0.8900	0.15	1	0	89.0	70	130	0.89	0	30	
Styrene	1.120	0.15	1	0	112	70	130	1.12	0	30	
Tetrachloroethylene	1.290	0.15	1	0	129	70	130	1.15	11.5	30	
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130	1.03	18.0	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-091011 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
trans-1,3-Dichloropropene	1.270	0.15	1	0	127	70	130	1.26	0.791	30	
Trichloroethene	1.220	0.15	1	0	122	70	130	1.21	0.823	30	
Vinyl acetate	0.9000	0.15	1	0	90.0	70	130	1.01	11.5	30	
Vinyl Bromide	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
Vinyl chloride	1.090	0.15	1	0	109	70	130	1.12	2.71	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-091011	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4950
Client ID:	ZZZZZ	Batch ID:	R4950	TestNo:	TO-15			Analysis Date:	9/10/2011	SeqNo:	58681

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-091011 SampType: MBLK TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58681

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLCt

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-091011 SampType: MBLK TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58681

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038

Compound	Amount	IDL # 1	IDL # 2	IDL # 3	IDL # 4	IDL # 5	IDL # 6	IDL # 7	Avg	Stdev	%Rec	IDL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035
trans-1,3-dichloropropen	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	0.70	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.11	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroform	0.16	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Cyclohexane	0.47	0.15		ppbV	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 11	0.44	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 12:02:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
m&p-Xylene	0.44	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Methylene chloride	3.8	1.5		ppbV	10	9/10/2011 3:24:00 PM
o-Xylene	0.22	0.15		ppbV	1	9/10/2011 12:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Styrene	0.26	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	0.39	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	0.38	0.15		ppbV	1	9/10/2011 12:02:00 PM
Toluene	1.1	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Trichloroethene	6.9	1.5		ppbV	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.31	0.15		ppbV	1	9/10/2011 12:02:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.69	0.60		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	3.5	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.45	0.62	J	ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.90	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:02:00 PM
Benzene	0.55	0.49		ug/m3	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:02:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/10/2011 12:02:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Cyclohexane	1.6	0.52		ug/m3	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
Ethylbenzene	0.79	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Freon 11	2.5	0.86		ug/m3	1	9/10/2011 12:02:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 12:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	9/10/2011 3:24:00 PM
m&p-Xylene	1.9	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:02:00 PM
Methylene chloride	13	5.3		ug/m3	10	9/10/2011 3:24:00 PM
o-Xylene	0.97	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:02:00 PM
Styrene	1.1	0.65		ug/m3	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	2.7	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	1.1	0.45		ug/m3	1	9/10/2011 12:02:00 PM
Toluene	4.1	0.57		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Trichloroethene	38	8.2		ug/m3	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.81	0.39		ug/m3	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091006.D Vial: 6
Acq On : 10 Sep 2011 12:02 pm Operator: RJP
Sample : C1109015-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 12:23:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	13904	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.01	114	42634	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	40523	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	21408	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	34005	0.57	ppb		98
4) Chloromethane	3.12	50	8027	0.54	ppb		89
6) Vinyl Chloride	3.26	62	4169	0.31	ppb		94
13) Freon 11	4.16	101	20348	0.44	ppb		97
14) Acetone	4.30	58	73649	15.00	ppb		90
15) Isopropyl alcohol	4.43	45	56093	5.59	ppb	#	100
16) 1,1-dichloroethene	4.77	96	2495	0.17	ppb		97
17) Freon 113	4.92	101	3522	0.11	ppb		96
18) Methylene chloride	5.16	84	55999	4.46	ppb		91
20) Carbon disulfide	5.28	76	7218	0.18	ppb		100
25) Methyl Ethyl Ketone	6.91	72	4099	0.90	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	67520	3.32	ppb		95
29) Chloroform	7.85	83	6999	0.16	ppb		93
30) Tetrahydrofuran	8.07	42	3259	0.38	ppb		78
31) 1,2-dichloroethane	8.92	62	2903	0.11	ppb		89
34) Cyclohexane	9.32	56	6489	0.47	ppb	#	71
35) Carbon tetrachloride	9.27	117	4966	0.12	ppb		95
36) Benzene	9.23	78	6062	0.17	ppb		88
41) Trichloroethene	10.71	130	215294	9.66	ppb		98
48) Toluene	12.97	92	28089	1.06	ppb		93
53) Tetrachloroethylene	13.99	164	10909	0.39	ppb		98
55) Ethylbenzene	15.20	91	9788	0.18	ppb		96
56) m&p-xylene	15.37	91	19443	0.44	ppb		96
57) Styrene	15.80	104	6914	0.26	ppb		98
59) o-xylene	15.82	91	11332	0.22	ppb		97
63) 4-ethyltoluene	17.01	105	7421	0.18	ppb		92
64) 1,3,5-trimethylbenzene	17.07	105	15035	0.32	ppb		78
65) 1,2,4-trimethylbenzene	17.48	105	26282	0.70	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

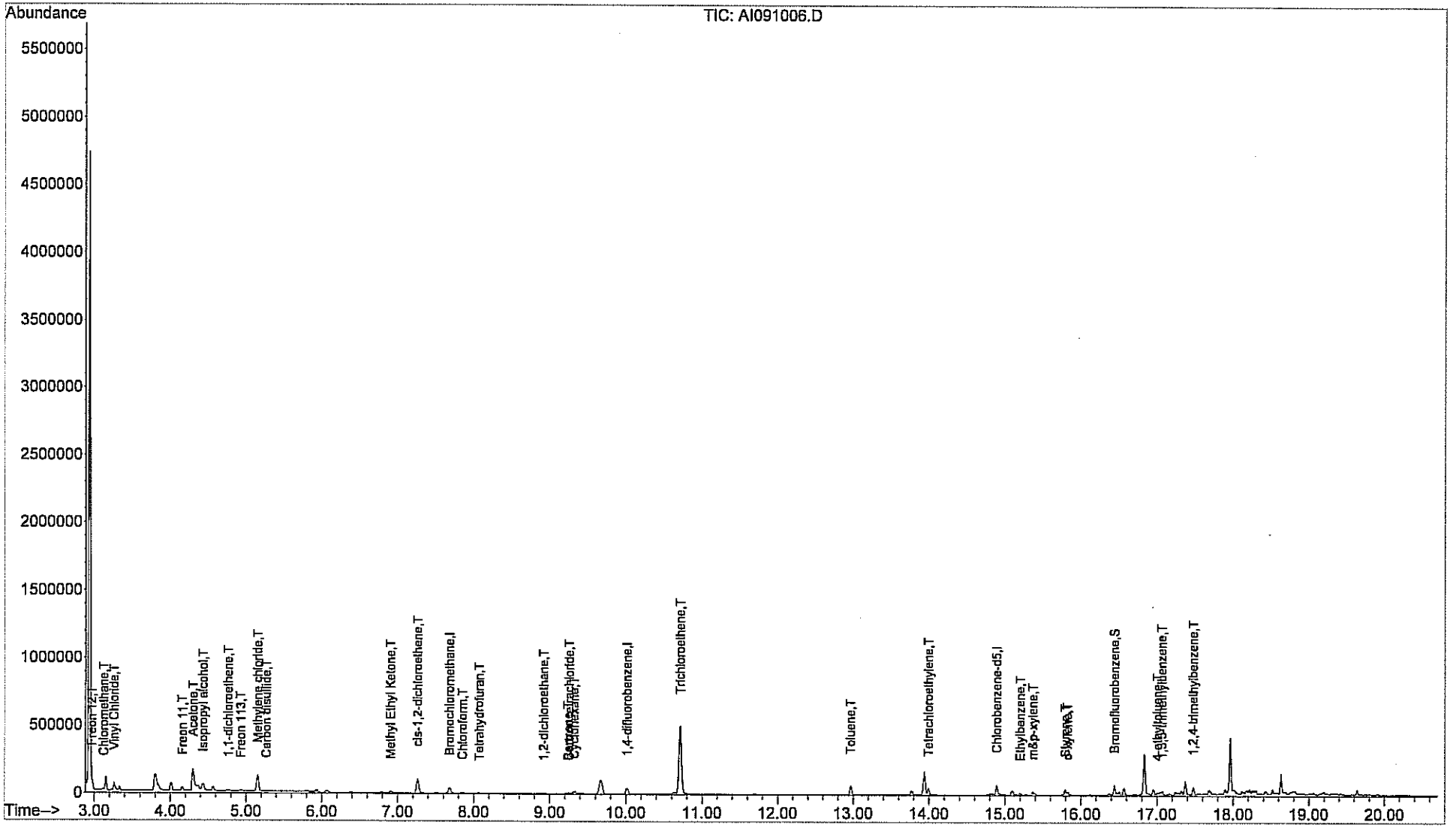
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091006.D
Acq On : 10 Sep 2011 12:02 pm
Sample : C1109015-001A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 13 9:58 2011

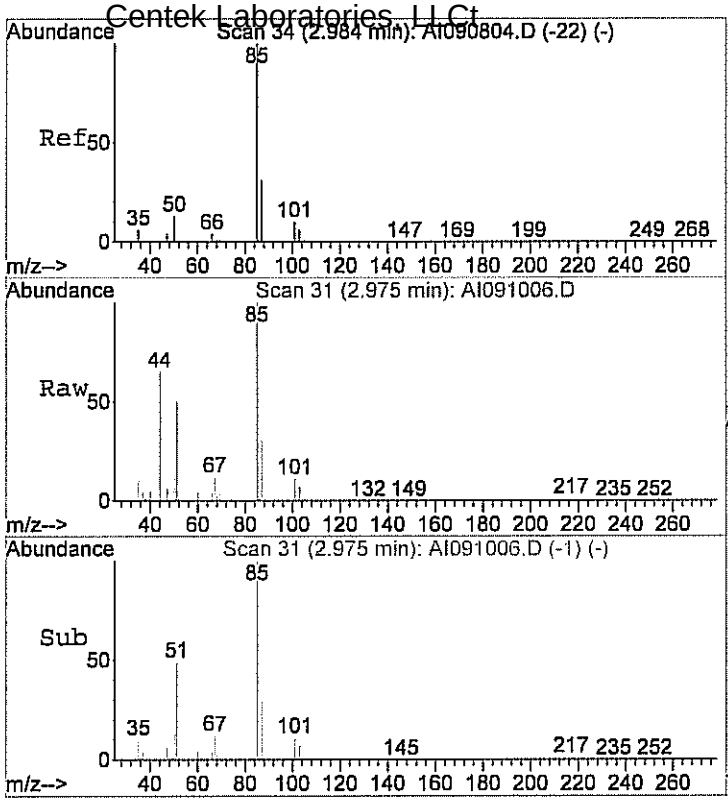
Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



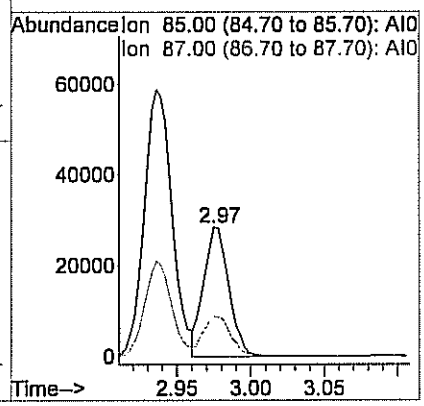
Centek Laboratories, LLCt

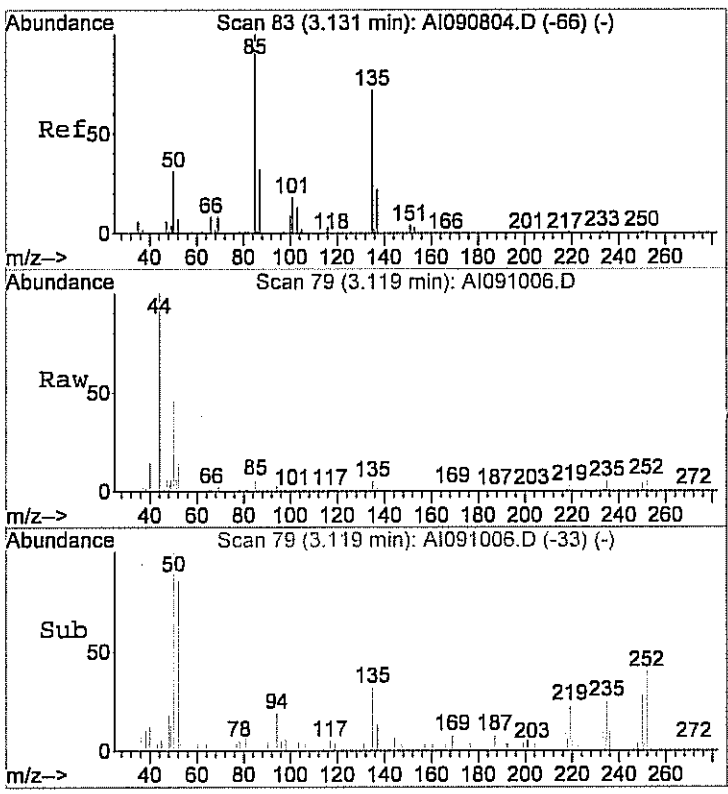


#3
Freon 12
Concen: 0.57 ppb
RT: 2.97 min Scan# 31
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 85 Resp: 34005

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.2	52.2

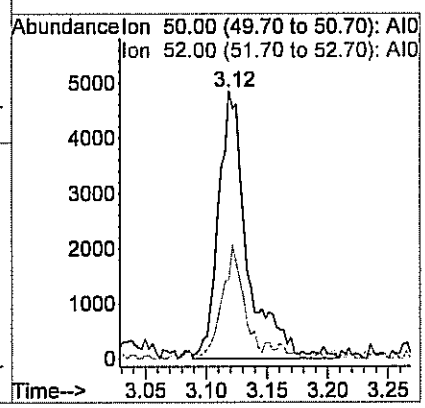


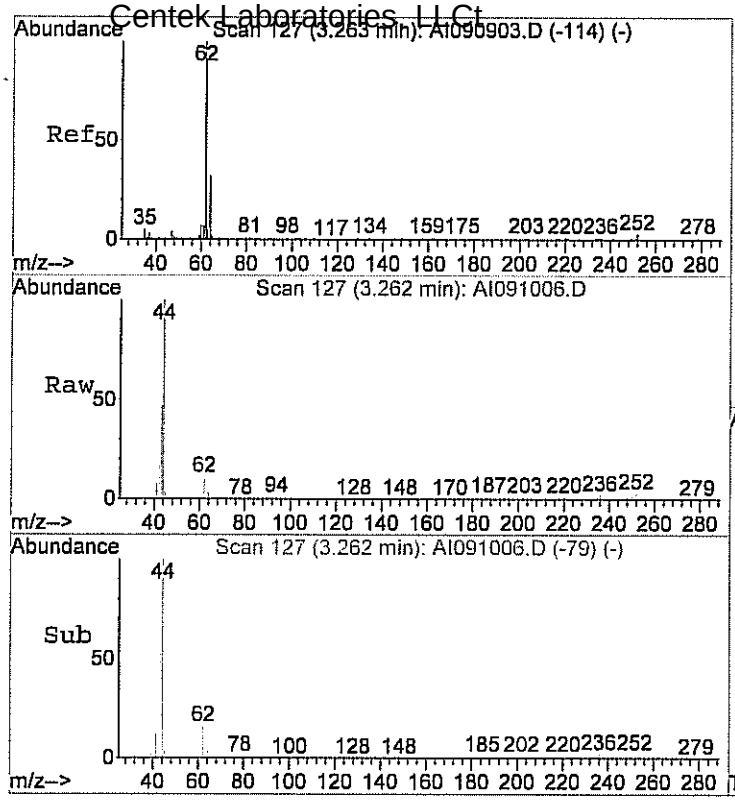


#4
Chloromethane
Concen: 0.54 ppb
RT: 3.12 min Scan# 79
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 50 Resp: 8027

Ion	Ratio	Lower	Upper
50	100		
52	29.4	4.1	44.1

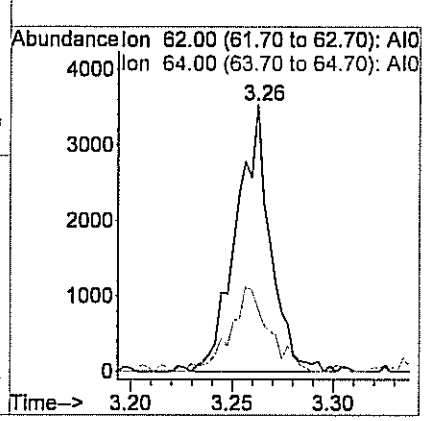


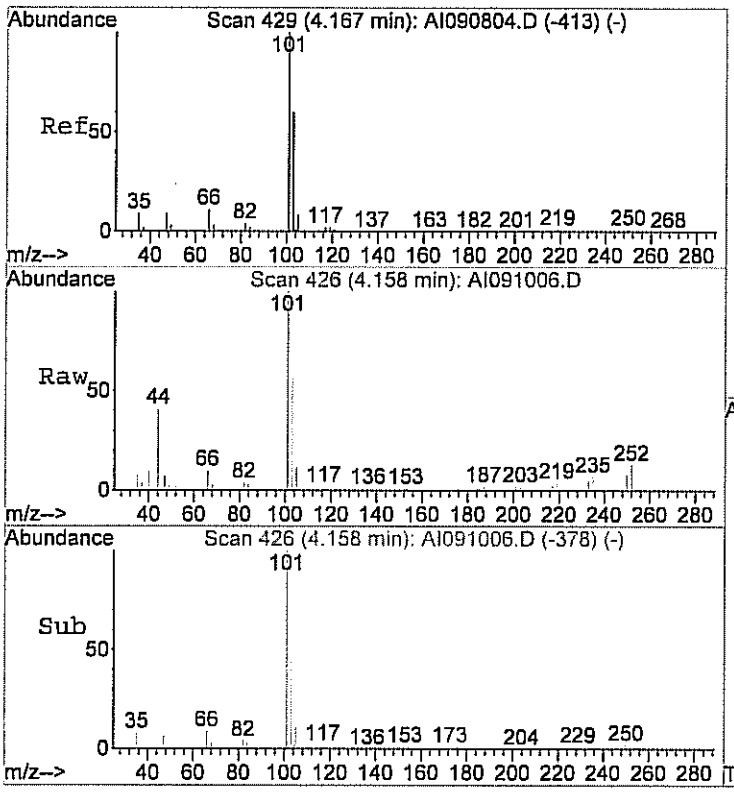


#6
Vinyl Chloride
Concen: 0.31 ppb
RT: 3.26 min Scan# 127
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 62 Resp: 4169

Ion	Ratio	Lower	Upper
62	100		
64	35.9	2.4	62.4

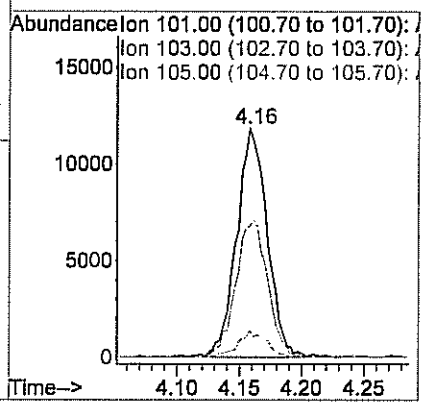


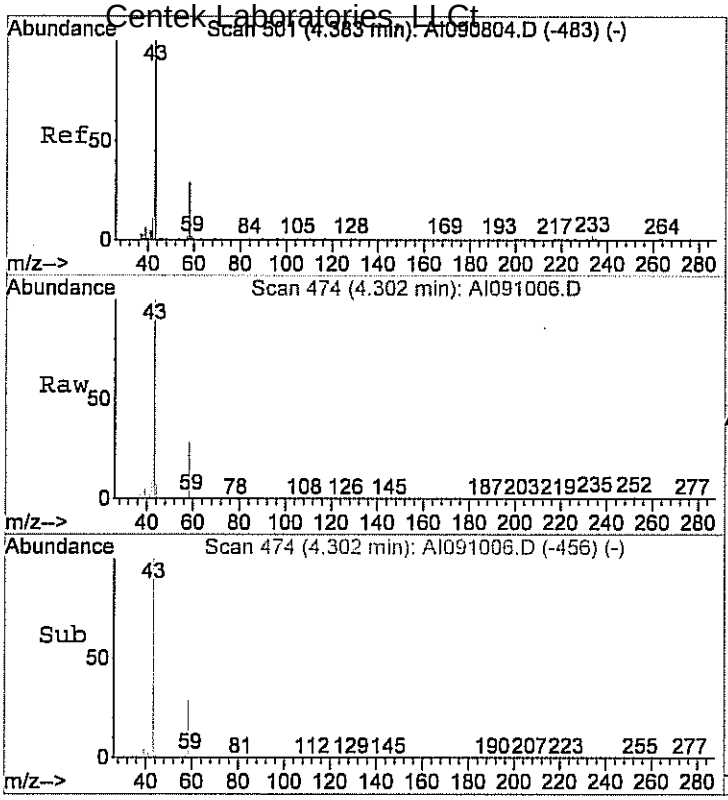


#13
Freon 11
Concen: 0.44 ppb
RT: 4.16 min Scan# 426
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:101 Resp: 20348

Ion	Ratio	Lower	Upper
101	100		
103	62.1	44.9	84.9
105	10.5	0.0	30.9

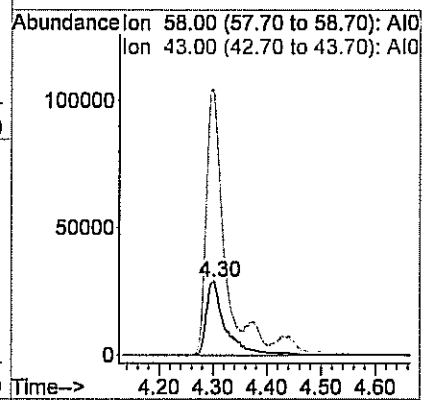


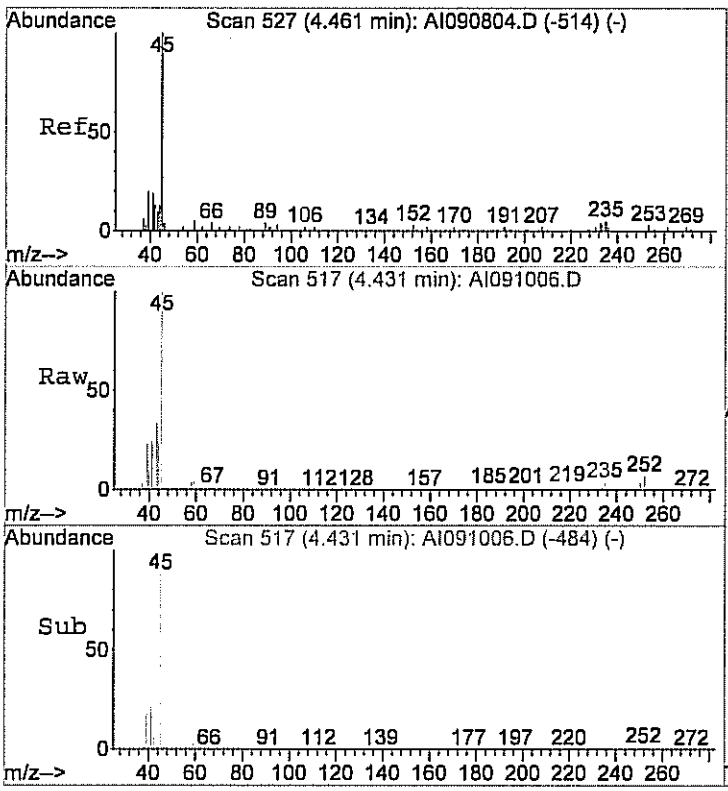


#14
Acetone
Concen: 15.00 ppb
RT: 4.30 min Scan# 474
Delta R.T. -0.10 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 58 Resp: 73649

Ion	Ratio	Lower	Upper
58	100		
43	367.6	360.8	420.8

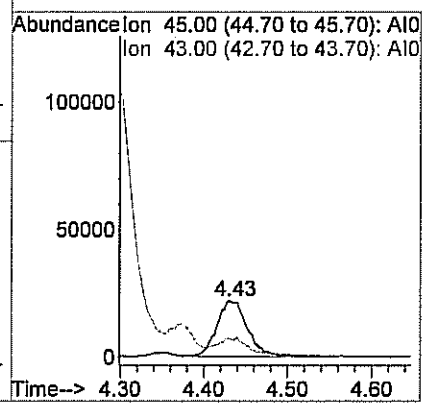


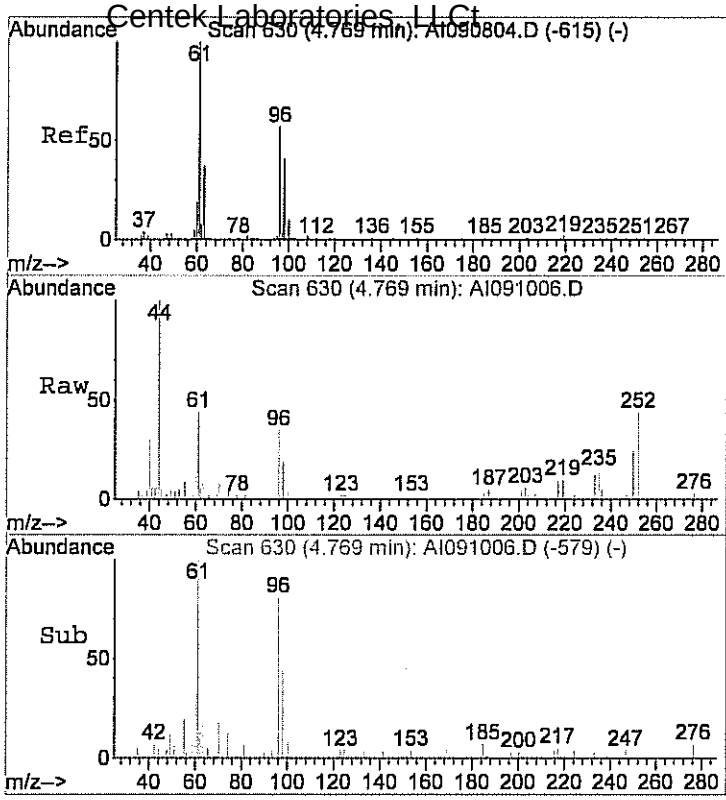


#15
Isopropyl alcohol
Concen: 5.59 ppb
RT: 4.43 min Scan# 517
Delta R.T. -0.05 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 45 Resp: 56093

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

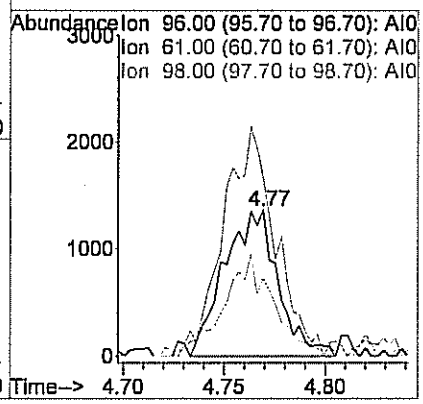


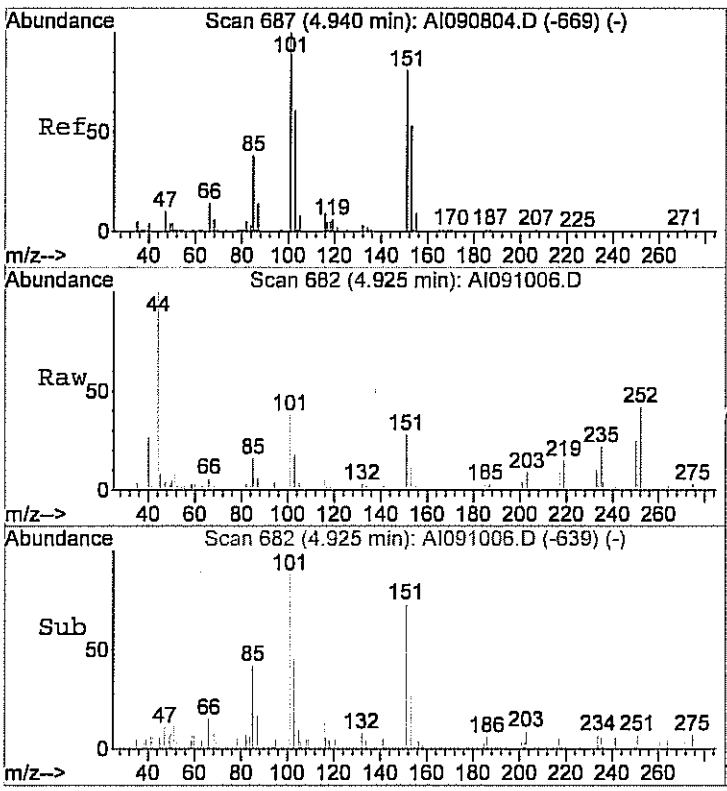


#16
1,1-dichloroethene
Concen: 0.17 ppb
RT: 4.77 min Scan# 630
Delta R.T. 0.00 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 96 Resp: 2495

Ion	Ratio	Lower	Upper
96	100		
61	151.4	137.3	177.3
98	63.6	43.5	83.5

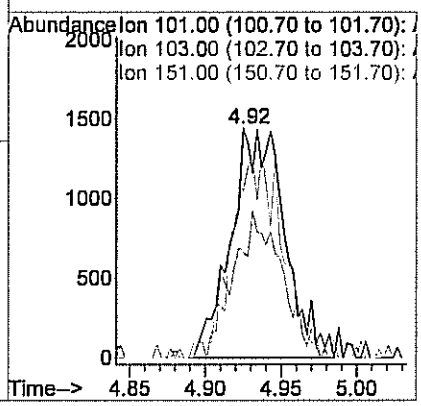


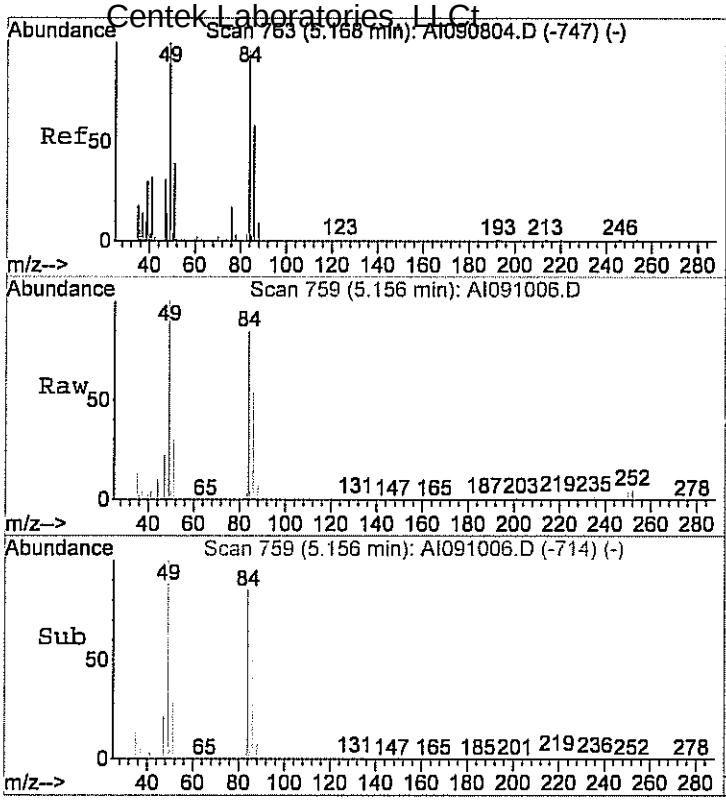


#17
Freon 113
Concen: 0.11 ppb
RT: 4.92 min Scan# 682
Delta R.T. -0.02 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:101 Resp: 3522

Ion	Ratio	Lower	Upper
101	100		
103	59.9	44.3	84.3
151	84.0	61.0	101.0

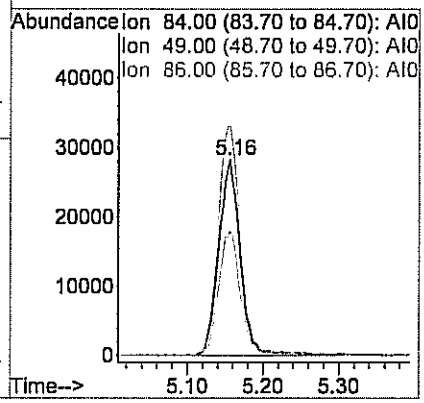


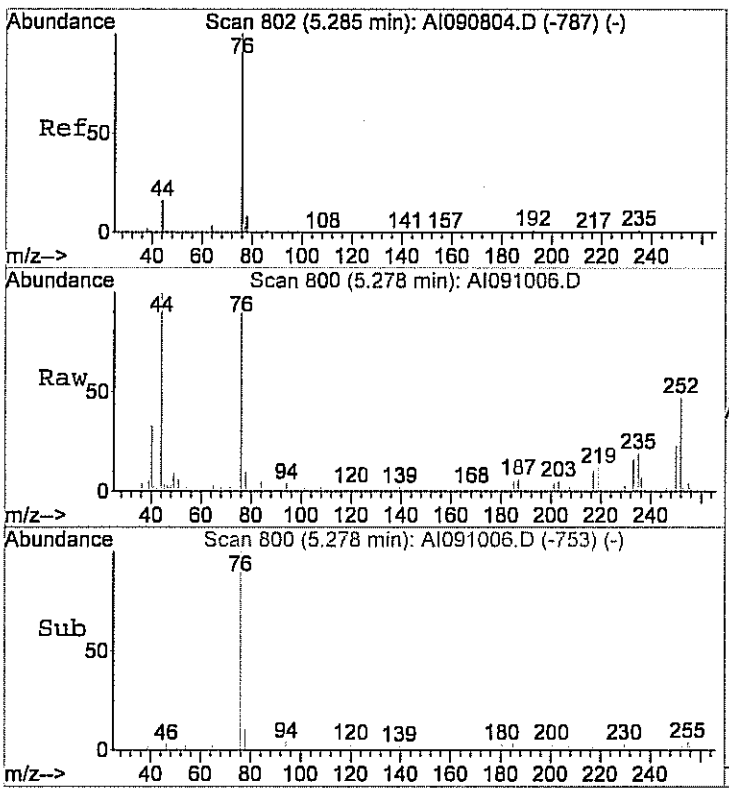


#18
Methylene chloride
Concen: 4.46 ppb
RT: 5.16 min Scan# 759
Delta R.T. -0.02 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 84 Resp: 55999

Ion	Ratio	Lower	Upper
84	100		
49	121.7	116.9	156.9
86	65.9	46.7	86.7

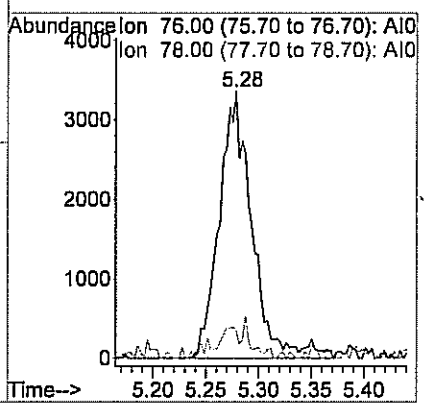


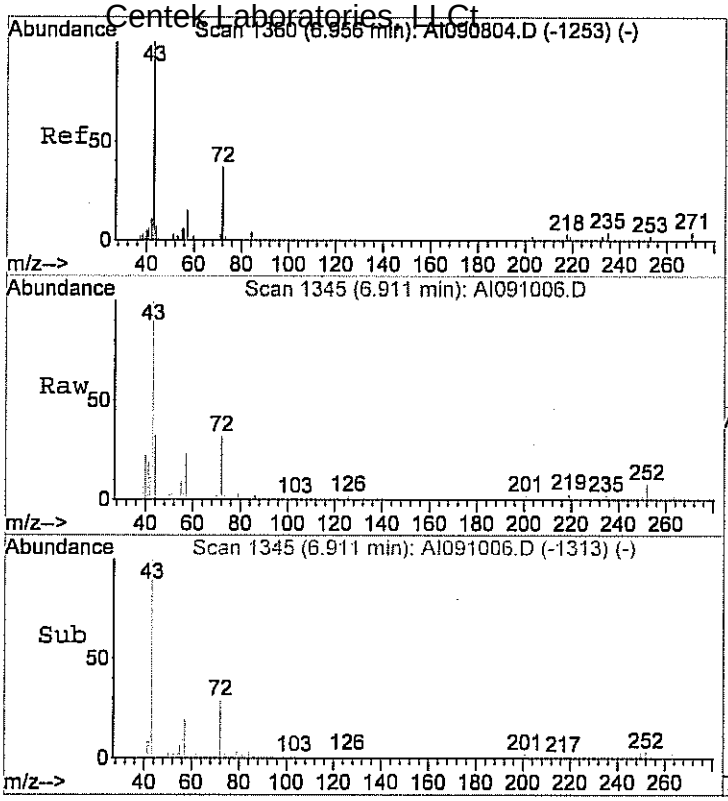


#20
Carbon disulfide
Concen: 0.18 ppb
RT: 5.28 min Scan# 800
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 76 Resp: 7218

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	29.6

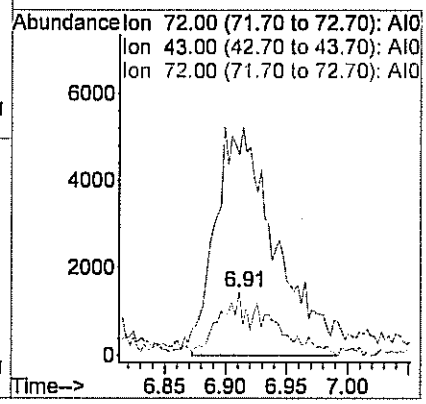


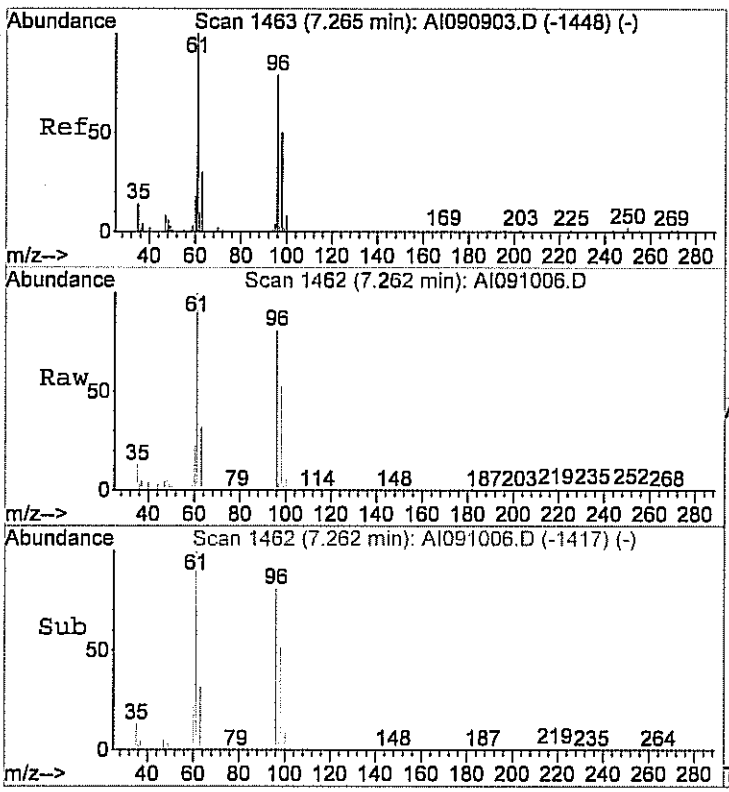


#25
Methyl Ethyl Ketone
Concen: 0.90 ppb
RT: 6.91 min Scan# 1345
Delta R.T. -0.05 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 72 Resp: 4099

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

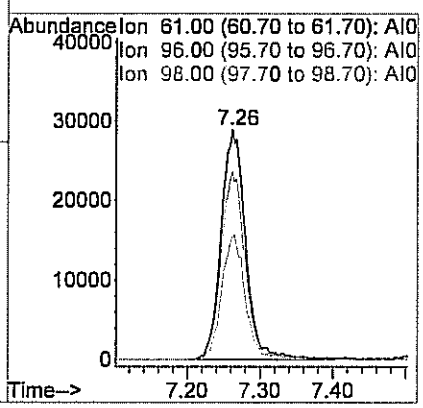


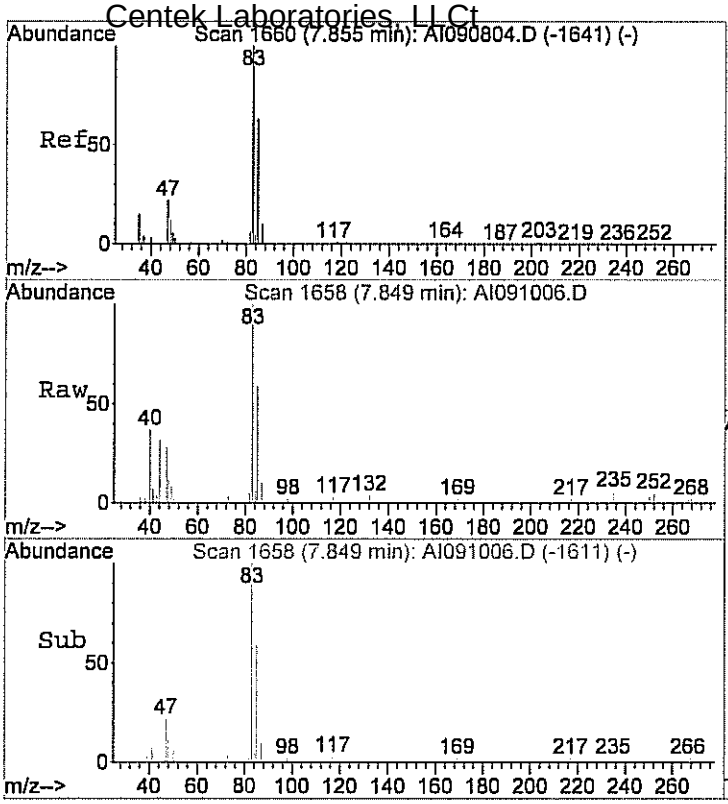


#26
cis-1,2-dichloroethene
Concen: 3.32 ppb
RT: 7.26 min Scan# 1462
Delta R.T. -0.02 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 61 Resp: 67520

Ion	Ratio	Lower	Upper
61	100		
96	81.5	56.6	96.6
98	52.8	30.4	70.4

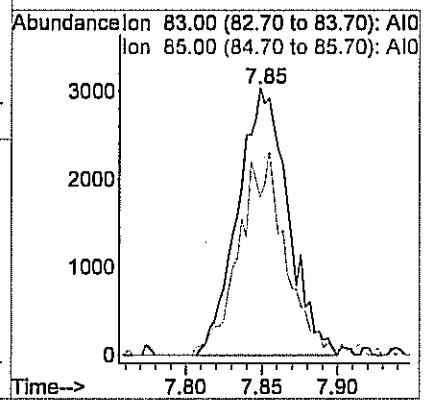


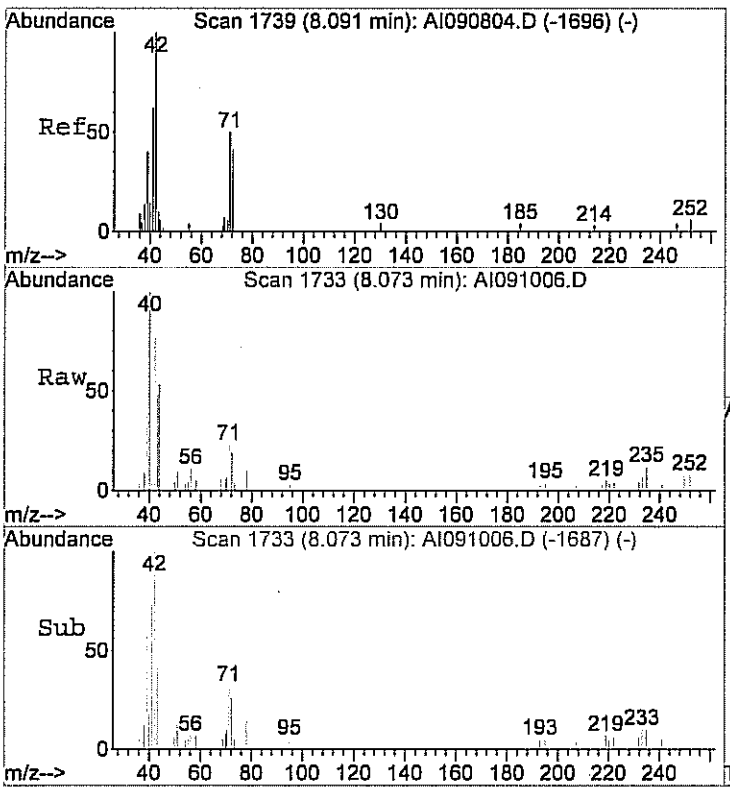


#29
Chloroform
Concen: 0.16 ppb
RT: 7.85 min Scan# 1658
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 83 Resp: 6999

Ion	Ratio	Lower	Upper
83	100		
85	70.5	45.0	85.0

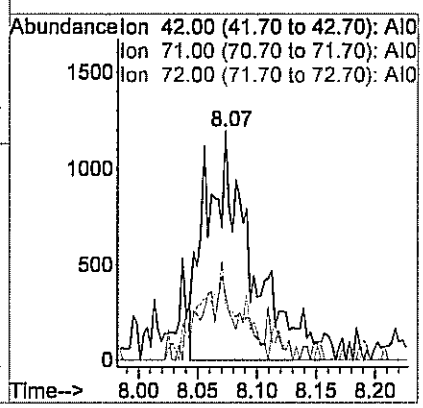


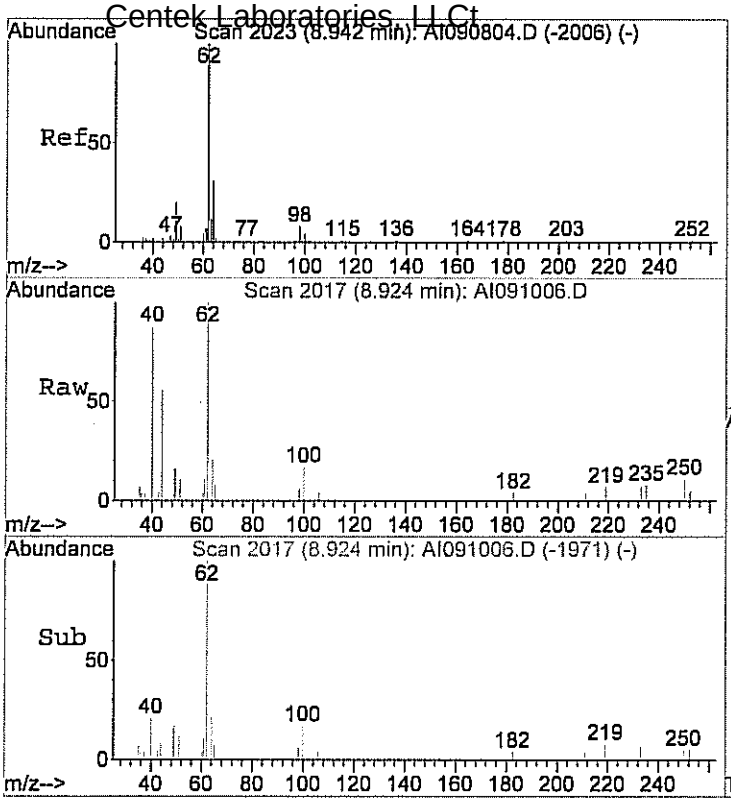


#30
Tetrahydrofuran
Concen: 0.38 ppb
RT: 8.07 min Scan# 1733
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 42 Resp: 3259

Ion	Ratio	Lower	Upper
42	100		
71	29.8	24.6	64.6
72	32.3	26.5	66.5

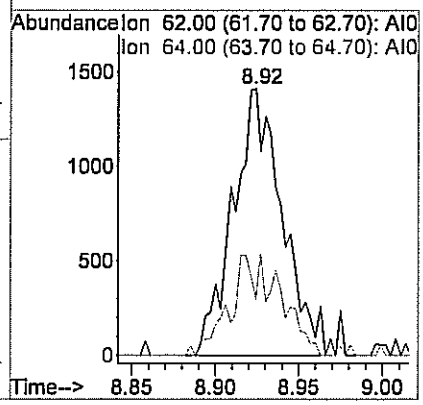


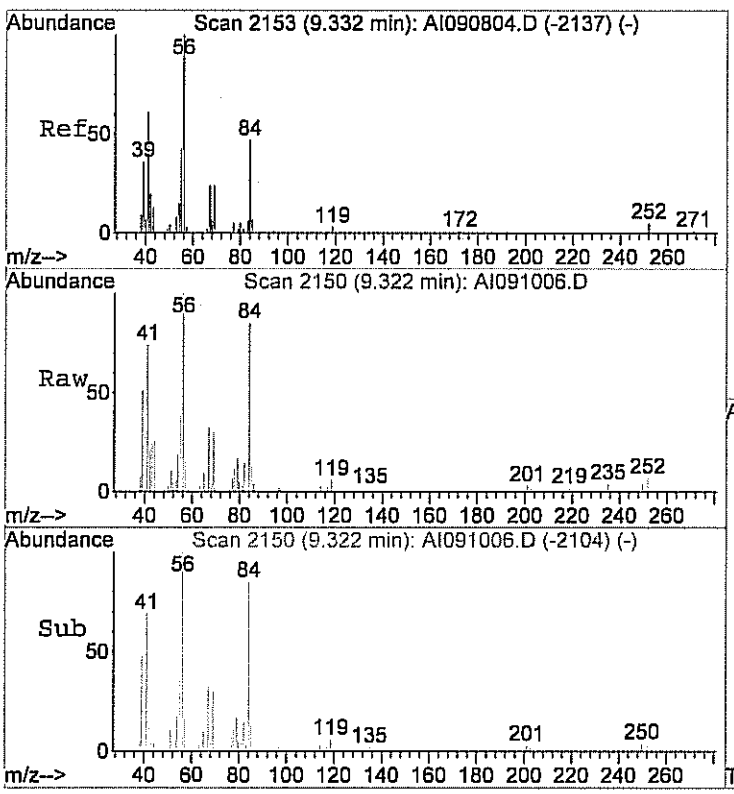


#31
1,2-dichloroethane
Concen: 0.11 ppb
RT: 8.92 min Scan# 2017
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 62 Resp: 2903

Ion	Ratio	Lower	Upper
62	100		
64	38.1	12.2	52.2

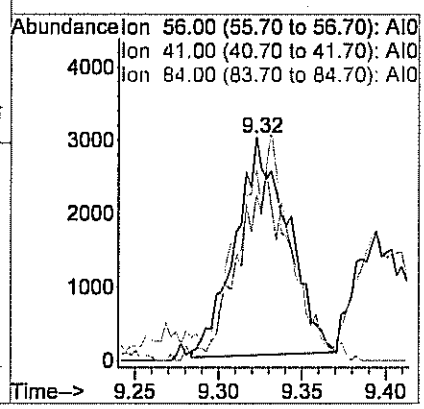


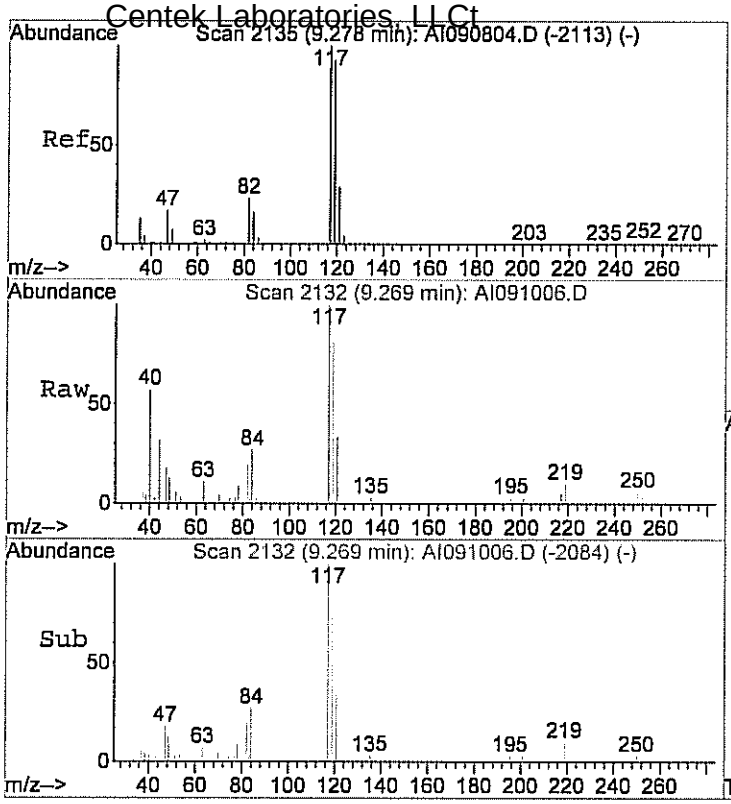


#34
Cyclohexane
Concen: 0.47 ppb
RT: 9.32 min Scan# 2150
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 56 Resp: 6489

Ion	Ratio	Lower	Upper
56	100		
41	88.1	49.1	89.1
84	96.9	114.6	154.6#

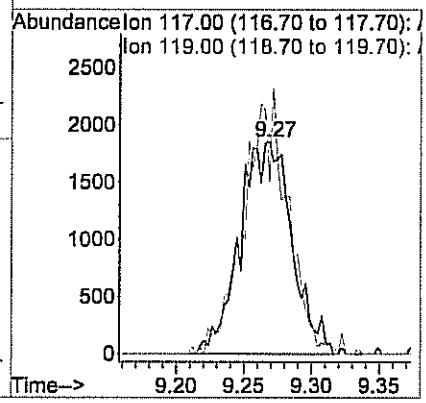


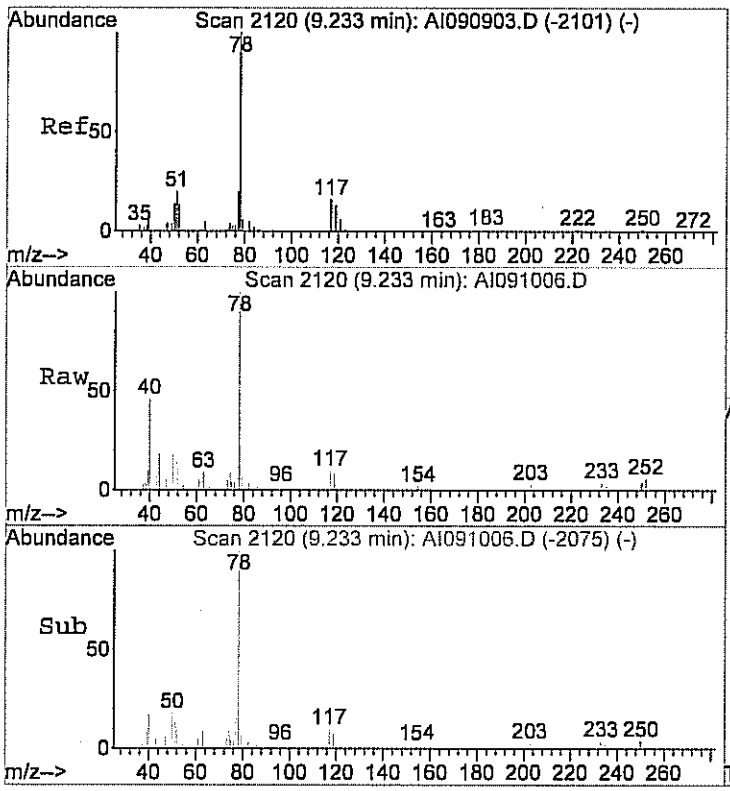


#35
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.27 min Scan# 2132
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:117 Resp: 4966

Ion	Ratio	Lower	Upper
117	100		
119	102.3	77.2	117.2

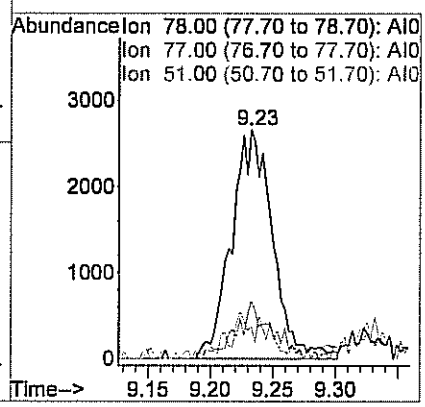


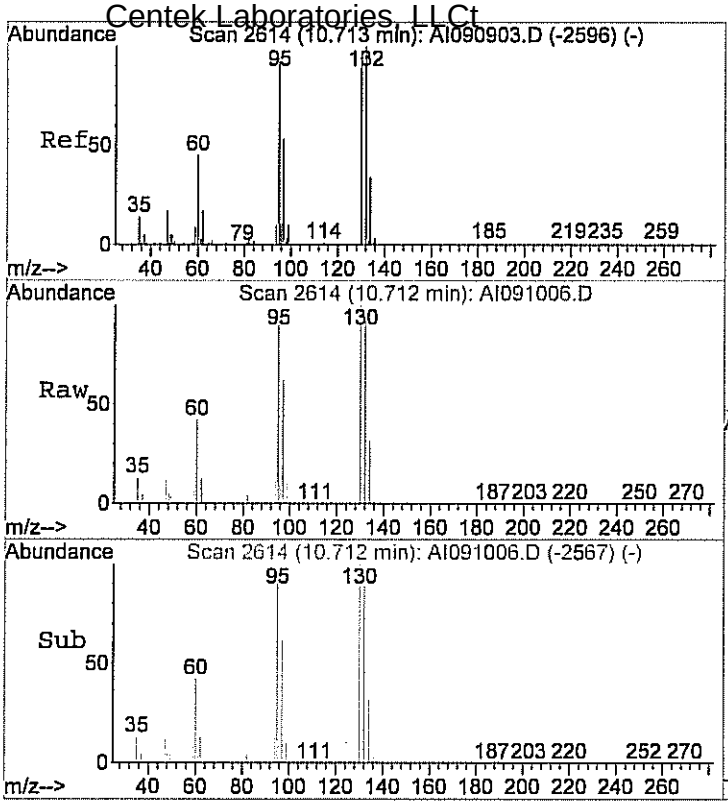


#36
Benzene
Concen: 0.17 ppb
RT: 9.23 min Scan# 2120
Delta R.T. -0.02 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 78 Resp: 6062

Ion	Ratio	Lower	Upper
78	100		
77	19.7	5.2	45.2
51	11.3	0.0	37.6

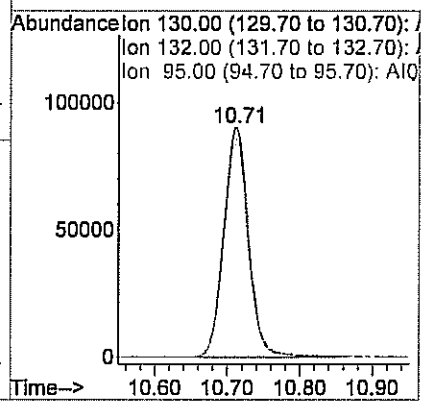


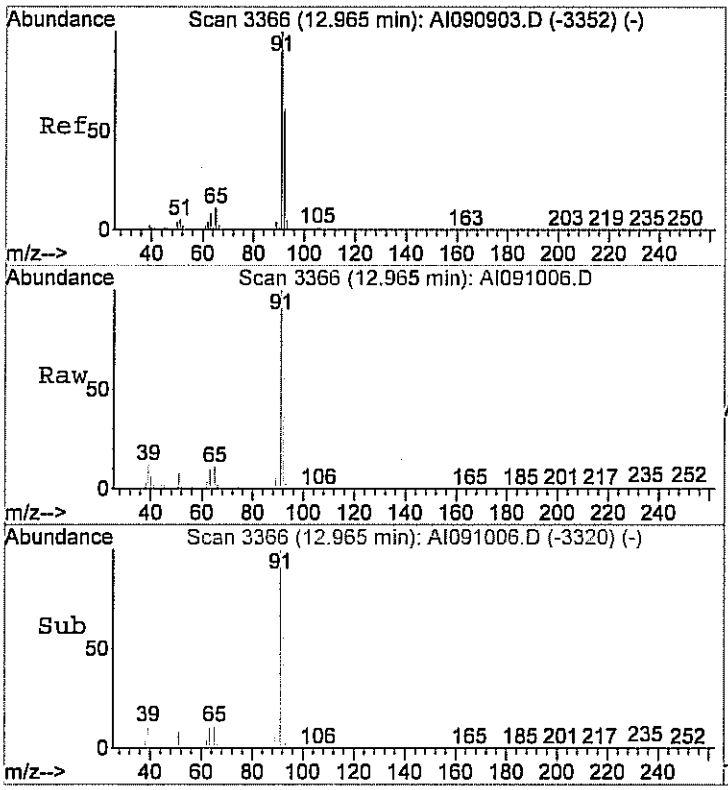


#41
Trichloroethene
Concen: 9.66 ppb
RT: 10.71 min Scan# 2614
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:130 Resp: 215294

Ion	Ratio	Lower	Upper
130	100		
132	96.5	79.0	119.0
95	94.6	76.8	116.8

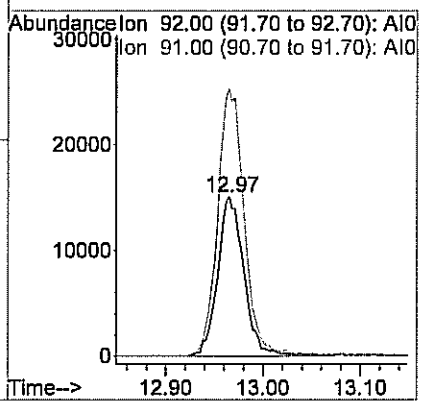


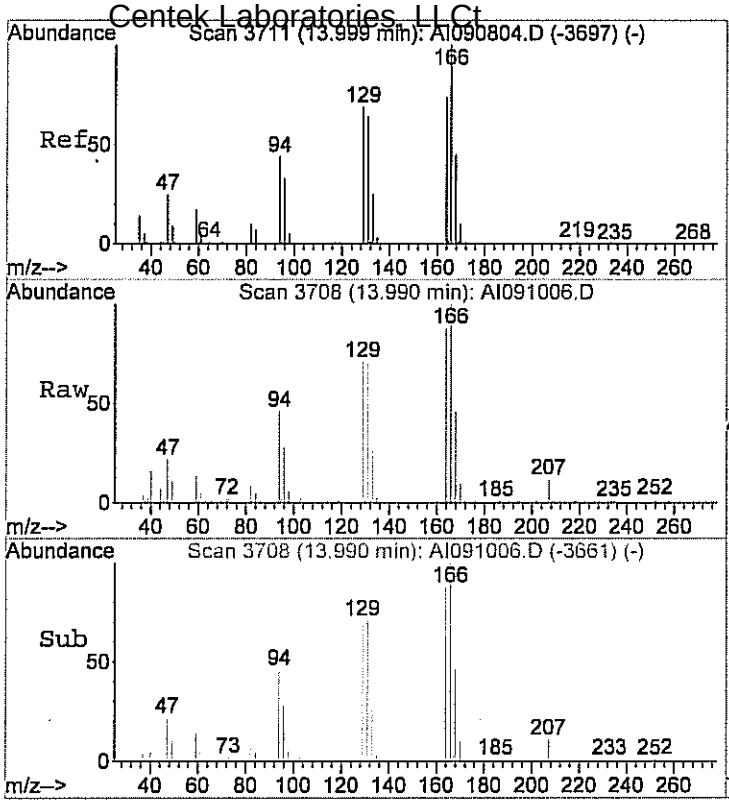


#48
Toluene
Concen: 1.06 ppb
RT: 12.97 min Scan# 3366
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 92 Resp: 28089

Ion	Ratio	Lower	Upper
92	100		
91	170.6	159.8	199.8

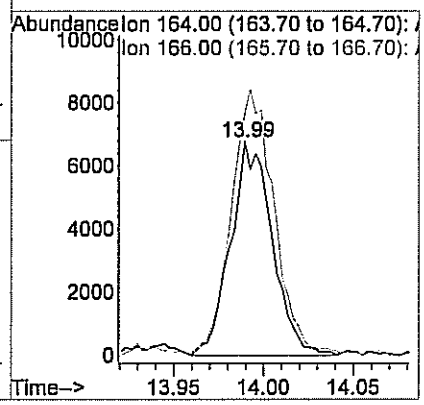


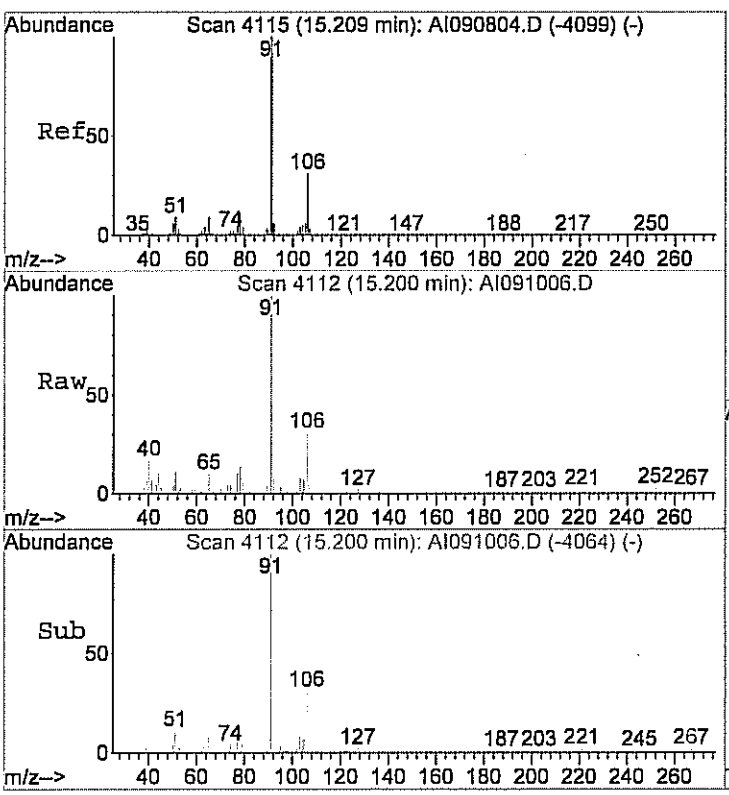


#53
Tetrachloroethylene
Concen: 0.39 ppb
RT: 13.99 min Scan# 3708
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:164 Resp: 10909

Ion	Ratio	Lower	Upper
164	100		
166	126.5	109.4	149.4

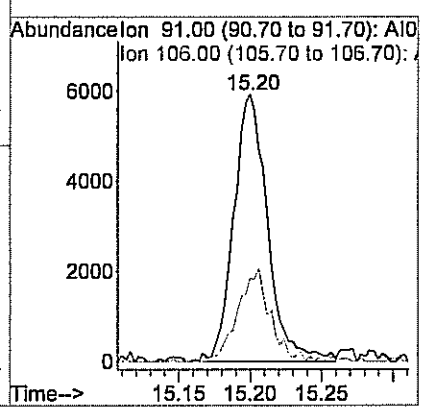


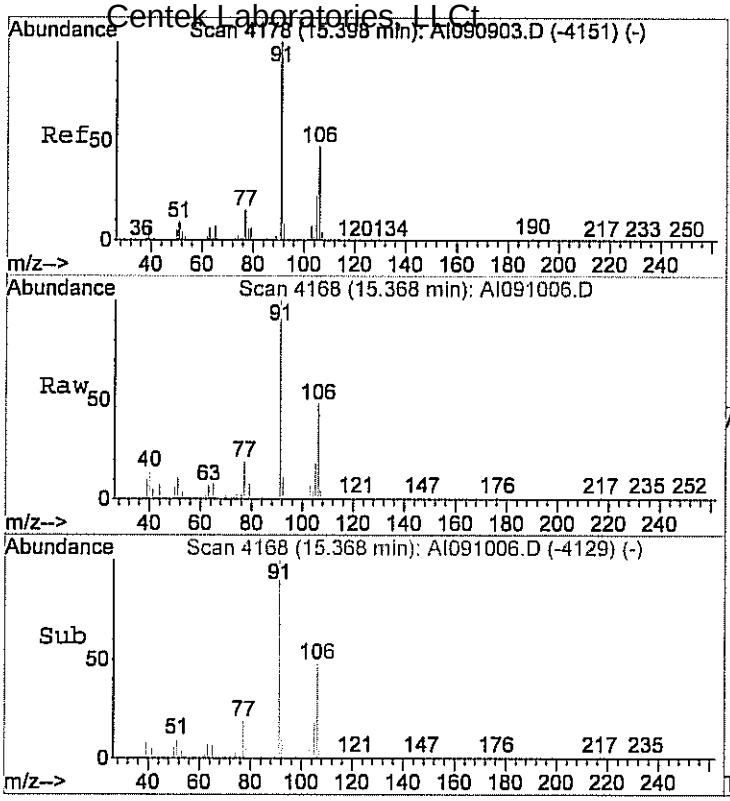


#55
Ethylbenzene
Concen: 0.18 ppb
RT: 15.20 min Scan# 4112
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 91 Resp: 9788

Ion	Ratio	Lower	Upper
91	100		
106	33.0	10.7	50.7

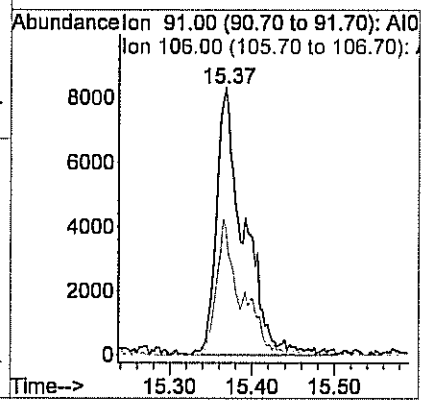


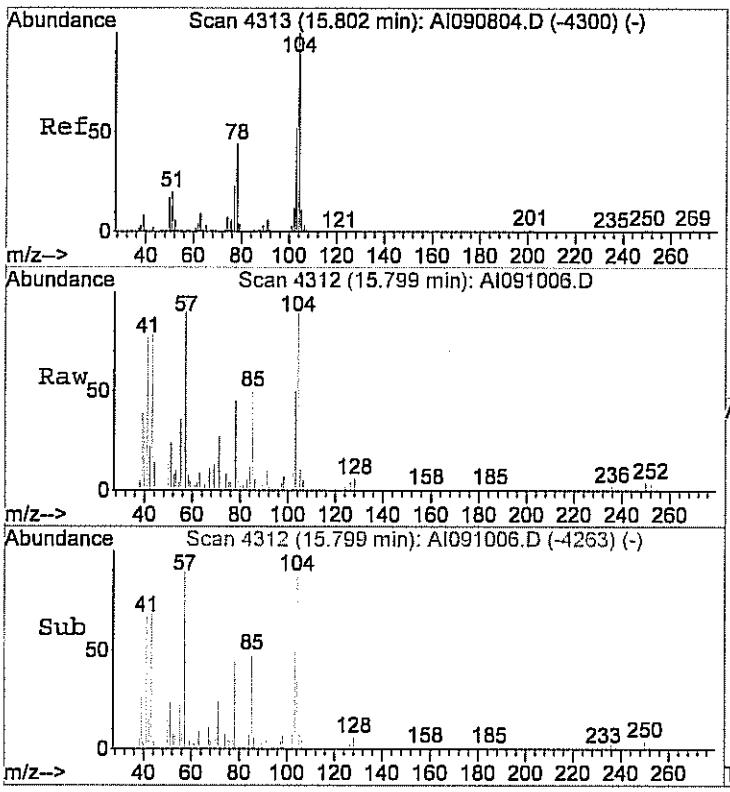


#56
m&p-xylene
Concen: 0.44 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 91 Resp: 19443

Ion	Ratio	Lower	Upper
91	100		
106	44.6	27.5	67.5

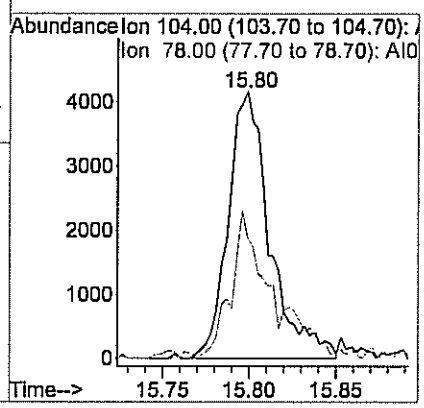


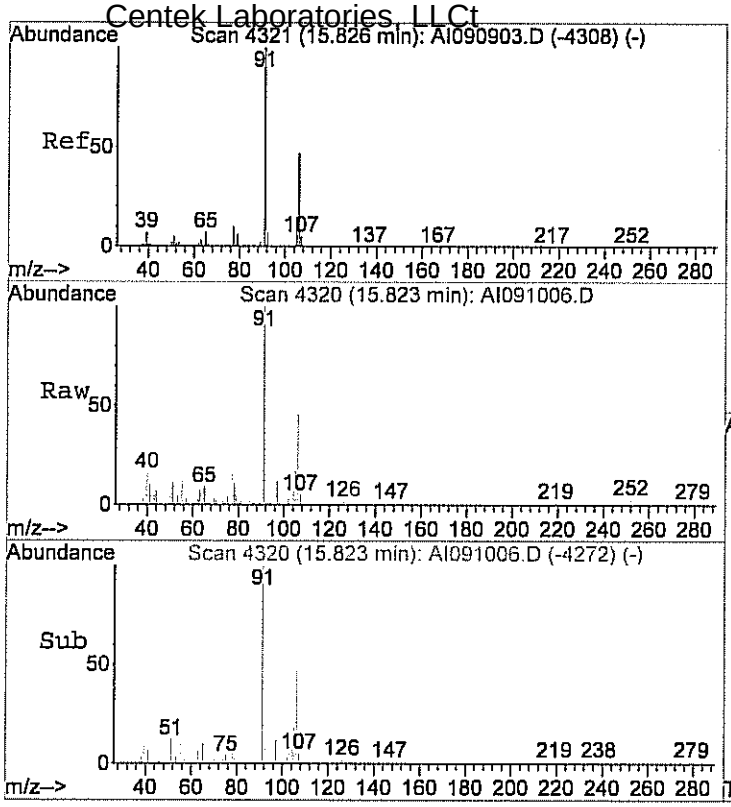


#57
Styrene
Concen: 0.26 ppb
RT: 15.80 min Scan# 4312
Delta R.T. -0.00 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:104 Resp: 6914

Ion	Ratio	Lower	Upper
104	100		
78	55.3	36.7	76.7

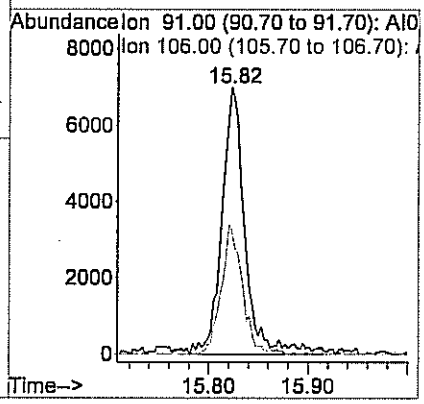


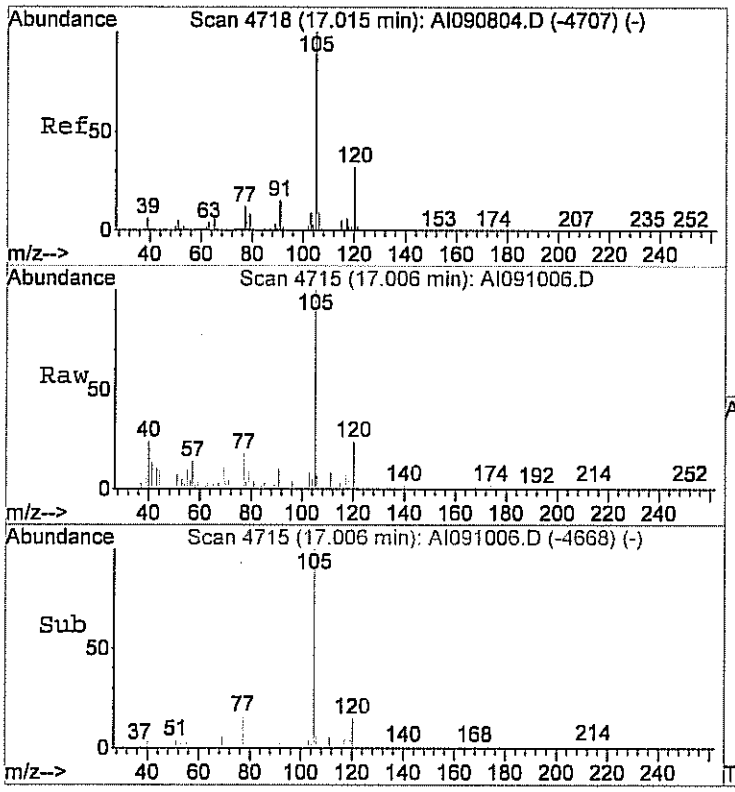


#59
o-xylene
Concen: 0.22 ppb
RT: 15.82 min Scan# 4320
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion: 91 Resp: 11332

Ion	Ratio	Lower	Upper
91	100		
106	44.1	26.2	66.2

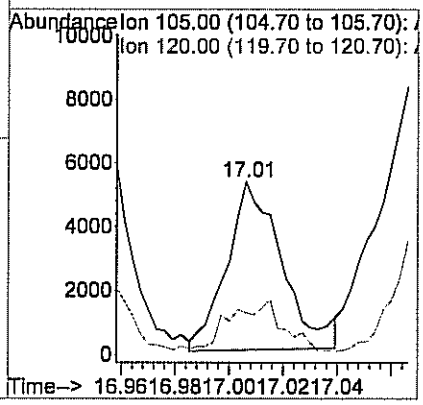


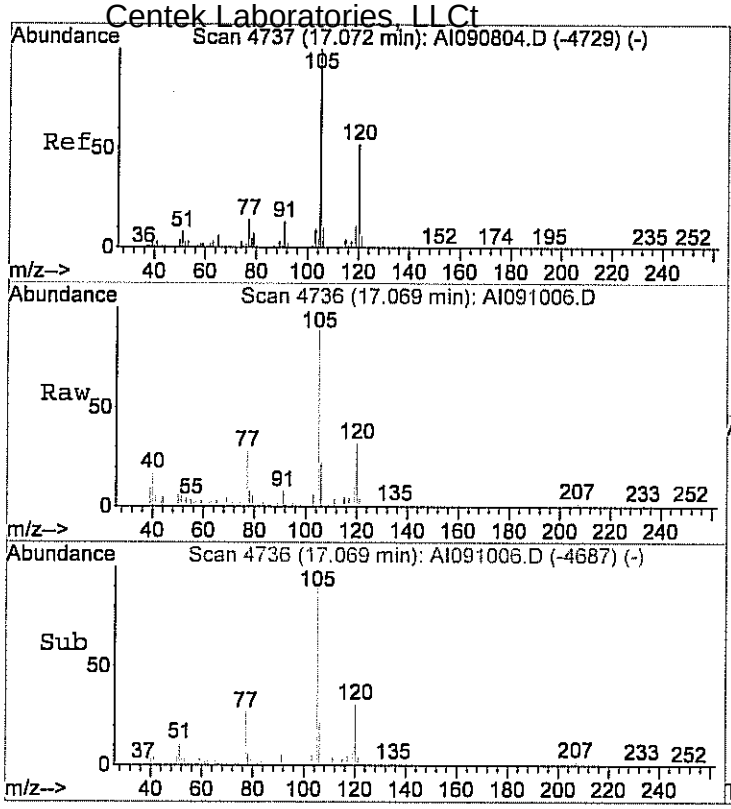


#63
4-ethyltoluene
Concen: 0.18 ppb
RT: 17.01 min Scan# 4715
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:105 Resp: 7421

Ion	Ratio	Lower	Upper
105	100		
120	32.2	8.1	48.1

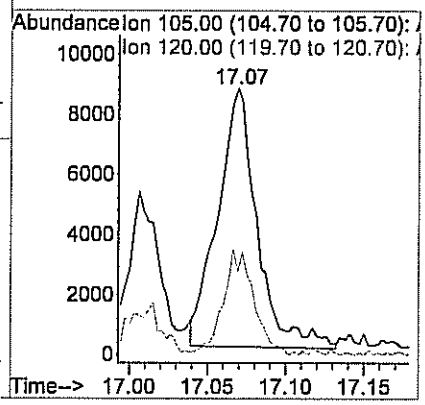


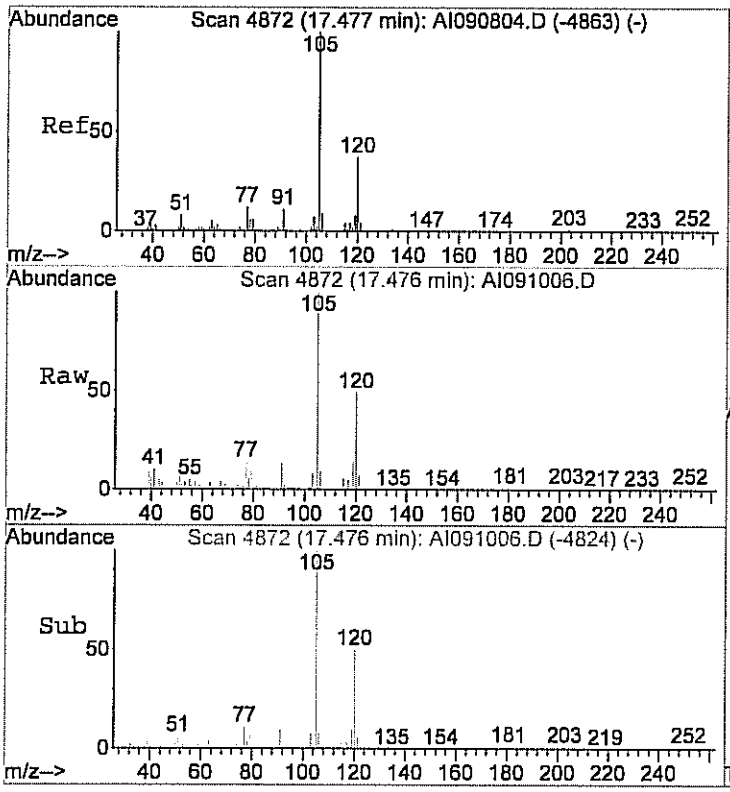


#64
1,3,5-trimethylbenzene
Concen: 0.32 ppb
RT: 17.07 min Scan# 4736
Delta R.T. -0.00 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:105 Resp: 15035

Ion	Ratio	Lower	Upper
105	100		
120	31.9	26.2	66.2

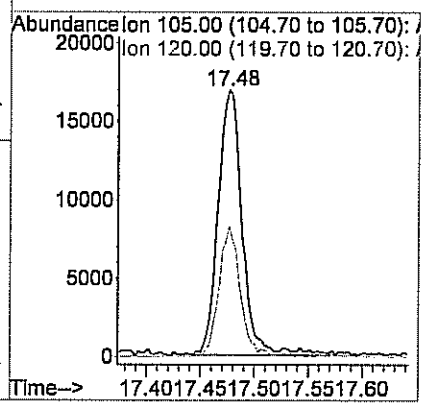




#65
1,2,4-trimethylbenzene
Concen: 0.70 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI091006.D
Acq: 10 Sep 2011 12:02 pm

Tgt Ion:105 Resp: 26282

Ion	Ratio	Lower	Upper
105	100		
120	44.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091012.D Vial: 12
Acq On : 10 Sep 2011 3:24 pm Operator: RJP
Sample : C1109015-001A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:45:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	14598	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.01	114	41745	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	35640	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.44	95	16946	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	8290	1.61	ppb	# 69
15) Isopropyl alcohol	4.44	45	8844	0.84	ppb	# 100
18) Methylene chloride	5.16	84	5062	0.38	ppb	94
26) cis-1,2-dichloroethene	7.26	61	5073	0.24	ppb	91
41) Trichloroethene	10.72	130	15021	0.69	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

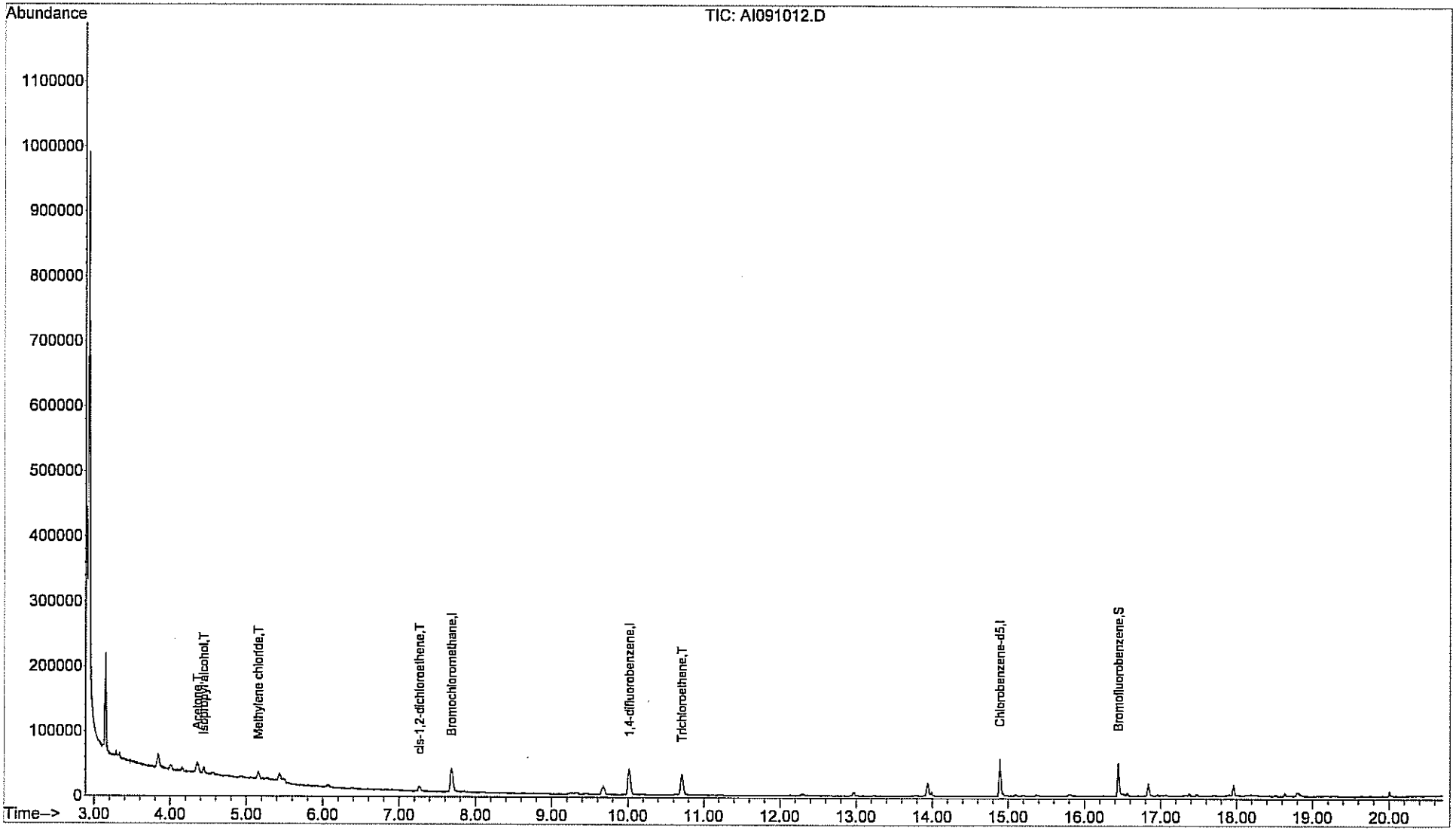
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091012.D
Acq On : 10 Sep 2011 3:24 pm
Sample : C1109015-001A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 14 16:34 2011

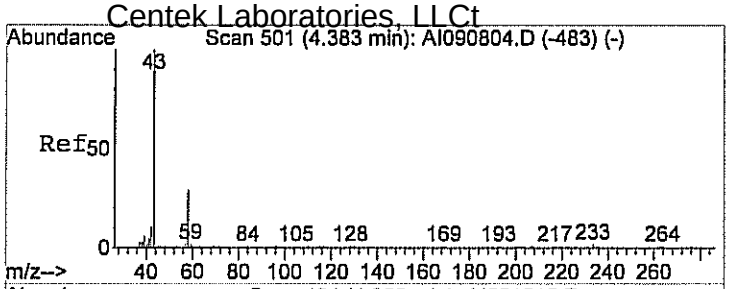
Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



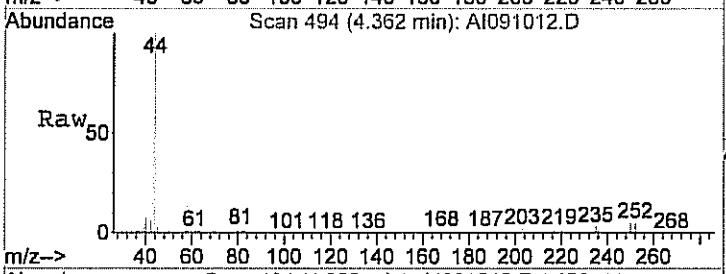
Centek Laboratories, LLCt

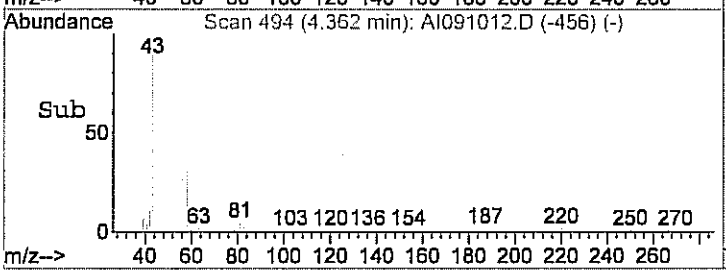


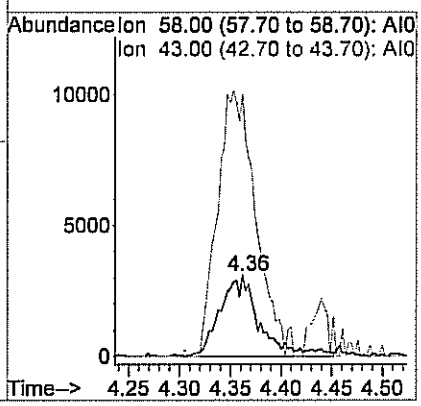
#14
Acetone
Concen: 1.61 ppb
RT: 4.36 min Scan# 494
Delta R.T. -0.04 min
Lab File: AI091012.D
Acq: 10 Sep 2011 3:24 pm

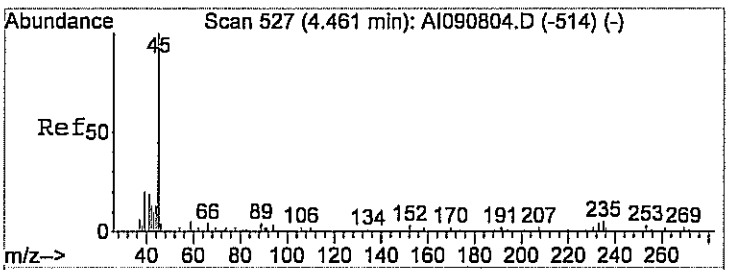
Tgt Ion: 58 Resp: 8290

Ion	Ratio	Lower	Upper
58	100		
43	317.9	360.8	420.8#





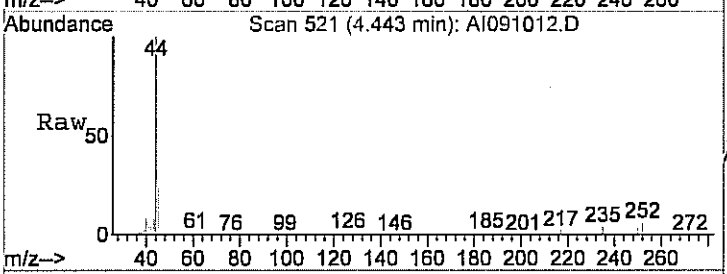


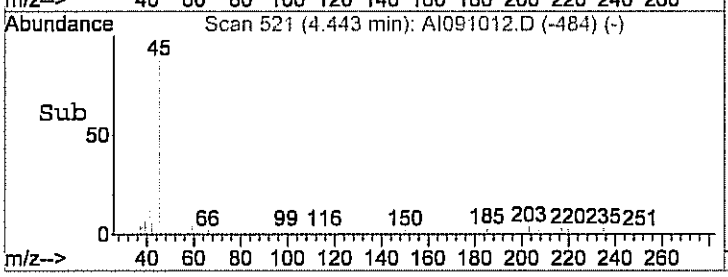


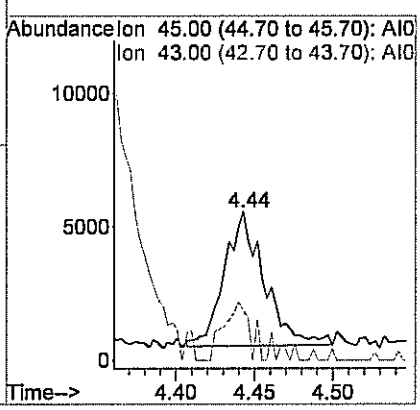
#15
Isopropyl alcohol
Concen: 0.84 ppb
RT: 4.44 min Scan# 521
Delta R.T. -0.04 min
Lab File: AI091012.D
Acq: 10 Sep 2011 3:24 pm

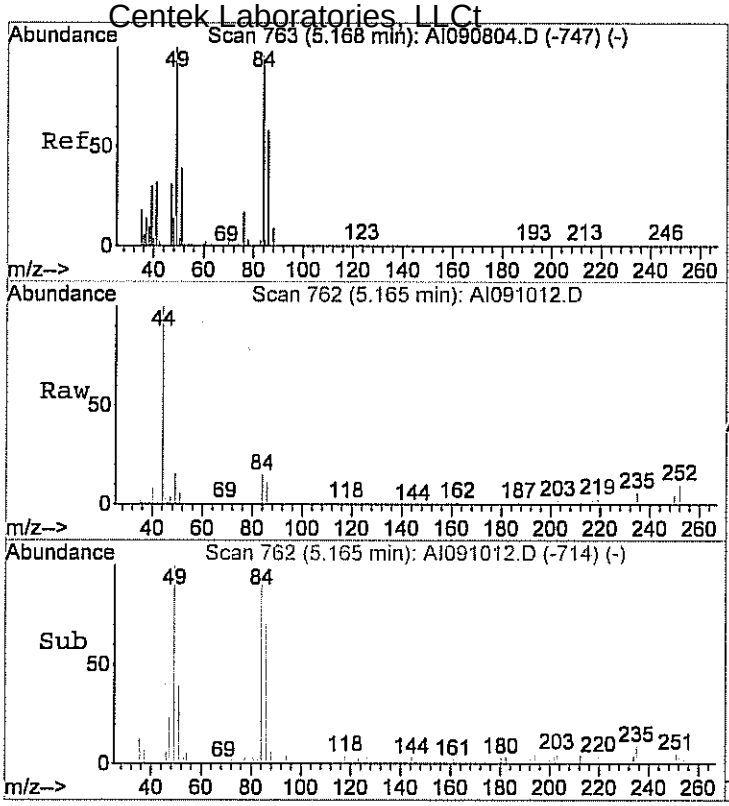
Tgt Ion: 45 Resp: 8844

Ion	Ratio	Lower	Upper
45	100		
43	28.6	0.0	20.0#





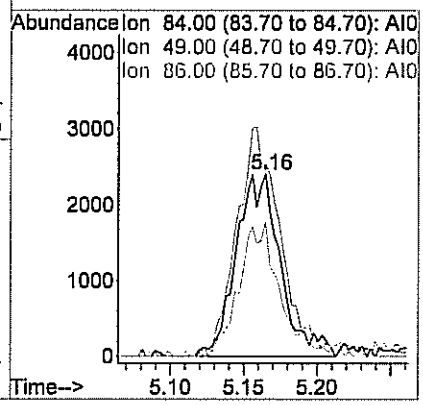


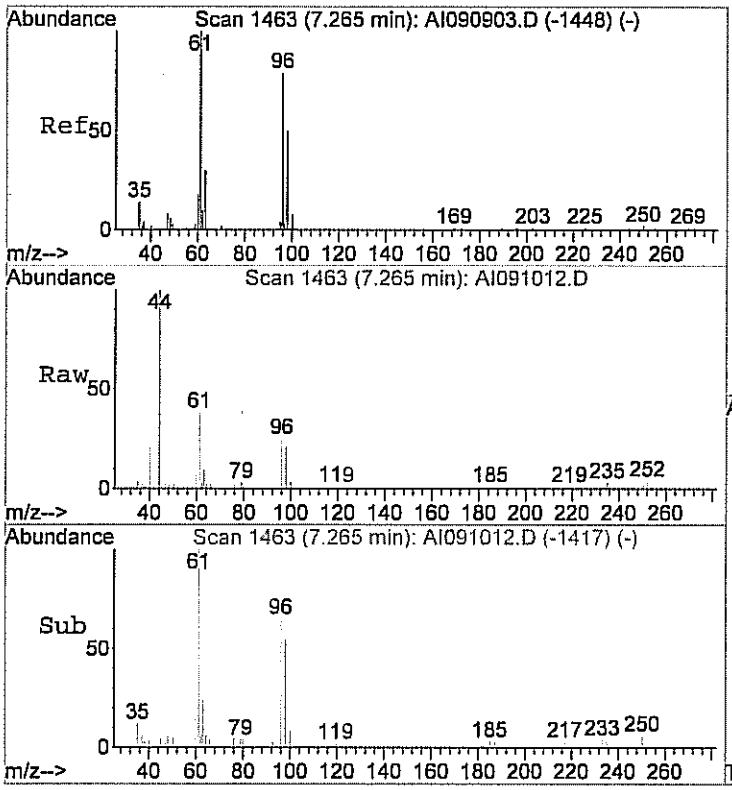


#18
Methylene chloride
Concen: 0.38 ppb
RT: 5.16 min Scan# 762
Delta R.T. -0.01 min
Lab File: AI091012.D
Acq: 10 Sep 2011 3:24 pm

Tgt Ion: 84 Resp: 5062

Ion	Ratio	Lower	Upper
84	100		
49	126.2	116.9	156.9
86	67.2	46.7	86.7

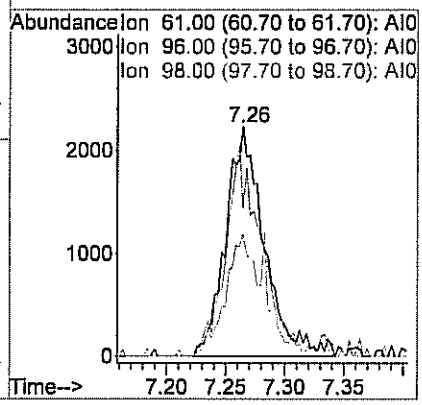


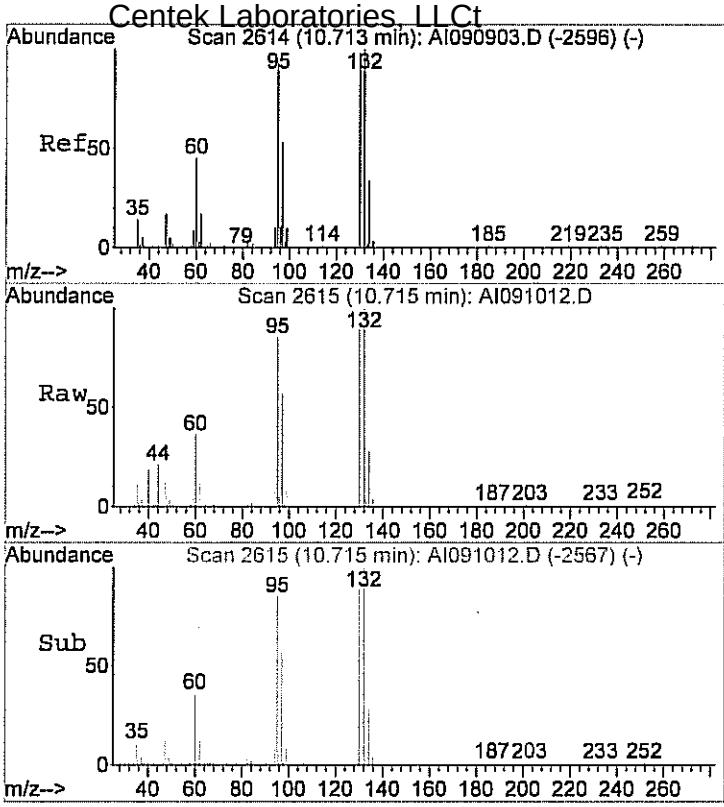


#26
cis-1,2-dichloroethene
Concen: 0.24 ppb
RT: 7.26 min Scan# 1463
Delta R.T. -0.01 min
Lab File: AI091012.D
Acq: 10 Sep 2011 3:24 pm

Tgt Ion: 61 Resp: 5073

Ion	Ratio	Lower	Upper
61	100		
96	86.1	56.6	96.6
98	53.9	30.4	70.4

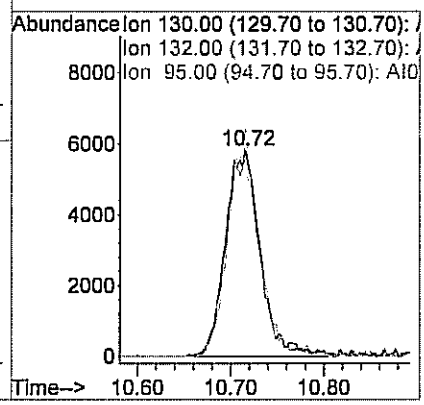




#41
Trichloroethene
Concen: 0.69 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI091012.D
Acq: 10 Sep 2011 3:24 pm

Tgt Ion:130 Resp: 15021

Ion	Ratio	Lower	Upper
130	100		
132	95.9	79.0	119.0
95	94.2	76.8	116.8



Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.12	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	0.24	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Benzene	0.14	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Cyclohexane	2.1	1.5		ppbV	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Ethyl acetate	0.51	0.25		ppbV	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 11	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 113	0.13	0.15	J	ppbV	1	9/10/2011 12:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 12	0.59	0.15		ppbV	1	9/10/2011 12:36:00 PM
Heptane	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	27	1.5		ppbV	10	9/10/2011 3:57:00 PM
m&p-Xylene	0.54	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Methylene chloride	0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
o-Xylene	0.21	0.15		ppbV	1	9/10/2011 12:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Styrene	0.23	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	1.4	0.15		ppbV	1	9/10/2011 12:36:00 PM
Toluene	1.2	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Trichloroethene	0.70	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	3.3	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.49	0.62	J	ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	1.2	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:36:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:36:00 PM
Benzene	0.45	0.49	J	ug/m3	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:36:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 12:36:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Cyclohexane	7.3	5.2		ug/m3	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Ethyl acetate	1.9	0.92		ug/m3	1	9/10/2011 12:36:00 PM
Ethylbenzene	0.88	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/10/2011 12:36:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	9/10/2011 12:36:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT: FPM
Lab Order: C1109015
Project: 1000-08-17
Lab ID: C1109015-002A

Client Sample ID: 776VMP0201AB
Tag Number: 95,304
Collection Date: 9/6/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	68	3.7		ug/m3	10	9/10/2011 3:57:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:36:00 PM
Methylene chloride	0.53	0.53		ug/m3	1	9/10/2011 12:36:00 PM
o-Xylene	0.93	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:36:00 PM
Styrene	1.0	0.65		ug/m3	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	4.3	0.45		ug/m3	1	9/10/2011 12:36:00 PM
Toluene	4.5	0.57		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Trichloroethene	3.8	0.82		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 12:36:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091007.D Vial: 7
Acq On : 10 Sep 2011 12:36 pm Operator: RJP
Sample : C1109015-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 12:57:29 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

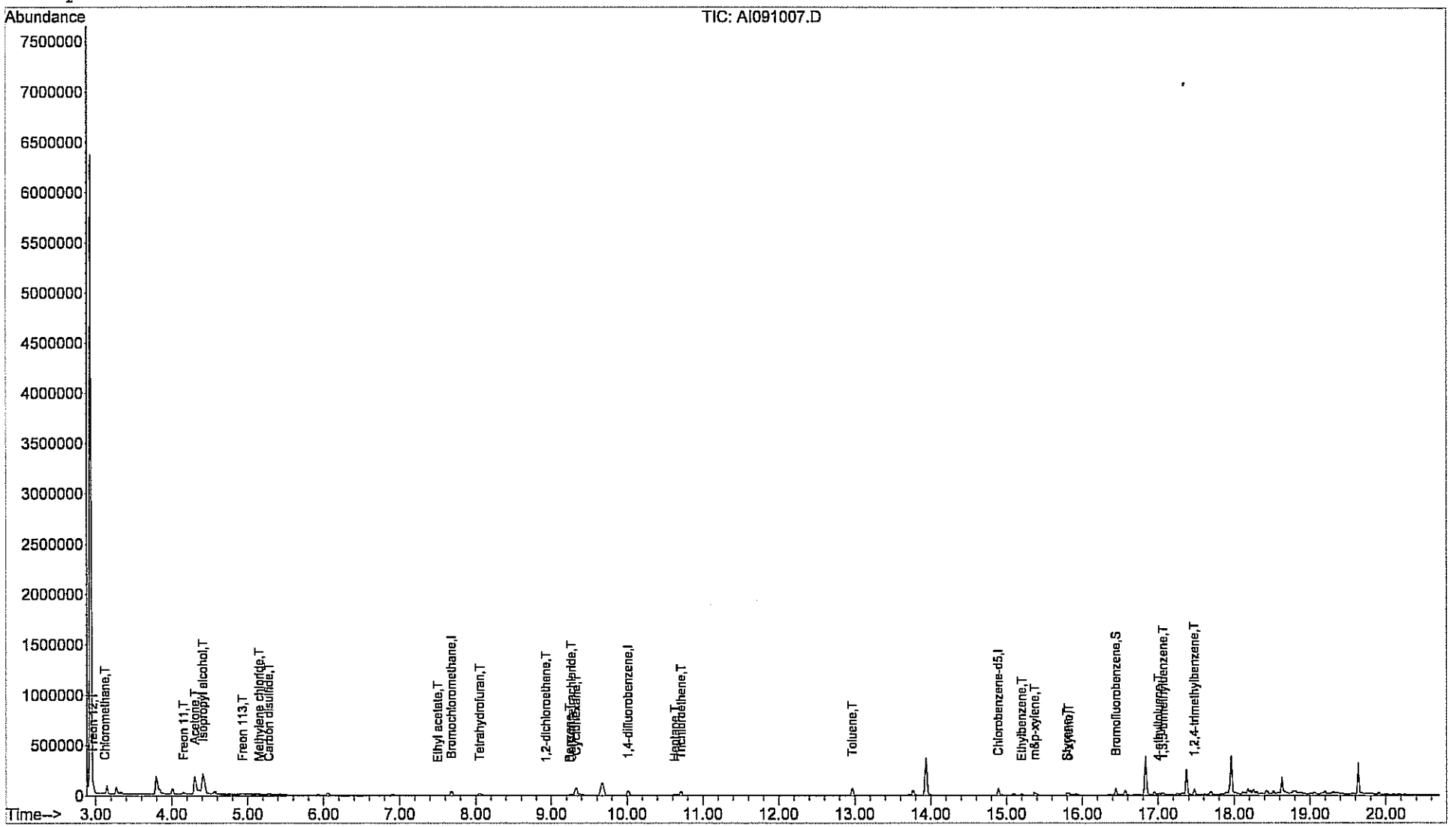
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	13849	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.01	114	43808	1.00	ppb		-0.01
47) Chlorobenzene-d5	14.89	117	40724	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	21347	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	35201	0.59	ppb		98
4) Chloromethane	3.12	50	8410	0.57	ppb		87
13) Freon 11	4.16	101	14063	0.31	ppb		99
14) Acetone	4.30	58	80711	16.51	ppb		92
15) Isopropyl alcohol	4.41	45	248010	24.83	ppb	#	100
17) Freon 113	4.93	101	4100	0.13	ppb		95
18) Methylene chloride	5.16	84	1828	0.15	ppb		92
20) Carbon disulfide	5.28	76	9691	0.25	ppb		96
28) Ethyl acetate	7.50	43	10029	0.51	ppb		99
30) Tetrahydrofuran	8.05	42	12386m	1.43	ppb		
31) 1,2-dichloroethane	8.92	62	3203	0.12	ppb		94
34) Cyclohexane	9.33	56	42601	2.97	ppb	#	62
35) Carbon tetrachloride	9.26	117	5443	0.12	ppb		98
36) Benzene	9.23	78	5365	0.14	ppb		96
40) Heptane	10.62	43	4272	0.31	ppb	#	49
41) Trichloroethene	10.72	130	16128	0.70	ppb		93
48) Toluene	12.97	92	31305	1.18	ppb		92
55) Ethylbenzene	15.20	91	11075	0.20	ppb		97
56) m&p-xylene	15.36	91	24235	0.54	ppb		98
57) Styrene	15.80	104	6207	0.23	ppb		97
59) o-xylene	15.82	91	10651	0.21	ppb		96
63) 4-ethyltoluene	17.01	105	8451	0.20	ppb		96
64) 1,3,5-trimethylbenzene	17.07	105	11337	0.24	ppb		79
65) 1,2,4-trimethylbenzene	17.48	105	25240	0.67	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

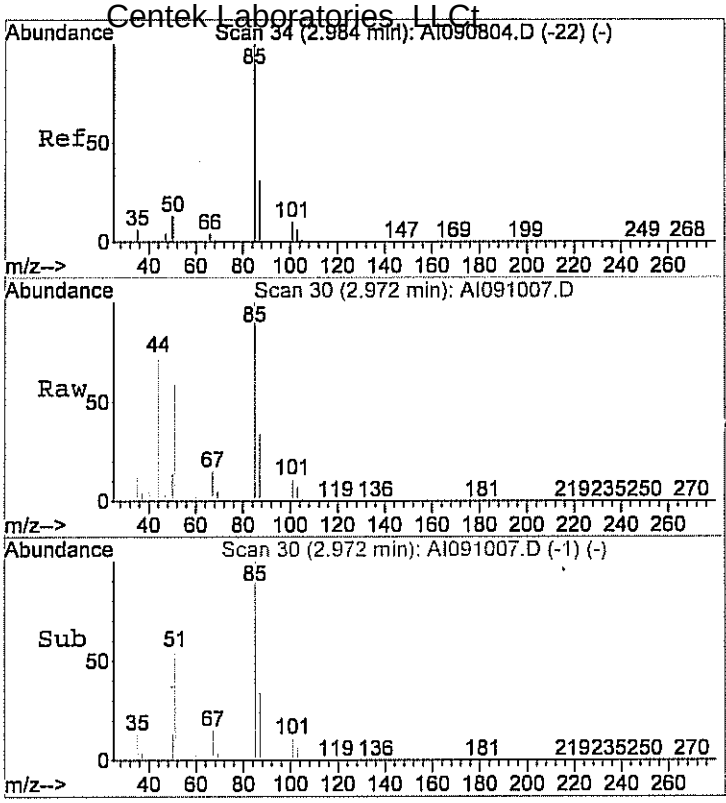
Data File : C:\HPCHEM\1\DATA\AI091007.D Vial: 7
Acq On : 10 Sep 2011 12:36 pm Operator: RJP
Sample : C1109015-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 10:01 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



AI091007.D A826_1UG.M Tue Oct 11 10:41:19 2011 MSD1 Page 2

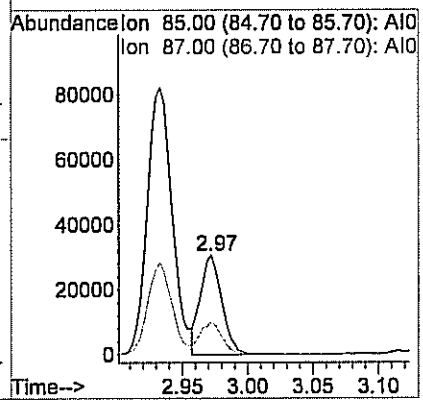
Centek Laboratories, LLCt

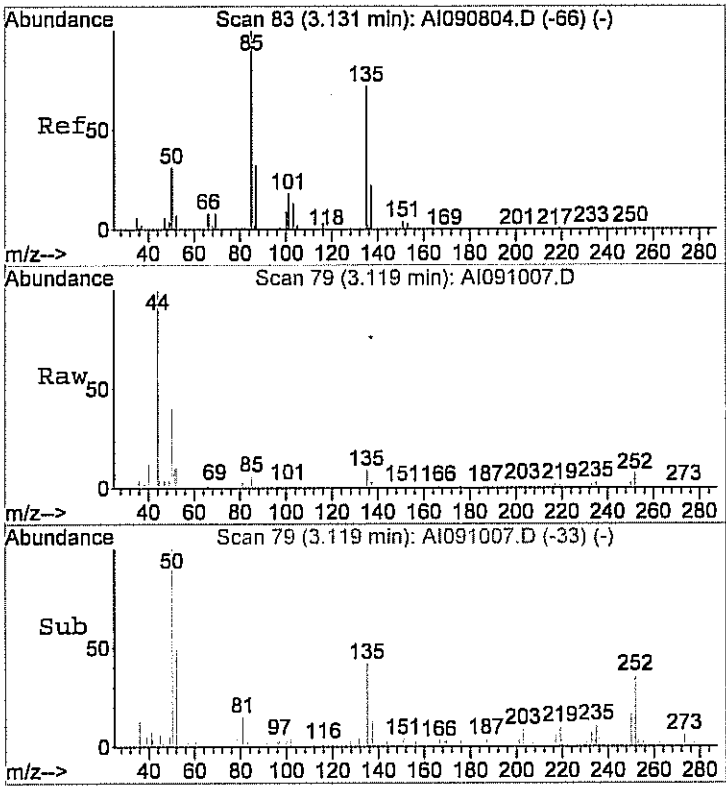


#3
Freon 12
Concen: 0.59 ppb
RT: 2.97 min Scan# 30
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 85 Resp: 35201

Ion	Ratio	Lower	Upper
85	100		
87	33.5	12.2	52.2

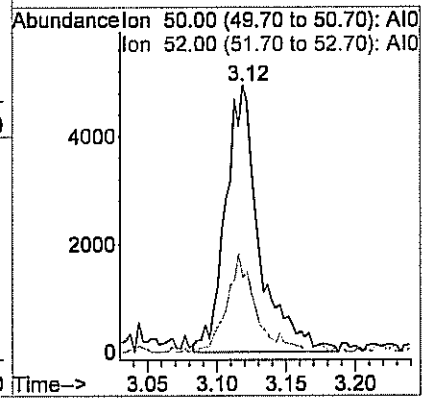


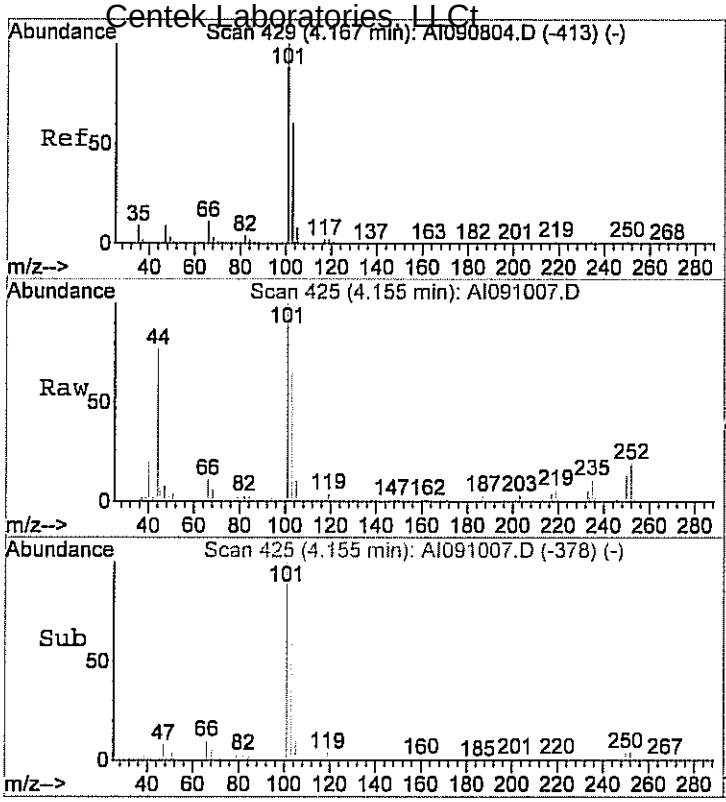


#4
Chloromethane
Concen: 0.57 ppb
RT: 3.12 min Scan# 79
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 50 Resp: 8410

Ion	Ratio	Lower	Upper
50	100		
52	30.7	4.1	44.1

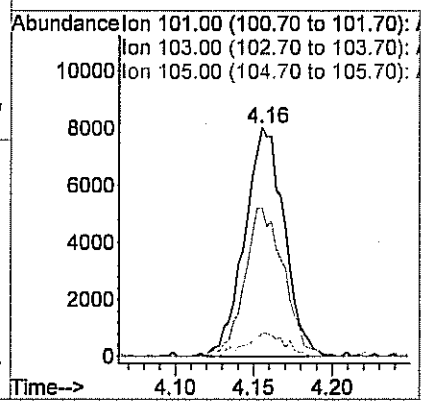


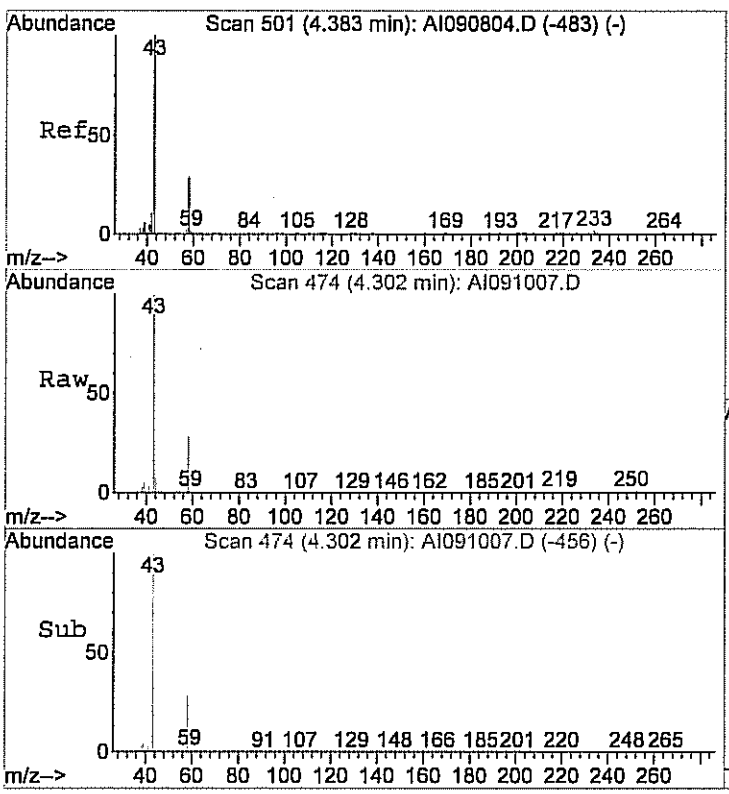


#13
Freon 11
Concen: 0.31 ppb
RT: 4.16 min Scan# 425
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:101 Resp: 14063

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.9	84.9
105	10.2	0.0	30.9

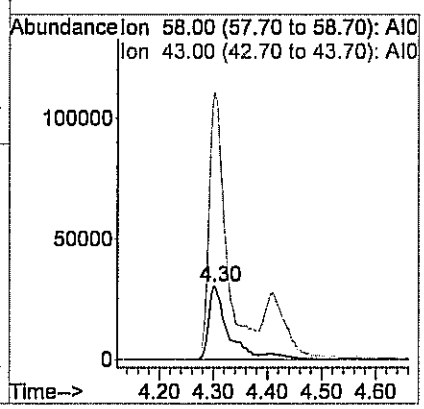


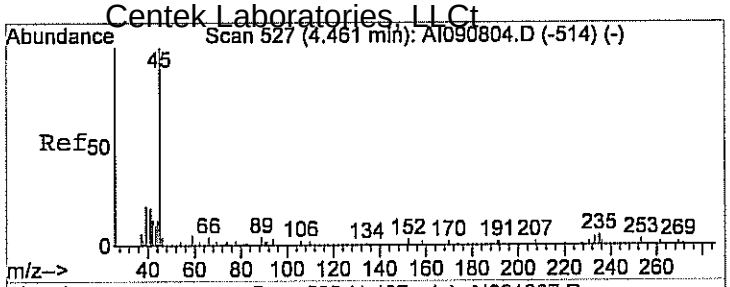


#14
Acetone
Concen: 16.51 ppb
RT: 4.30 min Scan# 474
Delta R.T. -0.10 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 58 Resp: 80711

Ion	Ratio	Lower	Upper
58	100		
43	408.8	360.8	420.8

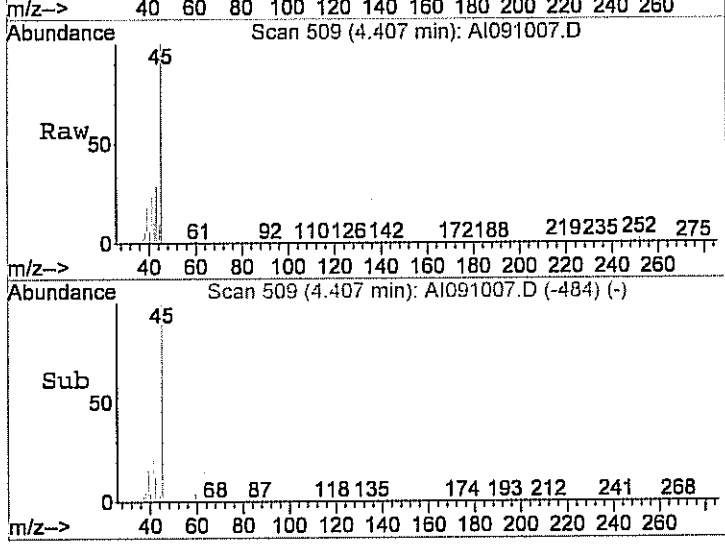


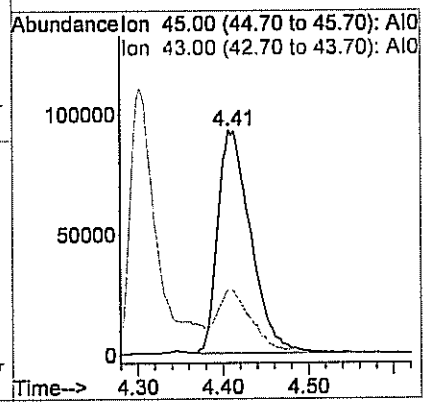


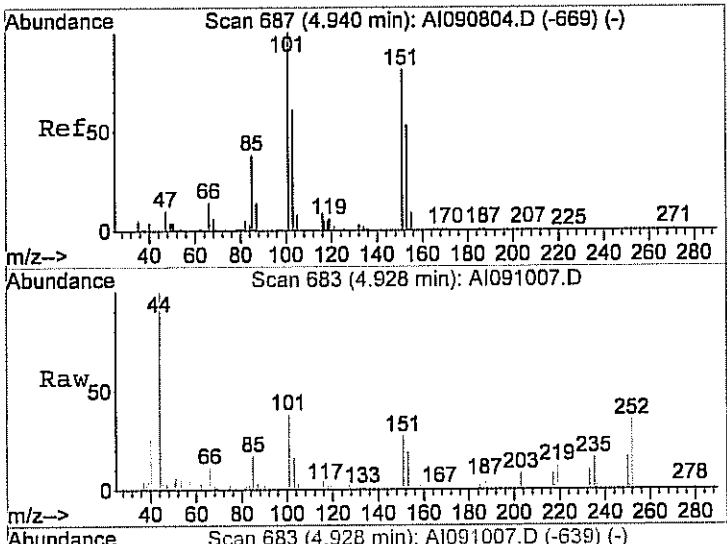
#15
Isopropyl alcohol
Concen: 24.83 ppb
RT: 4.41 min Scan# 509
Delta R.T. -0.07 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 45 Resp: 248010

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



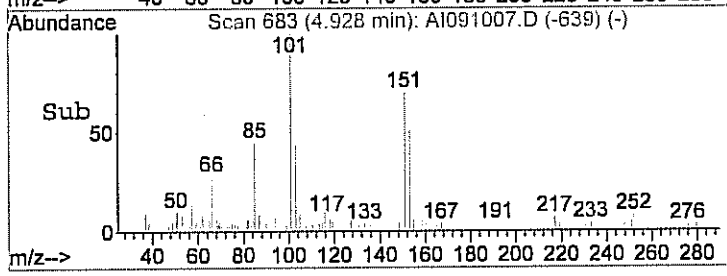


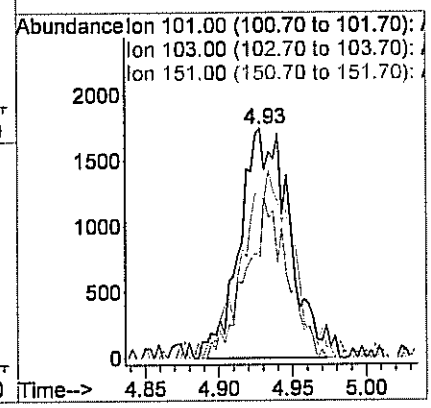


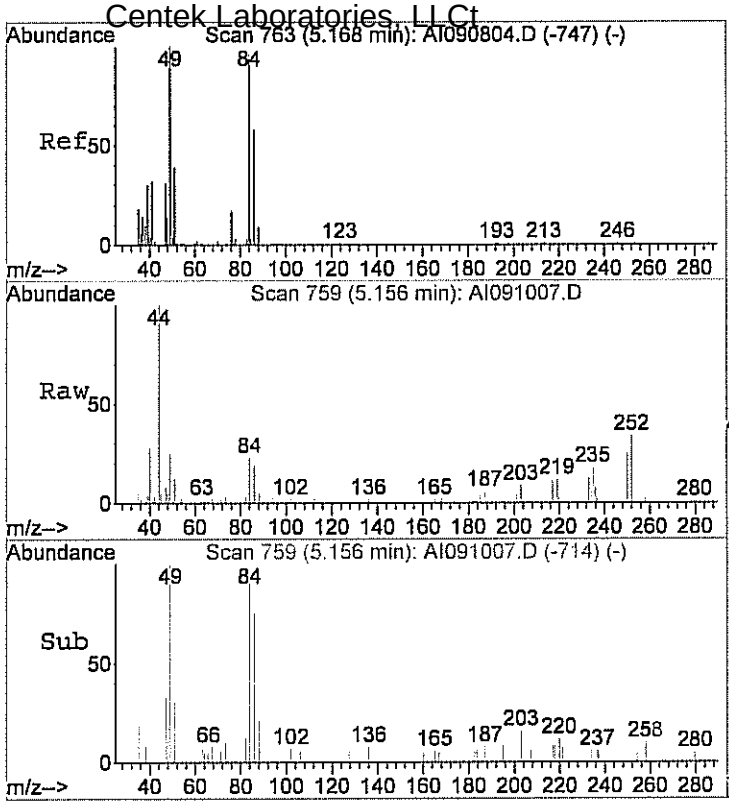
#17
Freon 113
Concen: 0.13 ppb
RT: 4.93 min Scan# 683
Delta R.T. -0.02 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:101 Resp: 4100

Ion	Ratio	Lower	Upper
101	100		
103	56.7	44.3	84.3
151	80.0	61.0	101.0



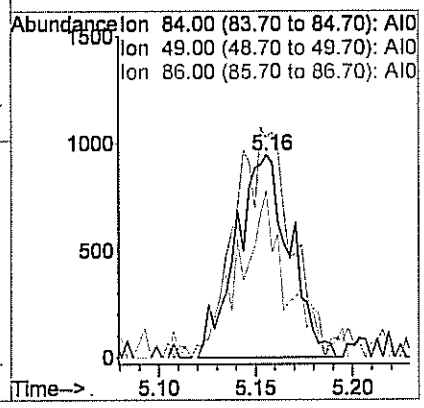


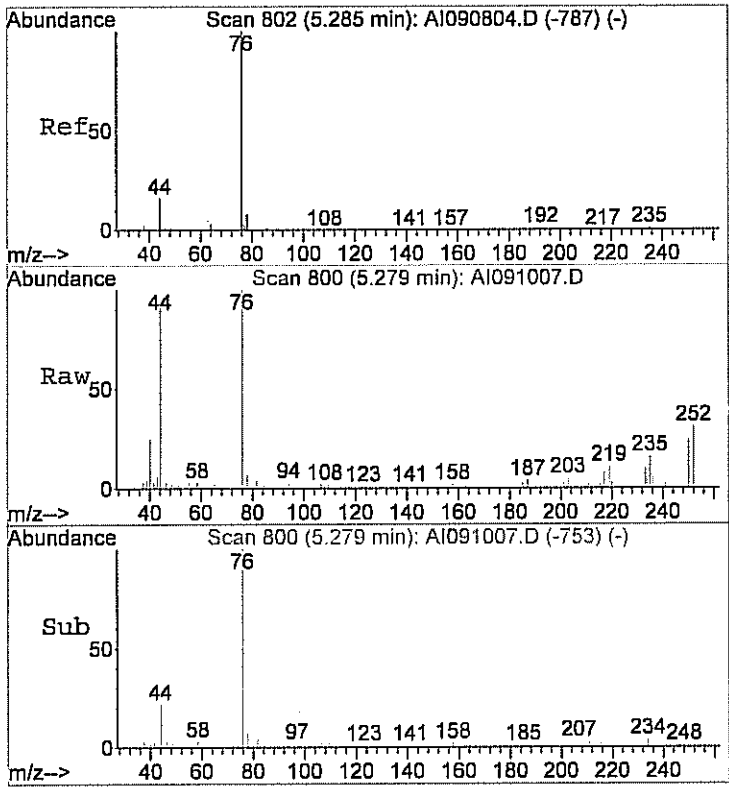


#18
Methylene chloride
Concen: 0.15 ppb
RT: 5.16 min Scan# 759
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 84 Resp: 1828

Ion	Ratio	Lower	Upper
84	100		
49	124.5	116.9	156.9
86	69.7	46.7	86.7

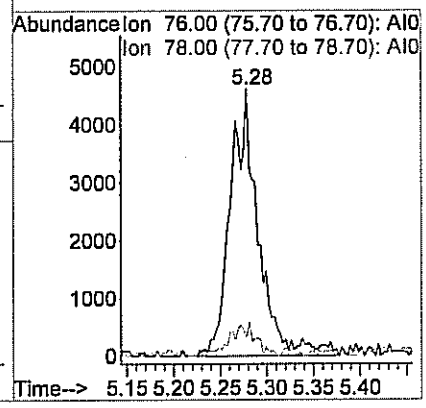


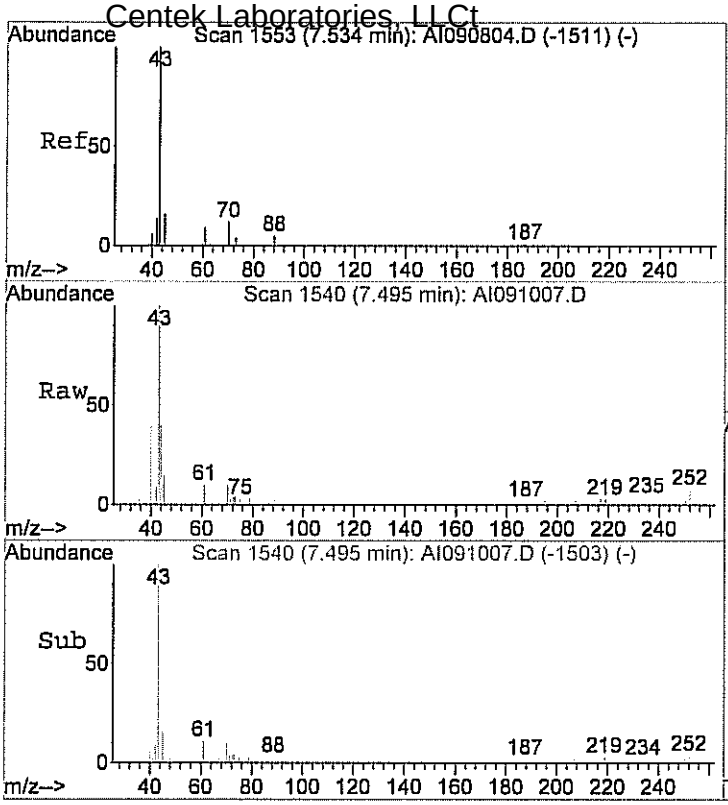


#20
Carbon disulfide
Concen: 0.25 ppb
RT: 5.28 min Scan# 800
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 76 Resp: 9691

Ion	Ratio	Lower	Upper
76	100		
78	11.0	0.0	29.6

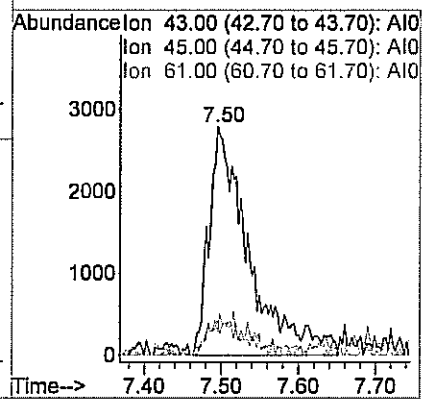


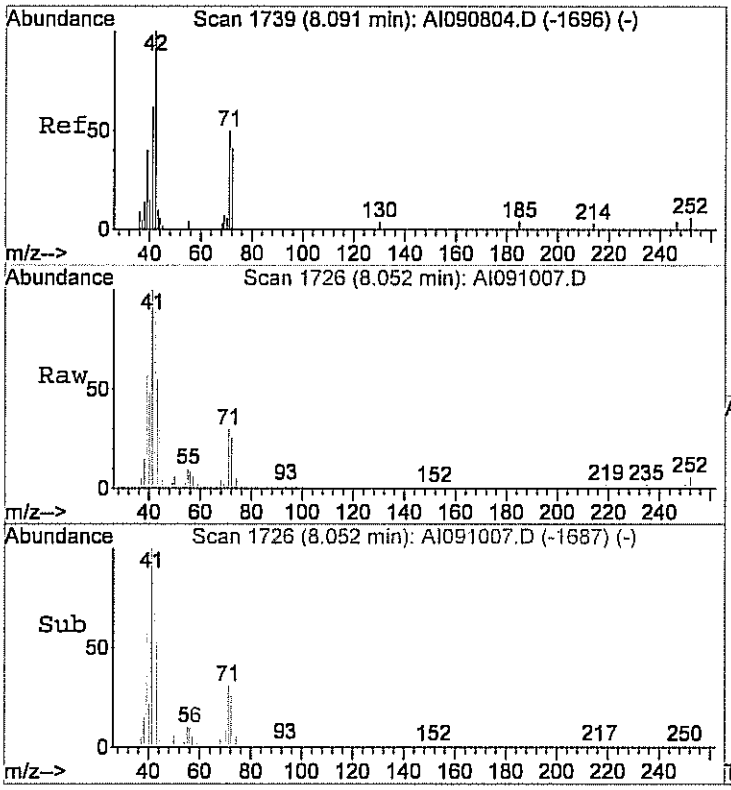


#28
Ethyl acetate
Concen: 0.51 ppb
RT: 7.50 min Scan# 1540
Delta R.T. -0.04 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 43 Resp: 10029

Ion	Ratio	Lower	Upper
43	100		
45	15.3	0.0	34.5
61	13.7	0.0	34.0

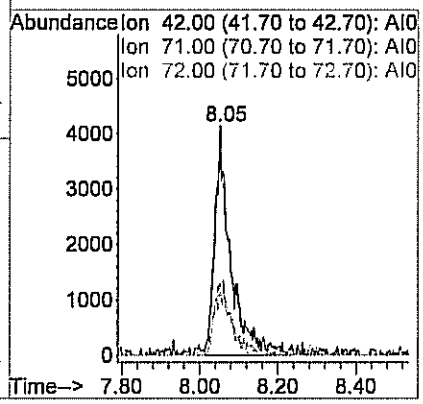


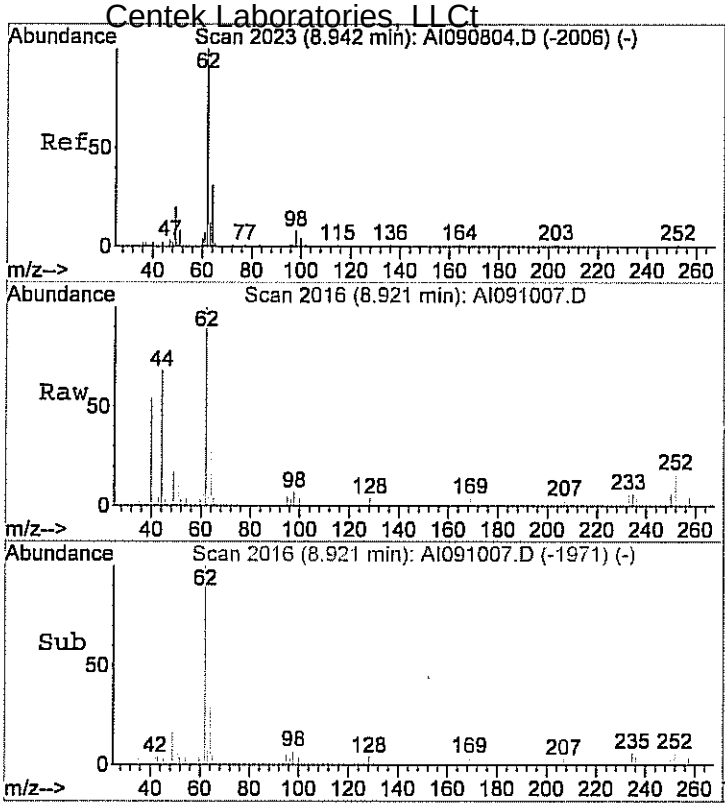


#30
Tetrahydrofuran
Concen: 1.43 ppb m
RT: 8.05 min Scan# 1726
Delta R.T. -0.03 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 42 Resp: 12386

Ion	Ratio	Lower	Upper
42	100		
71	31.4	24.6	64.6
72	30.8	26.5	66.5

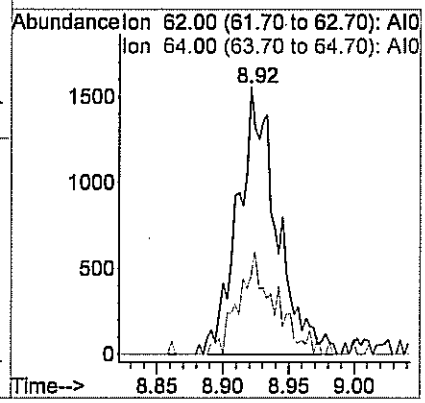


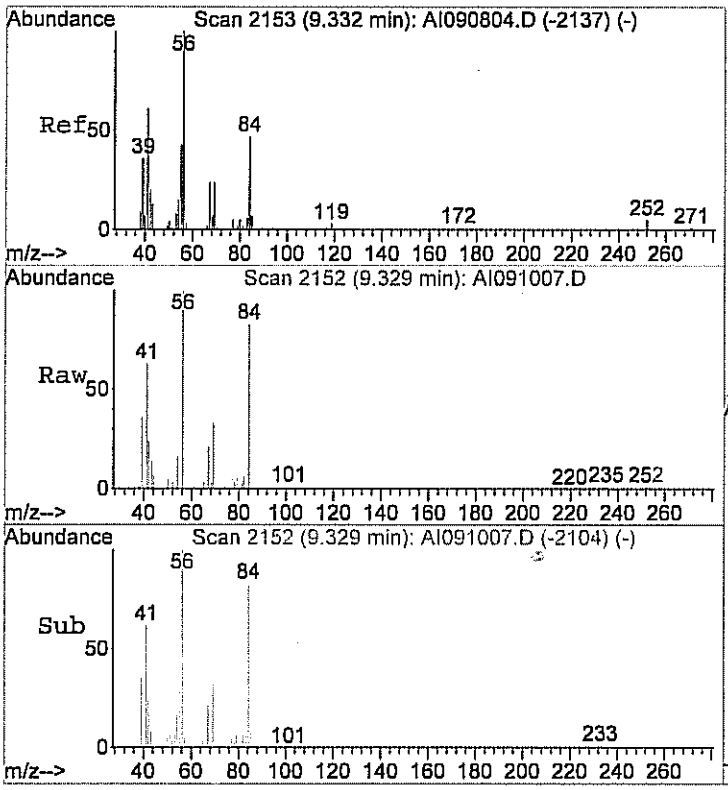


#31
1,2-dichloroethane
Concen: 0.12 ppb
RT: 8.92 min Scan# 2016
Delta R.T. -0.02 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 62 Resp: 3203

Ion	Ratio	Lower	Upper
62	100		
64	35.6	12.2	52.2

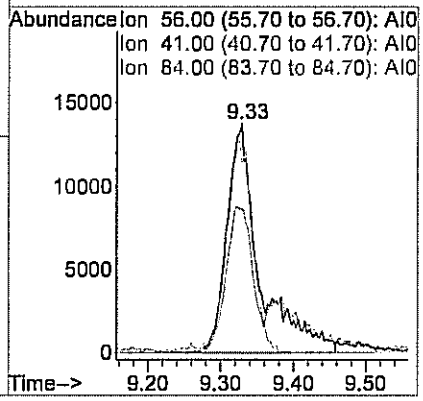


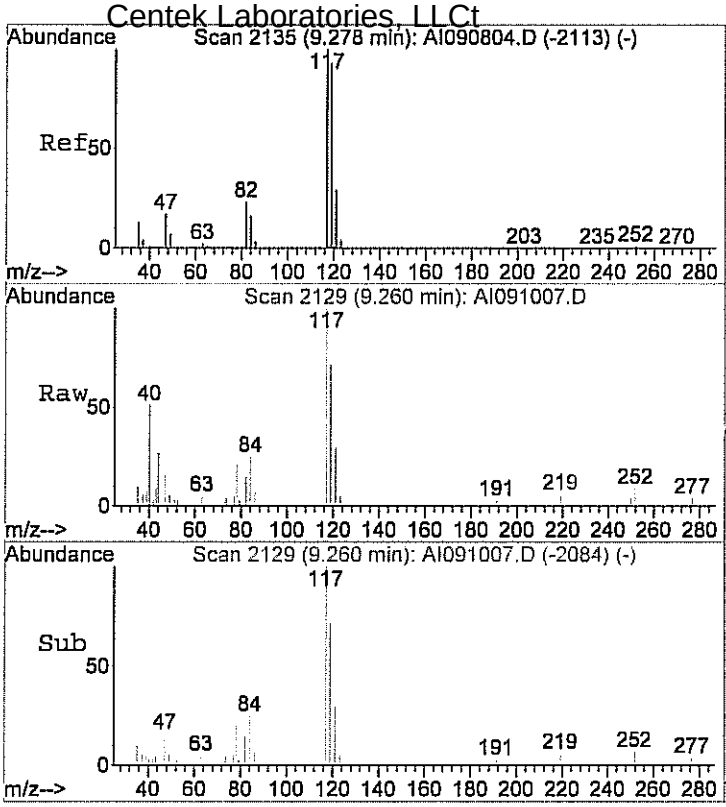


#34
Cyclohexane
Concen: 2.97 ppb
RT: 9.33 min Scan# 2152
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 56 Resp: 42601

Ion	Ratio	Lower	Upper
56	100		
41	78.2	49.1	89.1
84	73.6	114.6	154.6#

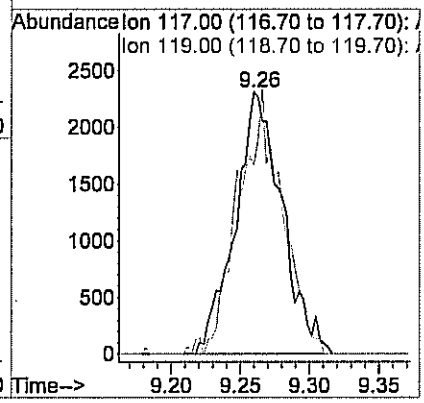


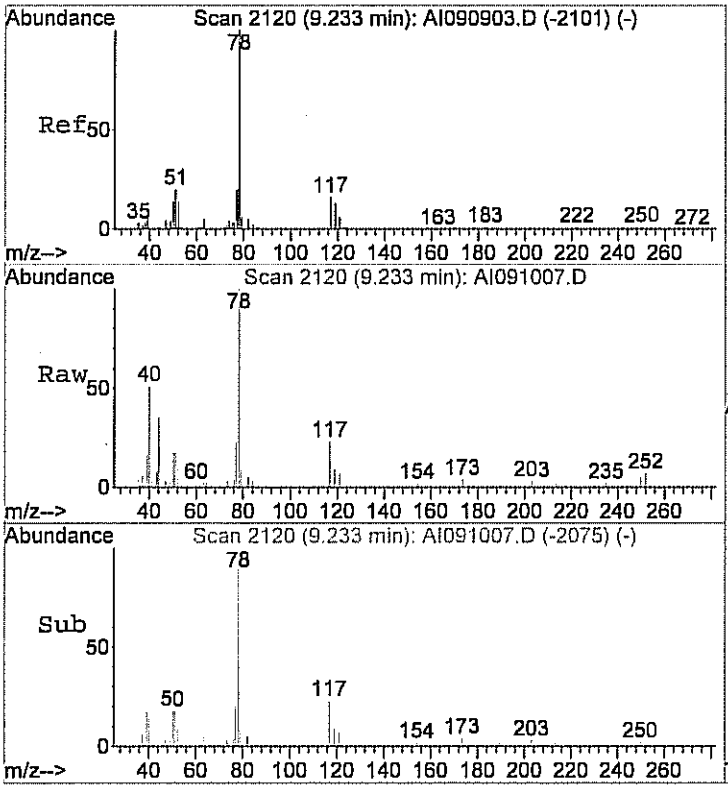


#35
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.26 min Scan# 2129
Delta R.T. -0.02 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:117 Resp: 5443

Ion	Ratio	Lower	Upper
117	100		
119	94.7	77.2	117.2

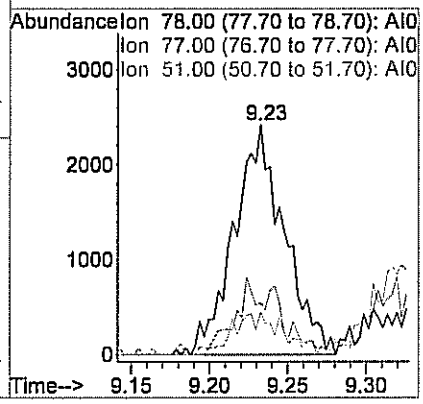


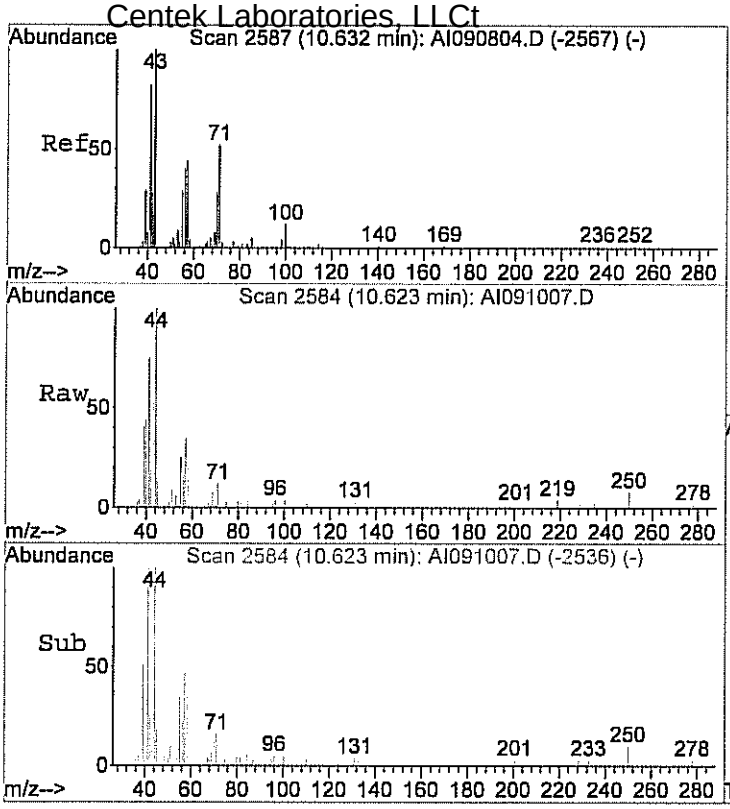


#36
Benzene
Concen: 0.14 ppb
RT: 9.23 min Scan# 2120
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 78 Resp: 5365

Ion	Ratio	Lower	Upper
78	100		
77	28.5	5.2	45.2
51	17.0	0.0	37.6

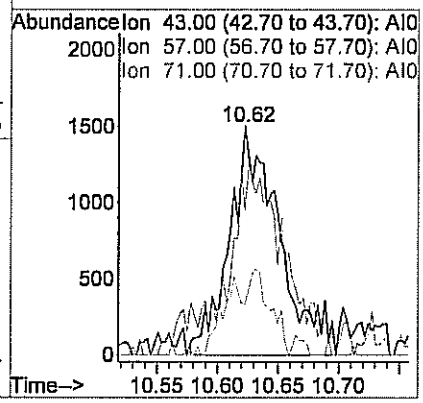


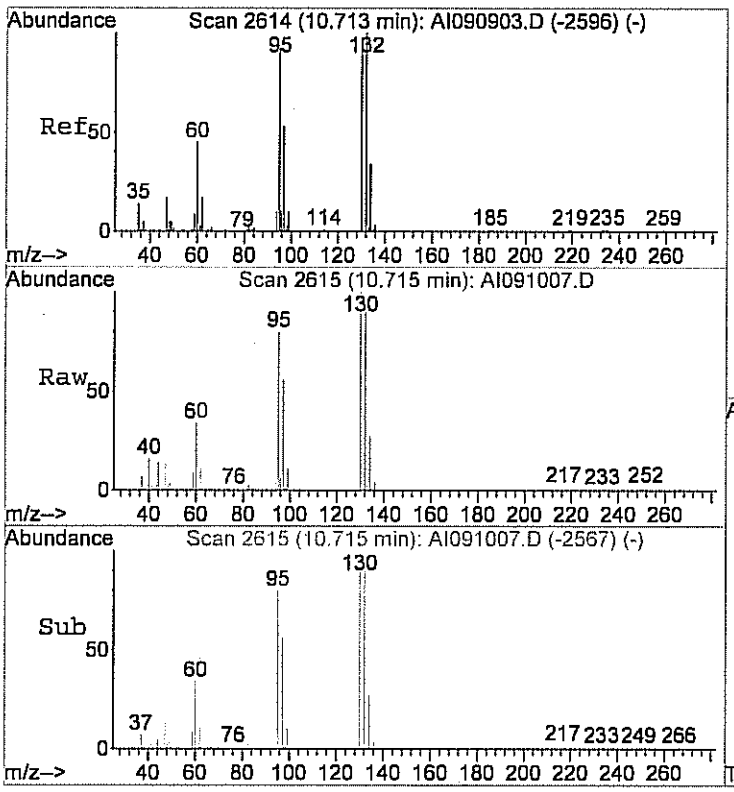


#40
Heptane
Concen: 0.31 ppb
RT: 10.62 min Scan# 2584
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 43 Resp: 4272

Ion	Ratio	Lower	Upper
43	100		
57	99.9	32.1	72.1#
71	30.5	35.5	75.5#

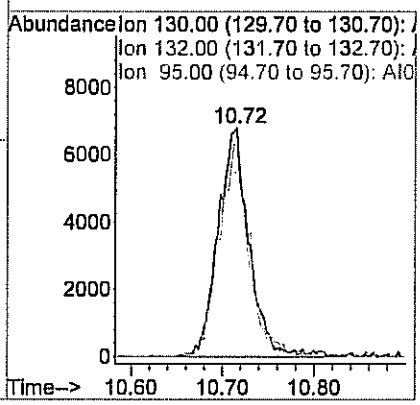


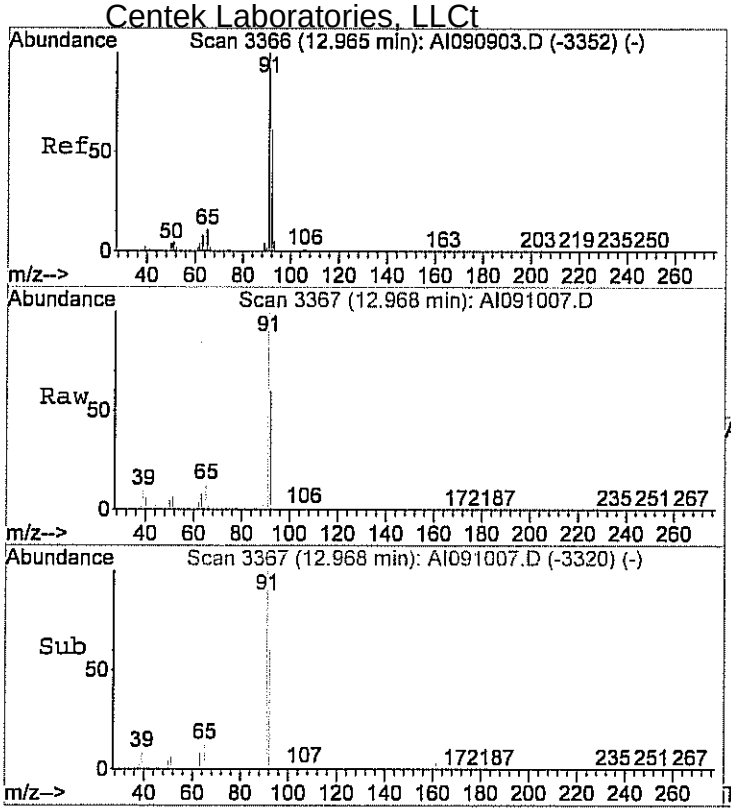


#41
Trichloroethene
Concen: 0.70 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:130 Resp: 16128

Ion	Ratio	Lower	Upper
130	100		
132	91.7	79.0	119.0
95	90.4	76.8	116.8

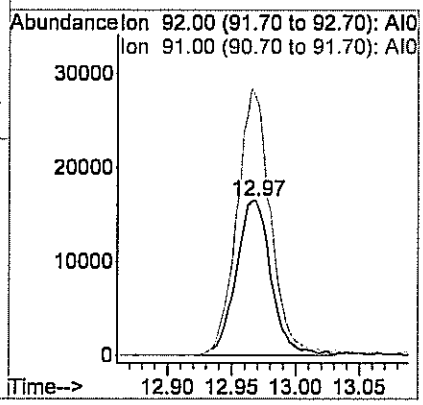


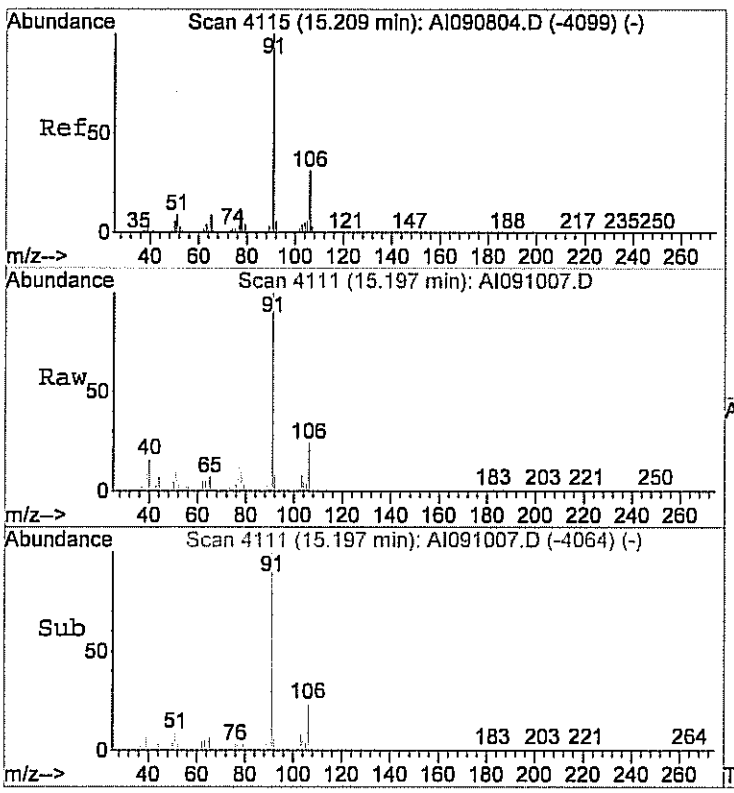


#48
Toluene
Concen: 1.18 ppb
RT: 12.97 min Scan# 3367
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 92 Resp: 31305

Ion	Ratio	Lower	Upper
92	100		
91	168.0	159.8	199.8

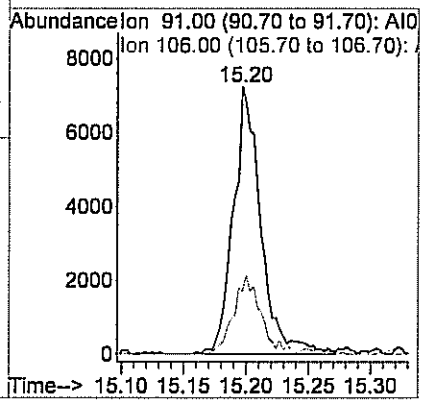


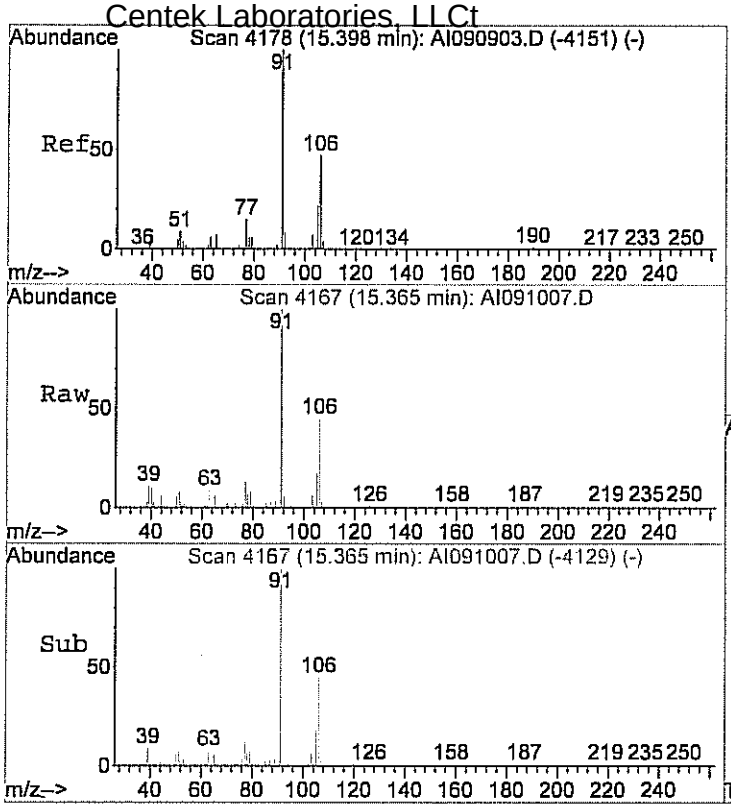


#55
Ethylbenzene
Concen: 0.20 ppb
RT: 15.20 min Scan# 4111
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 91 Resp: 11075

Ion	Ratio	Lower	Upper
91	100		
106	29.1	10.7	50.7

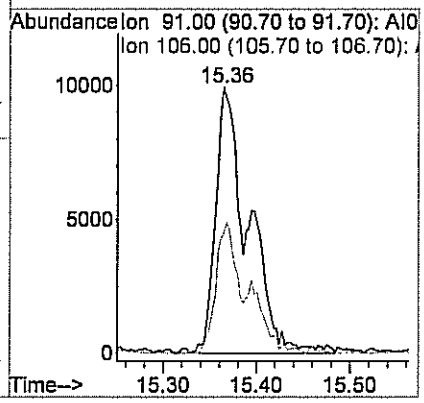


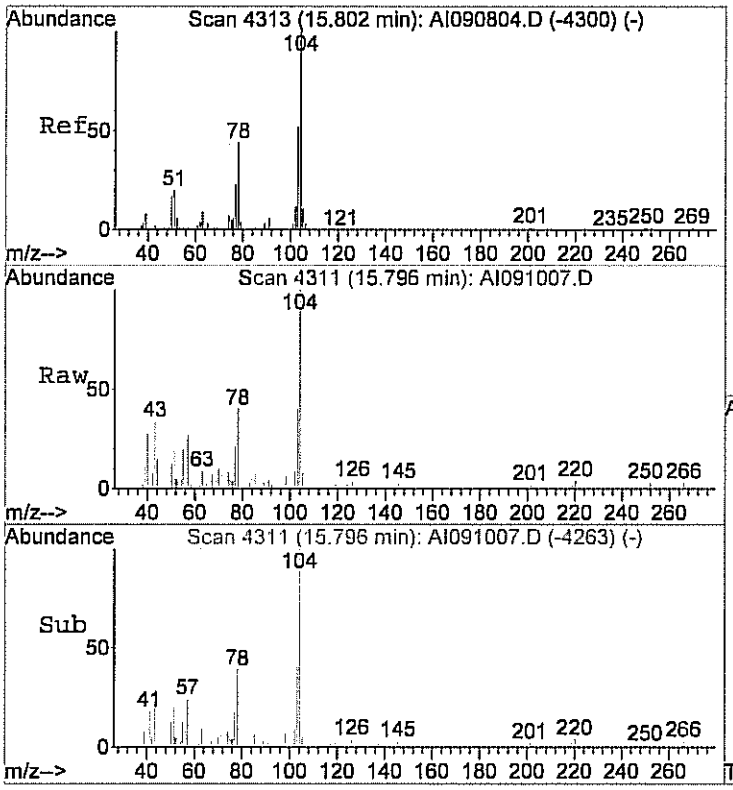


#56
m&p-xylene
Concen: 0.54 ppb
RT: 15.36 min Scan# 4167
Delta R.T. -0.04 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 91 Resp: 24235

Ion	Ratio	Lower	Upper
91	100		
106	46.2	27.5	67.5

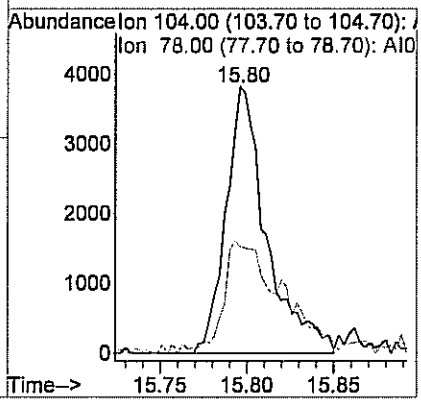


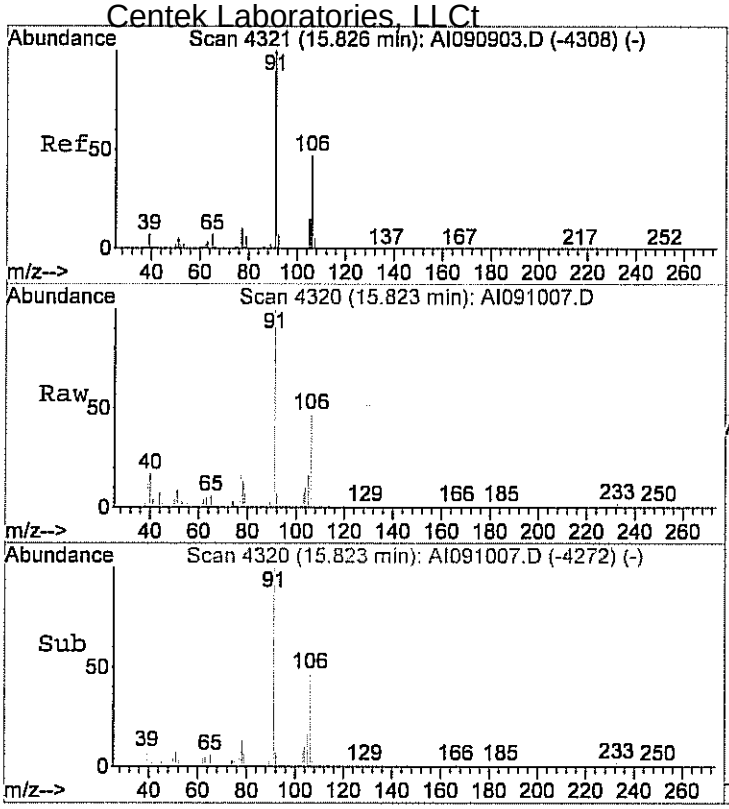


#57
Styrene
Concen: 0.23 ppb
RT: 15.80 min Scan# 4311
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:104 Resp: 6207

Ion	Ratio	Lower	Upper
104	100		
78	54.6	36.7	76.7

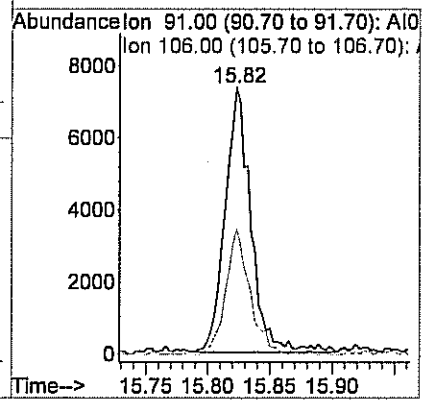


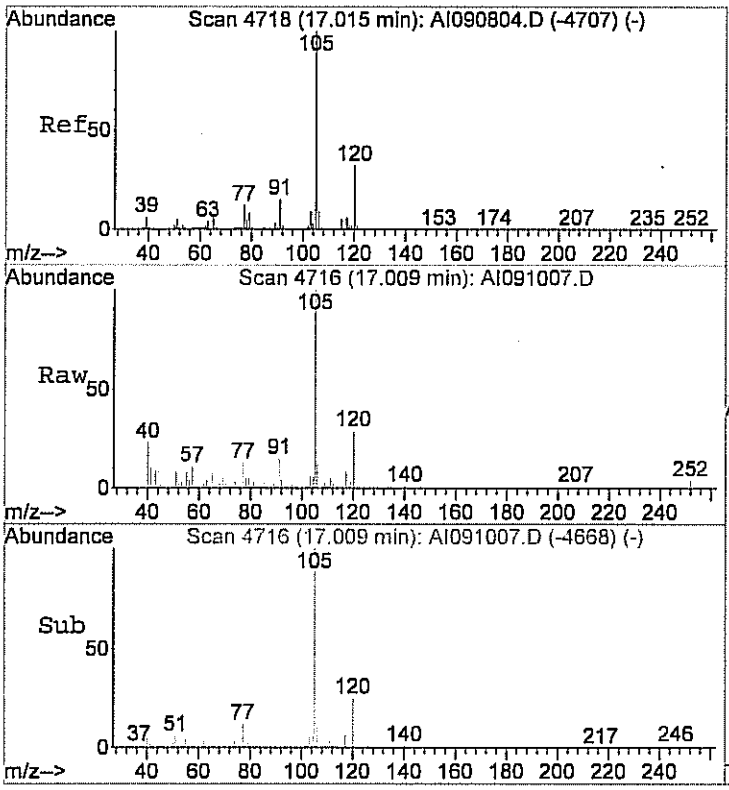


#59
o-xylene
Concen: 0.21 ppb
RT: 15.82 min Scan# 4320
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion: 91 Resp: 10651

Ion	Ratio	Lower	Upper
91	100		
106	43.9	26.2	66.2

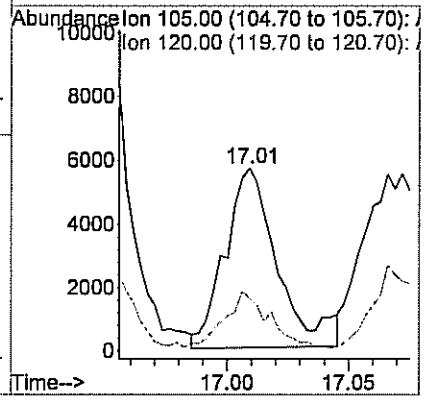


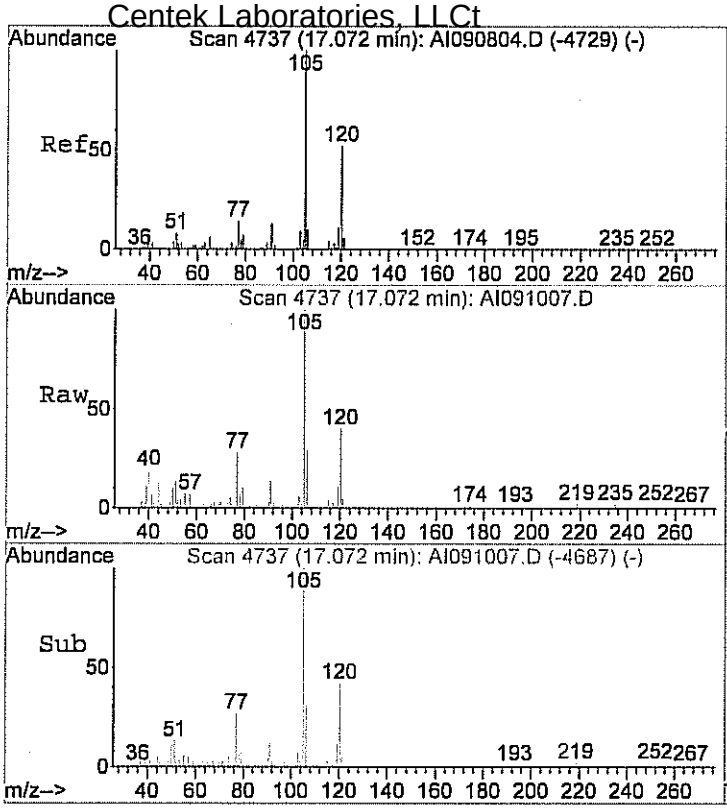


#63
4-ethyltoluene
Concen: 0.20 ppb
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:105 Resp: 8451

Ion	Ratio	Lower	Upper
105	100		
120	30.0	8.1	48.1

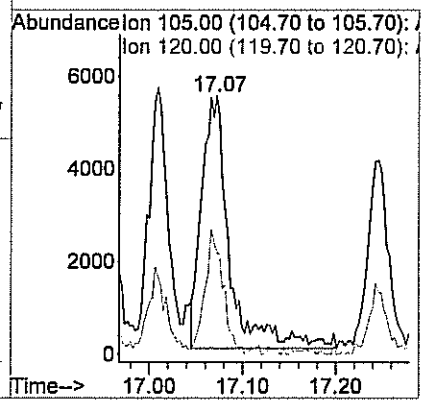


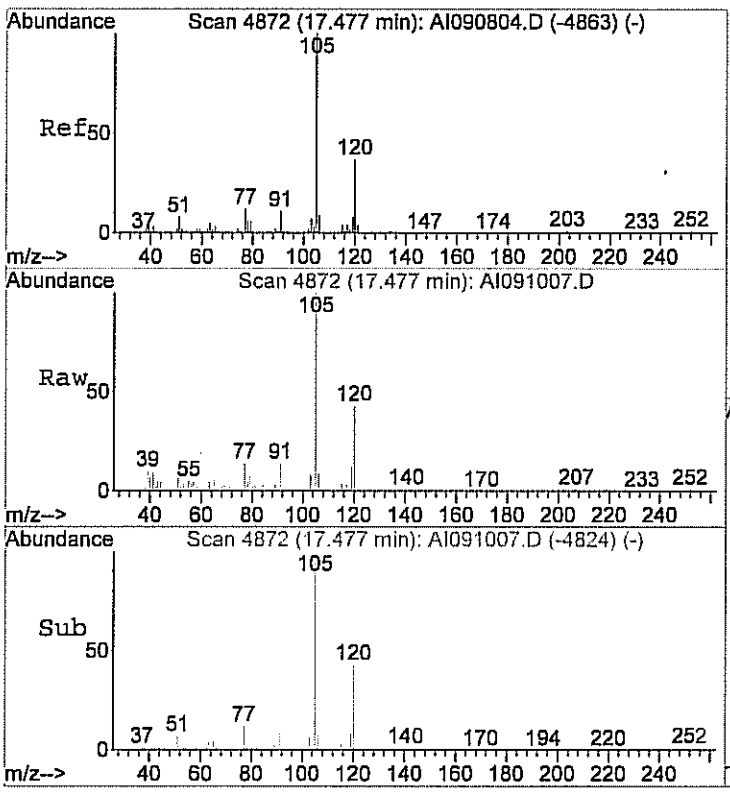


#64
1,3,5-trimethylbenzene
Concen: 0.24 ppb
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:105 Resp: 11337

Ion	Ratio	Lower	Upper
105	100		
120	32.1	26.2	66.2

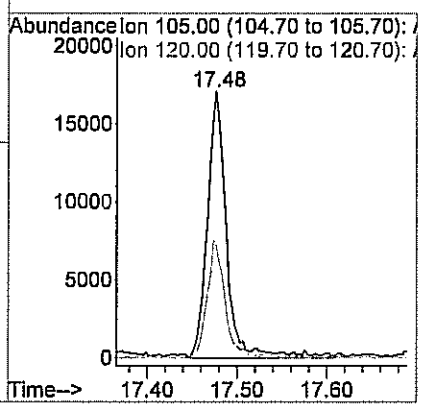




#65
1,2,4-trimethylbenzene
Concen: 0.67 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI091007.D
Acq: 10 Sep 2011 12:36 pm

Tgt Ion:105 Resp: 25240

Ion	Ratio	Lower	Upper
105	100		
120	40.5	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091013.D Vial: 13
Acq On : 10 Sep 2011 3:57 pm Operator: RJP
Sample : C1109015-002A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 16:18:18 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	14116	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.02	114	40884	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	33911	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	14692	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
14) Acetone	4.35	58	8060	1.62	ppb		93
15) Isopropyl alcohol	4.44	45	27705	2.72	ppb	#	100
34) Cyclohexane	9.32	56	2826	0.21	ppb	#	71

(#) = qualifier out of range (m) = manual integration (+) = signals summed

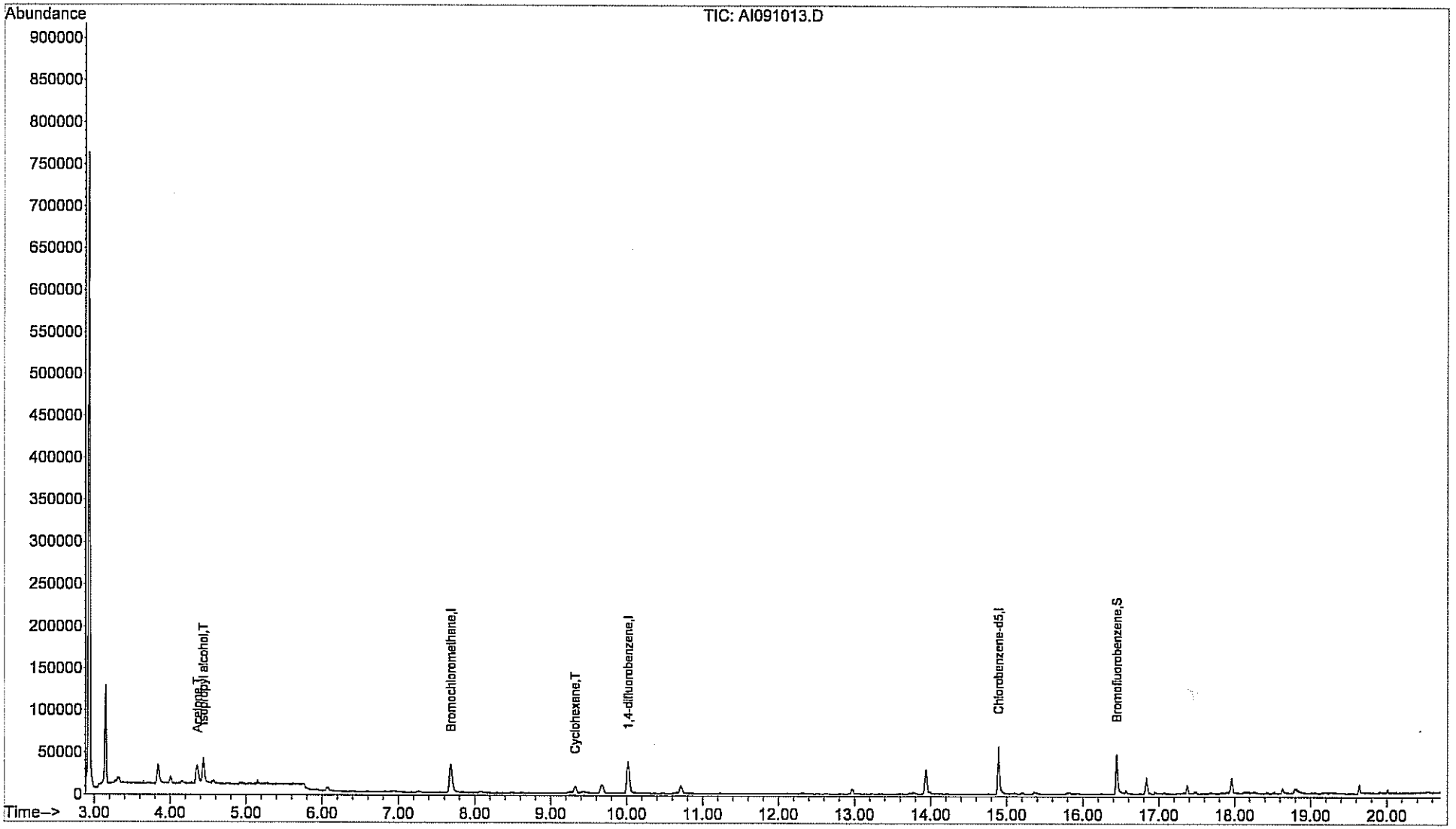
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091013.D
Acq On : 10 Sep 2011 3:57 pm
Sample : C1109015-002A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 14 16:34 2011

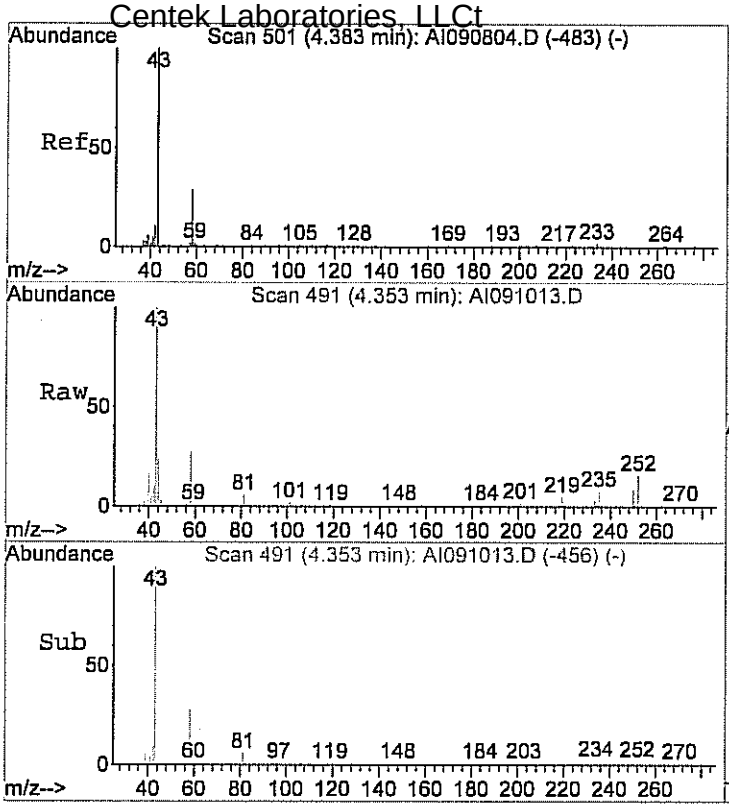
Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



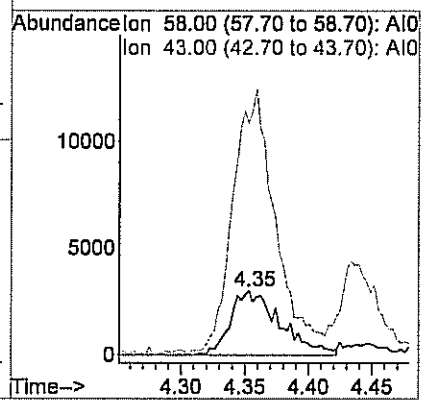
Centek Laboratories, LLCt

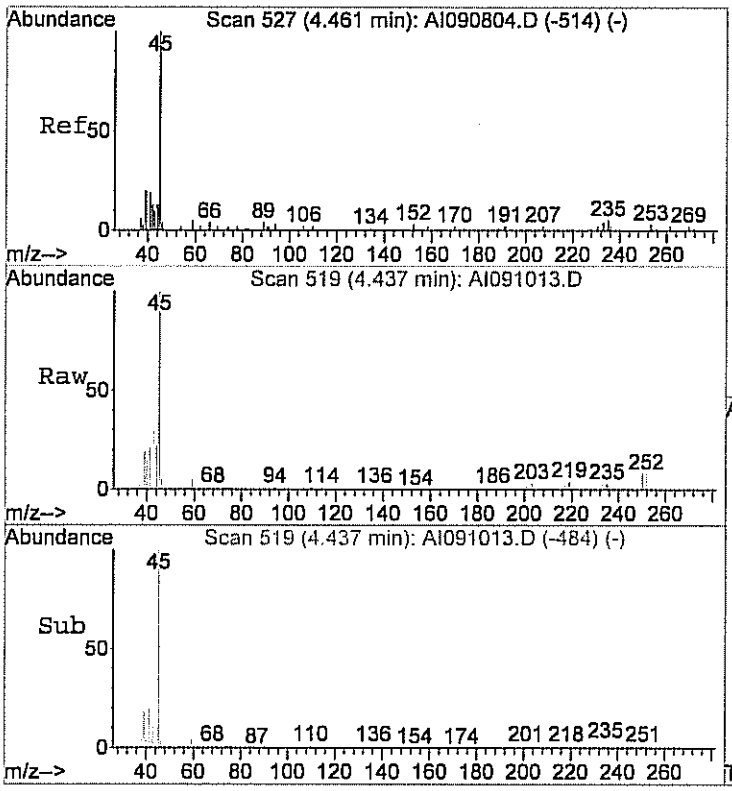


#14
Acetone
Concen: 1.62 ppb
RT: 4.35 min Scan# 491
Delta R.T. -0.04 min
Lab File: AI091013.D
Acq: 10 Sep 2011 3:57 pm

Tgt Ion: 58 Resp: 8060

Ion	Ratio	Lower	Upper
58	100		
43	374.8	360.8	420.8

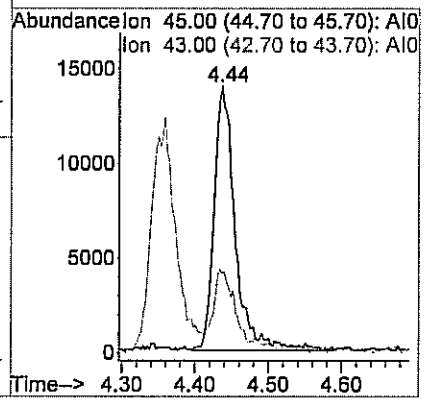


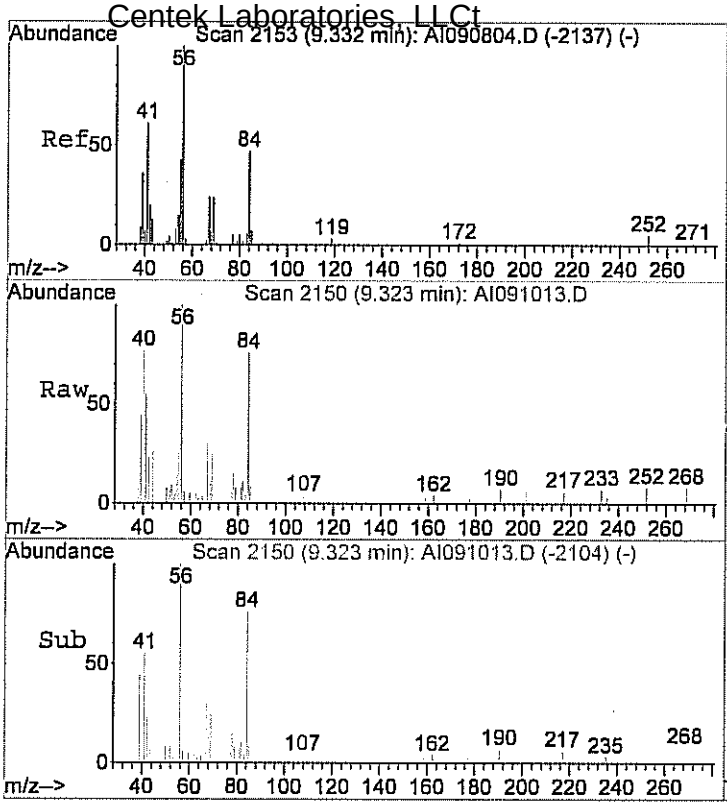


#15
Isopropyl alcohol
Concen: 2.72 ppb
RT: 4.44 min Scan# 519
Delta R.T. -0.04 min
Lab File: AI091013.D
Acq: 10 Sep 2011 3:57 pm

Tgt Ion: 45 Resp: 27705

Ion	Ratio	Lower	Upper
45	100		
43	34.1	0.0	20.0#

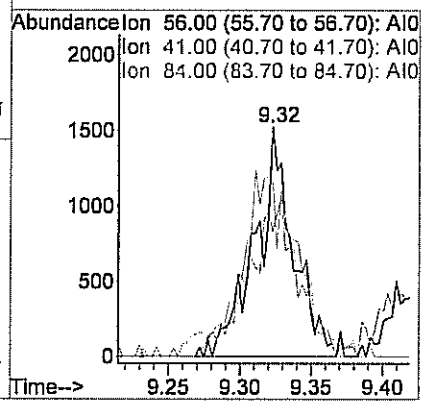




#34
Cyclohexane
Concen: 0.21 ppb
RT: 9.32 min Scan# 2150
Delta R.T. -0.01 min
Lab File: AI091013.D
Acq: 10 Sep 2011 3:57 pm

Tgt Ion: 56 Resp: 2826

Ion	Ratio	Lower	Upper
56	100		
41	89.6	49.1	89.1#
84	97.8	114.6	154.6#



Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	0.42	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.14	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.13	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Acetone	12	3.0		ppbV	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.13	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloromethane	0.46	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Cyclohexane	0.99	0.15		ppbV	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 11	0.29	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 113	0.12	0.15	J	ppbV	1	9/10/2011 1:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 1:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	5.0	1.5		ppbV	10	9/10/2011 4:30:00 PM
m&p-Xylene	0.39	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	0.68	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Methylene chloride	0.27	0.15		ppbV	1	9/10/2011 1:10:00 PM
o-Xylene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Styrene	0.16	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	0.59	0.15		ppbV	1	9/10/2011 1:10:00 PM
Toluene	0.82	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Trichloroethene	1.8	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	2.1	0.75		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.70	0.75	J	ug/m3	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	9/10/2011 1:10:00 PM
Acetone	30	7.2		ug/m3	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:10:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.83	0.96	J	ug/m3	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:10:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:10:00 PM
Chloromethane	0.97	0.31		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:10:00 PM
Freon 113	0.93	1.2	J	ug/m3	1	9/10/2011 1:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 1:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	12	3.7		ug/m3	10	9/10/2011 4:30:00 PM
m&p-Xylene	1.7	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:10:00 PM
Methylene chloride	0.95	0.53		ug/m3	1	9/10/2011 1:10:00 PM
o-Xylene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:10:00 PM
Styrene	0.69	0.65		ug/m3	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	1.8	0.45		ug/m3	1	9/10/2011 1:10:00 PM
Toluene	3.1	0.57		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Trichloroethene	10	0.82		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091008.D Vial: 8
Acq On : 10 Sep 2011 1:10 pm Operator: RJP
Sample : C1109015-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 13:31:27 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	14427	1.00	ppb		-0.01
32) 1,4-difluorobenzene	10.02	114	43809	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	39400	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	19884	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	35098	0.57	ppb		99
4) Chloromethane	3.12	50	7174	0.46	ppb		87
13) Freon 11	4.16	101	13783	0.29	ppb		99
14) Acetone	4.32	58	47533	9.33	ppb		91
15) Isopropyl alcohol	4.43	45	38859	3.74	ppb	#	100
17) Freon 113	4.93	101	4039	0.12	ppb		95
18) Methylene chloride	5.15	84	3553	0.27	ppb	#	84
20) Carbon disulfide	5.28	76	12252	0.30	ppb		96
25) Methyl Ethyl Ketone	6.94	72	3223	0.68	ppb	#	100
30) Tetrahydrofuran	8.08	42	5301	0.59	ppb		97
31) 1,2-dichloroethane	8.94	62	4128	0.15	ppb		100
34) Cyclohexane	9.33	56	14235	0.99	ppb	#	76
35) Carbon tetrachloride	9.27	117	5637	0.13	ppb		100
36) Benzene	9.23	78	4674	0.12	ppb		95
41) Trichloroethene	10.71	130	41943	1.83	ppb		99
48) Toluene	12.96	92	21123	0.82	ppb		94
55) Ethylbenzene	15.20	91	8072	0.15	ppb		100
56) m&p-xylene	15.37	91	17006	0.39	ppb		100
57) Styrene	15.80	104	4113	0.16	ppb		94
59) o-xylene	15.83	91	7475	0.15	ppb		97
63) 4-ethyltoluene	17.01	105	5358	0.13	ppb		84
64) 1,3,5-trimethylbenzene	17.07	105	6513	0.14	ppb		79
65) 1,2,4-trimethylbenzene	17.48	105	15320	0.42	ppb		95

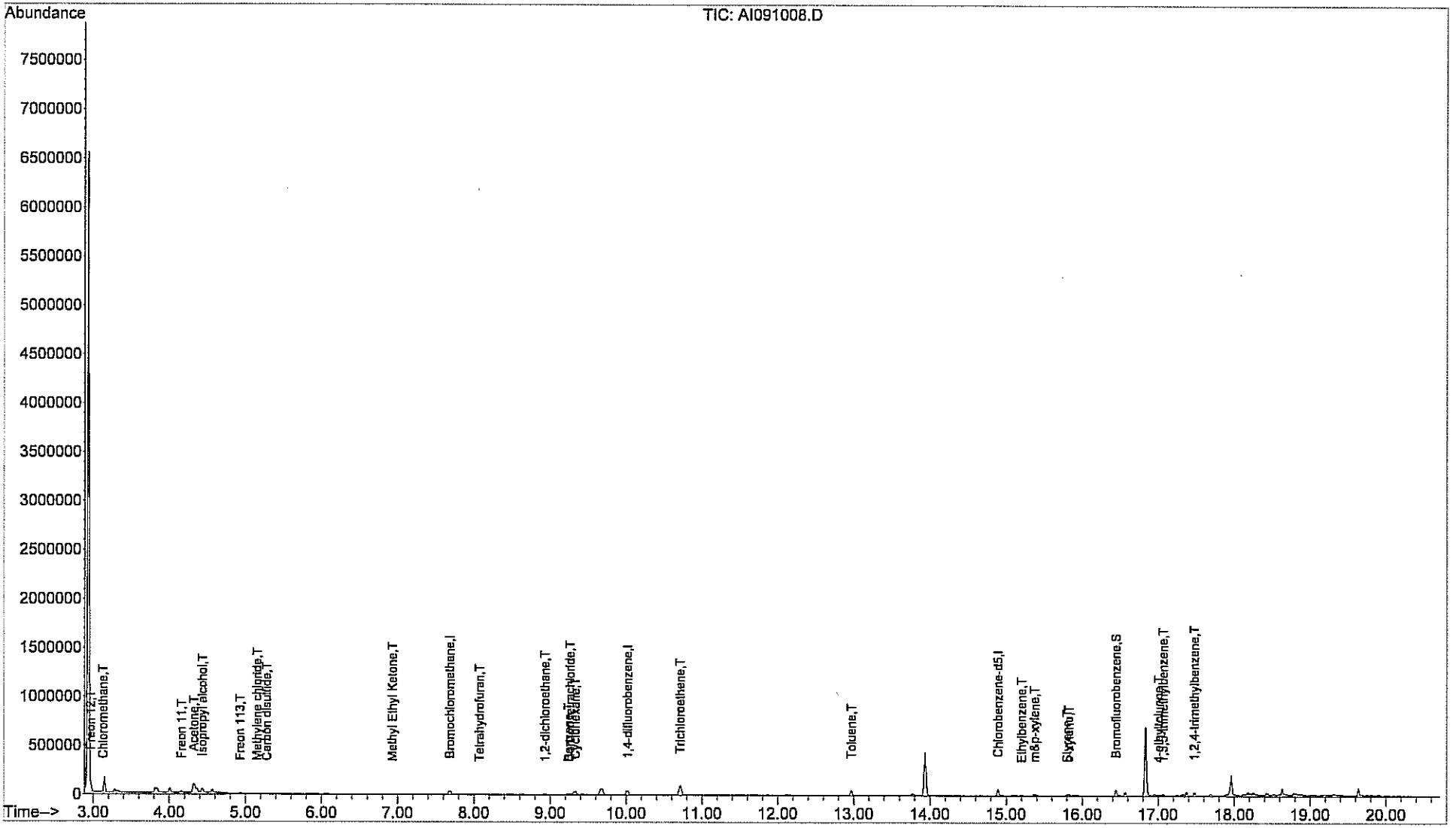
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

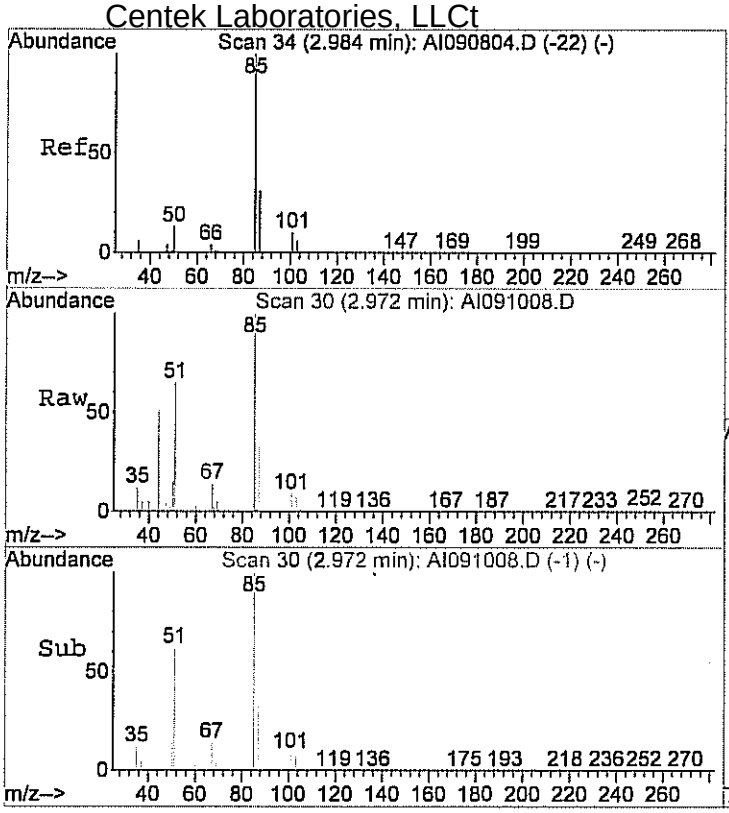
Data File : C:\HPCHEM\1\DATA\AI091008.D
Acq On : 10 Sep 2011 1:10 pm
Sample : C1109015-003A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 13 14:01 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



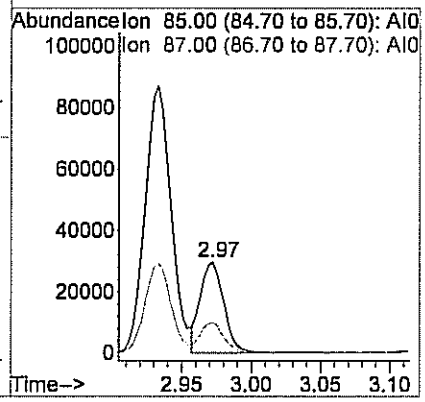
Centek Laboratories, LLCt

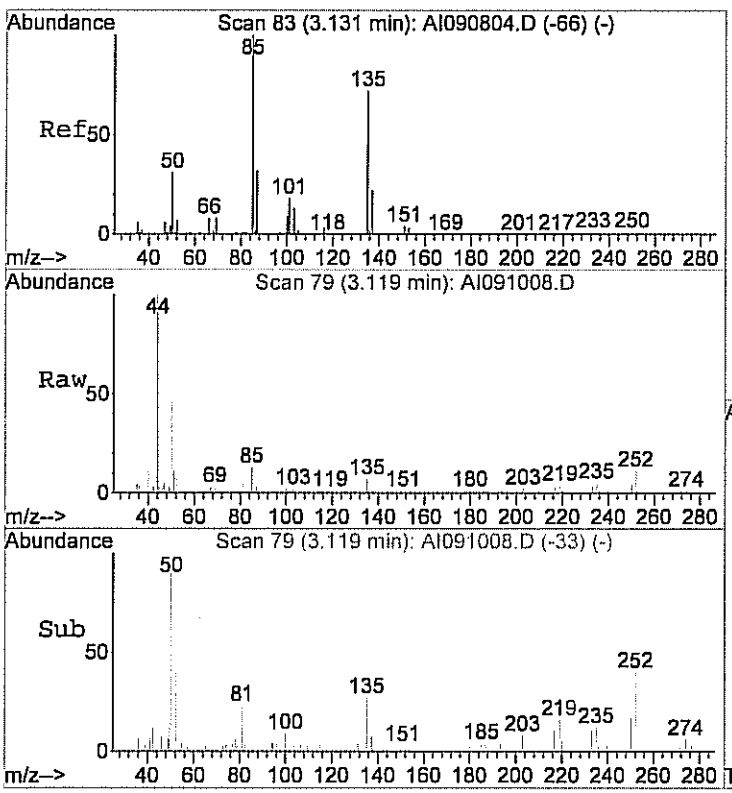


#3
Freon 12
Concen: 0.57 ppb
RT: 2.97 min Scan# 30
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 85 Resp: 35098

Ion	Ratio	Lower	Upper
85	100		
87	32.8	12.2	52.2

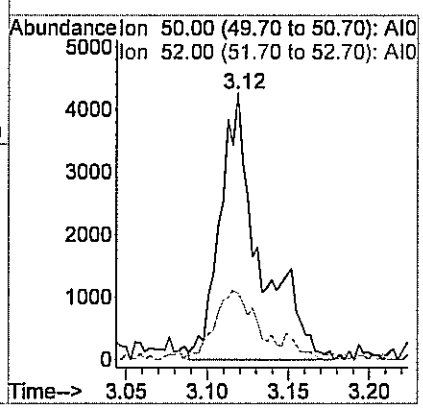


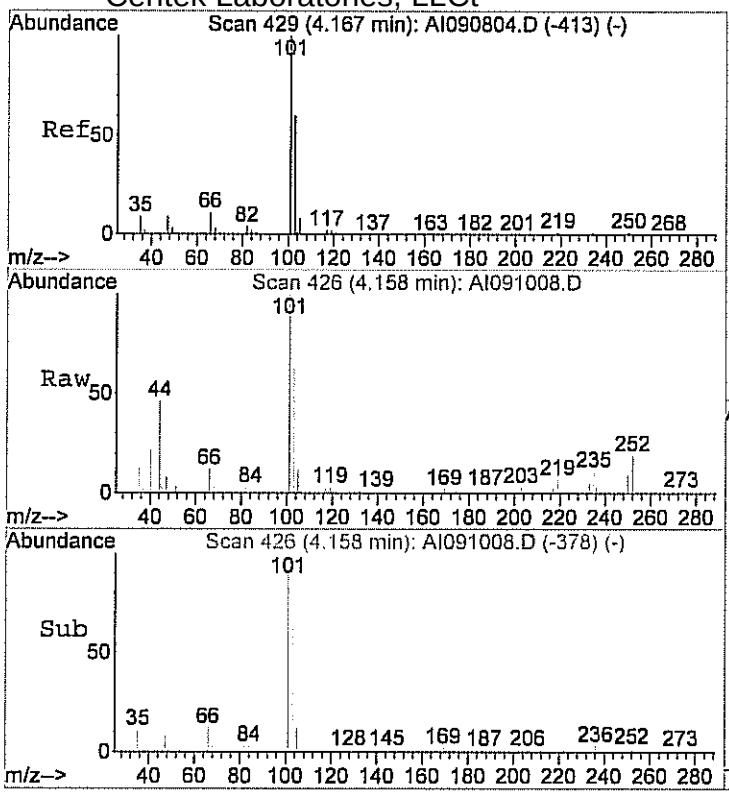


#4
Chloromethane
Concen: 0.46 ppb
RT: 3.12 min Scan# 79
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 50 Resp: 7174

Ion	Ratio	Lower	Upper
50	100		
52	30.4	4.1	44.1

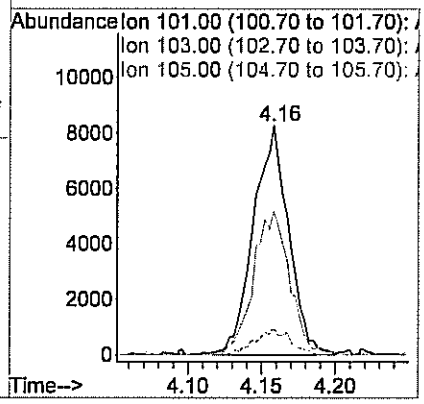


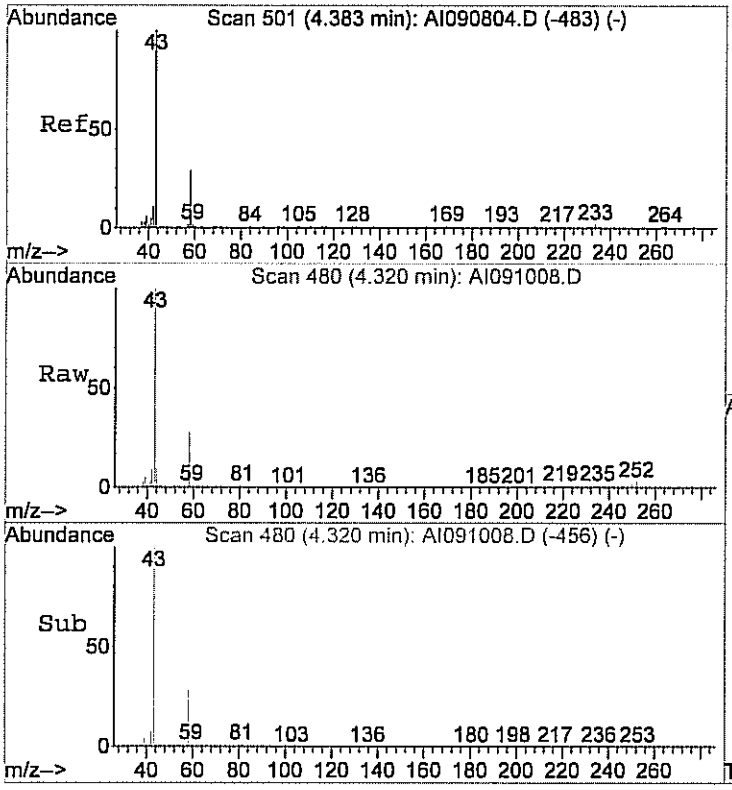


#13
Freon 11
Concen: 0.29 ppb
RT: 4.16 min Scan# 426
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:101 Resp: 13783

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.9	84.9
105	11.1	0.0	30.9

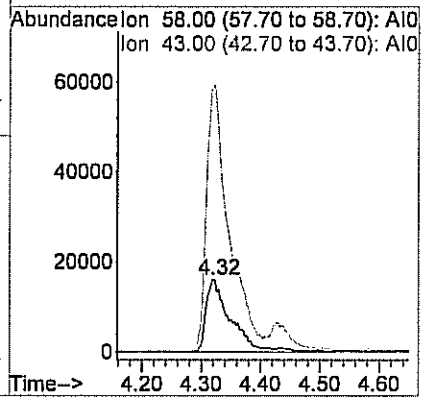


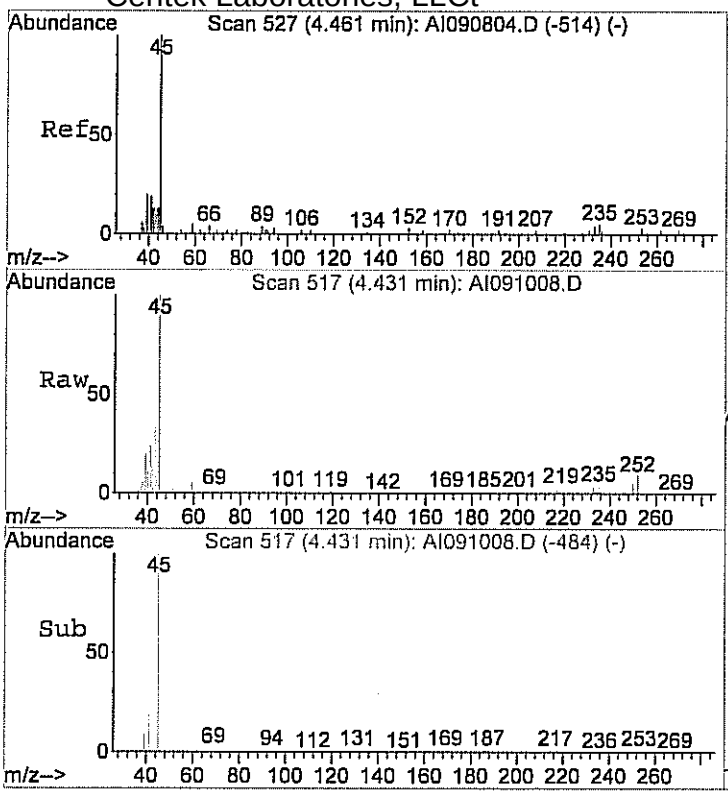


#14
Acetone
Concen: 9.33 ppb
RT: 4.32 min Scan# 480
Delta R.T. -0.08 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 58 Resp: 47533

Ion	Ratio	Lower	Upper
58	100		
43	368.8	360.8	420.8

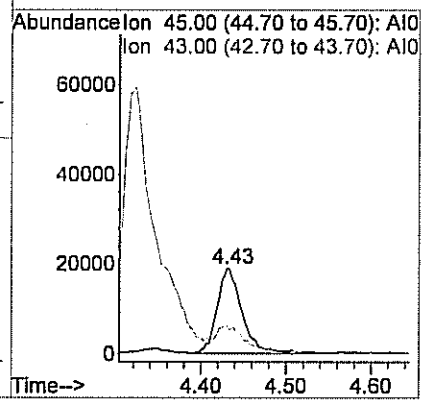


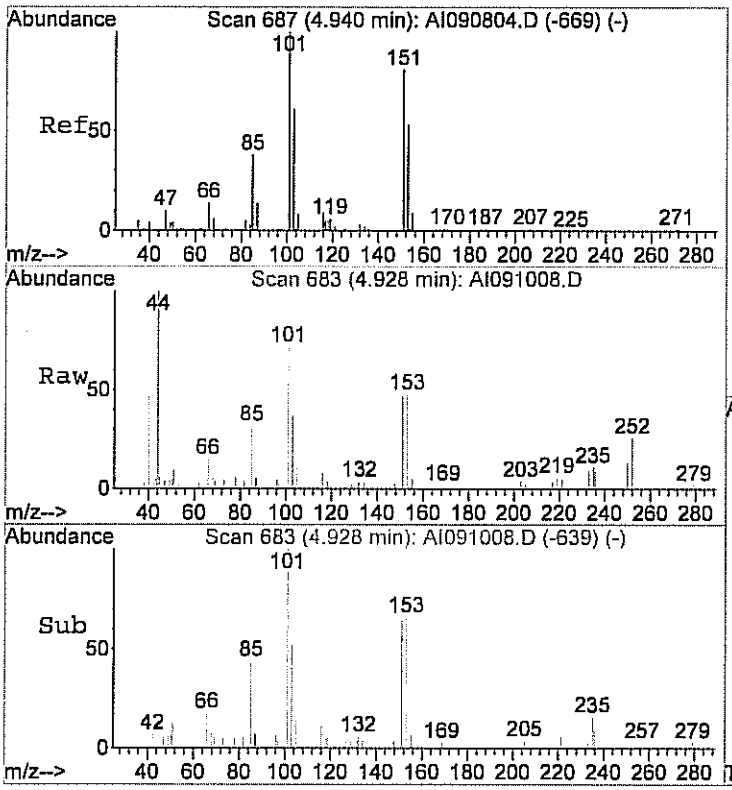


#15
Isopropyl alcohol
Concen: 3.74 ppb
RT: 4.43 min Scan# 517
Delta R.T. -0.05 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 45 Resp: 38859

Ion	Ratio	Lower	Upper
45	100		
43	37.4	0.0	20.0#

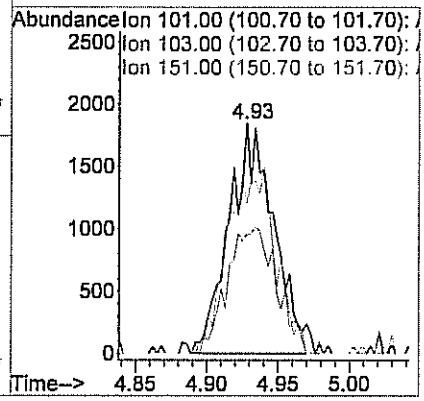


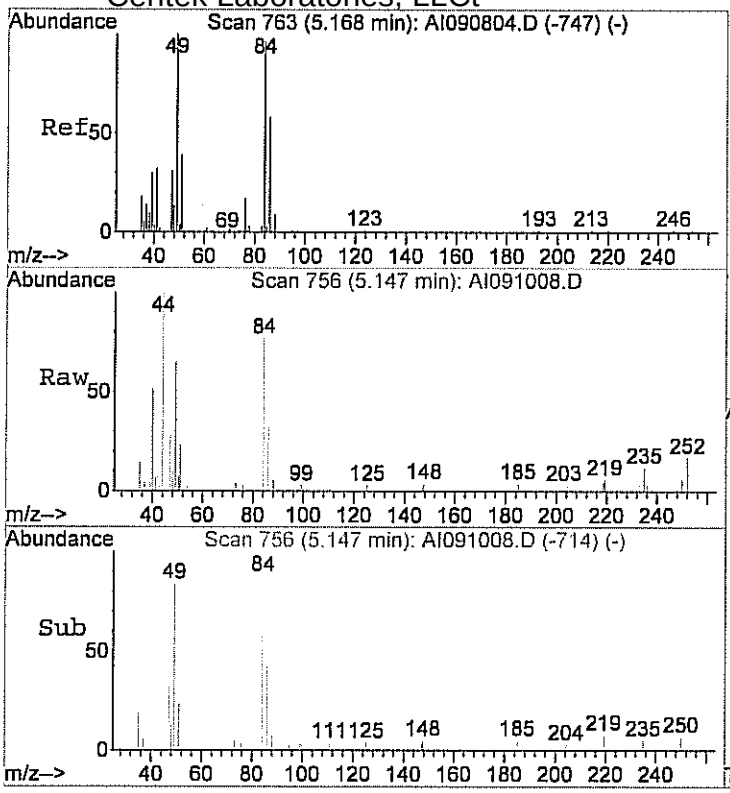


#17
Freon 113
Concen: 0.12 ppb
RT: 4.93 min Scan# 683
Delta R.T. -0.02 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:101 Resp: 4039

Ion	Ratio	Lower	Upper
101	100		
103	60.2	44.3	84.3
151	85.5	61.0	101.0

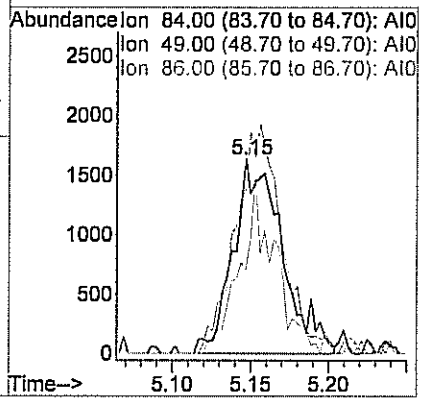


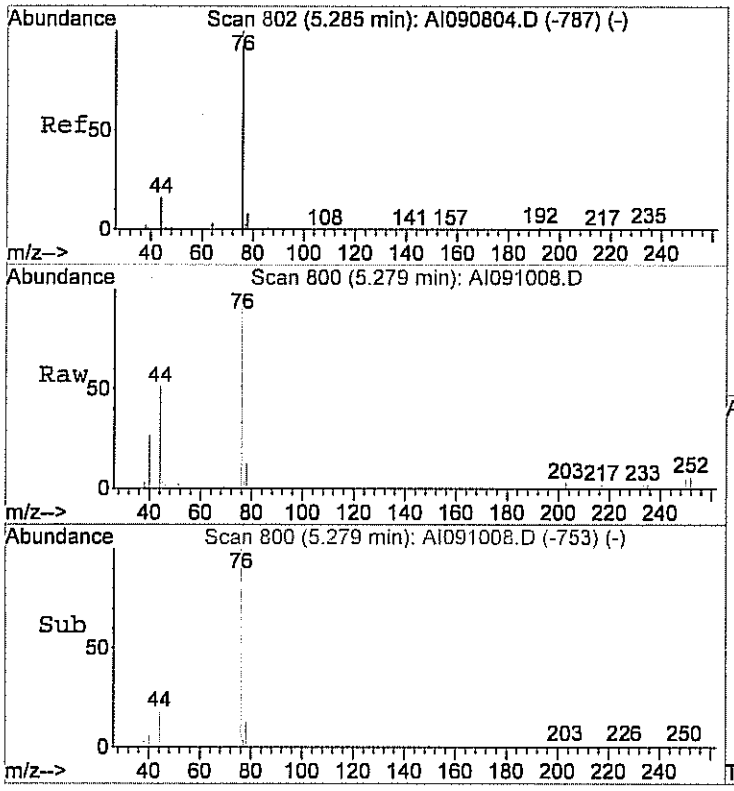


#18
Methylene chloride
Concen: 0.27 ppb
RT: 5.15 min Scan# 756
Delta R.T. -0.02 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 84 Resp: 3553

Ion	Ratio	Lower	Upper
84	100		
49	110.7	116.9	156.9#
86	63.7	46.7	86.7

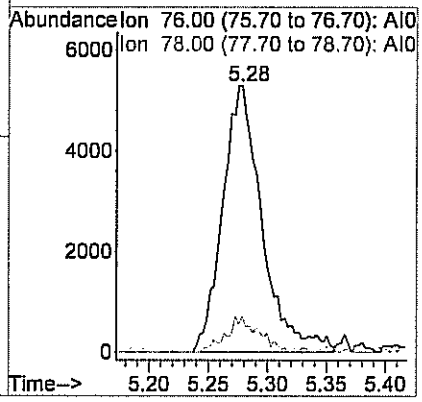


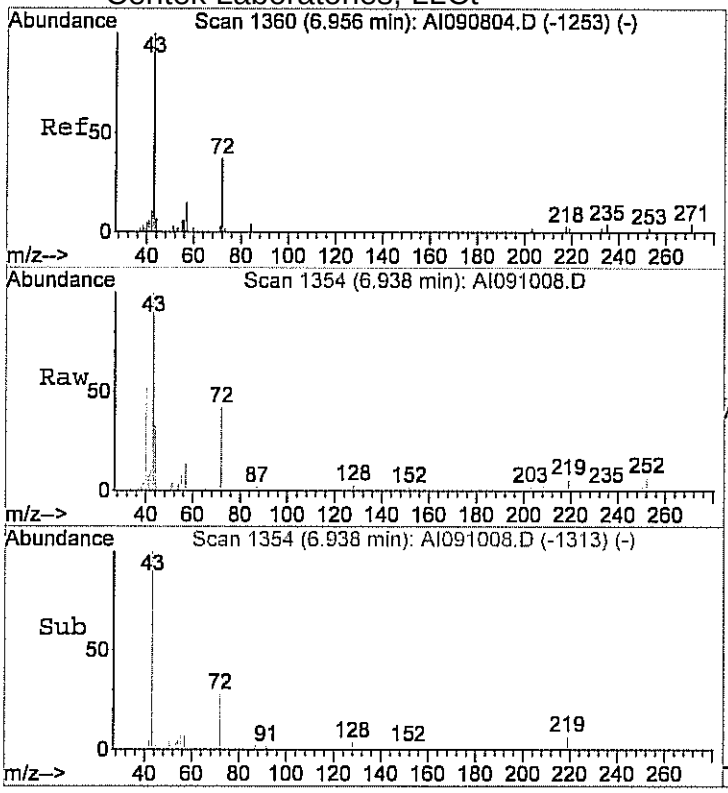


#20
Carbon disulfide
Concen: 0.30 ppb
RT: 5.28 min Scan# 800
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 76 Resp: 12252

Ion	Ratio	Lower	Upper
76	100		
78	11.0	0.0	29.6

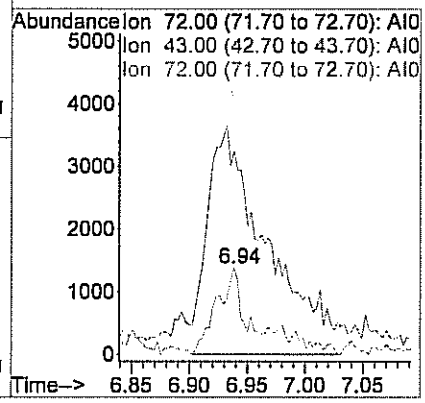


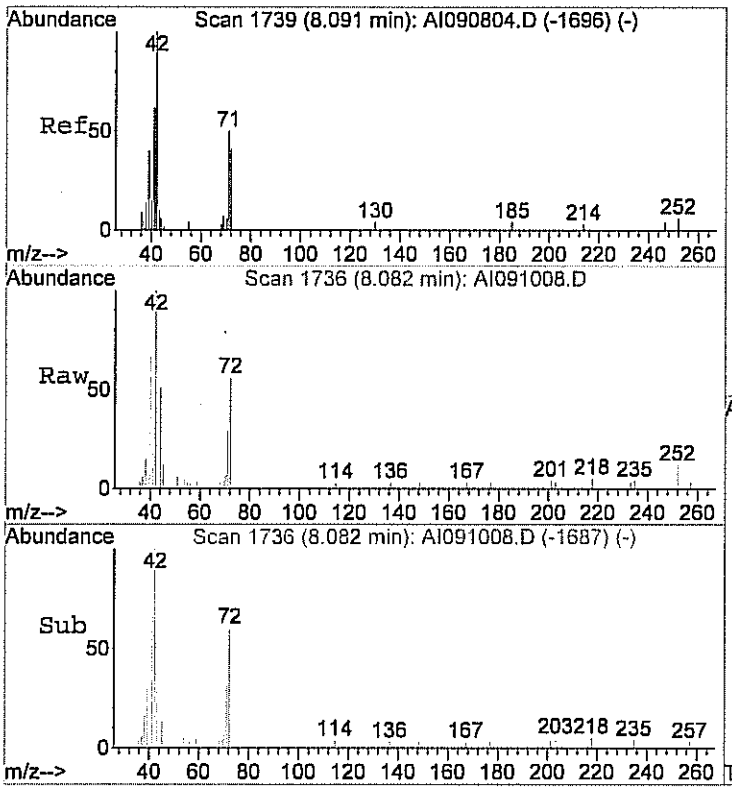


#25
Methyl Ethyl Ketone
Concen: 0.68 ppb
RT: 6.94 min Scan# 1354
Delta R.T. -0.03 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 72 Resp: 3223

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

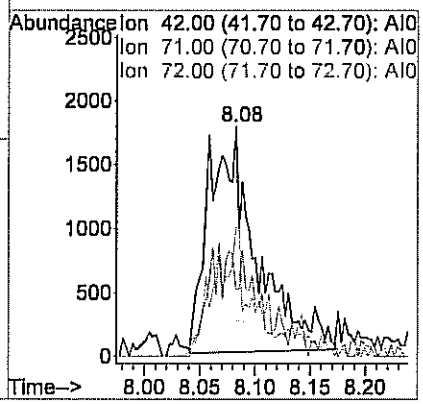


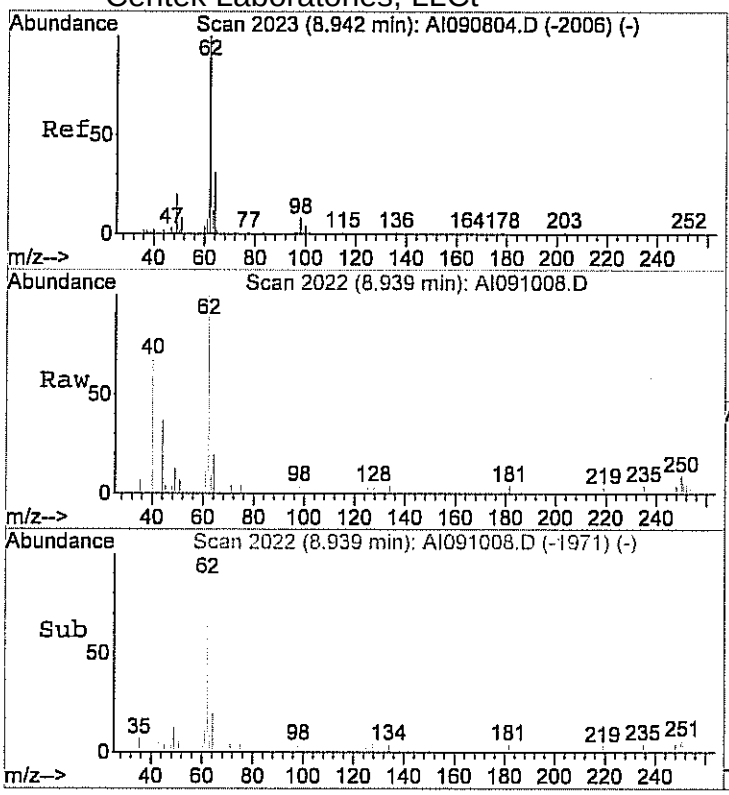


#30
Tetrahydrofuran
Concen: 0.59 ppb
RT: 8.08 min Scan# 1736
Delta R.T. -0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 42 Resp: 5301

Ion	Ratio	Lower	Upper
42	100		
71	45.3	24.6	64.6
72	49.9	26.5	66.5

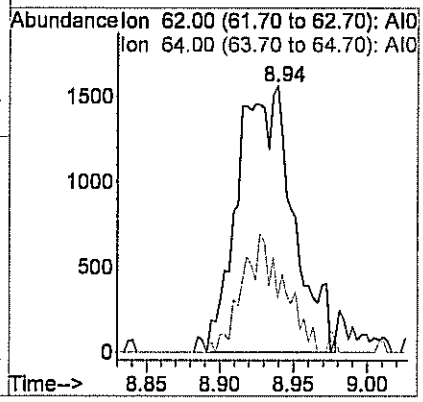


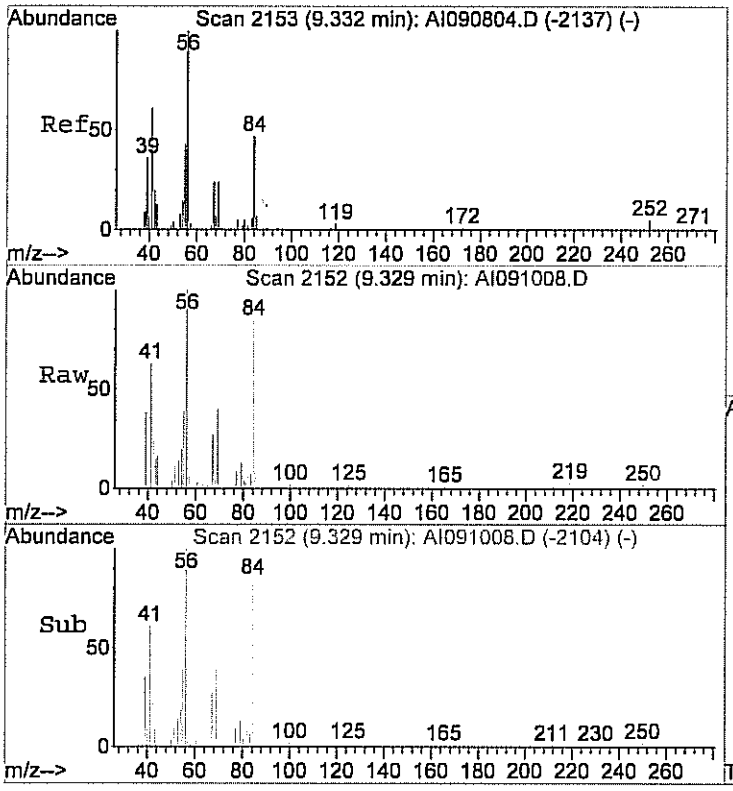


#31
1,2-dichloroethane
Concen: 0.15 ppb
RT: 8.94 min Scan# 2022
Delta R.T. 0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 62 Resp: 4128

Ion	Ratio	Lower	Upper
62	100		
64	32.2	12.2	52.2

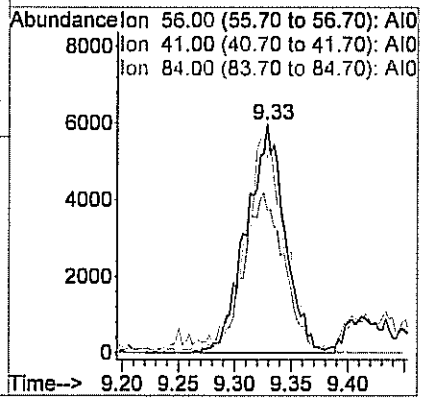


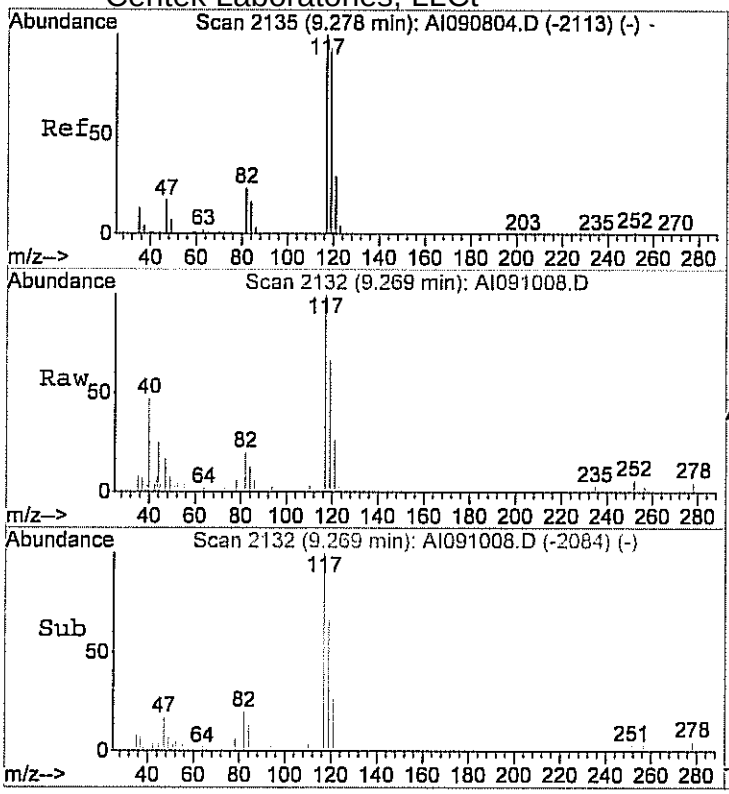


#34
Cyclohexane
Concen: 0.99 ppb
RT: 9.33 min Scan# 2152
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 56 Resp: 14235

Ion	Ratio	Lower	Upper
56	100		
41	73.9	49.1	89.1
84	94.2	114.6	154.6#

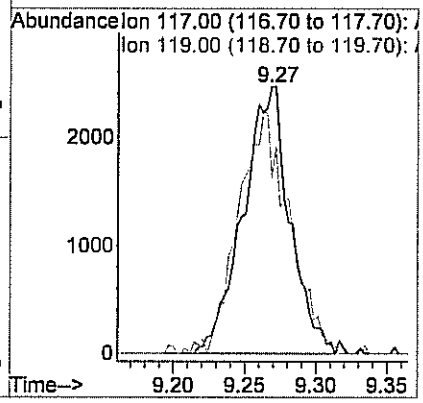


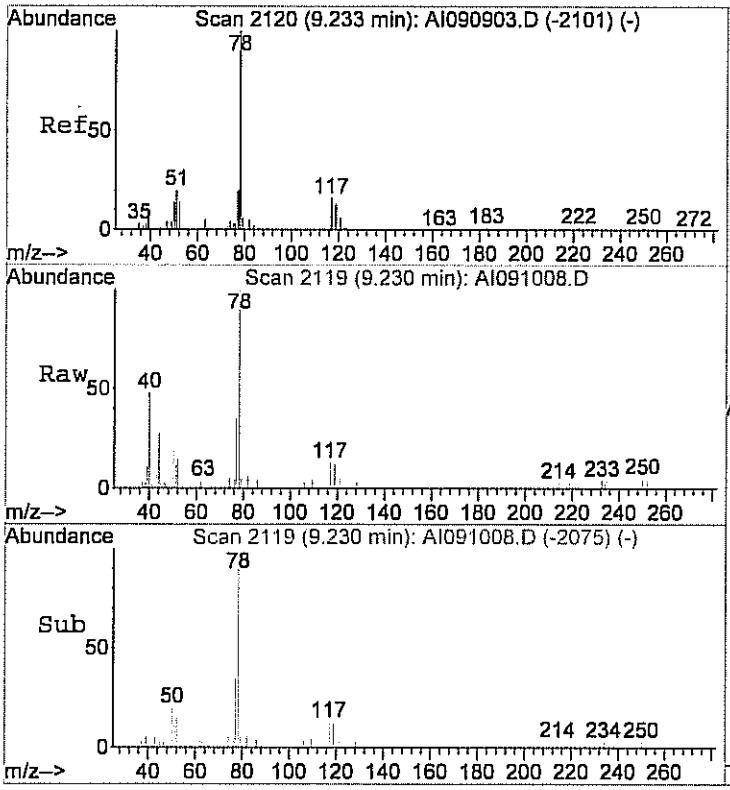


#35
Carbon tetrachloride
Concen: 0.13 ppb
RT: 9.27 min Scan# 2132
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:117 Resp: 5637

Ion	Ratio	Lower	Upper
117	100		
119	97.2	77.2	117.2

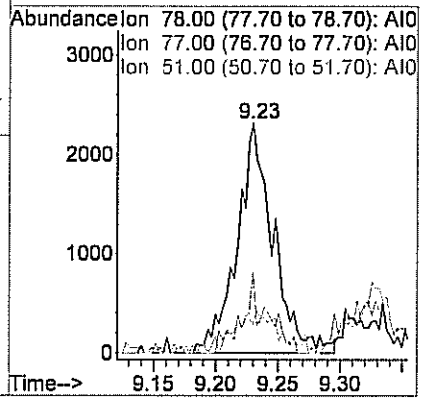


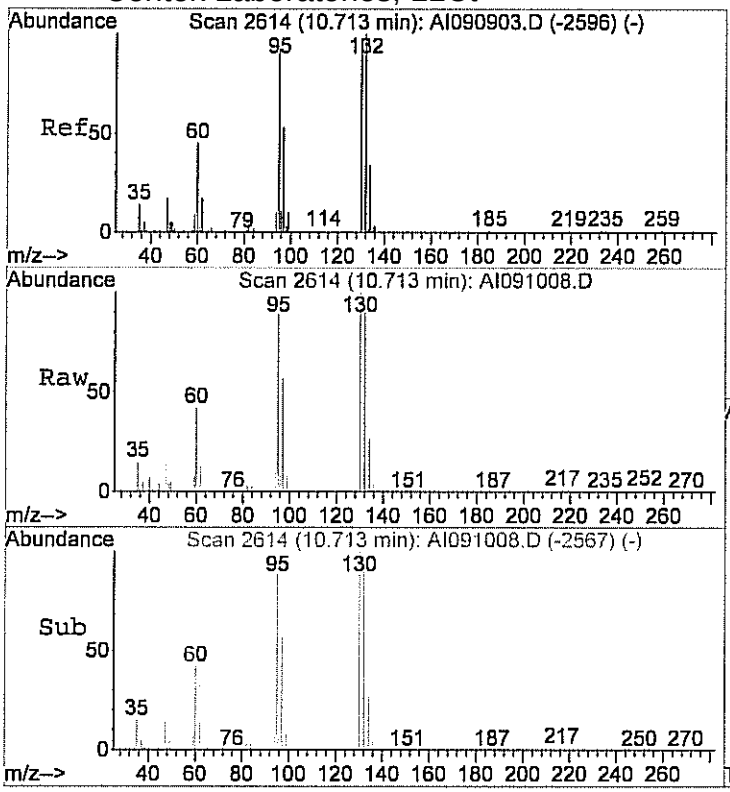


#36
Benzene
Concen: 0.12 ppb
RT: 9.23 min Scan# 2119
Delta R.T. -0.02 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 78 Resp: 4674

Ion	Ratio	Lower	Upper
78	100		
77	23.5	5.2	45.2
51	20.8	0.0	37.6

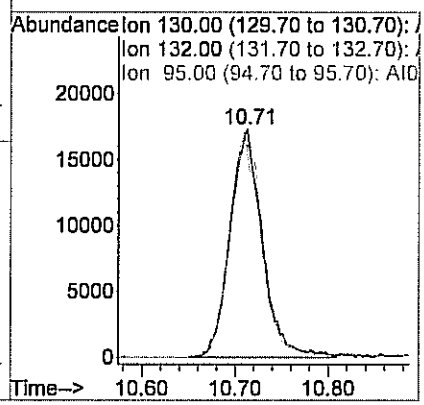


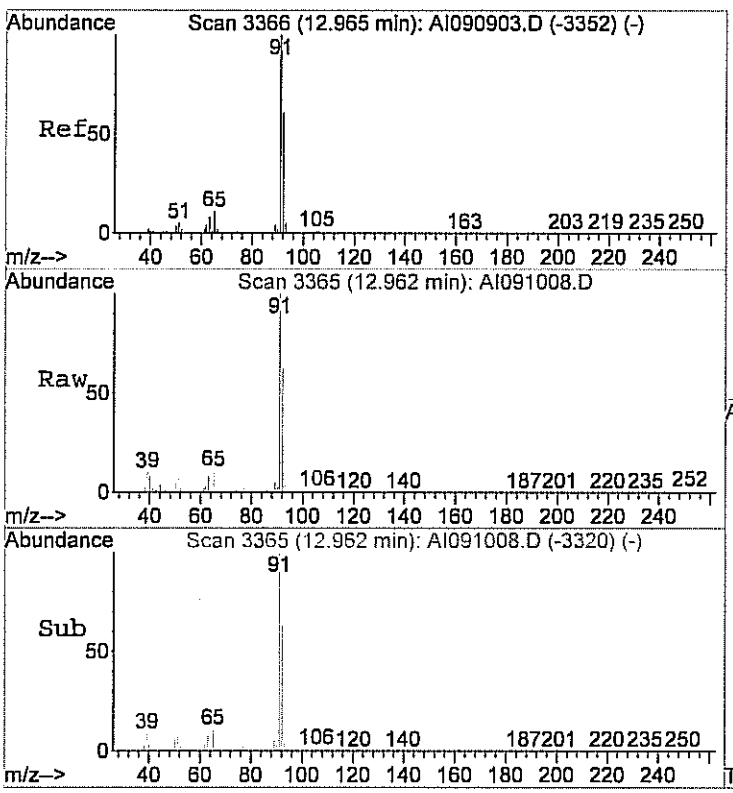


#41
Trichloroethene
Concen: 1.83 ppb
RT: 10.71 min Scan# 2614
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:130 Resp: 41943

Ion	Ratio	Lower	Upper
130	100		
132	100.4	79.0	119.0
95	95.6	76.8	116.8

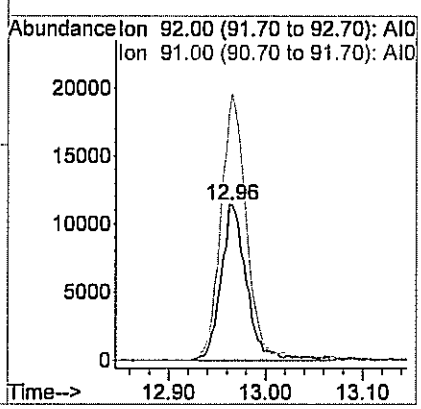


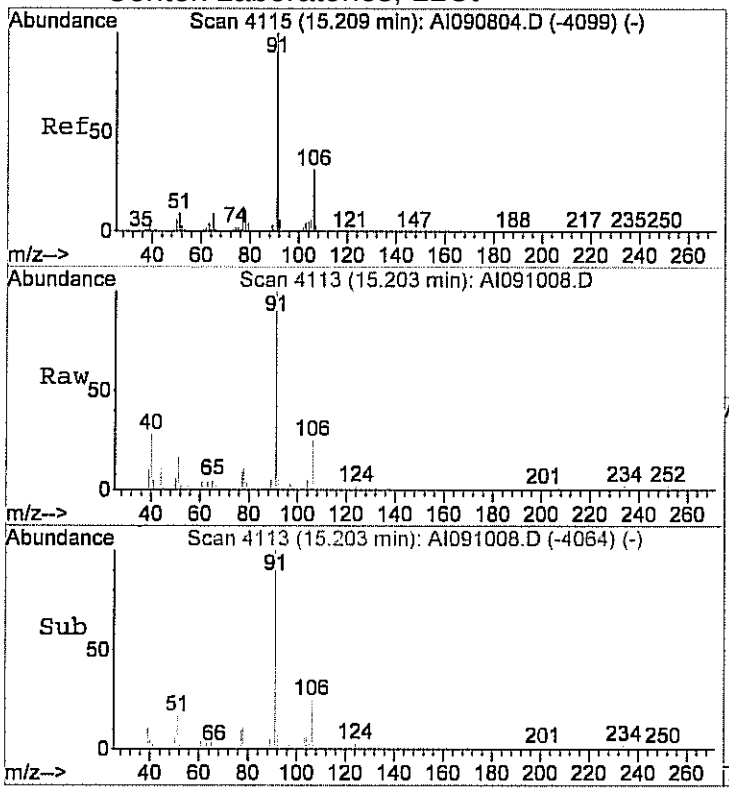


#48
Toluene
Concen: 0.82 ppb
RT: 12.96 min Scan# 3365
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 92 Resp: 21123

Ion	Ratio	Lower	Upper
92	100		
91	170.8	159.8	199.8

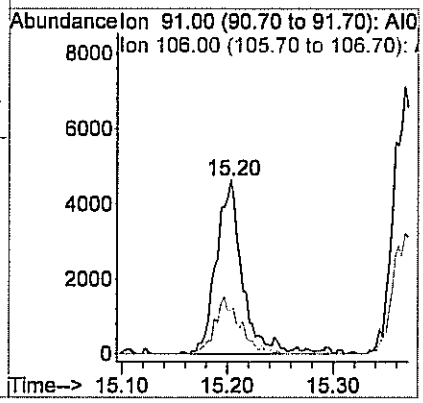


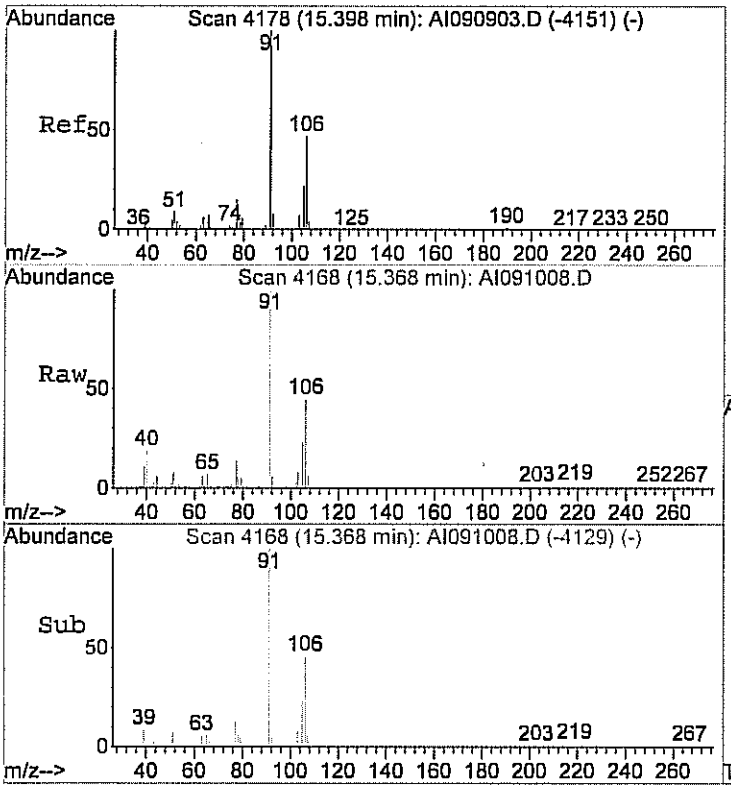


#55
Ethylbenzene
Concen: 0.15 ppb
RT: 15.20 min Scan# 4113
Delta R.T. -0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 91 Resp: 8072

Ion	Ratio	Lower	Upper
91	100		
106	30.6	10.7	50.7

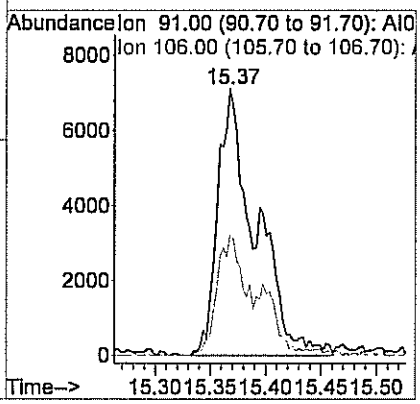


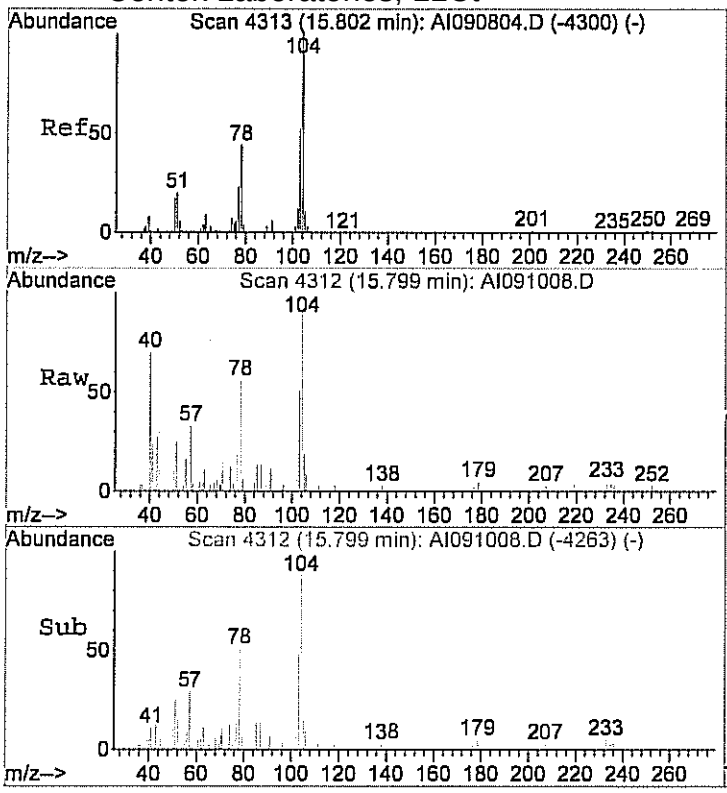


#56
m&p-xylene
Concen: 0.39 ppb
RT: 15.37 min Scan# 4168
Delta R.T. -0.03 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 91 Resp: 17006

Ion	Ratio	Lower	Upper
91	100		
106	47.2	27.5	67.5

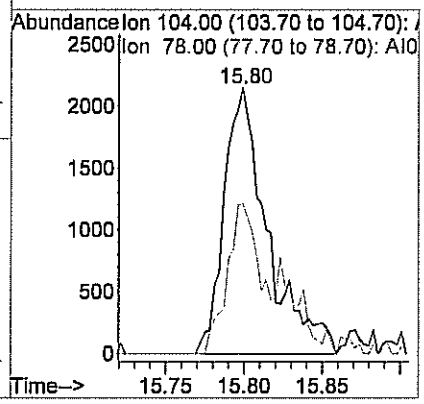


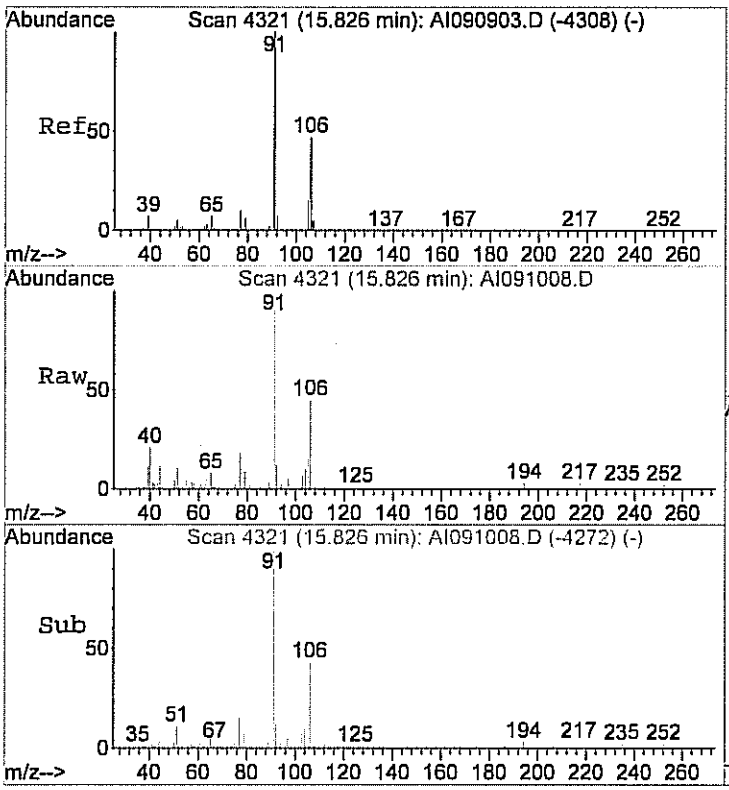


#57
Styrene
Concen: 0.16 ppb
RT: 15.80 min Scan# 4312
Delta R.T. -0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:104 Resp: 4113

Ion	Ratio	Lower	Upper
104	100		
78	61.2	36.7	76.7

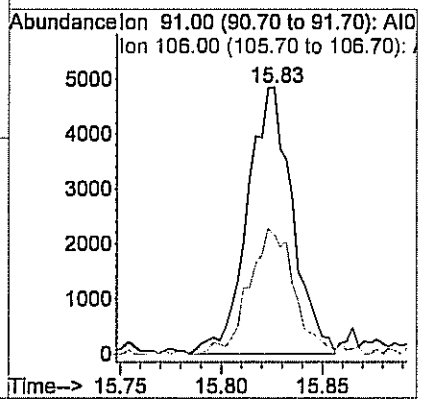


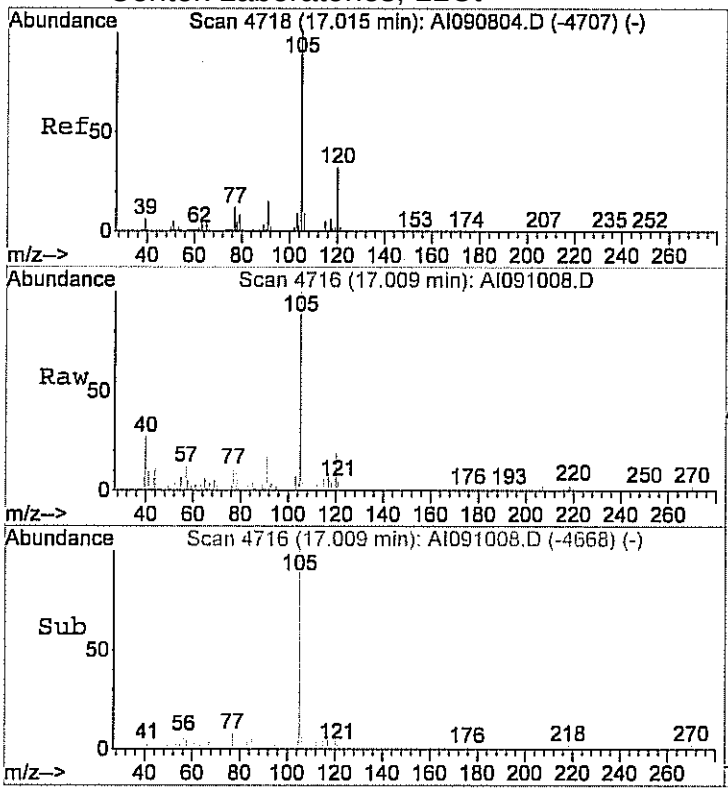


#59
o-xylene
Concen: 0.15 ppb
RT: 15.83 min Scan# 4321
Delta R.T. -0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion: 91 Resp: 7475

Ion	Ratio	Lower	Upper
91	100		
106	47.9	26.2	66.2

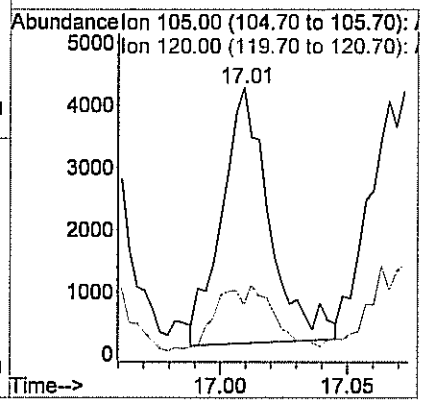


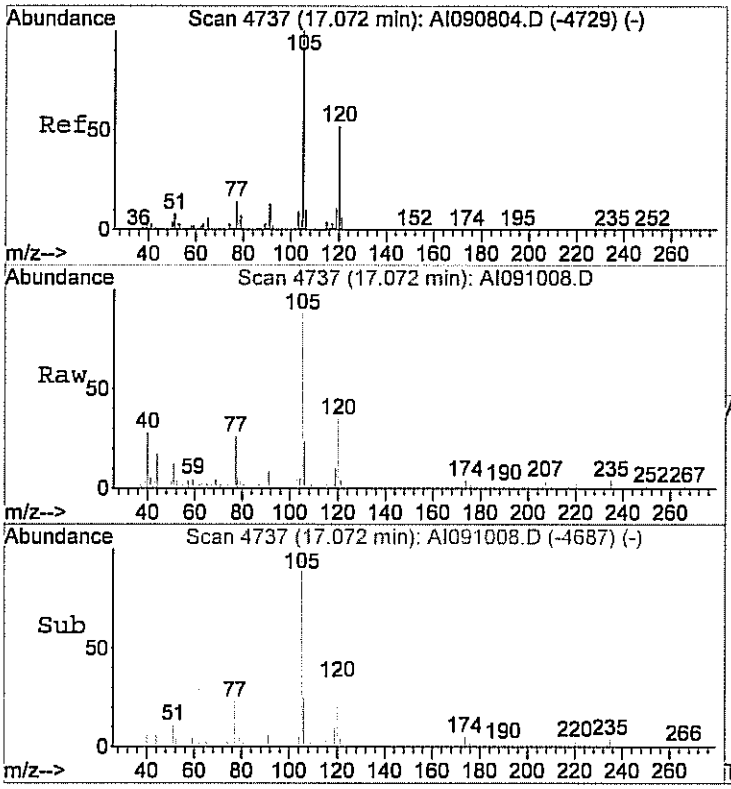


#63
4-ethyltoluene
Concen: 0.13 ppb
RT: 17.01 min Scan# 4716
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:105 Resp: 5358

Ion	Ratio	Lower	Upper
105	100		
120	36.5	8.1	48.1

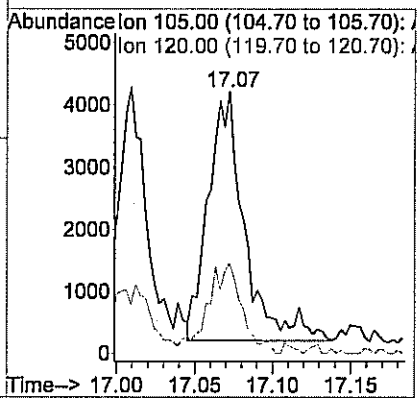


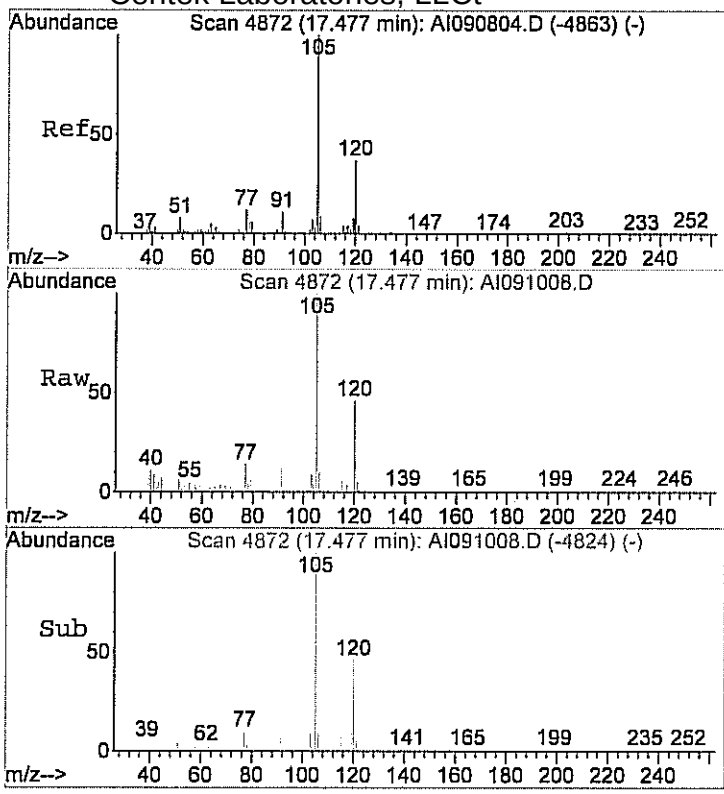


#64
1,3,5-trimethylbenzene
Concen: 0.14 ppb
RT: 17.07 min Scan# 4737
Delta R.T. -0.00 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:105 Resp: 6513

Ion	Ratio	Lower	Upper
105	100		
120	32.2	26.2	66.2

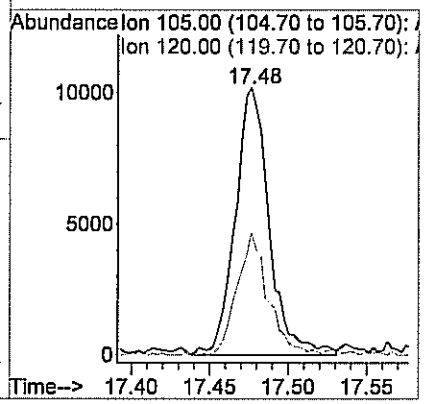




#65
1,2,4-trimethylbenzene
Concen: 0.42 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI091008.D
Acq: 10 Sep 2011 1:10 pm

Tgt Ion:105 Resp: 15320

Ion	Ratio	Lower	Upper
105	100		
120	41.8	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091014.D Vial: 14
Acq On : 10 Sep 2011 4:30 pm Operator: RJP
Sample : C1109015-003A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 16:51:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13594	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	40288	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	33018	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	15798	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	5939	1.24	ppb	# 76
15) Isopropyl alcohol	4.45	45	4887	0.50	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

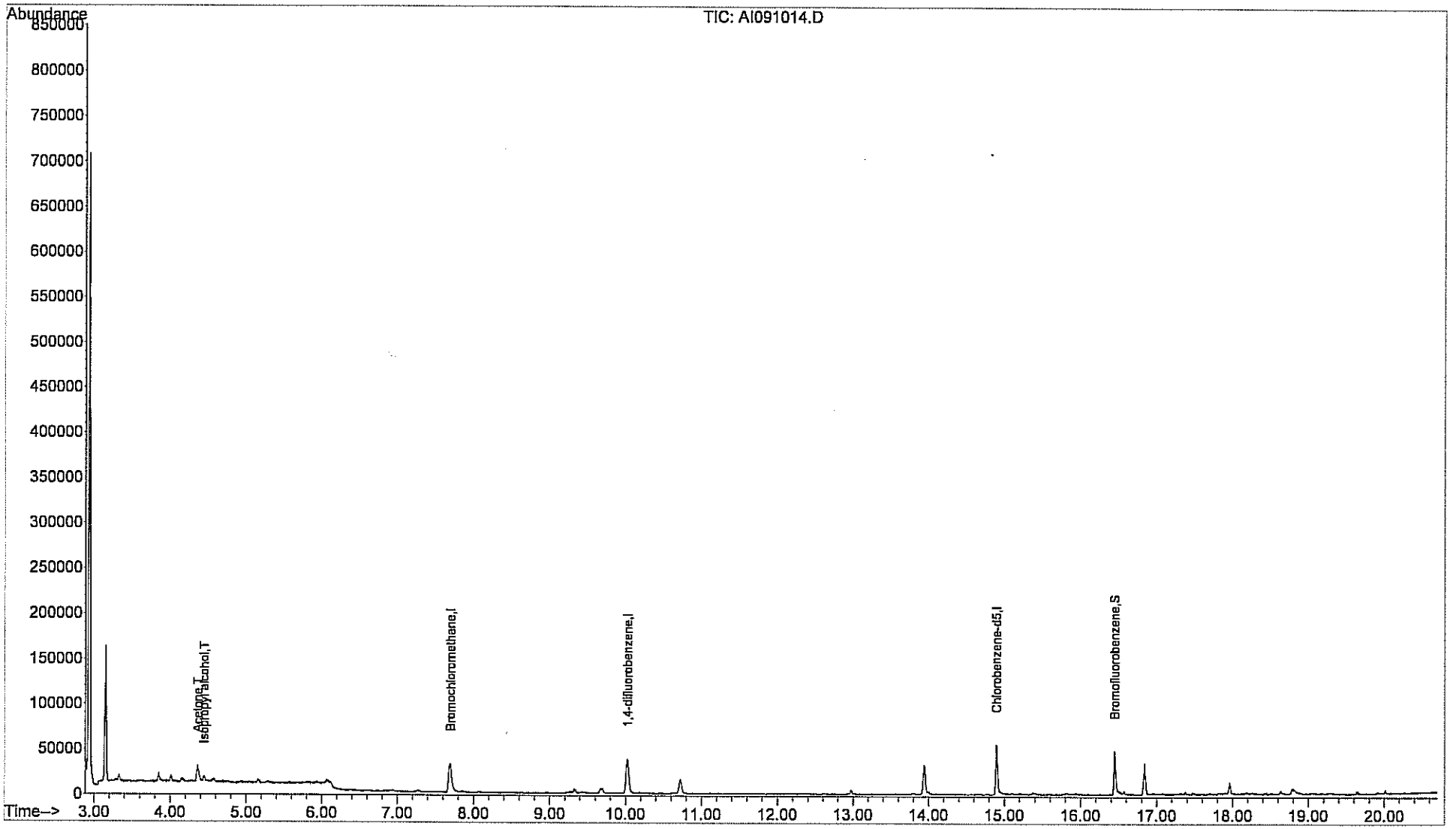
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091014.D
Acq On : 10 Sep 2011 4:30 pm
Sample : C1109015-003A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 14 16:35 2011

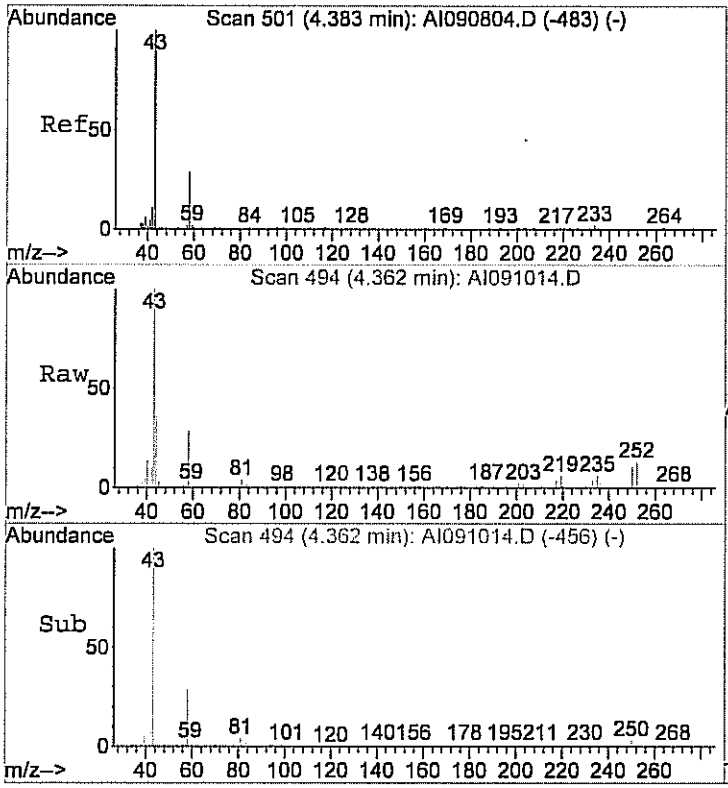
Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



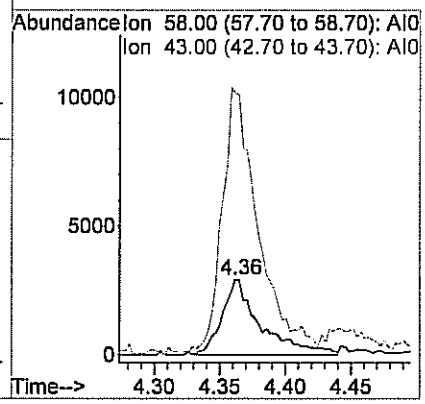
Centek Laboratories, LLCt

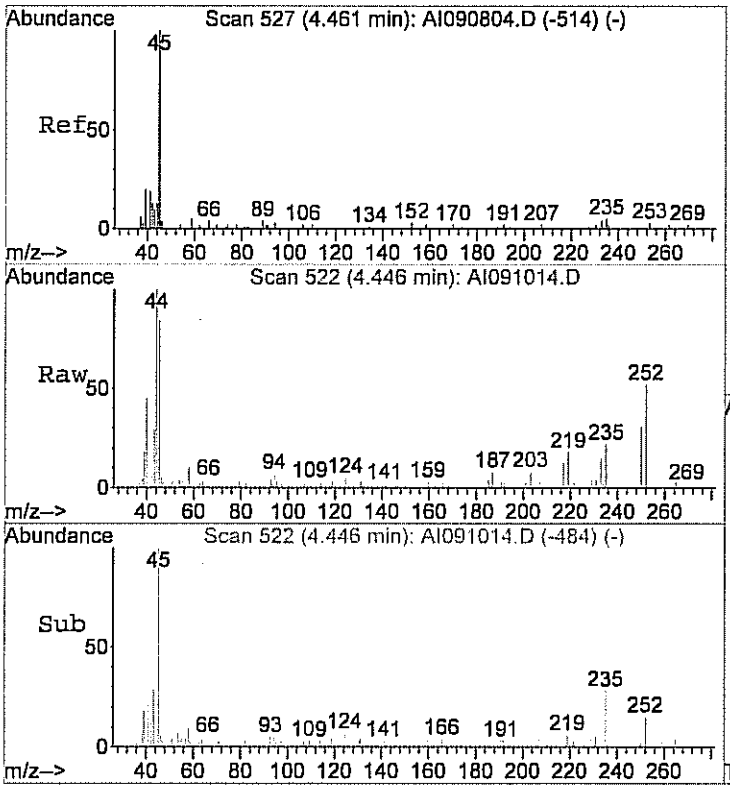


#14
Acetone
Concen: 1.24 ppb
RT: 4.36 min Scan# 494
Delta R.T. -0.04 min
Lab File: AI091014.D
Acq: 10 Sep 2011 4:30 pm

Tgt Ion: 58 Resp: 5939

Ion	Ratio	Lower	Upper
58	100		
43	334.9	360.8	420.8#

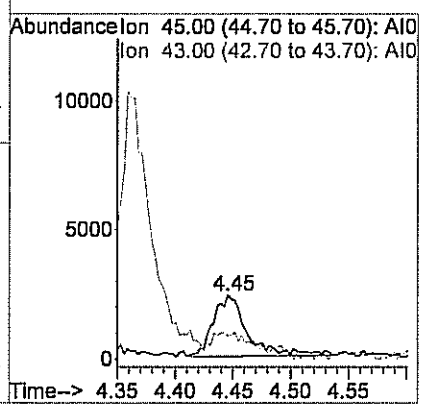




#15
Isopropyl alcohol
Concen: 0.50 ppb
RT: 4.45 min Scan# 522
Delta R.T. -0.04 min
Lab File: AI091014.D
Acq: 10 Sep 2011 4:30 pm

Tgt Ion: 45 Resp: 4887

Ion	Ratio	Lower	Upper
45	100		
43	53.0	0.0	20.0#



Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.13	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Acetone	19	3.0		ppbV	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Benzene	0.11	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.12	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloromethane	0.71	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Ethyl acetate	0.91	0.25		ppbV	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.21	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 113	0.12	0.15	J	ppbV	1	9/10/2011 1:44:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 12	0.62	0.15		ppbV	1	9/10/2011 1:44:00 PM
Heptane	0.32	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	9/10/2011 5:03:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Methylene chloride	0.37	0.15		ppbV	1	9/10/2011 1:44:00 PM
o-Xylene	0.17	0.15		ppbV	1	9/10/2011 1:44:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Styrene	0.24	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Toluene	0.83	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Trichloroethene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.53	0.62	J	ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Acetone	47	7.2		ug/m3	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:44:00 PM
Benzene	0.36	0.49	J	ug/m3	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.77	0.96	J	ug/m3	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:44:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:44:00 PM
Chloromethane	1.5	0.31		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Ethyl acetate	3.3	0.92		ug/m3	1	9/10/2011 1:44:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:44:00 PM
Freon 113	0.93	1.2	J	ug/m3	1	9/10/2011 1:44:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	3.1	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	9/10/2011 5:03:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:44:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	9/10/2011 1:44:00 PM
o-Xylene	0.75	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:44:00 PM
Styrene	1.0	0.65		ug/m3	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 1:44:00 PM
Toluene	3.2	0.57		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Trichloroethene	1.9	0.82		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091009.D Vial: 9
Acq On : 10 Sep 2011 1:44 pm Operator: RJP
Sample : C1109015-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 14:05:22 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

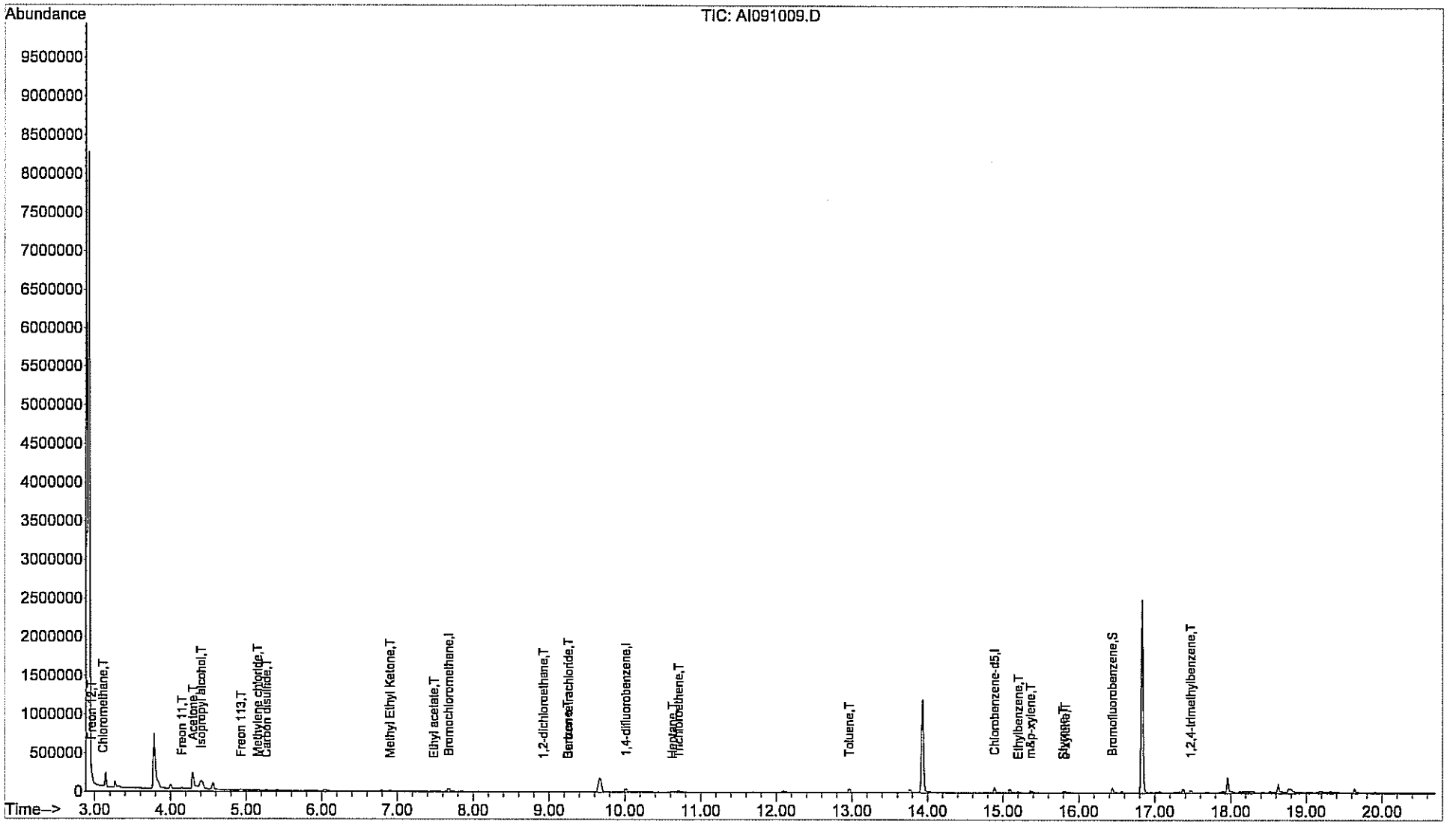
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	14251	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.01	114	44625	1.00	ppb		-0.01
47) Chlorobenzene-d5	14.89	117	38898	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	19779	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	37719	0.62	ppb		99
4) Chloromethane	3.11	50	10861	0.71	ppb		87
13) Freon 11	4.15	101	14132	0.30	ppb		99
14) Acetone	4.29	58	89761	17.84	ppb		97
15) Isopropyl alcohol	4.40	45	168736	16.42	ppb	#	100
17) Freon 113	4.93	101	4010	0.12	ppb		91
18) Methylene chloride	5.16	84	4767	0.37	ppb	#	87
20) Carbon disulfide	5.27	76	10442	0.26	ppb		92
25) Methyl Ethyl Ketone	6.90	72	6361m	1.36	ppb		
28) Ethyl acetate	7.49	43	18415	0.91	ppb		94
31) 1,2-dichloroethane	8.92	62	3505	0.13	ppb		94
35) Carbon tetrachloride	9.26	117	5546	0.12	ppb		99
36) Benzene	9.24	78	4327	0.11	ppb		85
40) Heptane	10.63	43	4509	0.32	ppb	#	53
41) Trichloroethene	10.71	130	7881	0.34	ppb		98
48) Toluene	12.96	92	21088	0.83	ppb		93
55) Ethylbenzene	15.20	91	10822	0.21	ppb		97
56) m&p-xylene	15.36	91	20239	0.48	ppb		96
57) Styrene	15.80	104	6058	0.24	ppb		93
59) o-xylene	15.82	91	8636	0.17	ppb		97
65) 1,2,4-trimethylbenzene	17.47	105	12156	0.34	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

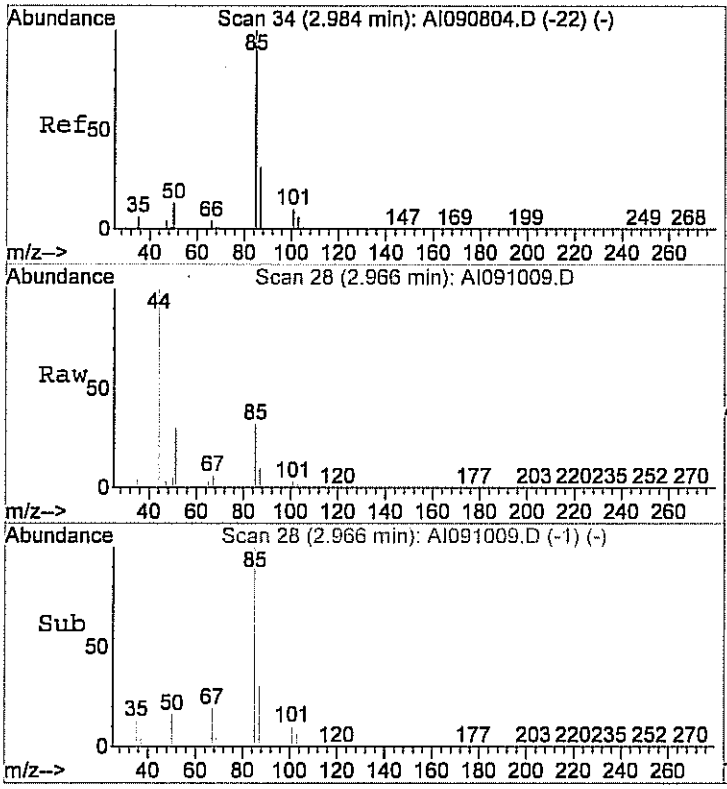
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091009.D Vial: 9
Acq On : 10 Sep 2011 1:44 pm Operator: RJP
Sample : C1109015-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 13 14:03 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



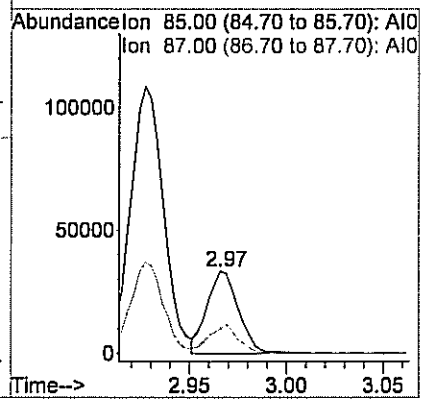
Centek Laboratories, LLCt

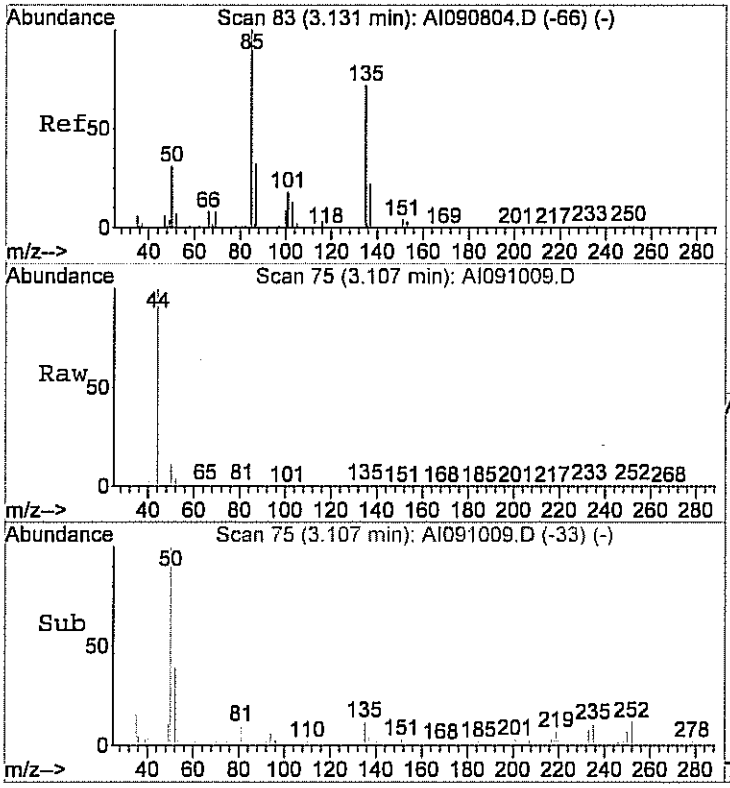


#3
Freon 12
Concen: 0.62 ppb
RT: 2.97 min Scan# 28
Delta R.T. -0.02 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 85 Resp: 37719

Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.2	52.2

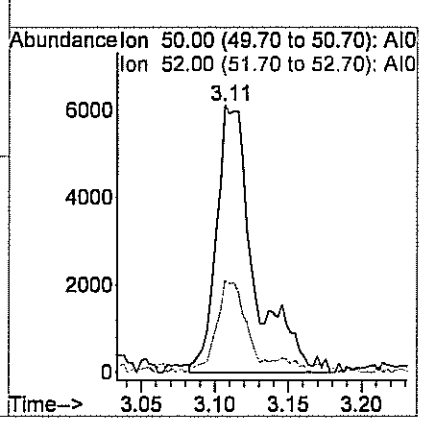


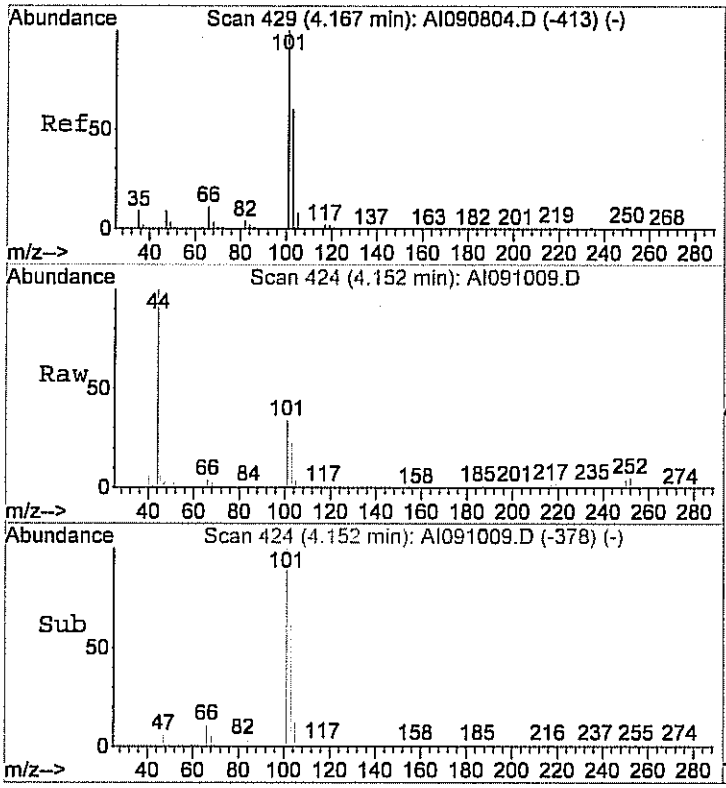


#4
Chloromethane
Concen: 0.71 ppb
RT: 3.11 min Scan# 75
Delta R.T. -0.02 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 50 Resp: 10861

Ion	Ratio	Lower	Upper
50	100		
52	30.3	4.1	44.1

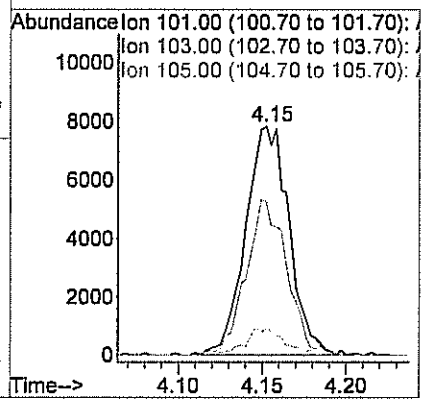


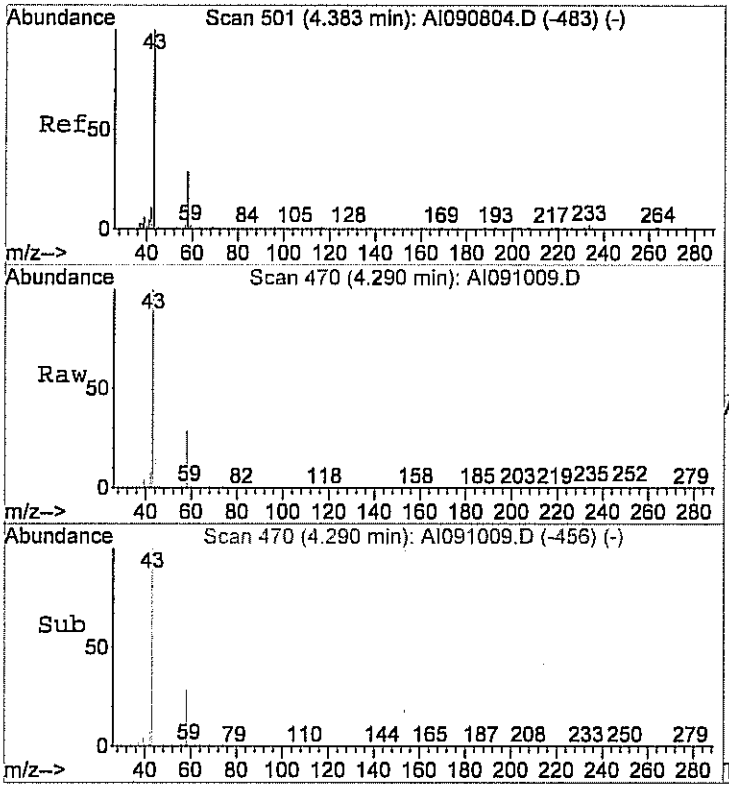


#13
Freon 11
Concen: 0.30 ppb
RT: 4.15 min Scan# 424
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:101 Resp: 14132

Ion	Ratio	Lower	Upper
101	100		
103	64.2	44.9	84.9
105	10.6	0.0	30.9

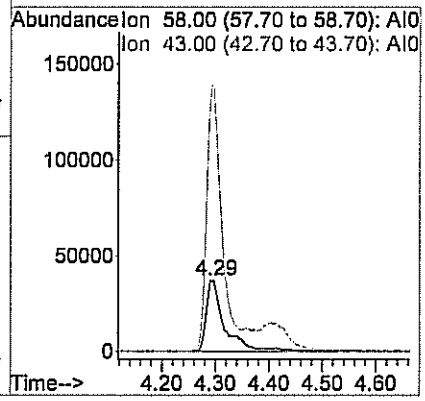


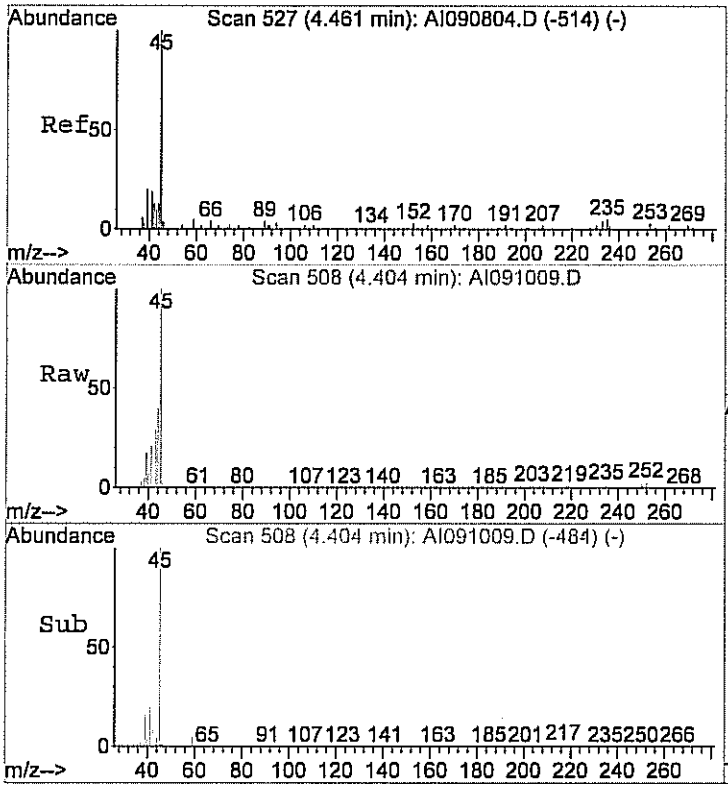


#14
Acetone
Concen: 17.84 ppb
RT: 4.29 min Scan# 470
Delta R.T. -0.11 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 58 Resp: 89761

Ion	Ratio	Lower	Upper
58	100		
43	382.9	360.8	420.8

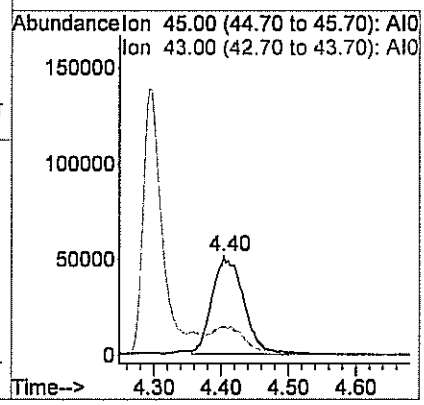


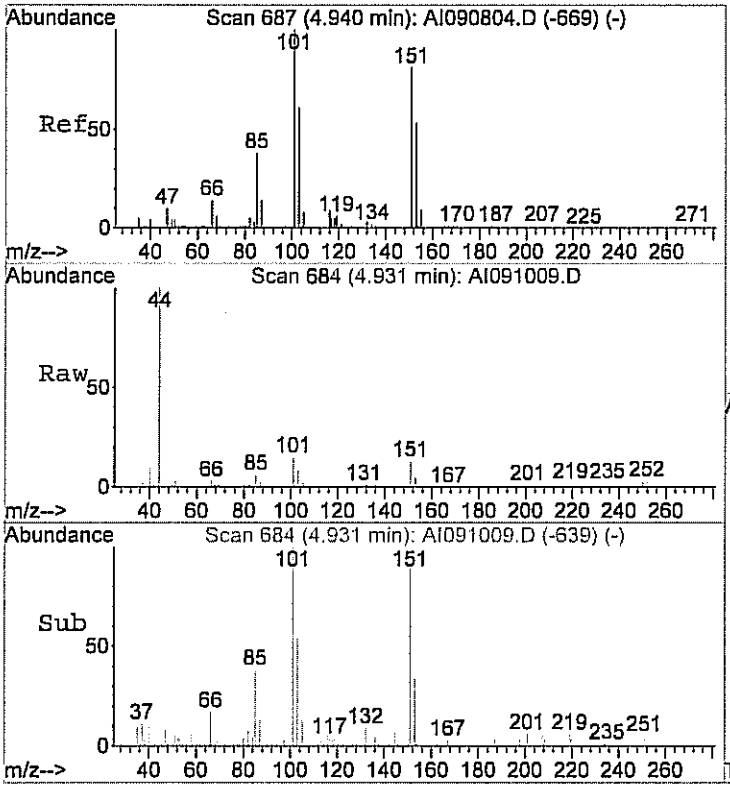


#15
Isopropyl alcohol
Concen: 16.42 ppb
RT: 4.40 min Scan# 508
Delta R.T. -0.08 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 45 Resp: 168736

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

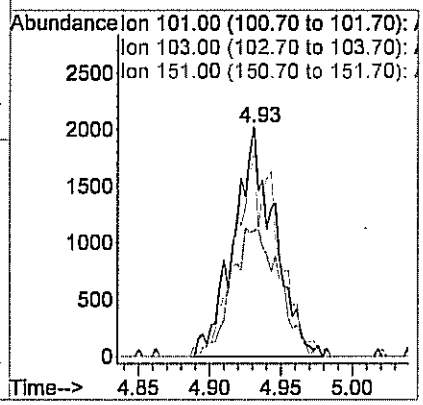


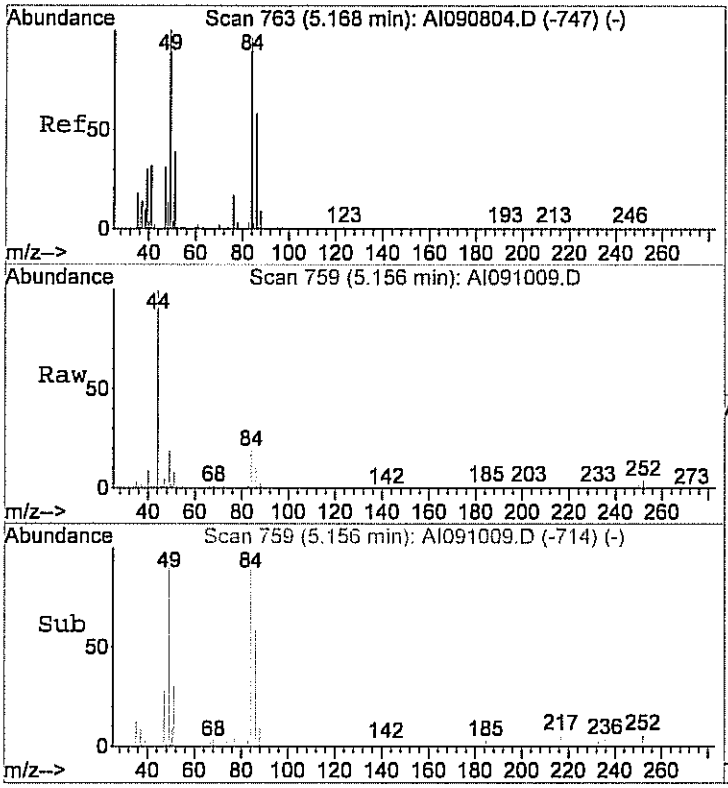


#17
Freon 113
Concen: 0.12 ppb
RT: 4.93 min Scan# 684
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:101 Resp: 4010

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.3	84.3
151	94.0	61.0	101.0

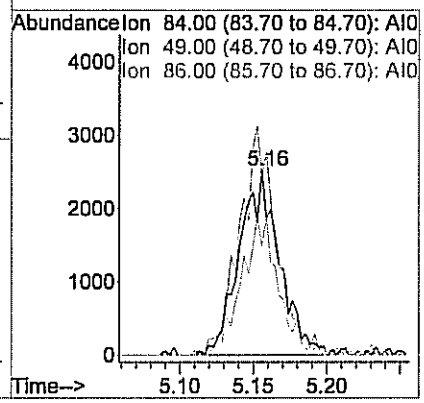


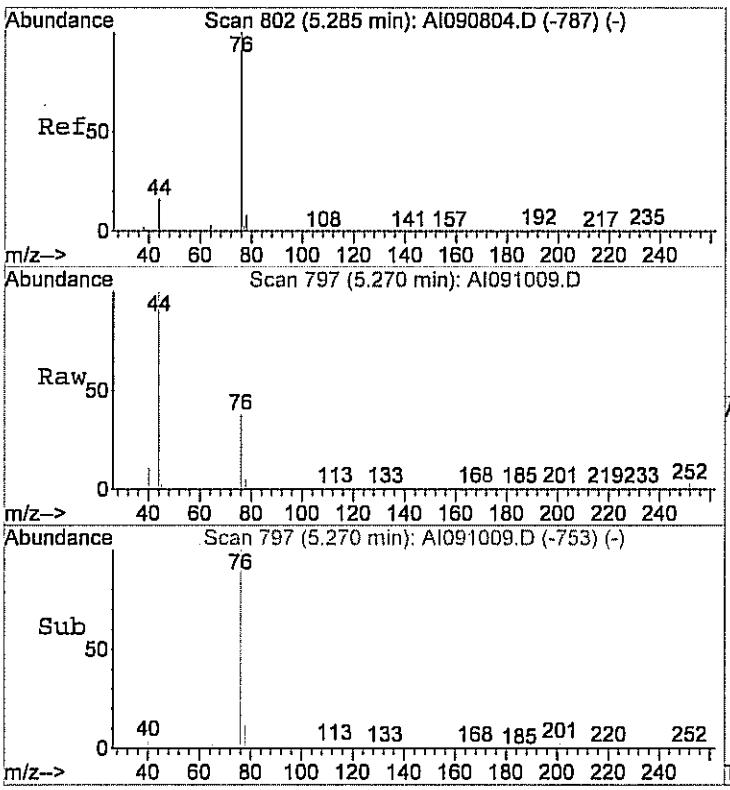


#18
Methylene chloride
Concen: 0.37 ppb
RT: 5.16 min Scan# 759
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 84 Resp: 4767

Ion	Ratio	Lower	Upper
84	100		
49	113.9	116.9	156.9#
86	67.1	46.7	86.7

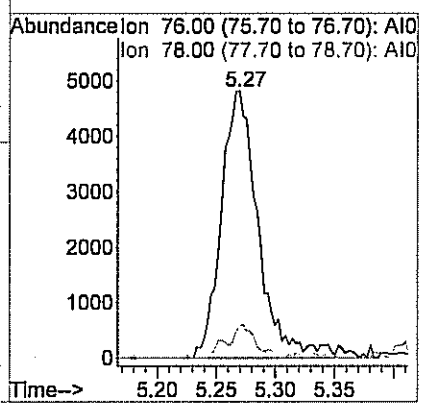


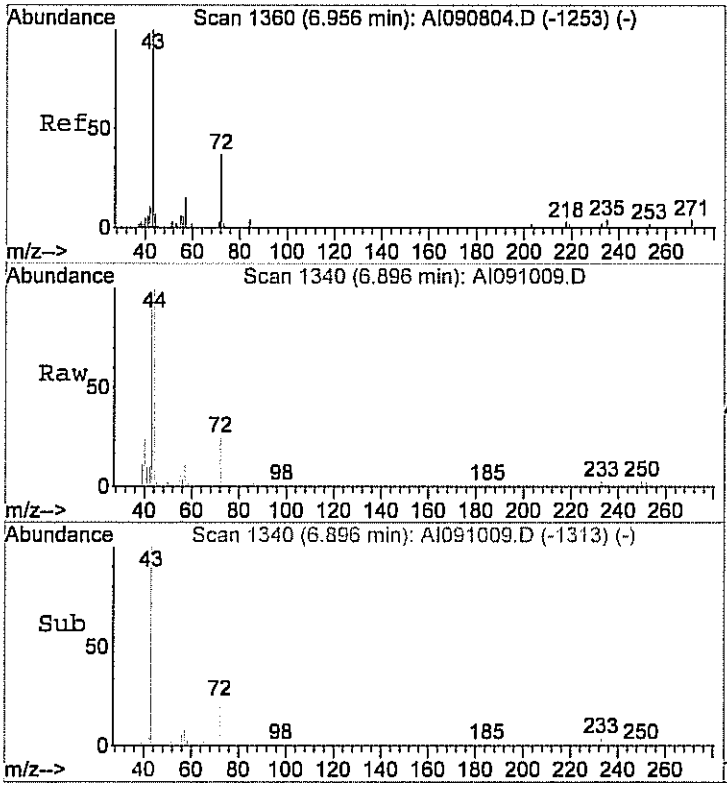


#20
Carbon disulfide
Concen: 0.26 ppb
RT: 5.27 min Scan# 797
Delta R.T. -0.02 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 76 Resp: 10442

Ion	Ratio	Lower	Upper
76	100		
78	6.7	0.0	29.6

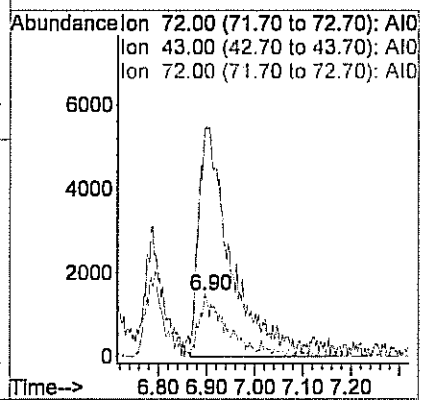


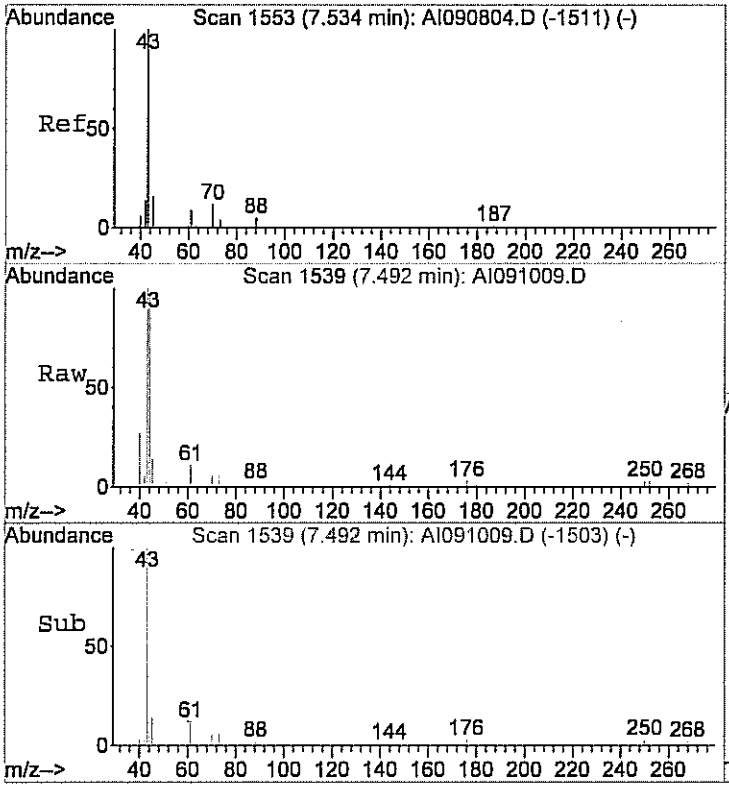


#25
Methyl Ethyl Ketone
Concen: 1.36 ppb m
RT: 6.90 min Scan# 1340
Delta R.T. -0.07 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 72 Resp: 6361

Ion	Ratio	Lower	Upper
72	100		
43	393.5	0.0	20.0#
72	80.6	80.0	120.0

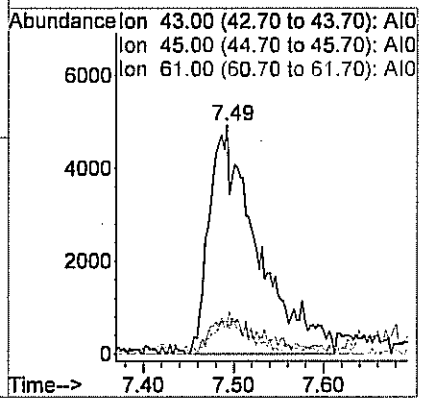


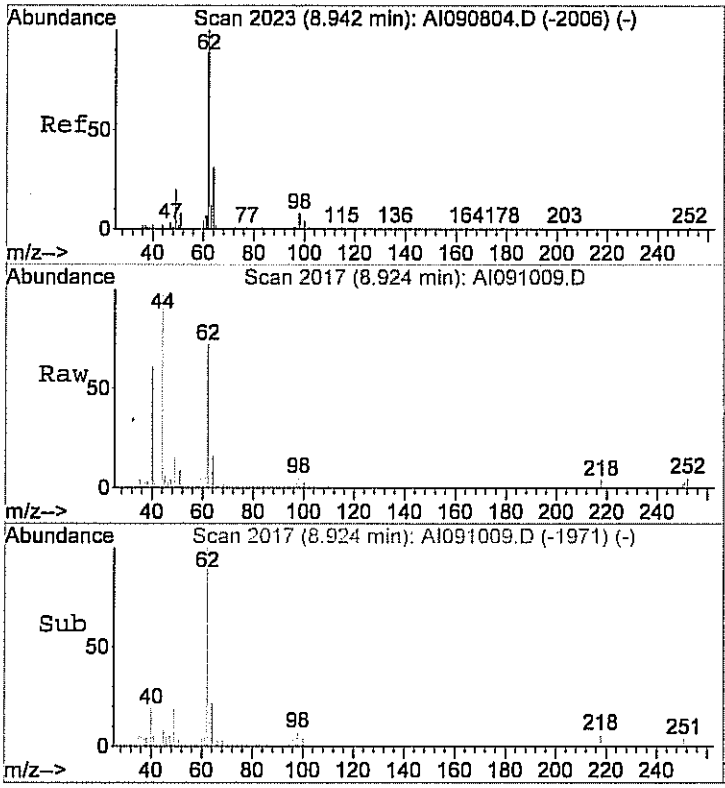


#28
Ethyl acetate
Concen: 0.91 ppb
RT: 7.49 min Scan# 1539
Delta R.T. -0.04 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 43 Resp: 18415

Ion	Ratio	Lower	Upper
43	100		
45	17.2	0.0	34.5
61	11.9	0.0	34.0

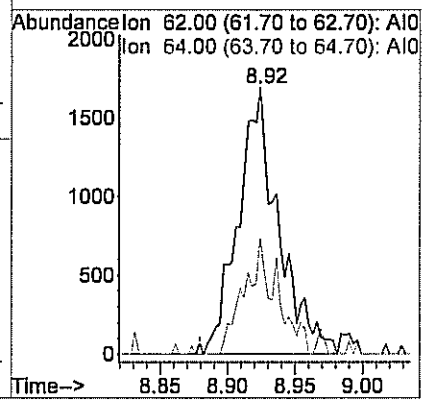


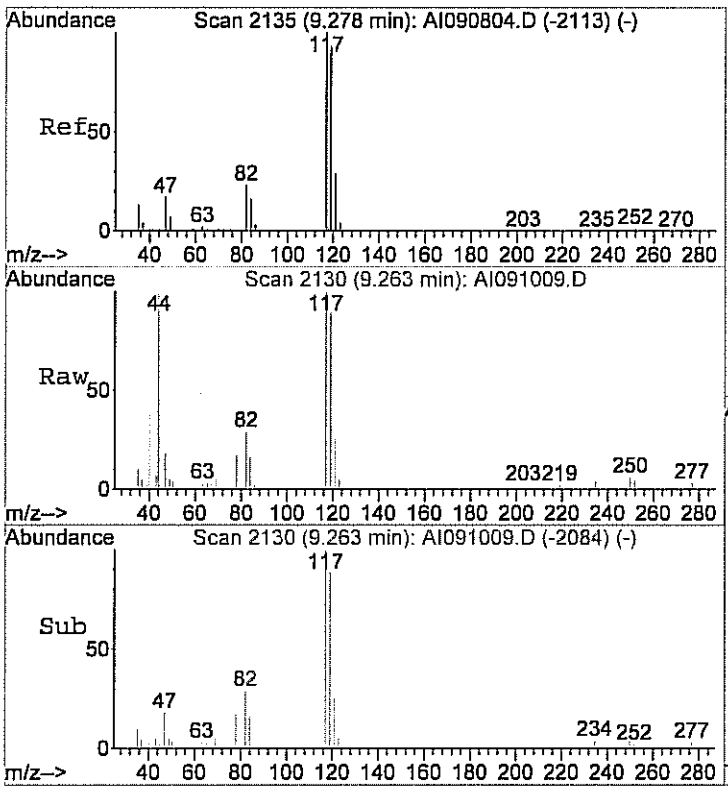


#31
1,2-dichloroethane
Concen: 0.13 ppb
RT: 8.92 min Scan# 2017
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 62 Resp: 3505

Ion	Ratio	Lower	Upper
62	100		
64	35.3	12.2	52.2

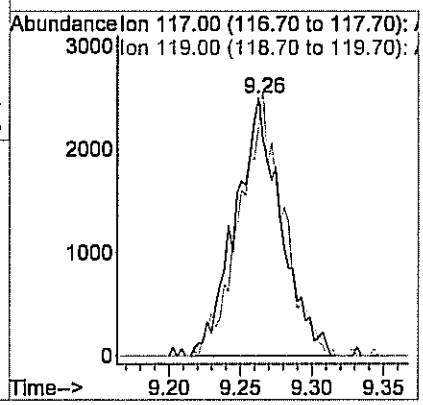


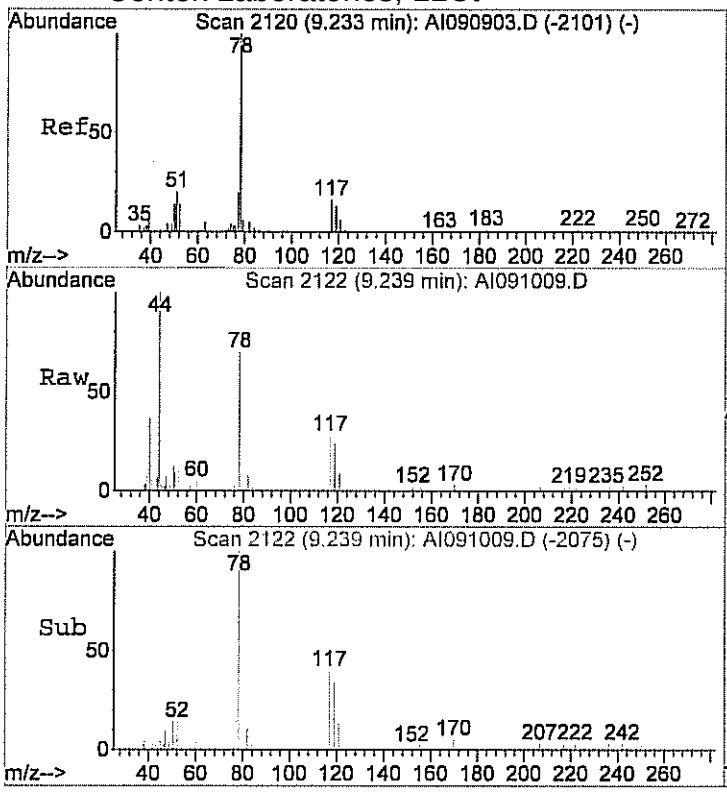


#35
Carbon tetrachloride
Concen: 0.12 ppb
RT: 9.26 min Scan# 2130
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:117 Resp: 5546

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.2	117.2

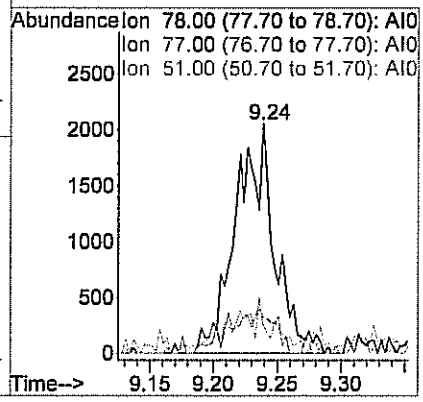


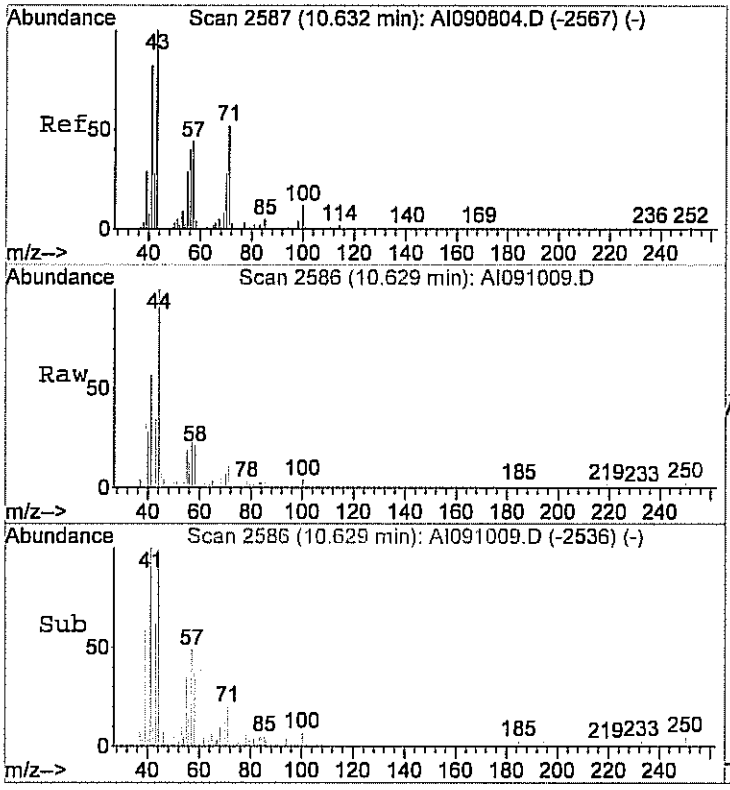


#36
Benzene
Concen: 0.11 ppb
RT: 9.24 min Scan# 2122
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 78 Resp: 4327

Ion	Ratio	Lower	Upper
78	100		
77	19.4	5.2	45.2
51	8.4	0.0	37.6

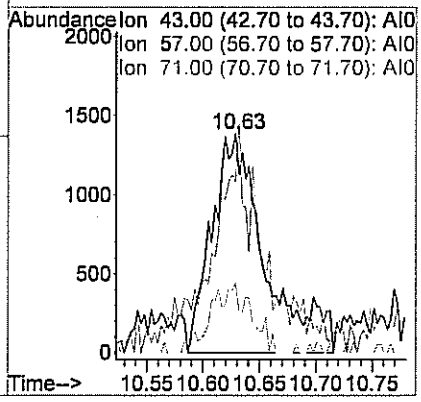


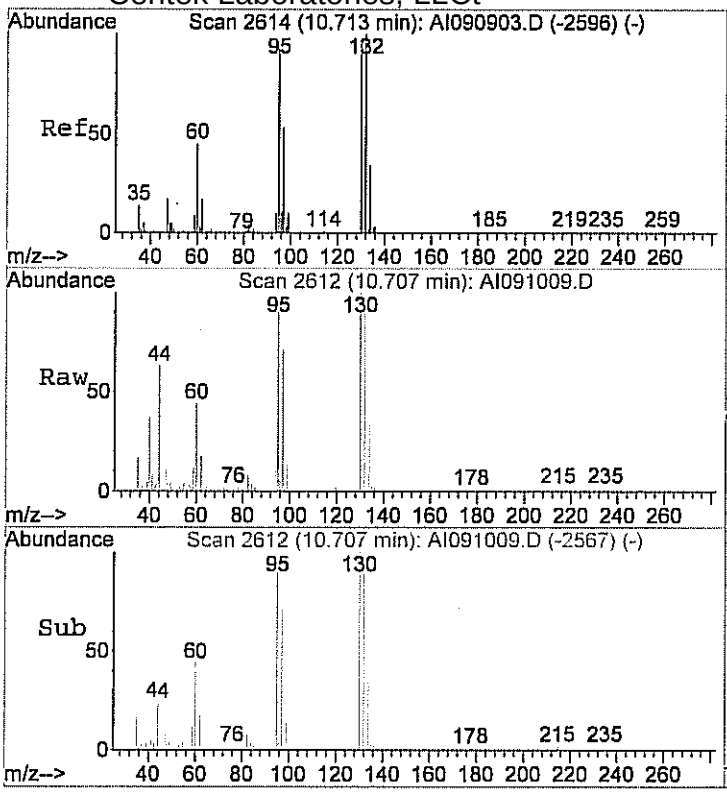


#40
Heptane
Concen: 0.32 ppb
RT: 10.63 min Scan# 2586
Delta R.T. 0.00 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 43 Resp: 4509

Ion	Ratio	Lower	Upper
43	100		
57	84.7	32.1	72.1#
71	21.5	35.5	75.5#

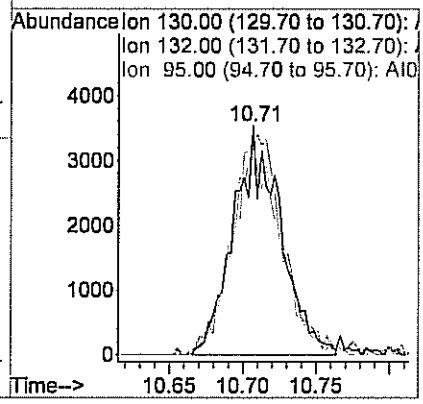


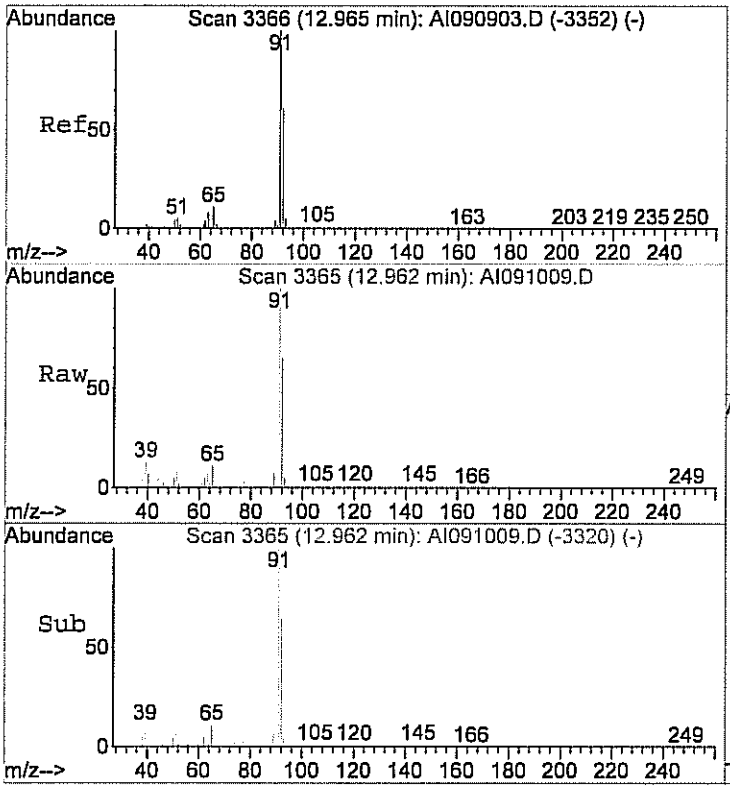


#41
Trichloroethene
Concen: 0.34 ppb
RT: 10.71 min Scan# 2612
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:130 Resp: 7881

Ion	Ratio	Lower	Upper
130	100		
132	103.2	79.0	119.0
95	96.6	76.8	116.8

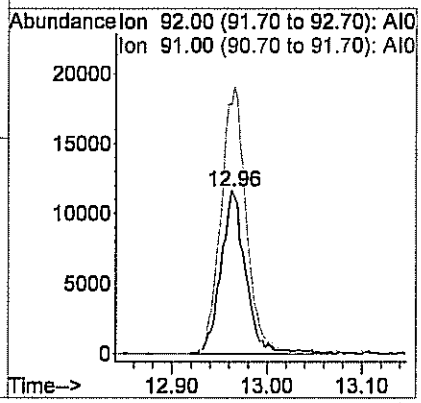


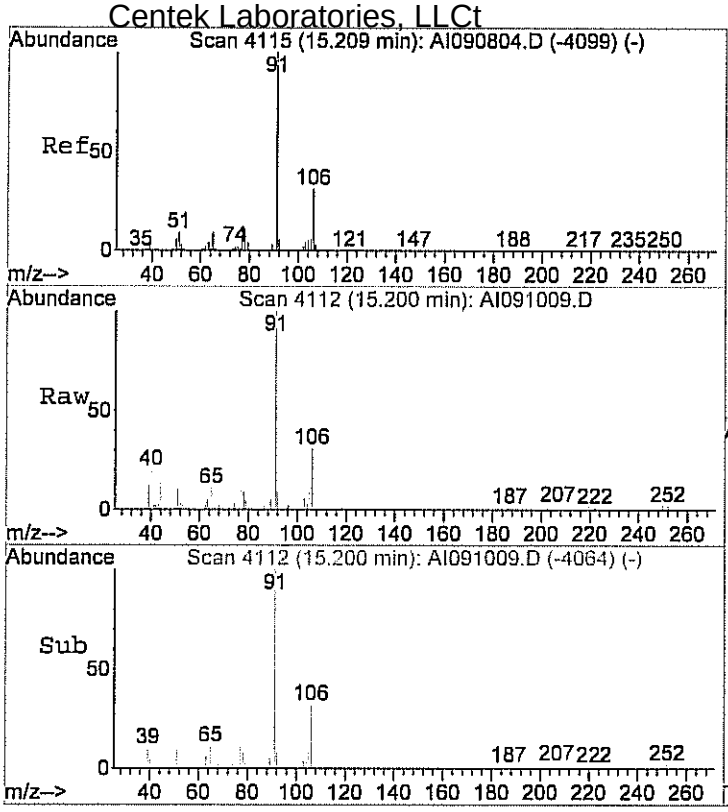


#48
Toluene
Concen: 0.83 ppb
RT: 12.96 min Scan# 3365
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 92 Resp: 21088

Ion	Ratio	Lower	Upper
92	100		
91	169.4	159.8	199.8

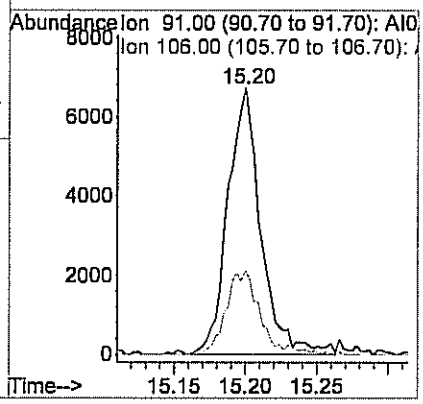


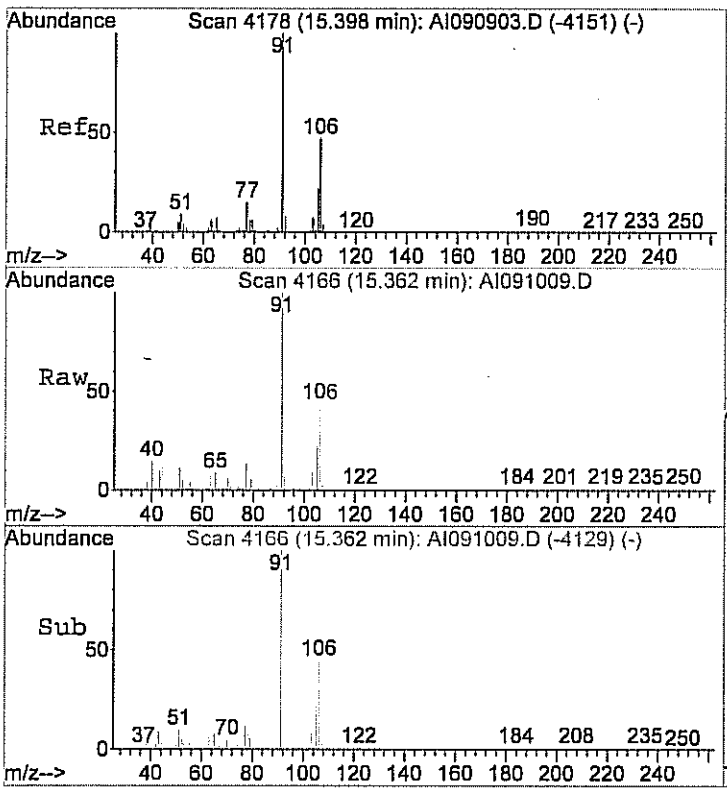


#55
Ethylbenzene
Concen: 0.21 ppb
RT: 15.20 min Scan# 4112
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 91 Resp: 10822

Ion	Ratio	Lower	Upper
91	100		
106	32.3	10.7	50.7

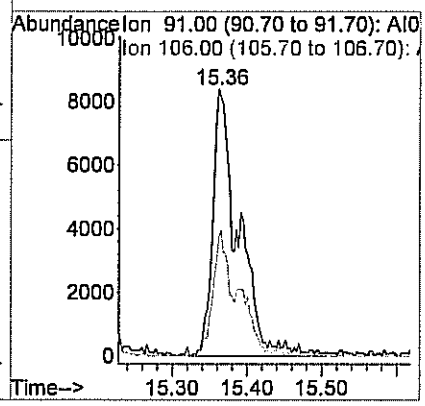


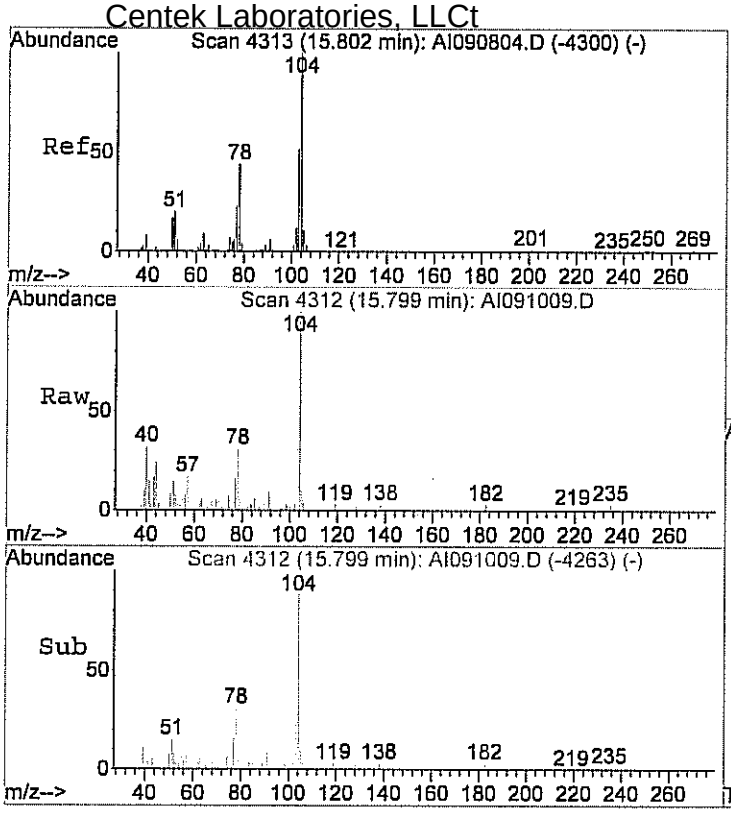


#56
m&p-xylene
Concen: 0.48 ppb
RT: 15.36 min Scan# 4166
Delta R.T. -0.04 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 91 Resp: 20239

Ion	Ratio	Lower	Upper
91	100		
106	44.8	27.5	67.5

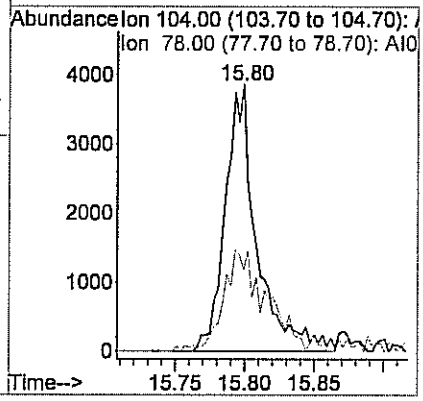


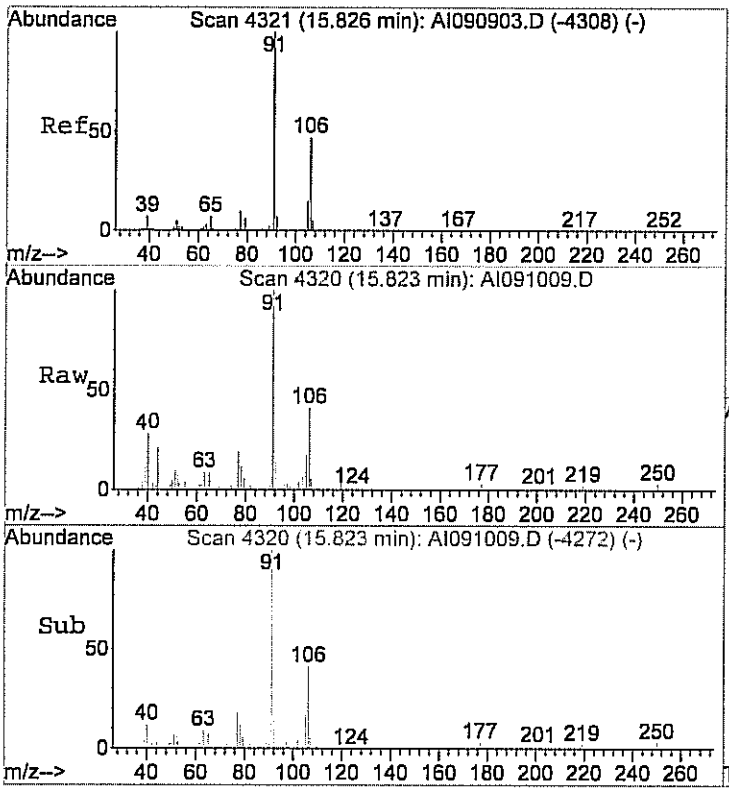


#57
Styrene
Concen: 0.24 ppb
RT: 15.80 min Scan# 4312
Delta R.T. -0.00 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:104 Resp: 6058

Ion	Ratio	Lower	Upper
104	100		
78	51.3	36.7	76.7

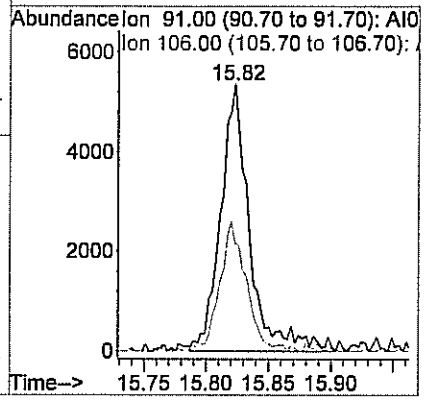


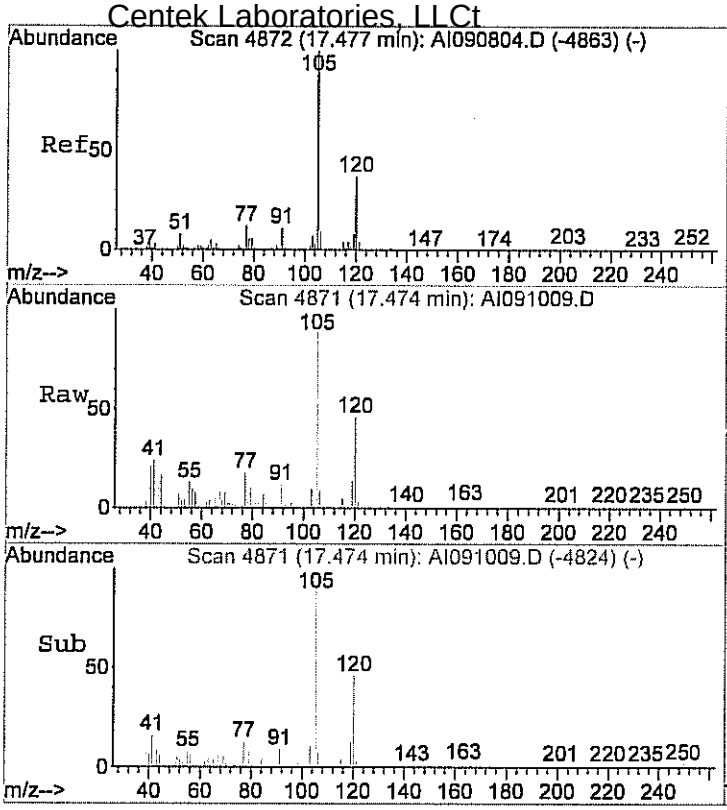


#59
o-xylene
Concen: 0.17 ppb
RT: 15.82 min Scan# 4320
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion: 91 Resp: 8636

Ion	Ratio	Lower	Upper
91	100		
106	44.2	26.2	66.2

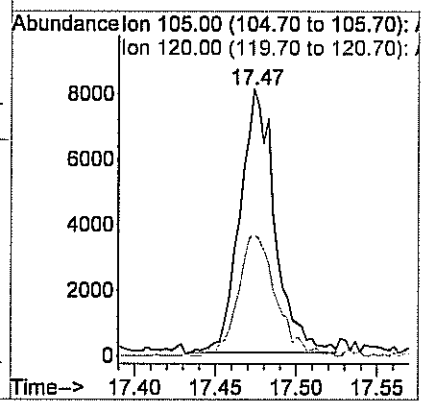




#65
1,2,4-trimethylbenzene
Concen: 0.34 ppb
RT: 17.47 min Scan# 4871
Delta R.T. -0.01 min
Lab File: AI091009.D
Acq: 10 Sep 2011 1:44 pm

Tgt Ion:105 Resp: 12156

Ion	Ratio	Lower	Upper
105	100		
120	49.9	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091015.D Vial: 15
Acq On : 10 Sep 2011 5:03 pm Operator: RJP
Sample : C1109015-004A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 17:24:09 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

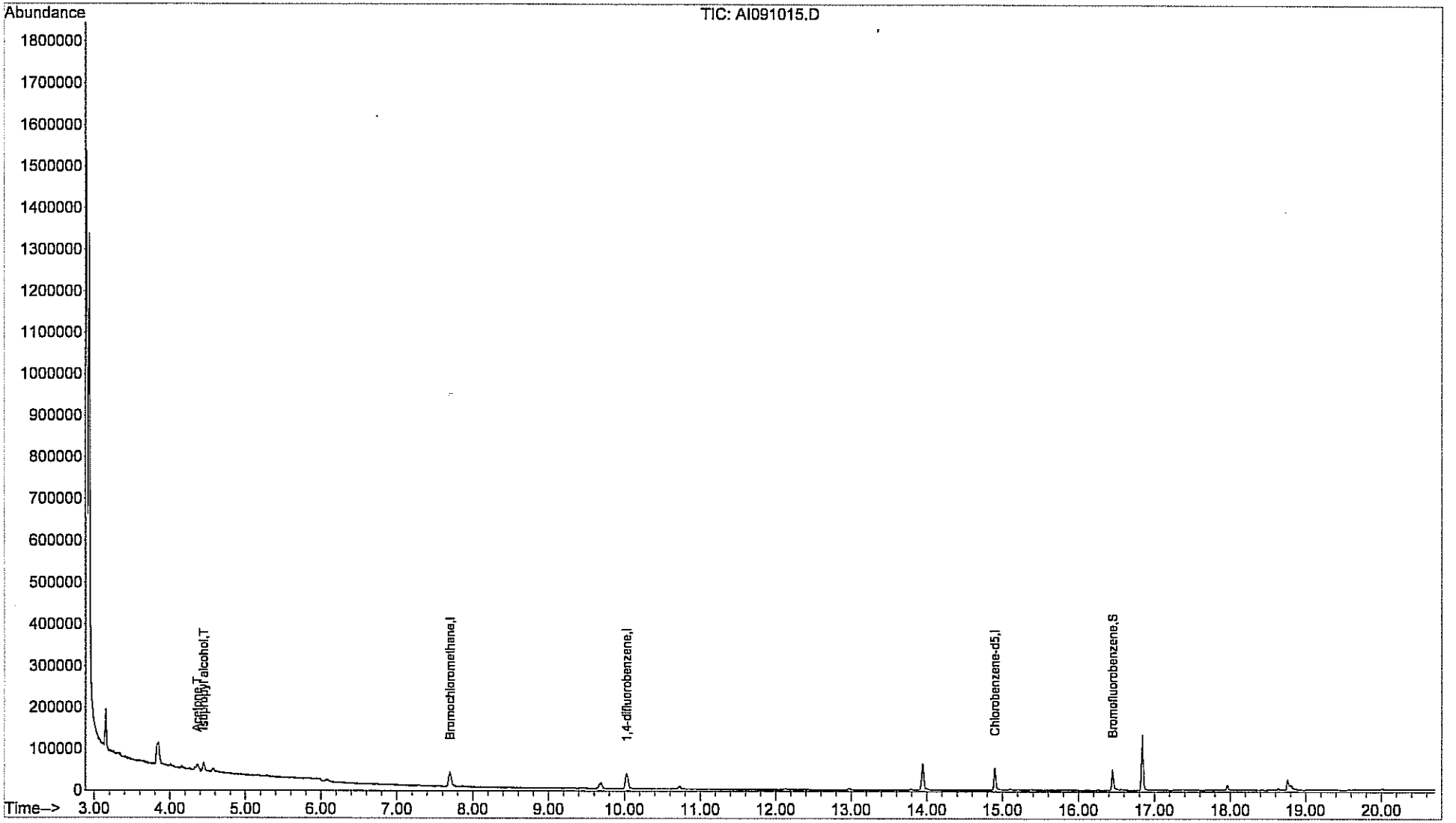
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13994	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	39259	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33488	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16120	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
14) Acetone	4.37	58	9546	1.93	ppb	# 70
15) Isopropyl alcohol	4.45	45	20110	1.99	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

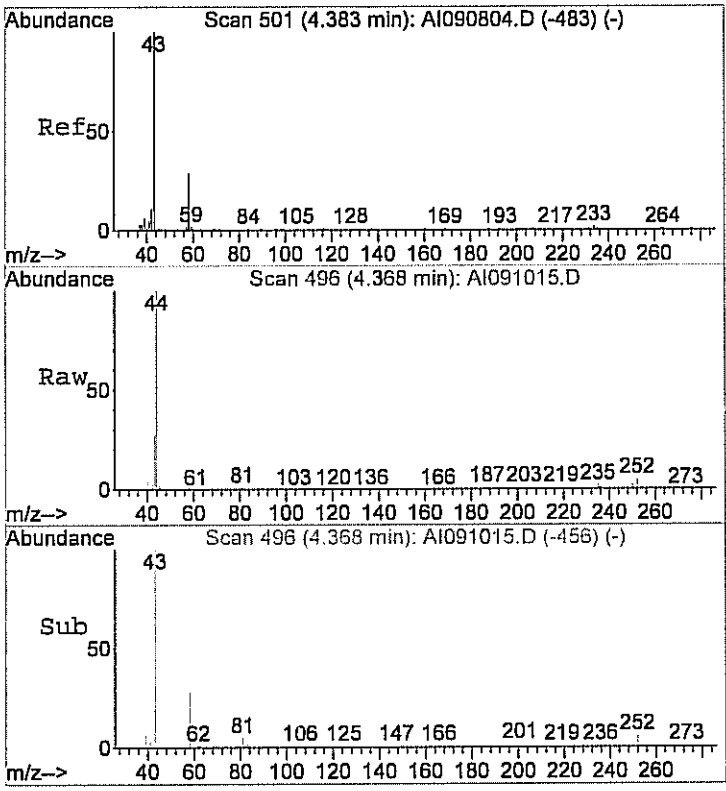
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091015.D Vial: 15
Acq On : 10 Sep 2011 5:03 pm Operator: RJP
Sample : C1109015-004A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 14 16:38 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



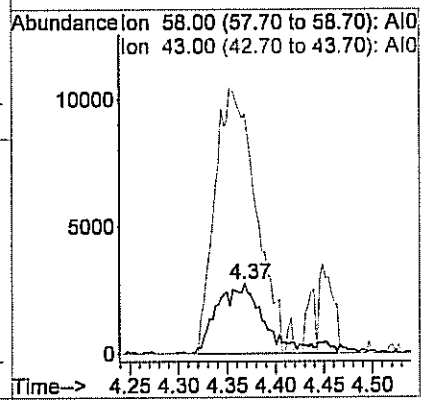
Centek Laboratories, LLCt

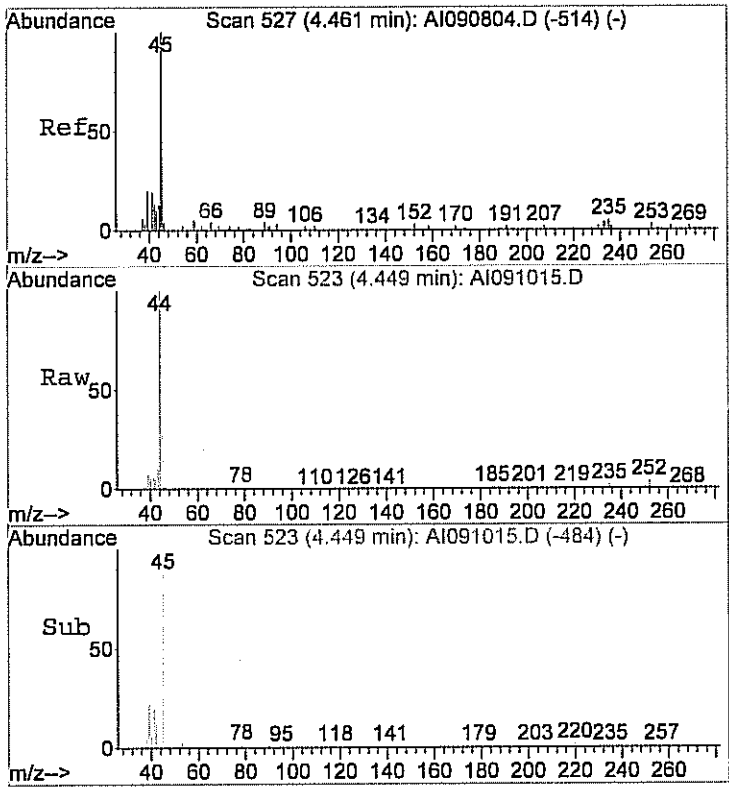


#14
Acetone
Concen: 1.93 ppb
RT: 4.37 min Scan# 496
Delta R.T. -0.03 min
Lab File: AI091015.D
Acq: 10 Sep 2011 5:03 pm

Tgt Ion: 58 Resp: 9546

Ion	Ratio	Lower	Upper
58	100		
43	319.9	360.8	420.8#

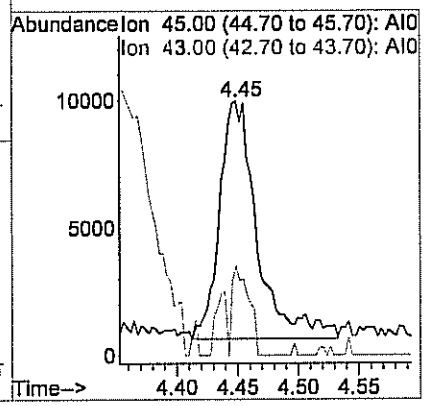




#15
Isopropyl alcohol
Concen: 1.99 ppb
RT: 4.45 min Scan# 523
Delta R.T. -0.03 min
Lab File: AI091015.D
Acq: 10 Sep 2011 5:03 pm

Tgt Ion: 45 Resp: 20110

Ion	Ratio	Lower	Upper
45	100		
43	16.7	0.0	20.0



Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.16	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Acetone	22	3.0		ppbV	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Benzene	0.12	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.11	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloromethane	0.53	0.15		ppbV	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.12	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 12	0.58	0.15		ppbV	1	9/10/2011 2:18:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
m&p-Xylene	0.25	0.30	J	ppbV	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	2.9	3.0	J	ppbV	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Methylene chloride	0.26	0.15		ppbV	1	9/10/2011 2:18:00 PM
o-Xylene	0.10	0.15	J	ppbV	1	9/10/2011 2:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	0.45	0.15		ppbV	1	9/10/2011 2:18:00 PM
Toluene	1.5	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Trichloroethene	0.47	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.80	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Acetone	53	7.2		ug/m3	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:18:00 PM
Benzene	0.39	0.49	J	ug/m3	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.35	0.47	J	ug/m3	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.90	0.96	J	ug/m3	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:18:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:18:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.48	0.60	J	ug/m3	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/10/2011 2:18:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 2:18:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 2:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/10/2011 2:18:00 PM
m&p-Xylene	1.1	1.3	J	ug/m3	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	8.7	9.0	J	ug/m3	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:18:00 PM
Methylene chloride	0.92	0.53		ug/m3	1	9/10/2011 2:18:00 PM
o-Xylene	0.44	0.66	J	ug/m3	1	9/10/2011 2:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	1.3	0.45		ug/m3	1	9/10/2011 2:18:00 PM
Toluene	5.8	0.57		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Trichloroethene	2.6	0.82		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091010.D
Acq On : 10 Sep 2011 2:18 pm
Sample : C1109015-005A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 10 14:39:11 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	14384	1.00	ppb		-0.01
32) 1,4-difluorobenzene	10.01	114	42532	1.00	ppb		-0.01
47) Chlorobenzene-d5	14.89	117	37318	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	17749	0.94	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	35725	0.58	ppb		100
4) Chloromethane	3.12	50	8242	0.53	ppb		84
13) Freon 11	4.16	101	14184	0.30	ppb		99
14) Acetone	4.32	58	85492	16.84	ppb	#	53
17) Freon 113	4.93	101	3844	0.11	ppb		96
18) Methylene chloride	5.15	84	3339	0.26	ppb		97
20) Carbon disulfide	5.27	76	4427	0.11	ppb		100
25) Methyl Ethyl Ketone	6.91	72	13571	2.88	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	2621	0.12	ppb		94
30) Tetrahydrofuran	8.07	42	4053	0.45	ppb		92
35) Carbon tetrachloride	9.26	117	5747	0.14	ppb		97
36) Benzene	9.23	78	4260	0.12	ppb		94
41) Trichloroethene	10.71	130	10368	0.47	ppb		96
48) Toluene	12.96	92	37029	1.52	ppb		95
56) m&p-xylene	15.36	91	10135	0.25	ppb		100
59) o-xylene	15.82	91	4812	0.10	ppb		97
64) 1,3,5-trimethylbenzene	17.07	105	6923	0.16	ppb		75
65) 1,2,4-trimethylbenzene	17.47	105	11570	0.34	ppb		96

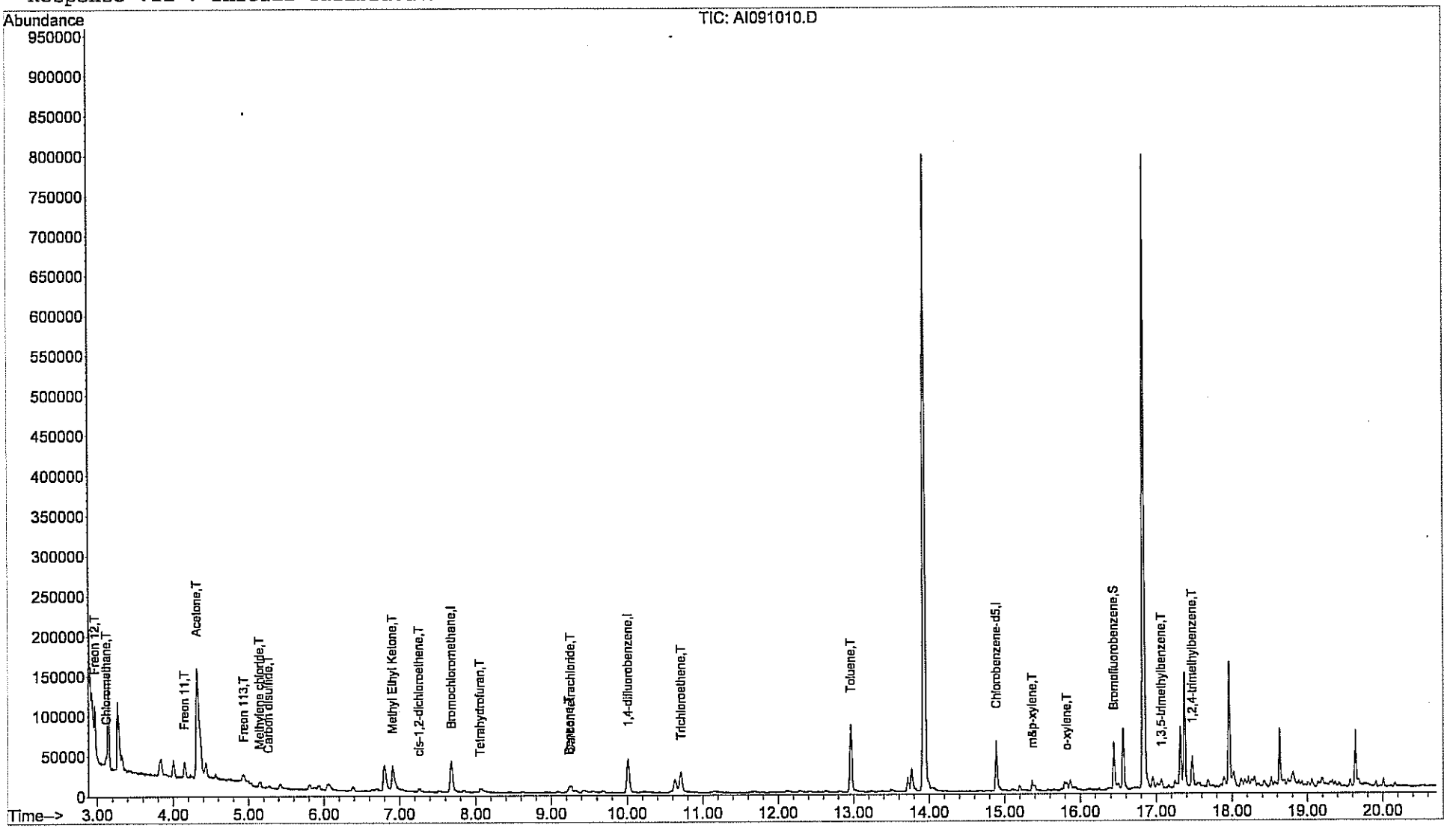
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

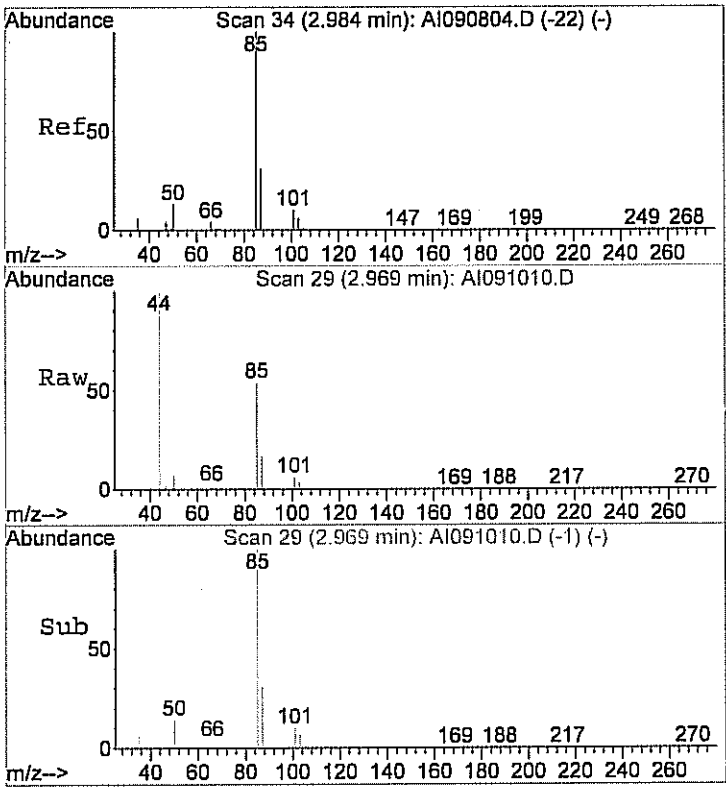
Data File : C:\HPCHEM\1\DATA\AI091010.D
Acq On : 10 Sep 2011 2:18 pm
Sample : C1109015-005A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 13 14:04 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



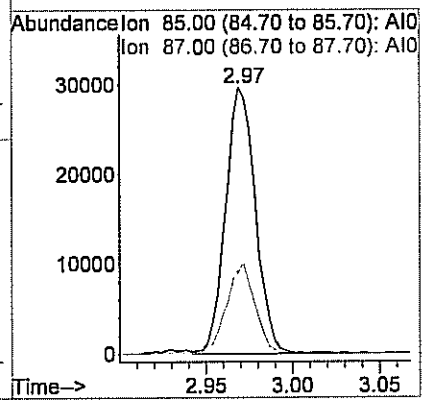
Centek Laboratories, LLCt

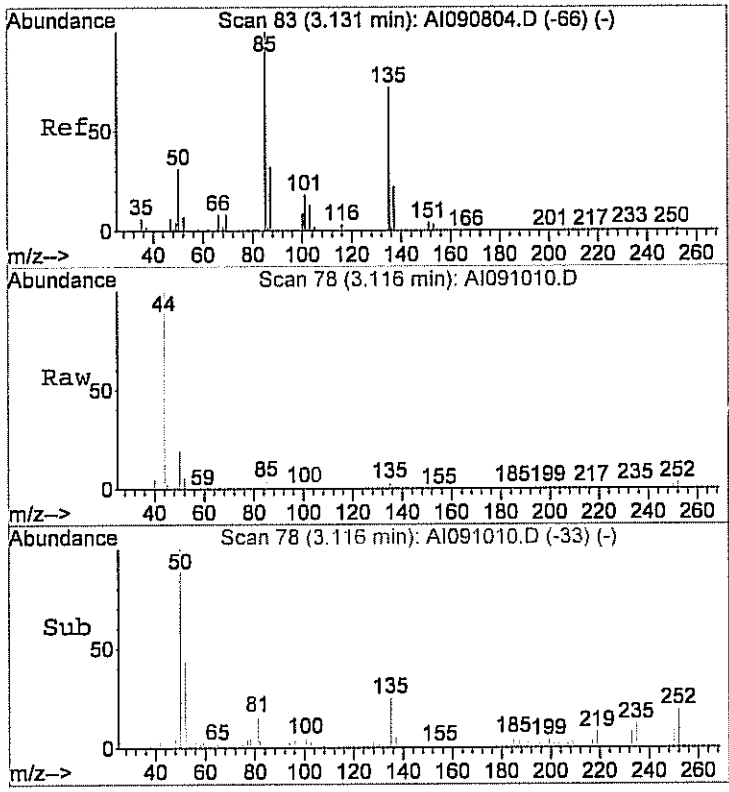


#3
Freon 12
Concen: 0.58 ppb
RT: 2.97 min Scan# 29
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 85 Resp: 35725

Ion	Ratio	Lower	Upper
85	100		
87	32.1	12.2	52.2

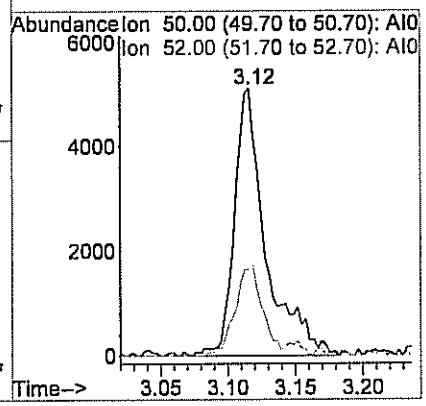


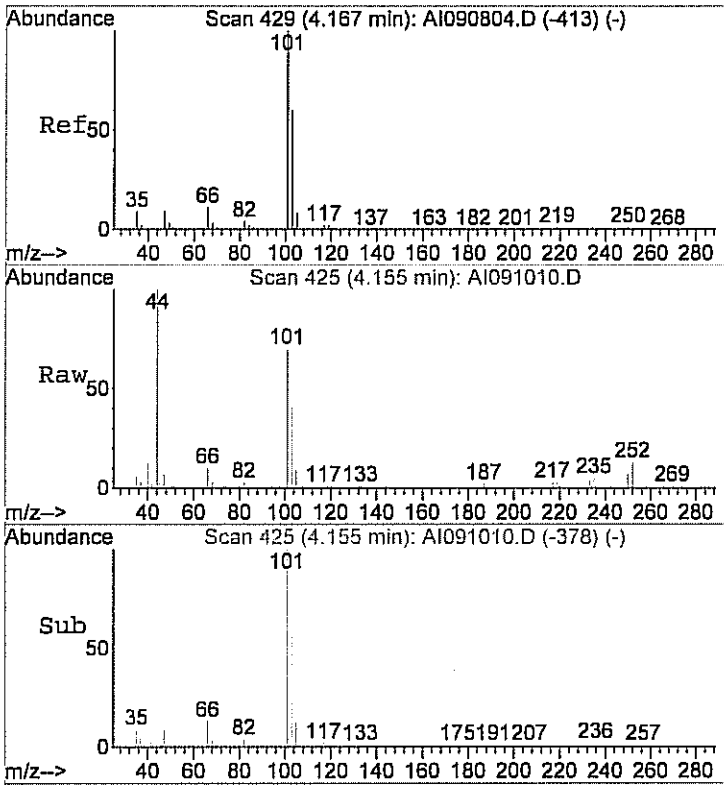


#4
Chloromethane
Concen: 0.53 ppb
RT: 3.12 min Scan# 78
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 50 Resp: 8242

Ion	Ratio	Lower	Upper
50	100		
52	32.1	4.1	44.1

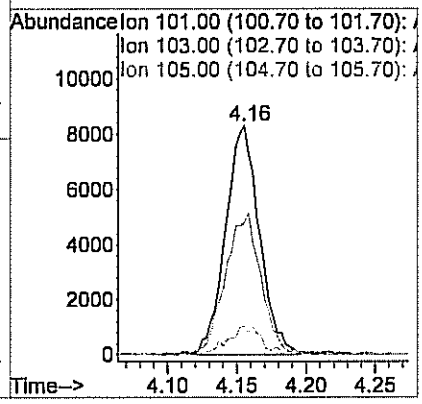


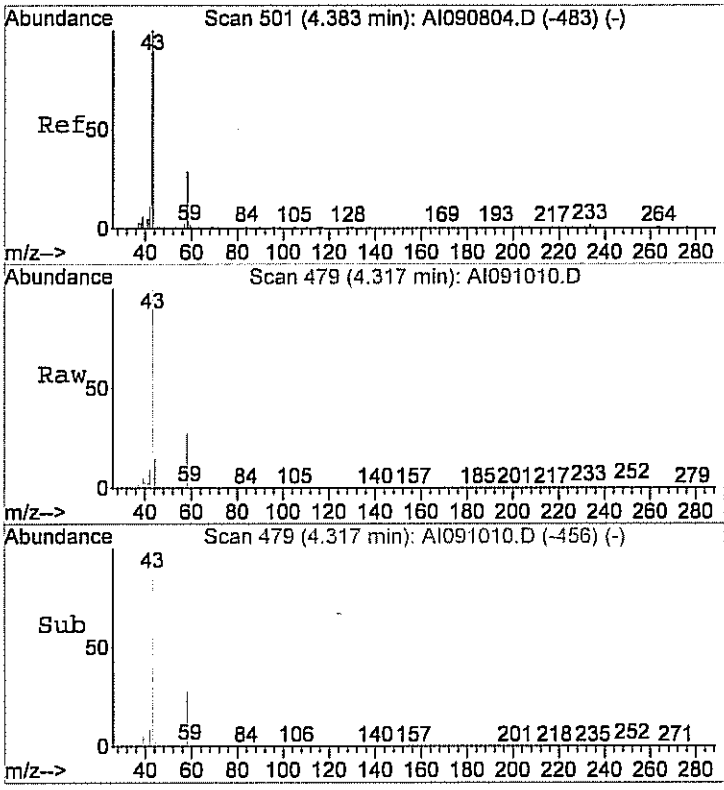


#13
Freon 11
Concen: 0.30 ppb
RT: 4.16 min Scan# 425
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:101 Resp: 14184

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.9	84.9
105	12.6	0.0	30.9

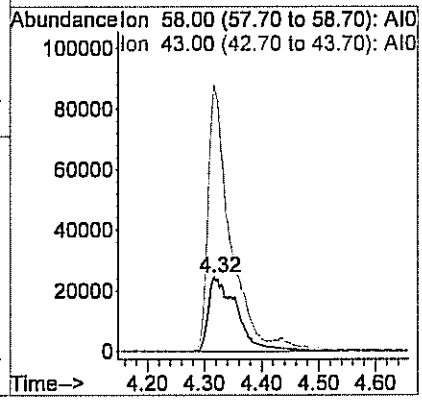


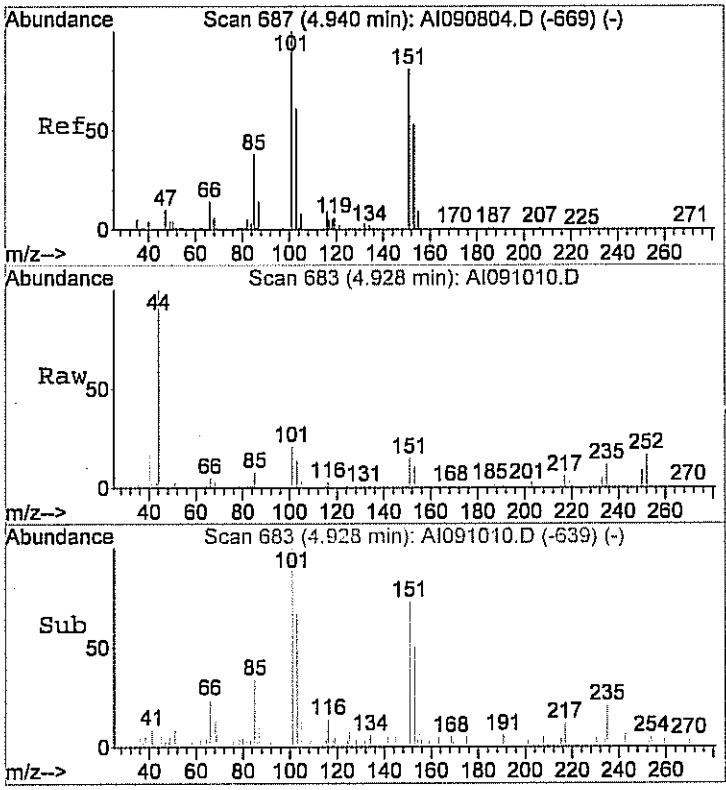


#14
Acetone
Concen: 16.84 ppb
RT: 4.32 min Scan# 479
Delta R.T. -0.08 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 58 Resp: 85492

Ion	Ratio	Lower	Upper
58	100		
43	281.8	360.8	420.8#

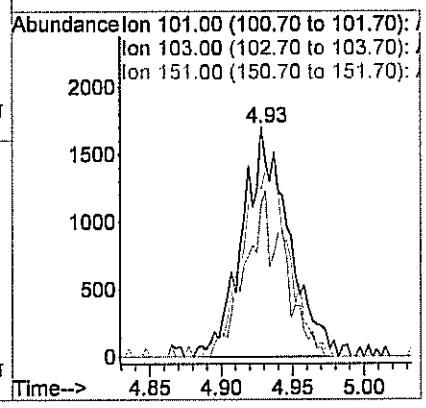


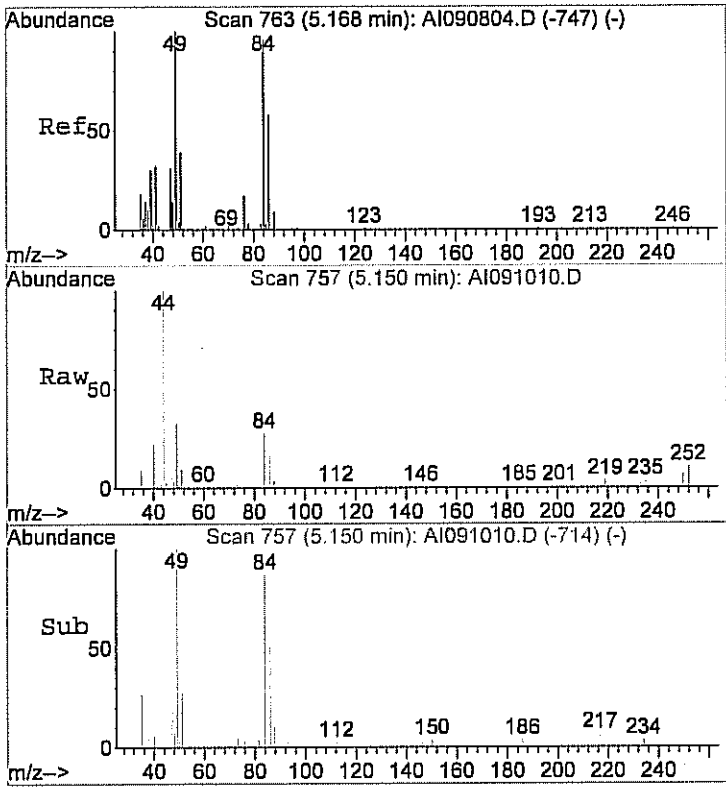


#17
Freon 113
Concen: 0.11 ppb
RT: 4.93 min Scan# 683
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:101 Resp: 3844

Ion	Ratio	Lower	Upper
101	100		
103	61.2	44.3	84.3
151	83.9	61.0	101.0

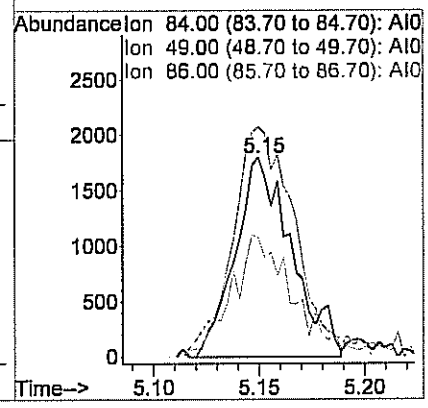


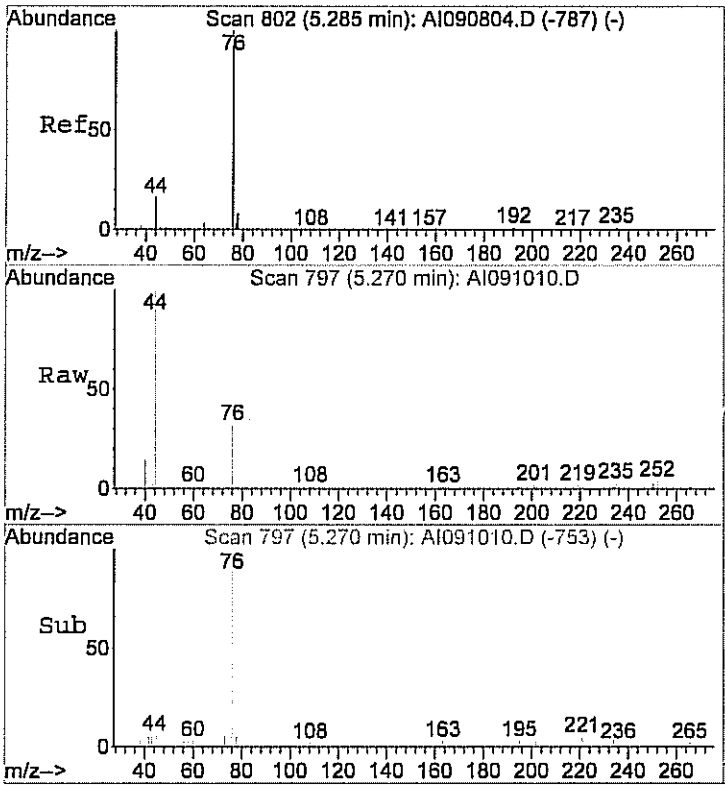


#18
Methylene chloride
Concen: 0.26 ppb
RT: 5.15 min Scan# 757
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 84 Resp: 3339

Ion	Ratio	Lower	Upper
84	100		
49	131.5	116.9	156.9
86	67.2	46.7	86.7

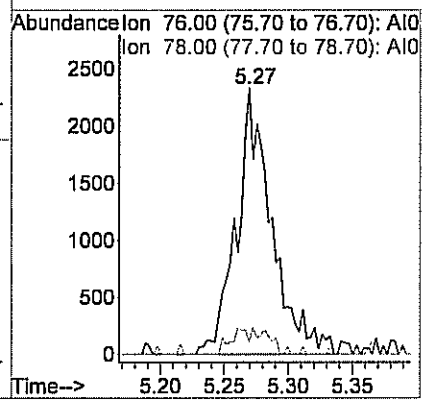


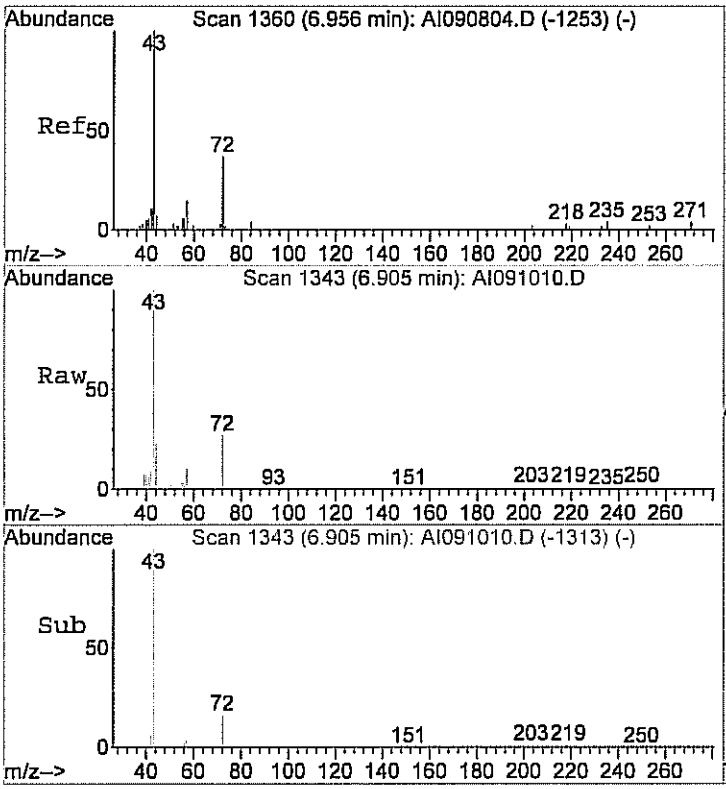


#20
Carbon disulfide
Concen: 0.11 ppb
RT: 5.27 min Scan# 797
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 76 Resp: 4427

Ion	Ratio	Lower	Upper
76	100		
78	9.8	0.0	29.6

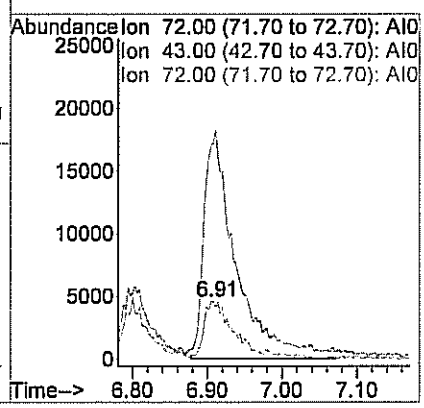


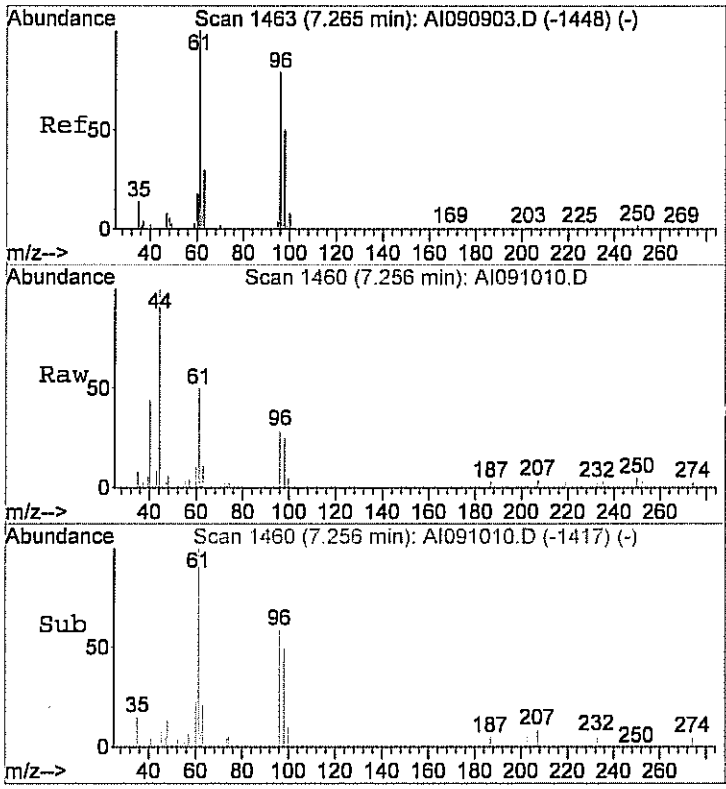


#25
Methyl Ethyl Ketone
Concen: 2.88 ppb
RT: 6.91 min Scan# 1343
Delta R.T. -0.06 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 72 Resp: 13571

Ion	Ratio	Lower	Upper
72	100		
43	377.0	0.0	20.0#
72	100.0	80.0	120.0

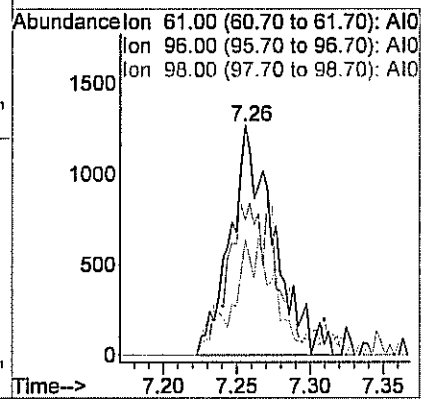


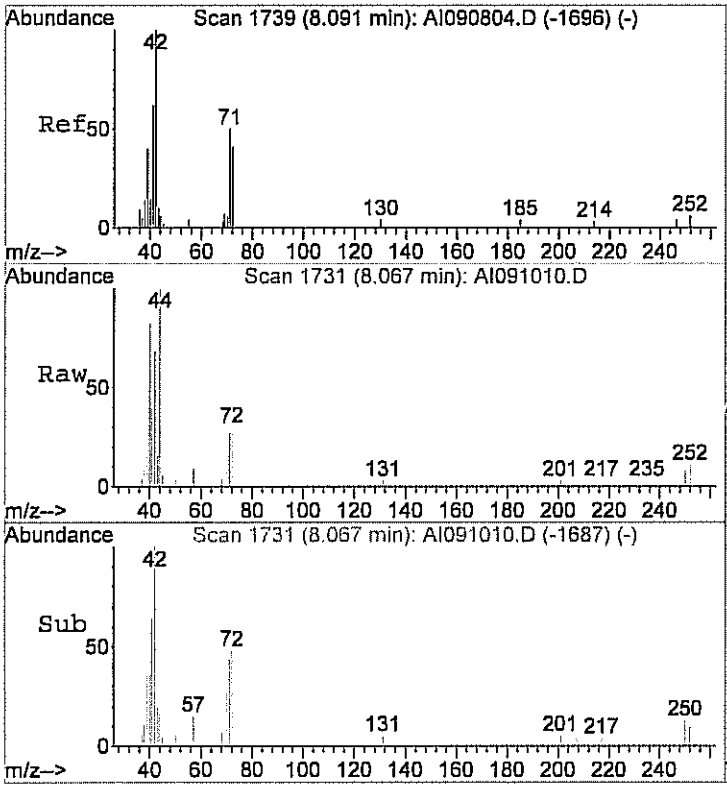


#26
cis-1,2-dichloroethene
Concen: 0.12 ppb
RT: 7.26 min Scan# 1460
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 61 Resp: 2621

Ion	Ratio	Lower	Upper
61	100		
96	81.0	56.6	96.6
98	45.7	30.4	70.4

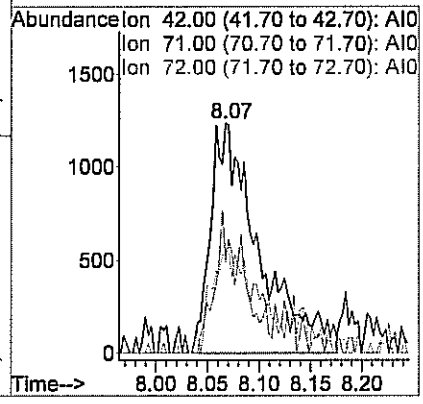


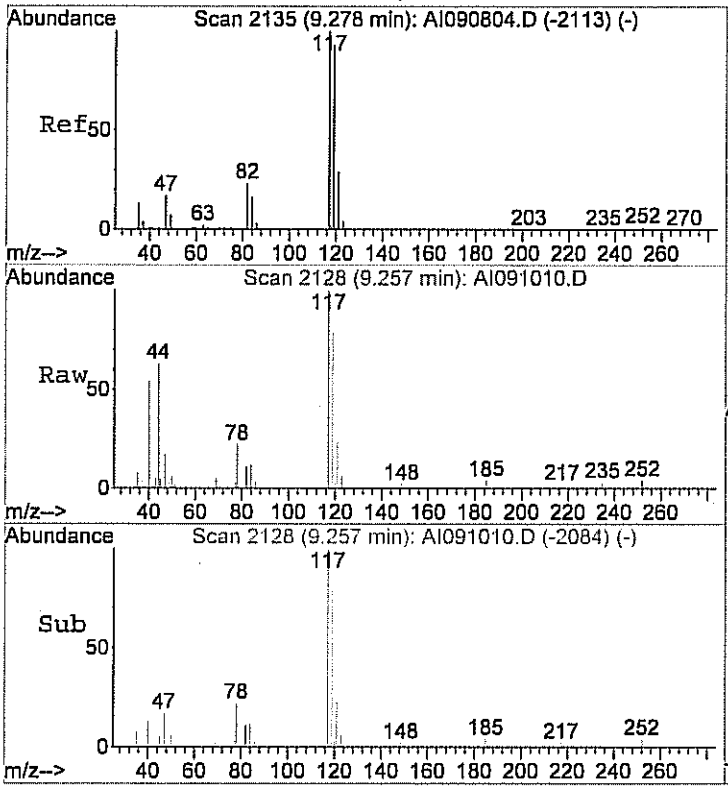


#30
Tetrahydrofuran
Concen: 0.45 ppb
RT: 8.07 min Scan# 1731
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 42 Resp: 4053

Ion	Ratio	Lower	Upper
42	100		
71	38.5	24.6	64.6
72	42.3	26.5	66.5

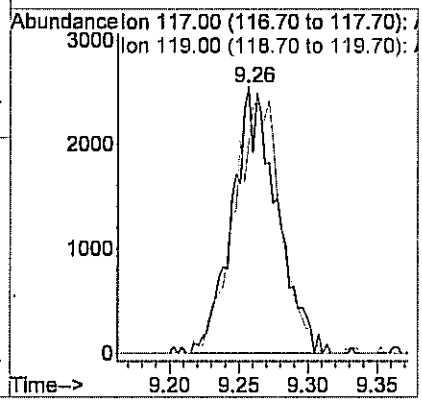


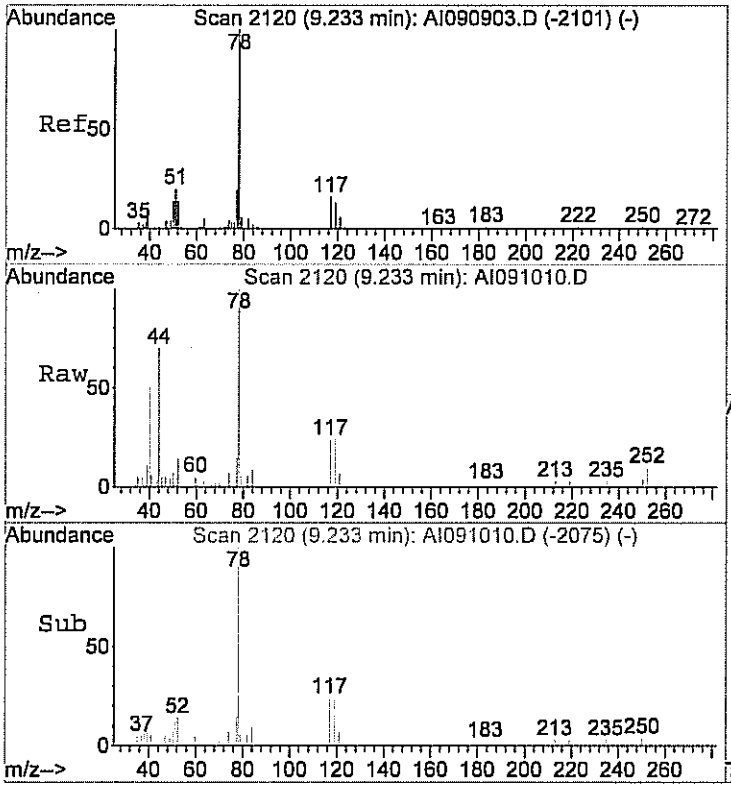


#35
Carbon tetrachloride
Concen: 0.14 ppb
RT: 9.26 min Scan# 2128
Delta R.T. -0.02 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:117 Resp: 5747

Ion	Ratio	Lower	Upper
117	100		
119	100.2	77.2	117.2

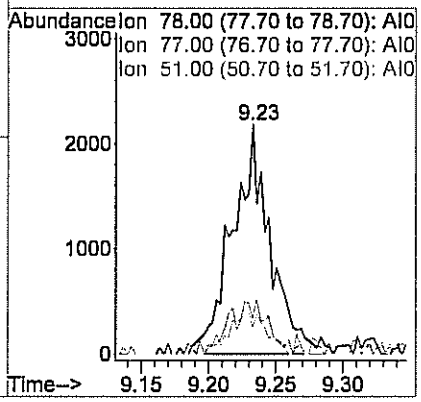


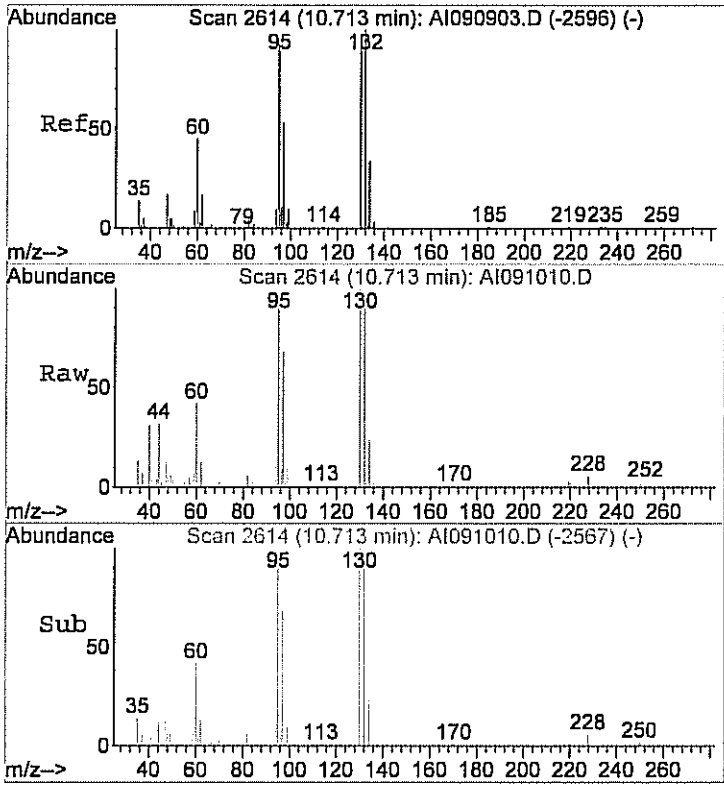


#36
Benzene
Concen: 0.12 ppb
RT: 9.23 min Scan# 2120
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 78 Resp: 4260

Ion	Ratio	Lower	Upper
78	100		
77	22.7	5.2	45.2
51	14.8	0.0	37.6

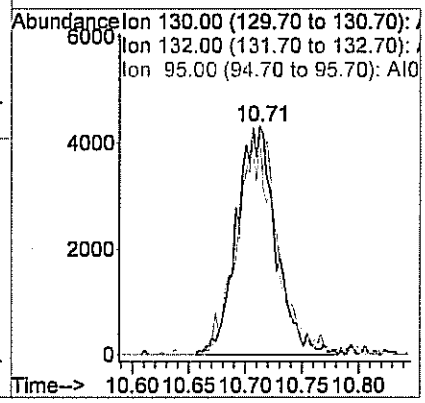


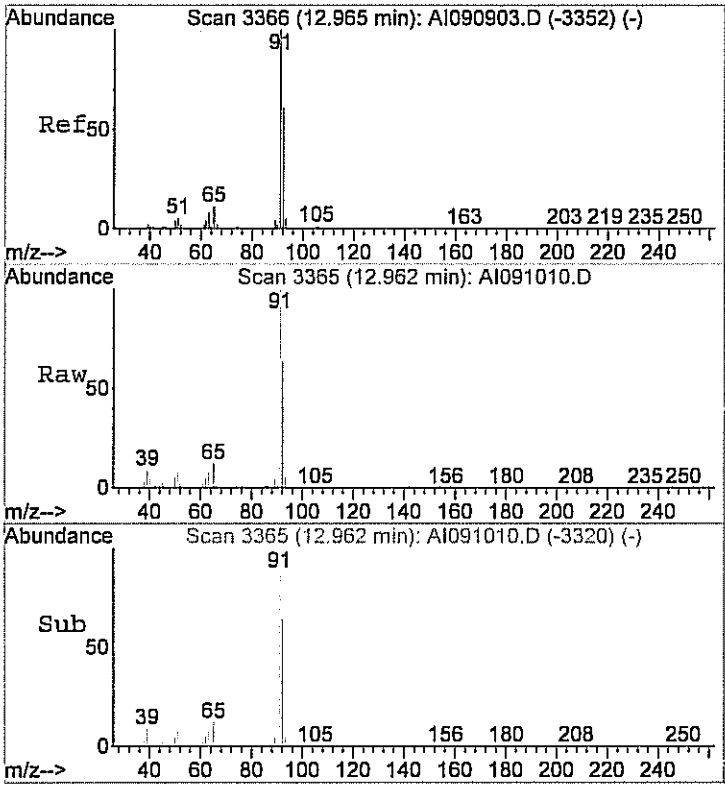


#41
Trichloroethene
Concen: 0.47 ppb
RT: 10.71 min Scan# 2614
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:130 Resp: 10368

Ion	Ratio	Lower	Upper
130	100		
132	103.1	79.0	119.0
95	93.5	76.8	116.8

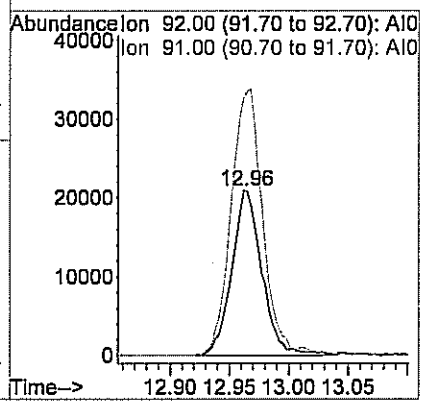


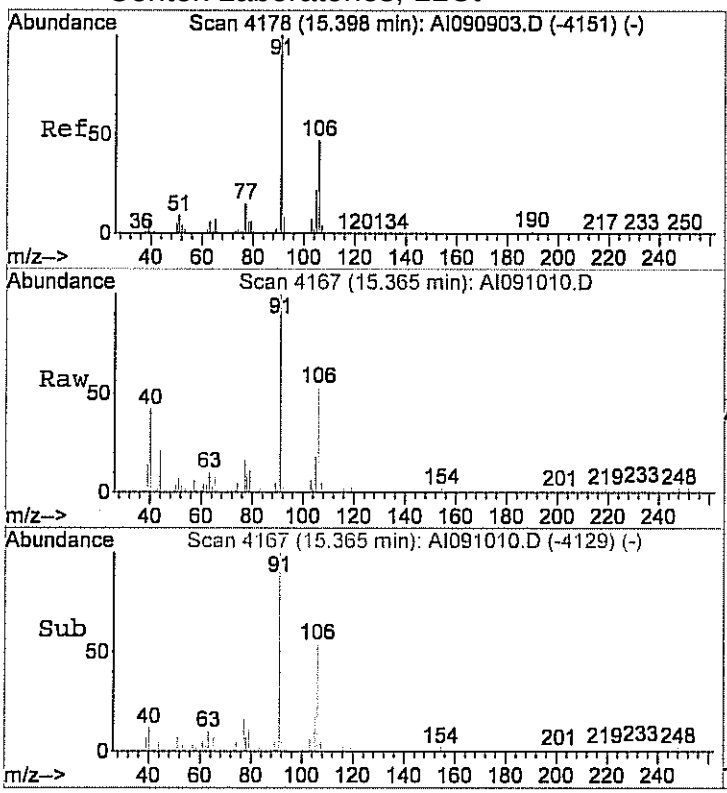


#48
Toluene
Concen: 1.52 ppb
RT: 12.96 min Scan# 3365
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 92 Resp: 37029

Ion	Ratio	Lower	Upper
92	100		
91	172.2	159.8	199.8

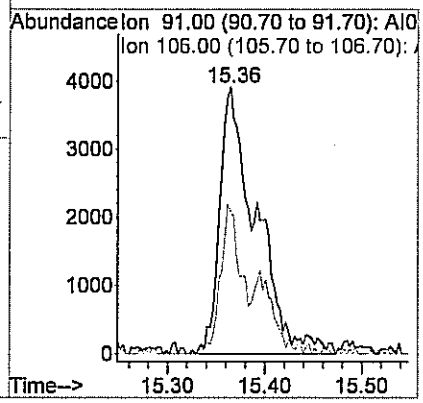


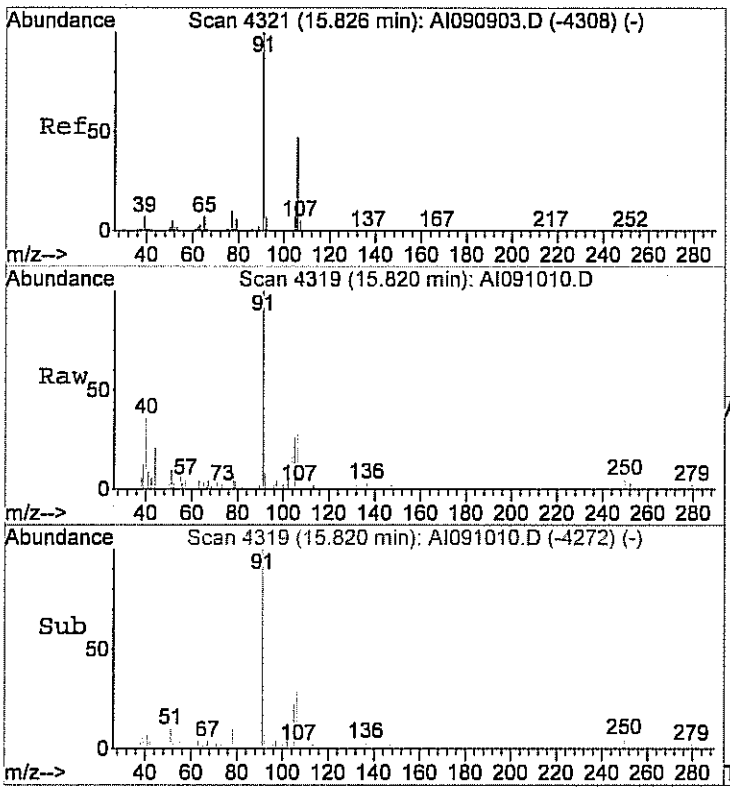


#56
m&p-xylene
Concen: 0.25 ppb
RT: 15.36 min Scan# 4167
Delta R.T. -0.04 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 91 Resp: 10135

Ion	Ratio	Lower	Upper
91	100		
106	47.8	27.5	67.5

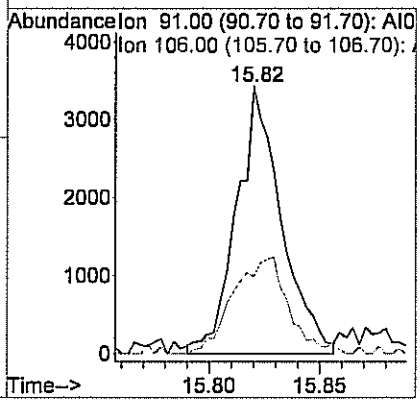


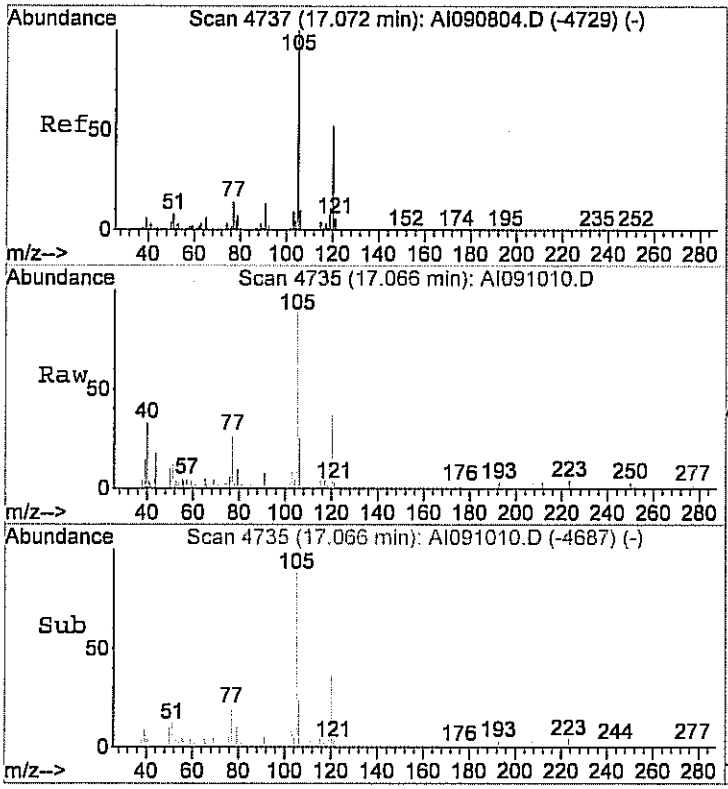


#59
o-xylene
Concen: 0.10 ppb
RT: 15.82 min Scan# 4319
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion: 91 Resp: 4812

Ion	Ratio	Lower	Upper
91	100		
106	44.5	26.2	66.2

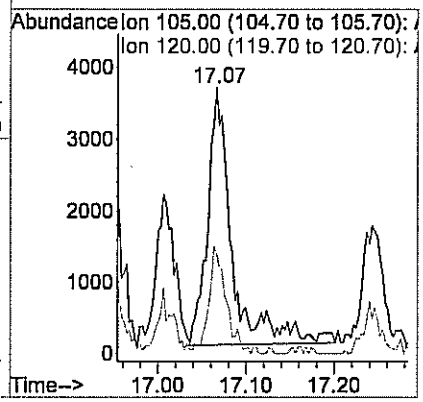


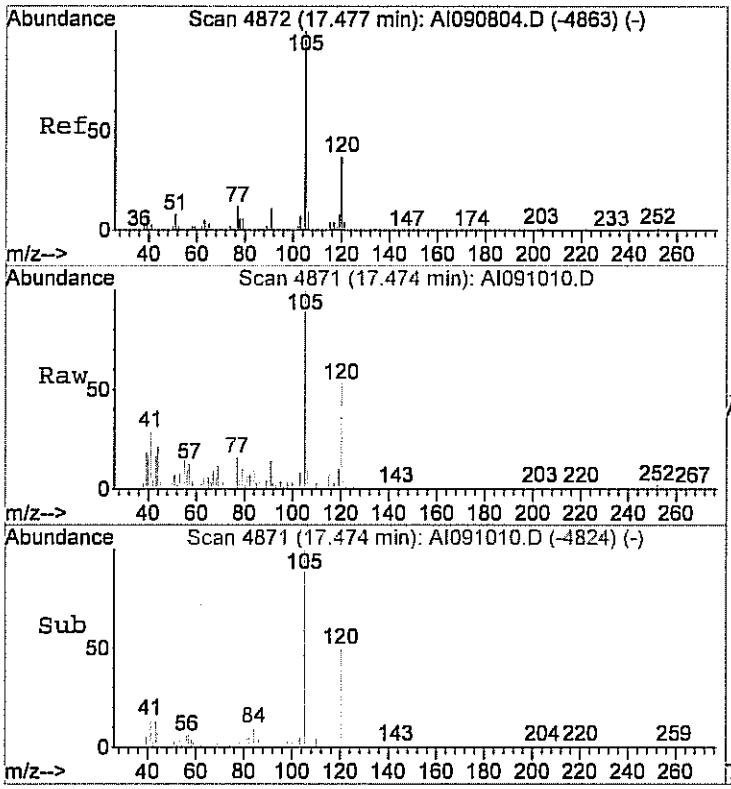


#64
1,3,5-trimethylbenzene
Concen: 0.16 ppb
RT: 17.07 min Scan# 4735
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:105 Resp: 6923

Ion	Ratio	Lower	Upper
105	100		
120	29.4	26.2	66.2

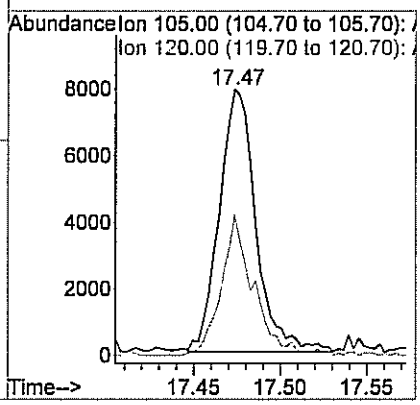




#65
1,2,4-trimethylbenzene
Concen: 0.34 ppb
RT: 17.47 min Scan# 4871
Delta R.T. -0.01 min
Lab File: AI091010.D
Acq: 10 Sep 2011 2:18 pm

Tgt Ion:105 Resp: 11570

Ion	Ratio	Lower	Upper
105	100		
120	47.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091016.D Vial: 16
Acq On : 10 Sep 2011 5:35 pm Operator: RJP
Sample : C1109015-005A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 17:56:40 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13780	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	40030	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33291	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16305	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
14) Acetone	4.37	58	10673	2.19	ppb	# 58
25) Methyl Ethyl Ketone	6.95	72	1313	0.29	ppb	# 100

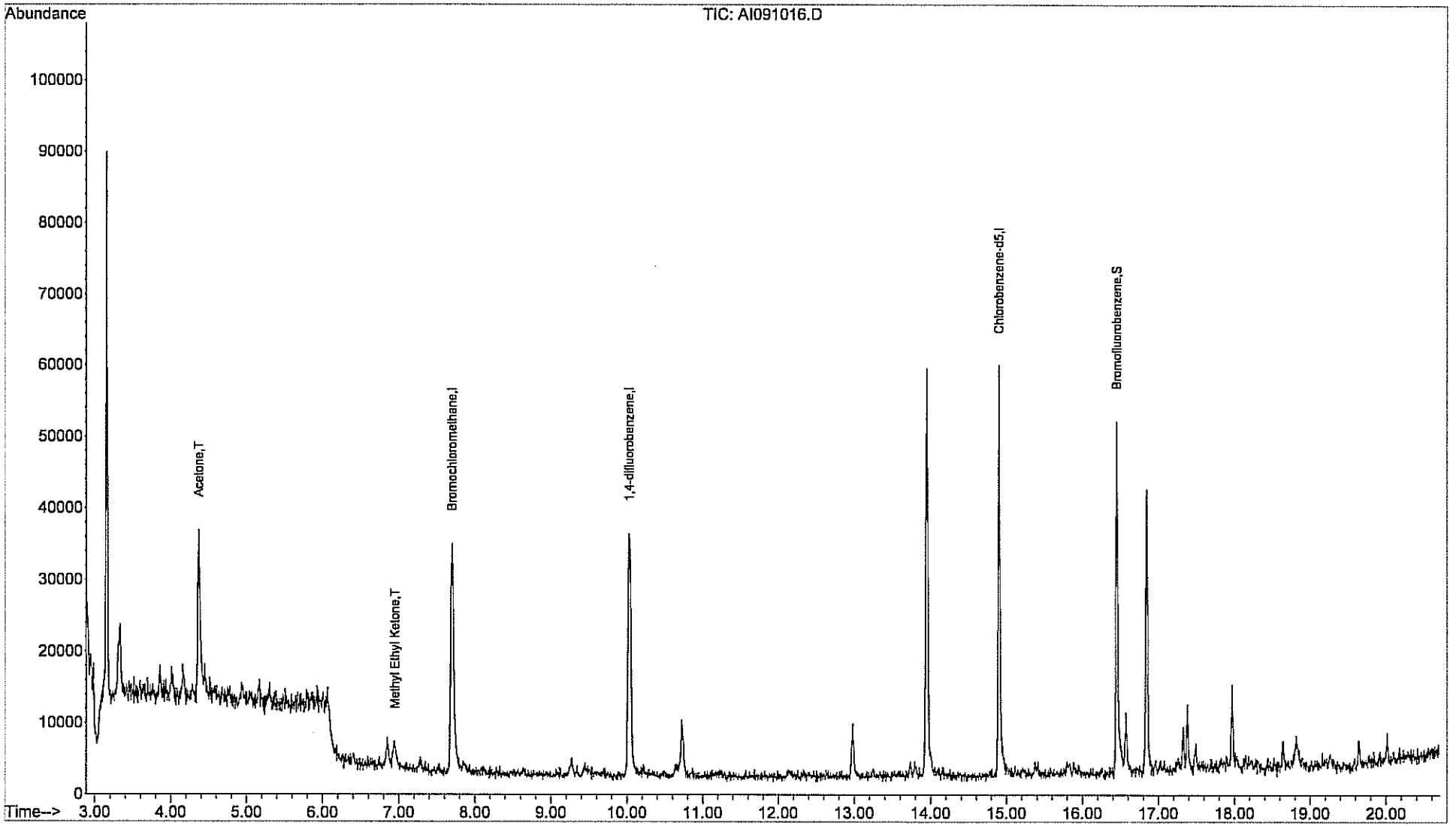
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091016.D
Acq On : 10 Sep 2011 5:35 pm
Sample : C1109015-005A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 14 16:39 2011

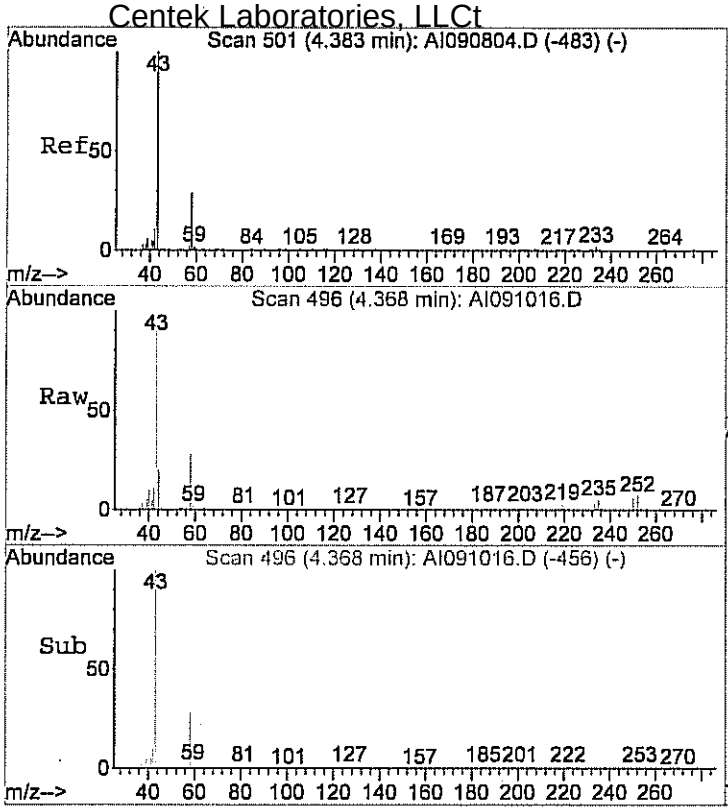
Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



AI091016.D A826_1UG.M Tue Oct 11 10:42:17 2011 MSD1 Page 2

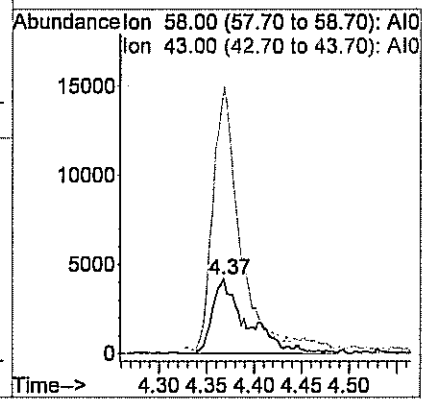
Centek Laboratories, LLCt

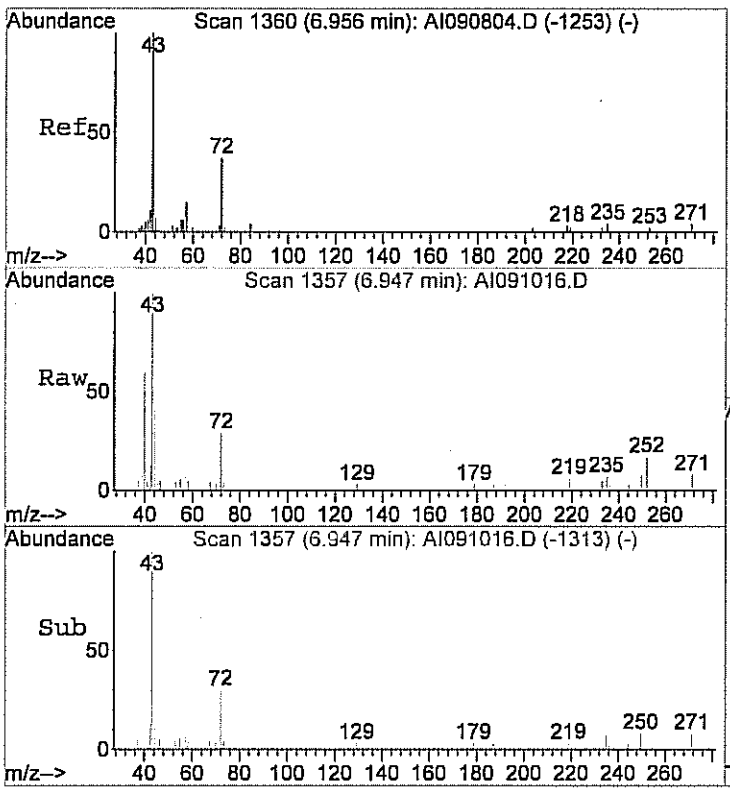


#14
Acetone
Concen: 2.19 ppb
RT: 4.37 min Scan# 496
Delta R.T. -0.03 min
Lab File: AI091016.D
Acq: 10 Sep 2011 5:35 pm

Tgt Ion: 58 Resp: 10673

Ion	Ratio	Lower	Upper
58	100		
43	293.5	360.8	420.8#

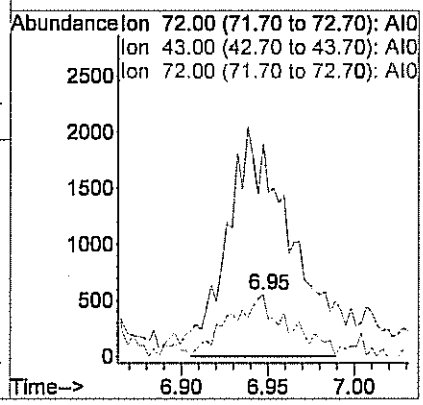




#25
Methyl Ethyl Ketone
Concen: 0.29 ppb
RT: 6.95 min Scan# 1357
Delta R.T. -0.02 min
Lab File: AI091016.D
Acq: 10 Sep 2011 5:35 pm

Tgt Ion: 72 Resp: 1313

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0



Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Acetone	14	3.0		ppbV	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.14	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.13	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Freon 11	14	1.5		ppbV	10	9/10/2011 6:08:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Freon 12	0.56	0.15		ppbV	1	9/10/2011 2:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	9/10/2011 6:08:00 PM
m&p-Xylene	0.28	0.30	J	ppbV	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/10/2011 2:52:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Styrene	0.13	0.15	J	ppbV	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Toluene	0.65	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Trichloroethene	0.43	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Acetone	34	7.2		ug/m3	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.90	0.96	J	ug/m3	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:52:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
Ethylbenzene	0.57	0.66	J	ug/m3	1	9/10/2011 2:52:00 PM
Freon 11	77	8.6		ug/m3	10	9/10/2011 6:08:00 PM
Freon 113	0.86	1.2	J	ug/m3	1	9/10/2011 2:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT: FPM
Lab Order: C1109015
Project: 1000-08-17
Lab ID: C1109015-006A

Client Sample ID: 774IA1AE
Tag Number: 232,66
Collection Date: 9/6/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	32	3.7		ug/m3	10	9/10/2011 6:08:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:52:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/10/2011 2:52:00 PM
o-Xylene	0.49	0.66	J	ug/m3	1	9/10/2011 2:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:52:00 PM
Styrene	0.56	0.65	J	ug/m3	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 2:52:00 PM
Toluene	2.5	0.57		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Trichloroethene	2.3	0.82		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:52:00 PM

lifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
-	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091011.D
Acq On : 10 Sep 2011 2:52 pm
Sample : C1109015-006A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 10 15:13:07 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	14681	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.01	114	42679	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	38819	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	20504	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	35124	0.56	ppb		99
4) Chloromethane	3.11	50	8962	0.57	ppb		89
13) Freon 11	4.16	101	522735	10.73	ppb		100
14) Acetone	4.31	58	59839	11.55	ppb		92
15) Isopropyl alcohol	4.42	45	95993	9.07	ppb	#	100
17) Freon 113	4.93	101	3596	0.11	ppb		98
18) Methylene chloride	5.15	84	4050	0.31	ppb		91
25) Methyl Ethyl Ketone	6.92	72	4419	0.92	ppb	#	100
35) Carbon tetrachloride	9.27	117	6051	0.14	ppb		99
41) Trichloroethene	10.71	130	9596	0.43	ppb		98
48) Toluene	12.97	92	16380	0.65	ppb		97
55) Ethylbenzene	15.20	91	6788	0.13	ppb		97
56) m&p-xylene	15.36	91	12073	0.28	ppb		100
57) Styrene	15.80	104	3200	0.13	ppb		96
59) o-xylene	15.82	91	5529	0.11	ppb		99
65) 1,2,4-trimethylbenzene	17.48	105	11459	0.32	ppb		93

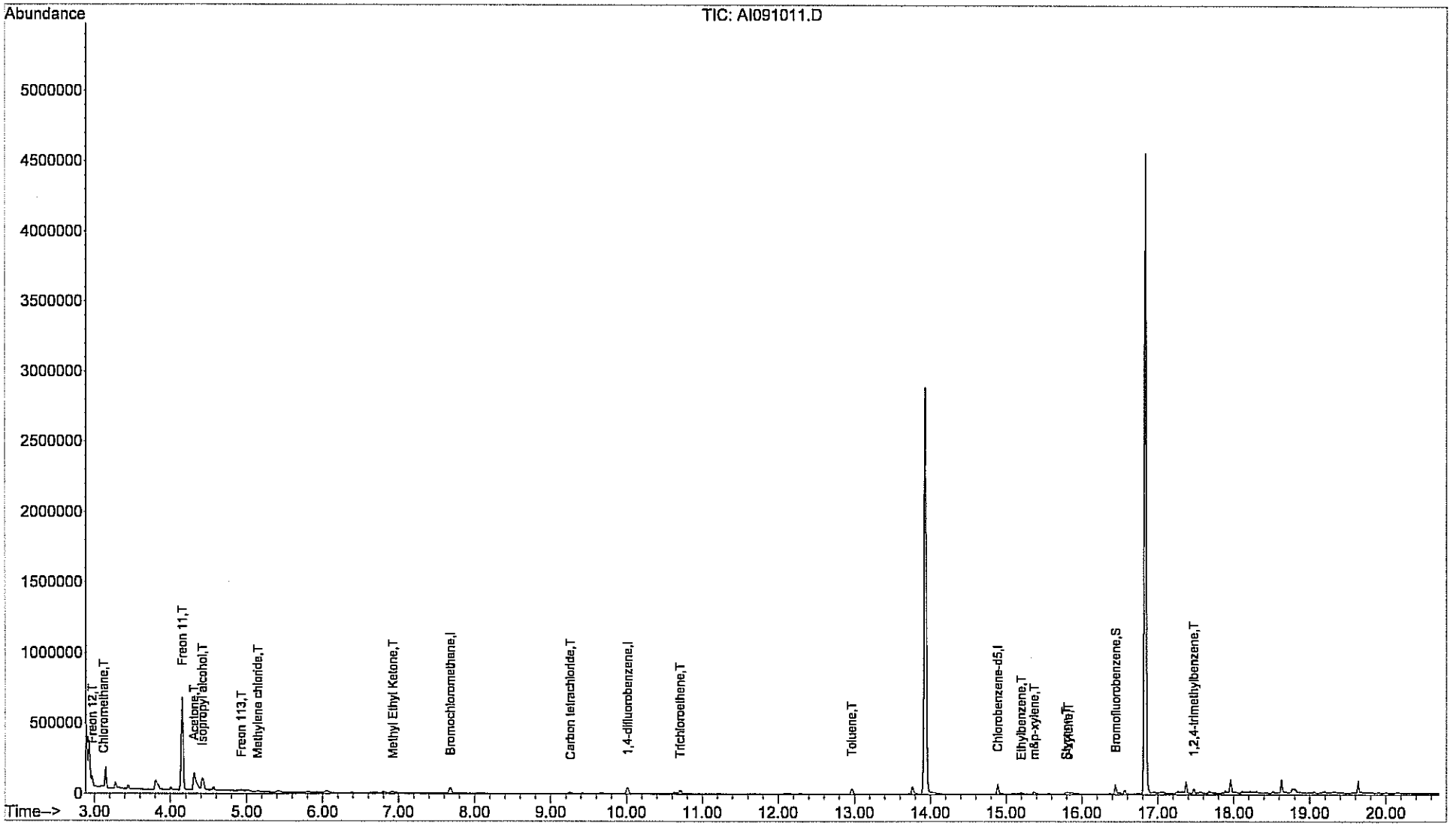
) = qualifier out of range (m) = manual integration (+) = signals summed
091011.D A826_1UG.M Tue Oct 11 10:41:55 2011 MSD1

Quantitation Report (QT Reviewed)

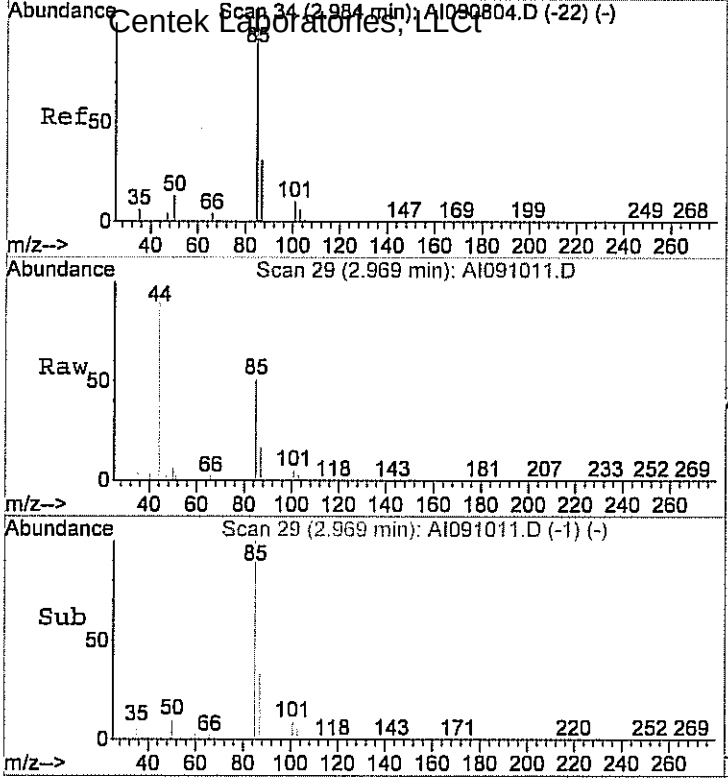
Data File : C:\HPCHEM\1\DATA\AI091011.D
Acq On : 10 Sep 2011 2:52 pm
Sample : C1109015-006A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 13 14:05 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



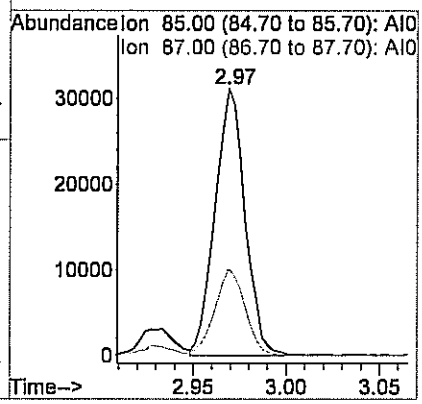
Centek Laboratories, LLCt

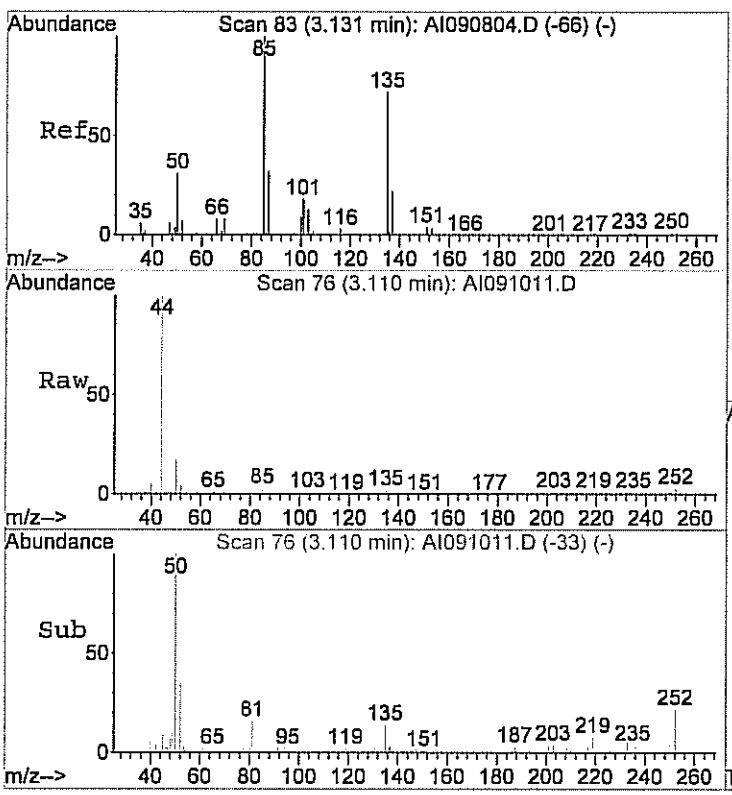


#3
Freon 12
Concen: 0.56 ppb
RT: 2.97 min Scan# 29
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 85 Resp: 35124

Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.2	52.2

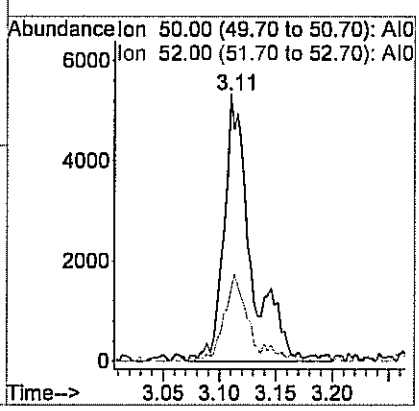


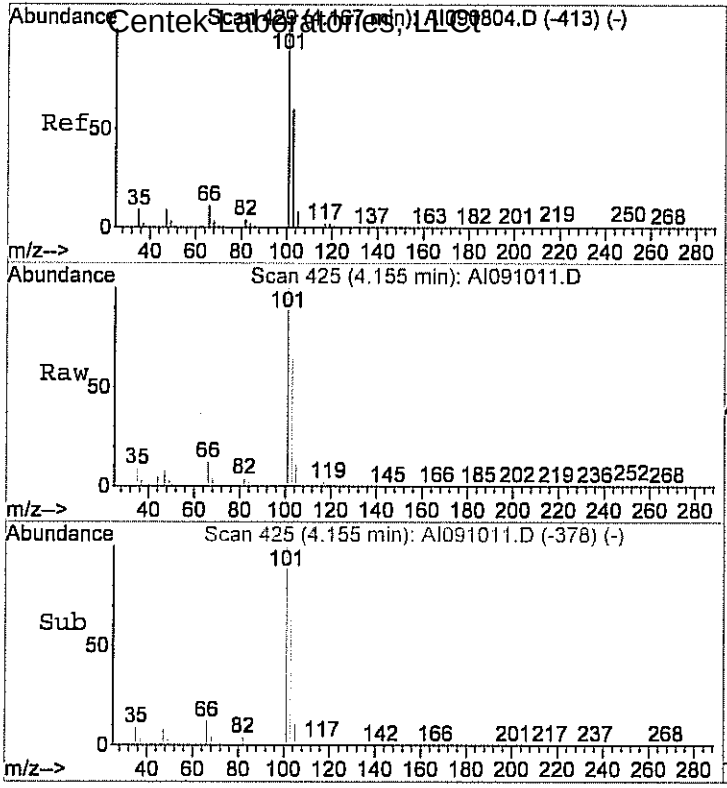


#4
Chloromethane
Concen: 0.57 ppb
RT: 3.11 min Scan# 76
Delta R.T. -0.02 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 50 Resp: 8962

Ion	Ratio	Lower	Upper
50	100		
52	29.4	4.1	44.1

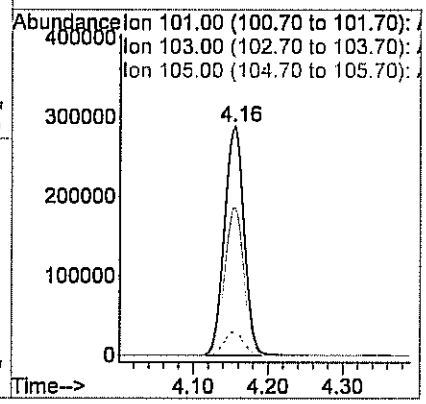


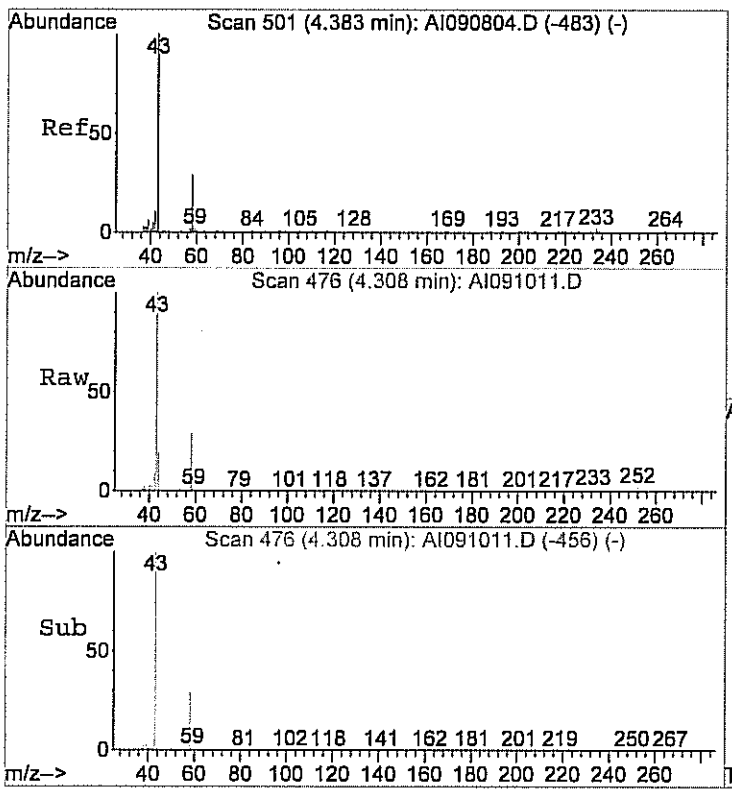


#13
Freon 11
Concen: 10.73 ppb
RT: 4.16 min Scan# 425
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:101 Resp: 522735

Ion	Ratio	Lower	Upper
101	100		
103	64.7	44.9	84.9
105	10.6	0.0	30.9

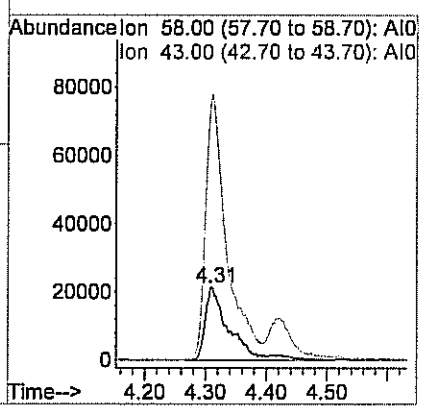


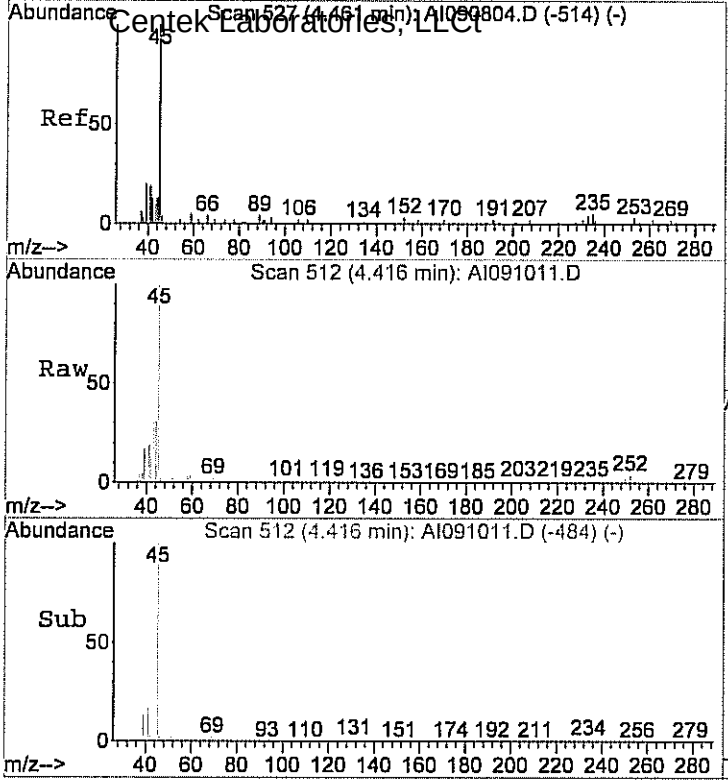


#14
Acetone
Concen: 11.55 ppb
RT: 4.31 min Scan# 476
Delta R.T. -0.09 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 58 Resp: 59839

Ion	Ratio	Lower	Upper
58	100		
43	373.0	360.8	420.8

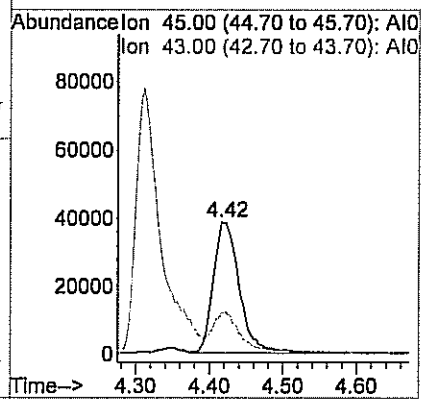


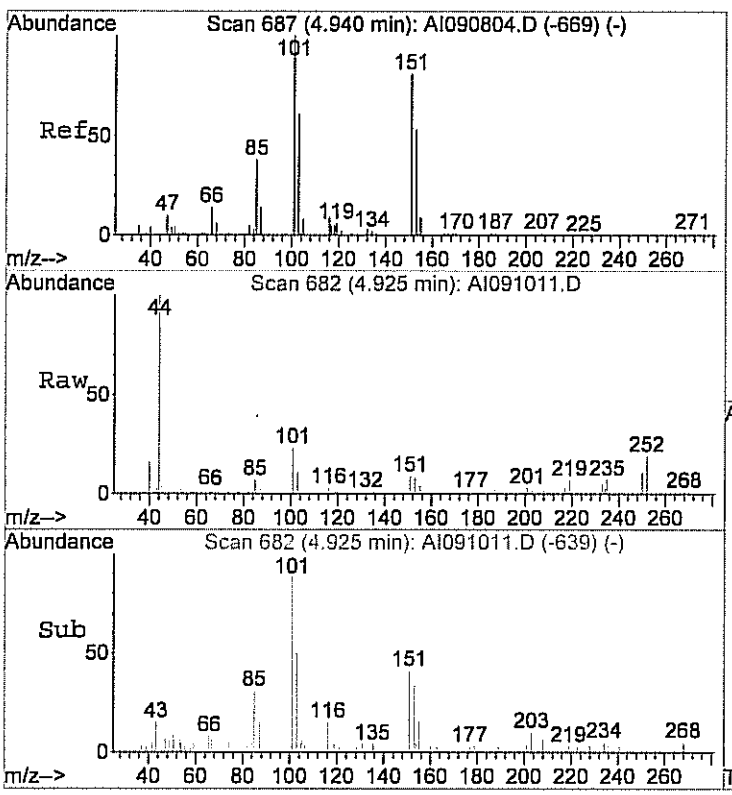


#15
Isopropyl alcohol
Concen: 9.07 ppb
RT: 4.42 min Scan# 512
Delta R.T. -0.07 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 45 Resp: 95993

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

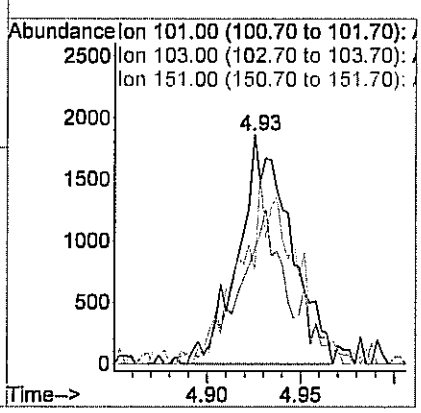


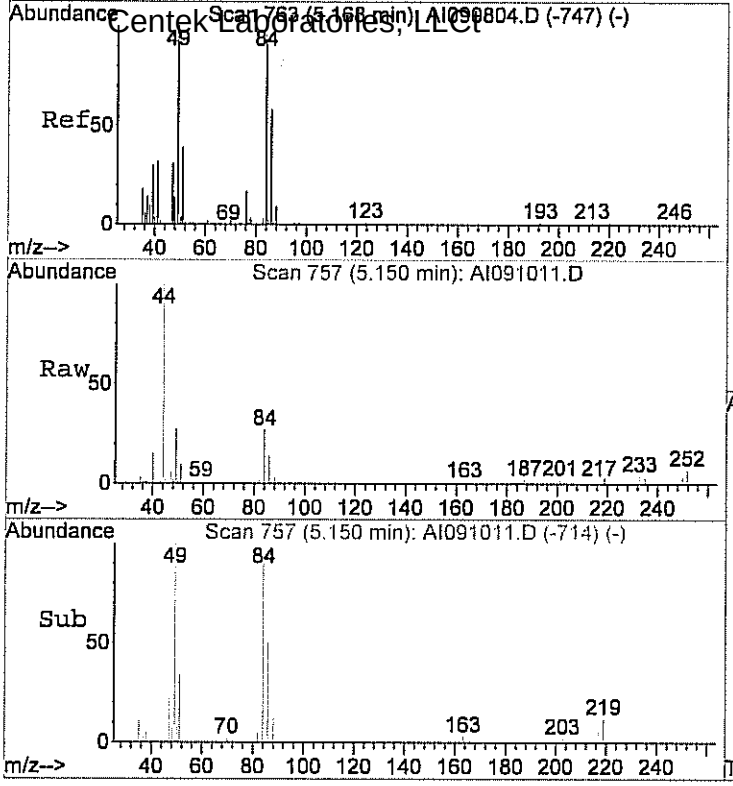


#17
Freon 113
Concen: 0.11 ppb
RT: 4.93 min Scan# 682
Delta R.T. -0.02 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:101 Resp: 3596

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.3	84.3
151	83.5	61.0	101.0

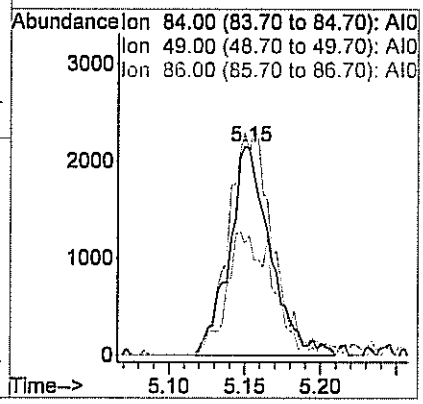


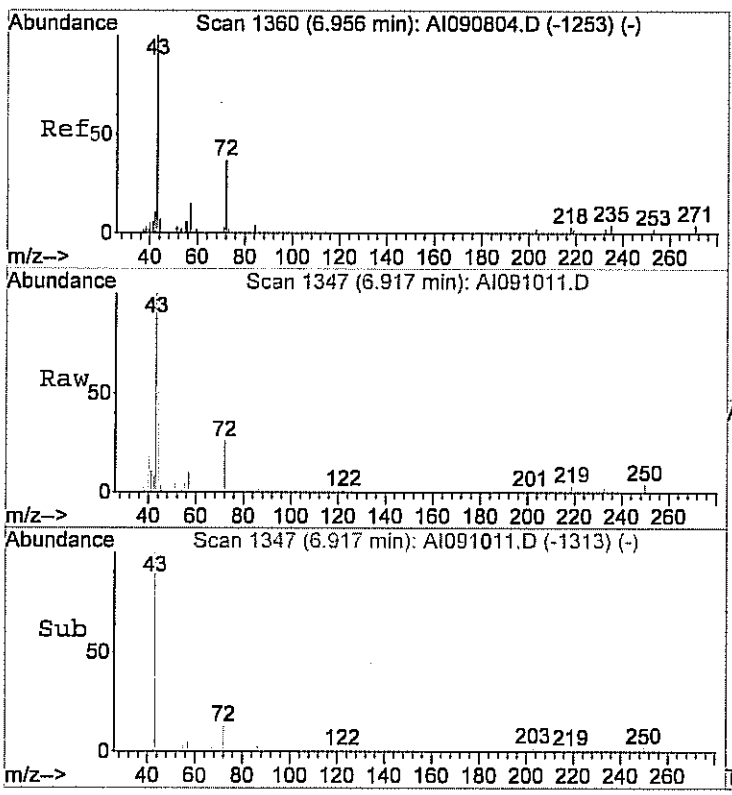


#18
Methylene chloride
Concen: 0.31 ppb
RT: 5.15 min Scan# 757
Delta R.T. -0.02 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 84 Resp: 4050

Ion	Ratio	Lower	Upper
84	100		
49	121.6	116.9	156.9
86	65.8	46.7	86.7

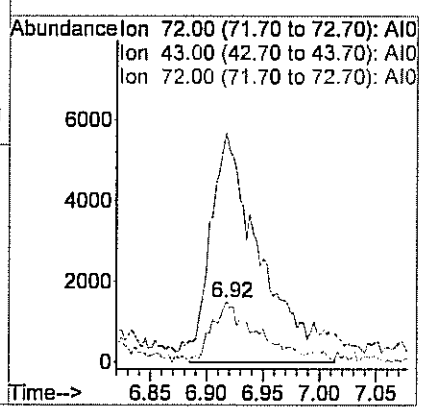




#25
Methyl Ethyl Ketone
Concen: 0.92 ppb
RT: 6.92 min Scan# 1347
Delta R.T. -0.05 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 72 Resp: 4419

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

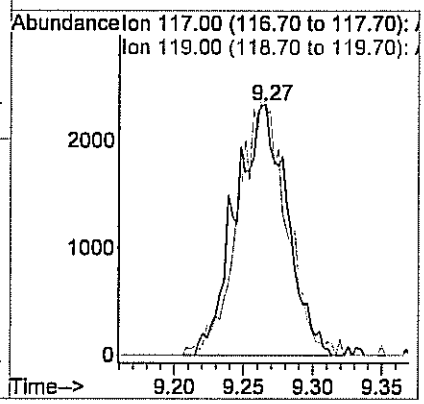


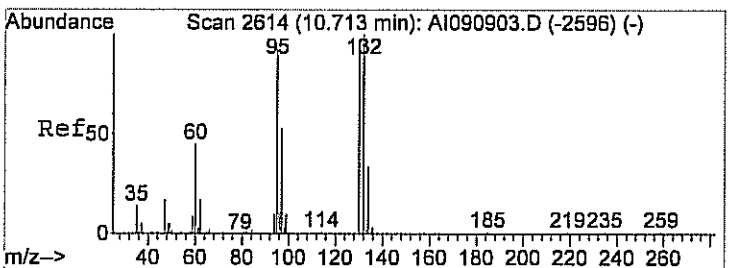


#35
Carbon tetrachloride
Concen: 0.14 ppb
RT: 9.27 min Scan# 2131
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:117 Resp: 6051

Ion	Ratio	Lower	Upper
117	100		
119	96.2	77.2	117.2

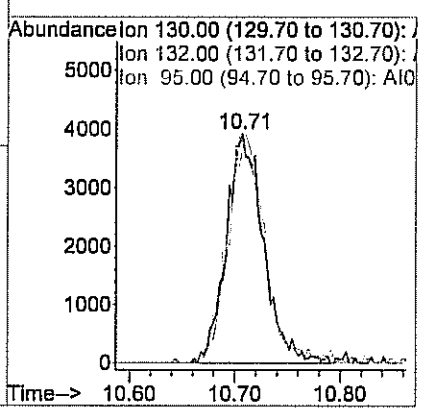


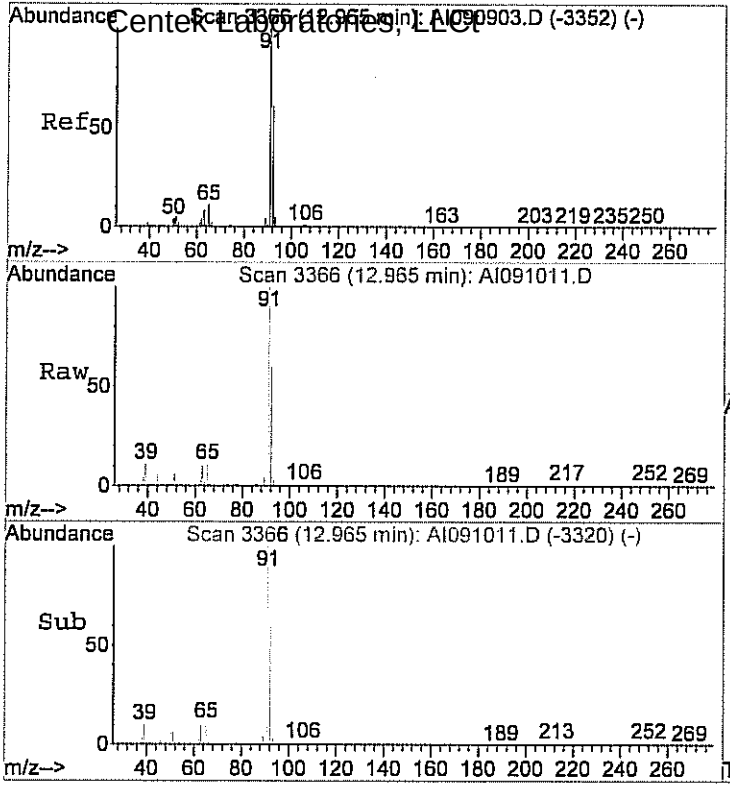


#41
Trichloroethene
Concen: 0.43 ppb
RT: 10.71 min Scan# 2612
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:130 Resp: 9596

Ion	Ratio	Lower	Upper
130	100		
132	98.1	79.0	119.0
95	99.9	76.8	116.8

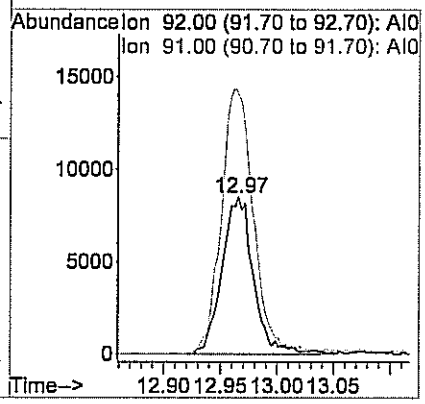


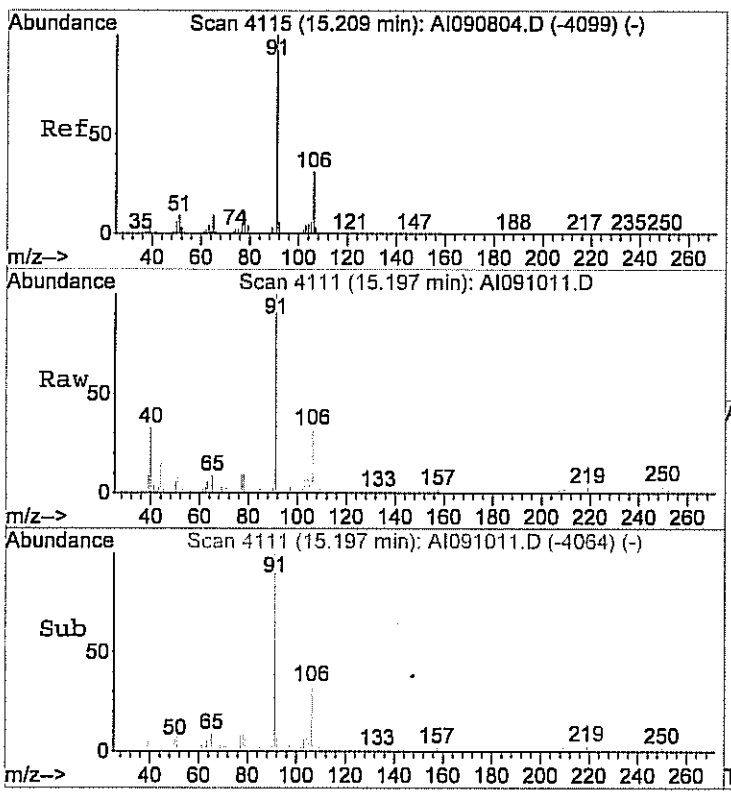


#48
Toluene
Concen: 0.65 ppb
RT: 12.97 min Scan# 3366
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 92 Resp: 16380

Ion	Ratio	Lower	Upper
92	100		
91	175.3	159.8	199.8

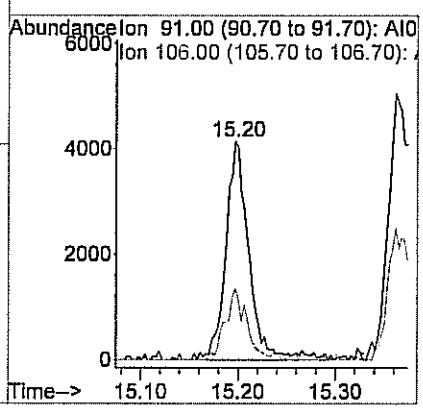


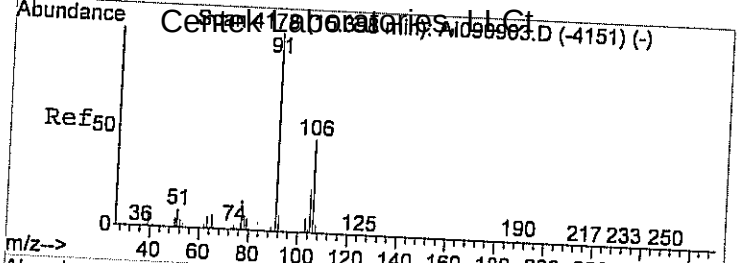


#55
Ethylbenzene
Concen: 0.13 ppb
RT: 15.20 min Scan# 4111
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 91 Resp: 6788

Ion	Ratio	Lower	Upper
91	100		
106	29.3	10.7	50.7

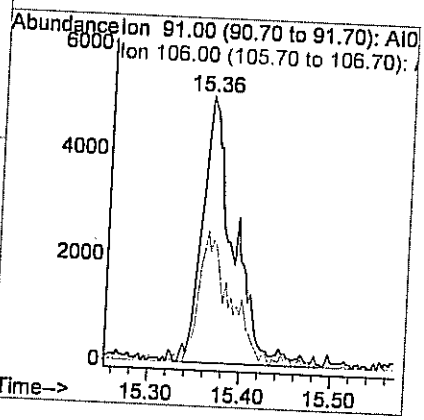


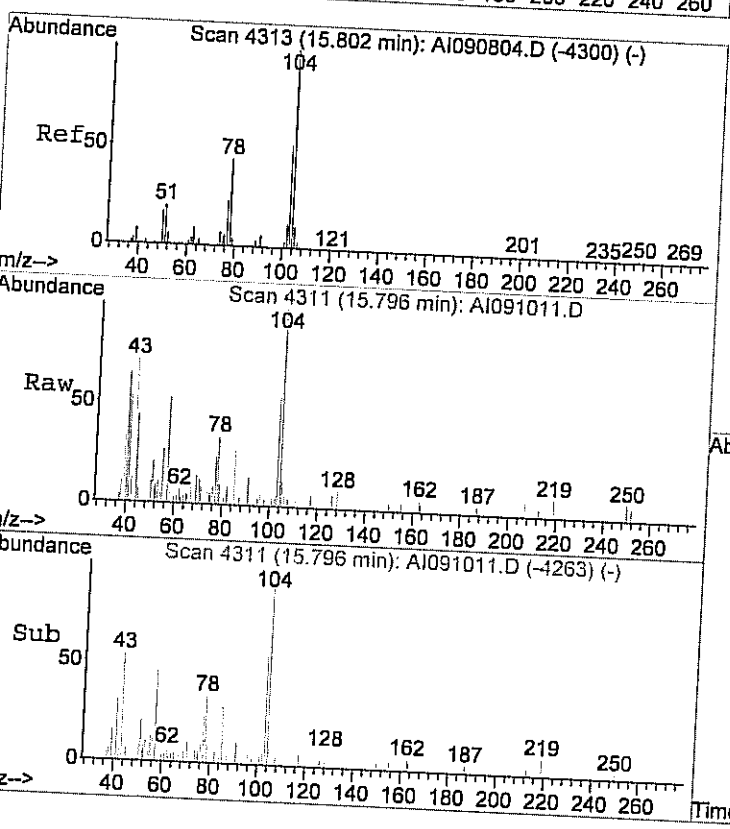


#56
m&p-xylene
Concen: 0.28 ppb
RT: 15.36 min Scan# 4166
Delta R.T. -0.04 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 91 Resp: 12073

Ion	Ratio	Lower	Upper
91	100		
106	47.8	27.5	67.5

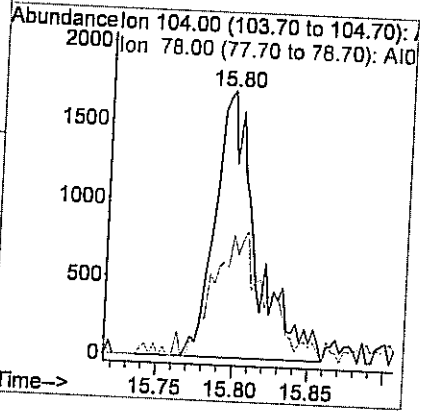


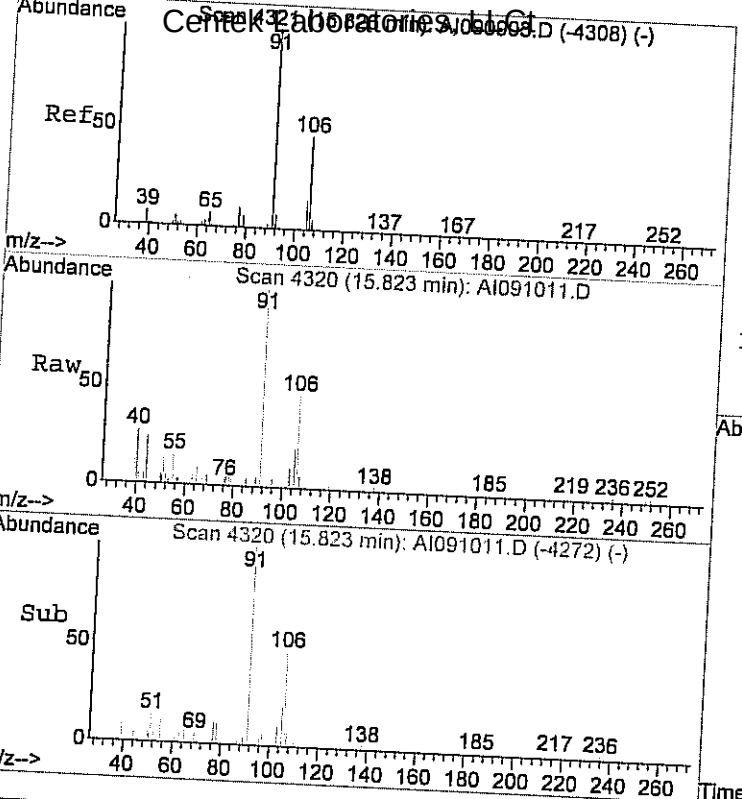


#57
Styrene
Concen: 0.13 ppb
RT: 15.80 min Scan# 4311
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:104 Resp: 3200

Ion	Ratio	Lower	Upper
104	100		
78	59.5	36.7	76.7

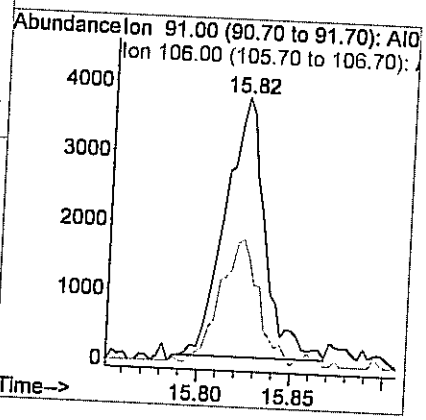


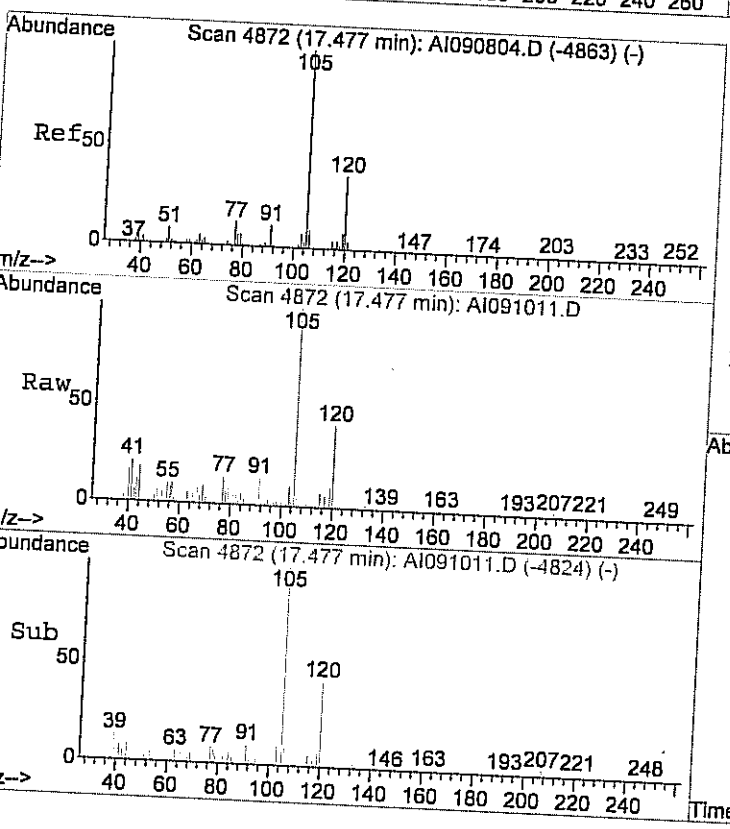


#59
o-xylene
Concen: 0.11 ppb
RT: 15.82 min Scan# 4320
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion: 91 Resp: 5529

Ion	Ratio	Lower	Upper
91	100		
106	45.8	26.2	66.2

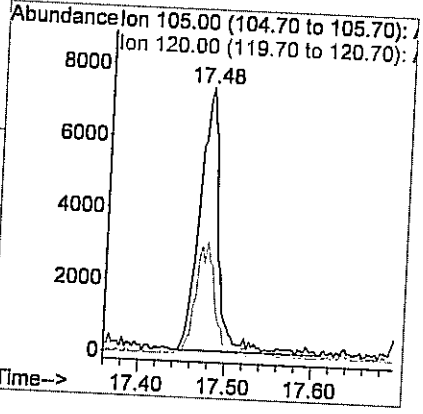




#65
1,2,4-trimethylbenzene
Concen: 0.32 ppb
RT: 17.48 min Scan# 4872
Delta R.T. -0.01 min
Lab File: AI091011.D
Acq: 10 Sep 2011 2:52 pm

Tgt Ion:105 Resp: 11459

Ion	Ratio	Lower	Upper
105	100		
120	40.6	25.0	65.0



Centek Laboratories, LLC

Data File : C:\HPCHEM\1\DATA\AI091017.D
Acq On : 10 Sep 2011 6:08 pm
Sample : C1109015-006A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 10 18:29:42 2011

Vial: 17
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13885	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	39317	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	34860	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	15722	0.89	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue
13) Freon 11	4.16	101	62000m	1.35	ppb	
14) Acetone	4.37	58	6937	1.42	ppb	96
15) Isopropyl alcohol	4.45	45	13003m	1.30	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI082613.D 0.10 =AI082612.D 0.15 =AI082610.D
0.30 =AI082609.D 0.50 =AI082607.D 1.0 =AI082606.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.864	0.704	0.594	0.574	0.662	16.44
3)	T	Freon 12			4.988	4.599	3.876	3.815	4.274	10.49
4)	T	Chloromethane			1.242	1.116	0.995	0.962	1.071	9.28
5)	T	Freon 114			4.054	3.203	2.829	2.843	3.213	13.92
6)	T	Vinyl Chloride	0.948	0.942	1.168	0.988	0.846	0.846	0.954	10.57
7)	T	1,3-butadiene			0.937	0.754	0.585	0.632	0.700	18.41
8)	T	Bromomethane			1.661	1.228	1.100	1.053	1.228	17.99
9)	T	Ethanol				0.338	0.232	0.339	0.284	17.91
10)	T	Acrolein			0.365	0.243	0.245	0.197	0.265	21.22
11)	T	Chloroethane			0.524	0.394	0.367	0.346	0.406	15.34
12)	T	Vinyl Bromide			1.416	1.183	0.990	1.001	1.137	13.74
13)	T	Freon 11			4.139	3.403	2.899	2.964	3.318	13.52
14)	T	Acetone				0.385	0.370	0.295	0.353	9.83
15)	T	Isopropyl alcoh			0.857	0.831	0.722	0.649	0.721	14.02
16)	T	1,1-dichloroeth			1.254	1.102	0.909	0.961	1.048	11.57
17)	T	Freon 113			2.861	2.349	2.086	2.029	2.325	12.84
18)	T	Methylene chlor			1.127	0.945	0.822	0.786	0.903	13.67
19)	T	Allyl chloride			1.110	0.926	0.827	0.783	0.894	13.10
20)	T	Carbon disulfid			3.937	3.065	2.431	2.348	2.837	20.96
21)	T	trans-1,2-dichl			1.724	1.622	1.451	1.430	1.564	7.10
22)	T	methyl tert-but			1.446	1.226	1.126	1.119	1.253	10.03
23)	T	1,1-dichloroeth			2.311	1.964	1.771	1.784	1.977	9.97
24)	T	Vinyl acetate			1.483	1.428	1.330	1.451	1.511	9.88
25)	T	Methyl Ethyl Ke				0.335	0.277	0.321	0.327	9.46
26)	T	cis-1,2-dichlor			1.646	1.498	1.310	1.348	1.464	8.45
27)	T	Hexane			1.435	1.205	1.034	1.121	1.222	11.36
28)	T	Ethyl acetate			1.750	1.523	1.307	1.283	1.426	13.14
29)	T	Chloroform			3.518	3.183	2.796	2.815	3.081	8.71
30)	T	Tetrahydrofuran			0.758	0.538	0.576	0.603	0.624	12.28
31)	T	1,2-dichloroeth			2.145	2.018	1.695	1.710	1.905	9.34
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			0.861	0.755	0.639	0.655	0.738	11.24
34)	T	Cyclohexane			0.379	0.315	0.280	0.290	0.327	11.96
35)	T	Carbon tetrachl	0.932	1.003	1.147	1.032	0.905	0.881	0.996	8.86
36)	T	Benzene			0.993	0.871	0.752	0.765	0.857	10.41
37)	T	Methyl methacry				0.217	0.190	0.194	0.204	8.92
38)	T	1,4-dioxane				0.114	0.119	0.099	0.115	8.24
39)	T	2,2,4-trimethyl			1.022	0.925	0.798	0.781	0.910	11.04
40)	T	Heptane			0.331	0.307	0.265	0.280	0.313	11.43
41)	T	Trichloroethene	0.540	0.519	0.615	0.525	0.459	0.464	0.523	9.36
42)	T	1,2-dichloropro			0.307	0.300	0.257	0.242	0.281	9.25
43)	T	Bromodichlorome			0.959	0.881	0.767	0.749	0.856	9.90
44)	T	cis-1,3-dichlor			0.356	0.360	0.310	0.333	0.371	14.79
45)	T	trans-1,3-dichl			0.239	0.260	0.236	0.263	0.273	14.66
46)	T	1,1,2-trichloro			0.485	0.461	0.371	0.395	0.438	10.17
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.660	0.648	0.576	0.579	0.653	11.12
49)	T	Methyl Isobutyl				0.328	0.336	0.266	0.308	10.06
50)	T	Dibromochlorome			1.266	1.217	1.006	0.978	1.134	10.84
51)	T	Methyl Butyl Ke				0.156	0.185	0.176	0.180	8.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	16280	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	60754	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	52059	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24349	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	9764	1.00	ppb		94
3) Freon 12	2.98	85	66962	1.00	ppb		99
4) Chloromethane	3.13	50	16490	1.00	ppb		100
5) Freon 114	3.13	85	48381	1.00	ppb		97
6) Vinyl Chloride	3.27	62	14803	1.00	ppb		98
7) 1,3-butadiene	3.34	39	10406	1.00	ppb		92
8) Bromomethane	3.59	94	18862	1.00	ppb		97
9) Ethanol	3.88	45	4290	1.02	ppb	#	40
10) Acrolein	4.32	56	4285	1.00	ppb		92
11) Chloroethane	3.71	64	6304	1.00	ppb		99
12) Vinyl Bromide	3.96	106	17645	1.00	ppb		94
13) Freon 11	4.16	101	51518	1.00	ppb		100
14) Acetone	4.40	58	5932	1.00	ppb	#	86
15) Isopropyl alcohol	4.48	45	9113	0.99	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16065	1.00	ppb		96
17) Freon 113	4.95	101	36685	1.00	ppb		98
18) Methylene chloride	5.17	84	14333	1.00	ppb		91
19) Allyl chloride	5.15	41	13845	1.01	ppb		96
20) Carbon disulfide	5.29	76	41057	1.00	ppb		98
21) trans-1,2-dichloroethene	6.00	61	23324	1.00	ppb		90
22) methyl tert-butyl ether	6.11	73	17824	1.00	ppb		85
23) 1,1-dichloroethane	6.39	63	30094	1.00	ppb		98
24) Vinyl acetate	6.49	43	22521	1.01	ppb		98
25) Methyl Ethyl Ketone	6.97	72	4841	1.00	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	22496	1.00	ppb		93
27) Hexane	6.91	57	17828	1.00	ppb		92
28) Ethyl acetate	7.53	43	19607	1.00	ppb		98
29) Chloroform	7.86	83	47326	1.00	ppb		100
30) Tetrahydrofuran	8.09	42	9655	1.01	ppb		96
31) 1,2-dichloroethane	8.94	62	29376	1.00	ppb		99
33) 1,1,1-trichloroethane	8.64	97	42715	1.00	ppb		100
34) Cyclohexane	9.33	56	18159	1.00	ppb	#	78
35) Carbon tetrachloride	9.27	117	59821	1.00	ppb		100
36) Benzene	9.25	78	49705	1.00	ppb		95
37) Methyl methacrylate	11.10	41	9610	1.00	ppb	#	84
38) 1,4-dioxane	11.16	88	6164m	1.03	ppb		
39) 2,2,4-trimethylpentane	10.21	57	51973	1.00	ppb		96
40) Heptane	10.63	43	17976	1.00	ppb		94
41) Trichloroethene	10.72	130	29969	1.00	ppb		98
42) 1,2-dichloropropane	10.84	63	16266	1.00	ppb		98
43) Bromodichloromethane	11.23	83	50839	1.00	ppb		98
44) cis-1,3-dichloropropene	12.14	75	21586	1.00	ppb		96
45) trans-1,3-dichloropropene	12.94	75	15090	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	25356	1.00	ppb	100
48)	Toluene	12.98	92	33217	1.00	ppb	93
49)	Methyl Isobutyl Ketone	12.13	43	11956	1.00	ppb	97
50)	Dibromochloromethane	13.91	129	56873	1.00	ppb	97
51)	Methyl Butyl Ketone	13.52	43	5709	1.05	ppb	99
52)	1,2-dibromoethane	14.15	107	37845	1.00	ppb	100
53)	Tetrachloroethylene	14.00	164	34190	1.00	ppb	98
54)	Chlorobenzene	14.94	112	52166	1.00	ppb	98
55)	Ethylbenzene	15.21	91	66649	1.00	ppb	98
56)	m&p-xylene	15.40	91	111593	2.00	ppb	96
57)	Styrene	15.80	104	32693	1.00	ppb	96
58)	Bromoform	15.88	173	57414	1.00	ppb	99
59)	o-xylene	15.83	91	61443	1.00	ppb	100
61)	1,1,2,2-tetrachloroethane	16.25	83	41056	1.00	ppb	100
62)	2-Chlorotoluene	16.88	91	37448	1.00	ppb	98
63)	4-ethyltoluene	17.02	105	48252	1.00	ppb	98
64)	1,3,5-trimethylbenzene	17.07	105	55879	1.00	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	41146	1.00	ppb	96
66)	1,3-dichlorobenzene	17.73	146	40606	1.00	ppb	98
67)	benzyl chloride	17.80	91	18251	1.00	ppb	96
68)	1,4-dichlorobenzene	17.86	146	39177	1.01	ppb	99
69)	1,2-dichlorobenzene	18.14	146	38371	1.00	ppb	95
70)	1,2,4-trichlorobenzene	19.76	180	16928	1.00	ppb	97
71)	Naphthalene	19.91	128	20603	1.01	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	28950	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

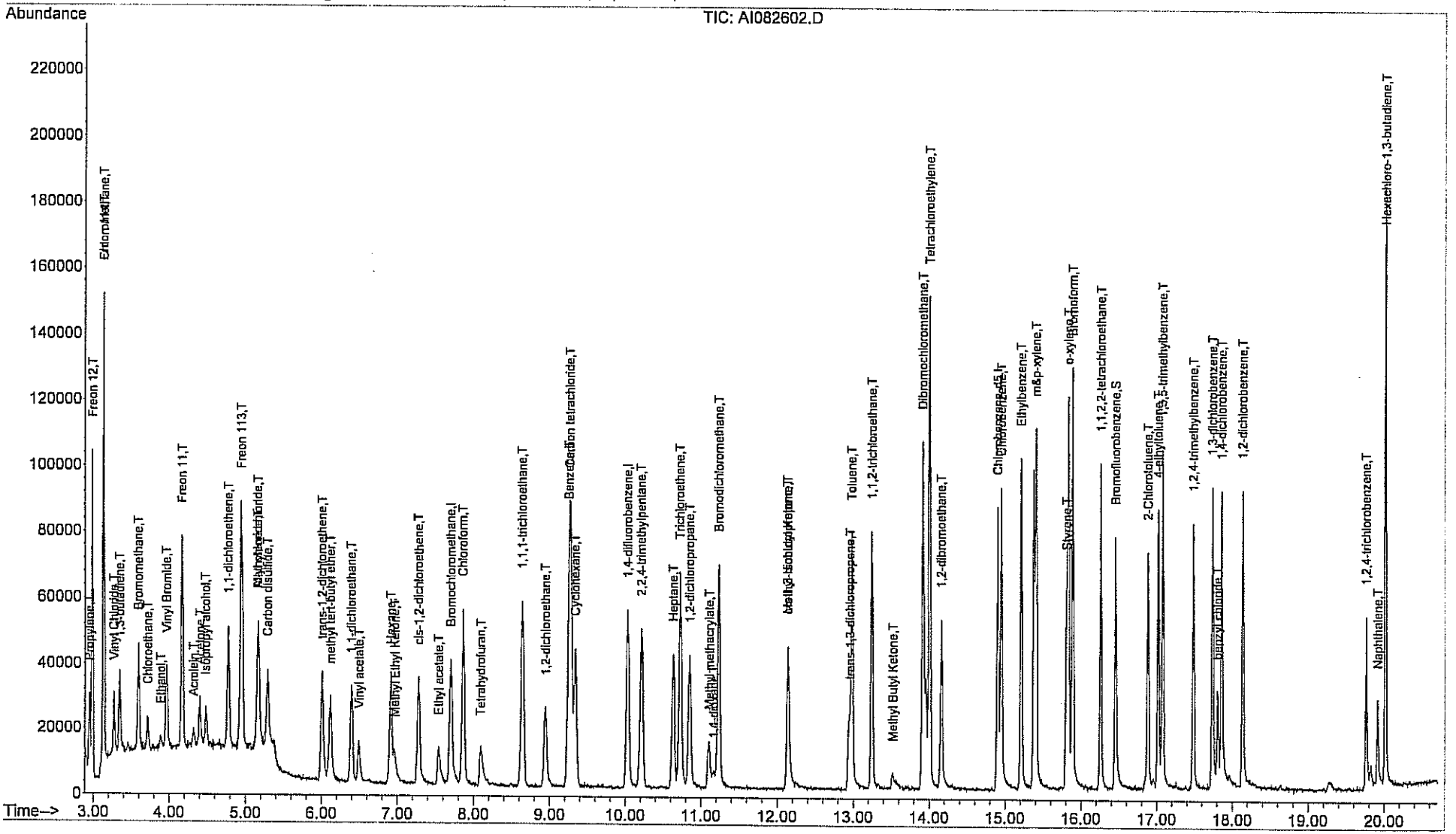
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D
Acq On : 26 Aug 2011 7:47 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:45 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082602.D A826_1UG.M Wed Sep 14 16:59:20 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	16611	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	61419	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	53750	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	27008	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	20427	2.05	ppb		90
3) Freon 12	2.98	85	140219	2.05	ppb		99
4) Chloromethane	3.13	50	35214	2.09	ppb		99
5) Freon 114	3.12	85	107306	2.17	ppb		98
6) Vinyl Chloride	3.26	62	32177	2.13	ppb		100
7) 1,3-butadiene	3.34	39	21131	1.99	ppb		85
8) Bromomethane	3.59	94	39378	2.05	ppb		99
9) Ethanol	3.88	45	8736m	2.04	ppb		
10) Acrolein	4.30	56	9293	2.13	ppb		81
11) Chloroethane	3.71	64	13614	2.12	ppb		98
12) Vinyl Bromide	3.96	106	38022	2.11	ppb		99
13) Freon 11	4.16	101	111008	2.11	ppb		100
14) Acetone	4.39	58	12087	2.00	ppb		97
15) Isopropyl alcohol	4.47	45	21173	2.24	ppb	#	100
16) 1,1-dichloroethene	4.76	96	34877	2.13	ppb		94
17) Freon 113	4.94	101	79534	2.12	ppb		99
18) Methylene chloride	5.16	84	29872	2.05	ppb		92
19) Allyl chloride	5.15	41	29492	2.11	ppb		94
20) Carbon disulfide	5.28	76	89158	2.13	ppb		99
21) trans-1,2-dichloroethene	6.00	61	53362	2.24	ppb		93
22) methyl tert-butyl ether	6.10	73	44308	2.44	ppb		85
23) 1,1-dichloroethane	6.39	63	66996	2.18	ppb		98
24) Vinyl acetate	6.48	43	57727	2.54	ppb		98
25) Methyl Ethyl Ketone	6.94	72	11796m	2.39	ppb		
26) cis-1,2-dichloroethene	7.27	61	50945	2.22	ppb		94
27) Hexane	6.91	57	42784	2.35	ppb		89
28) Ethyl acetate	7.53	43	47432m	2.38	ppb		
29) Chloroform	7.86	83	104447	2.16	ppb		100
30) Tetrahydrofuran	8.08	42	21844m	2.24	ppb		
31) 1,2-dichloroethane	8.93	62	65675	2.19	ppb		97
33) 1,1,1-trichloroethane	8.64	97	96671	2.24	ppb		100
34) Cyclohexane	9.33	56	44211	2.41	ppb		94
35) Carbon tetrachloride	9.27	117	130803	2.16	ppb		100
36) Benzene	9.24	78	110453	2.20	ppb		98
37) Methyl methacrylate	11.09	41	28220m	2.90	ppb		
38) 1,4-dioxane	11.13	88	14392m	2.37	ppb		
39) 2,2,4-trimethylpentane	10.21	57	122621	2.33	ppb		95
40) Heptane	10.63	43	44082	2.43	ppb		94
41) Trichloroethene	10.72	130	66676	2.20	ppb		97
42) 1,2-dichloropropane	10.85	63	36325	2.21	ppb		99
43) Bromodichloromethane	11.23	83	114078	2.22	ppb		99
44) cis-1,3-dichloropropene	12.13	75	56690	2.60	ppb		95
45) trans-1,3-dichloropropene	12.94	75	41654	2.74	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

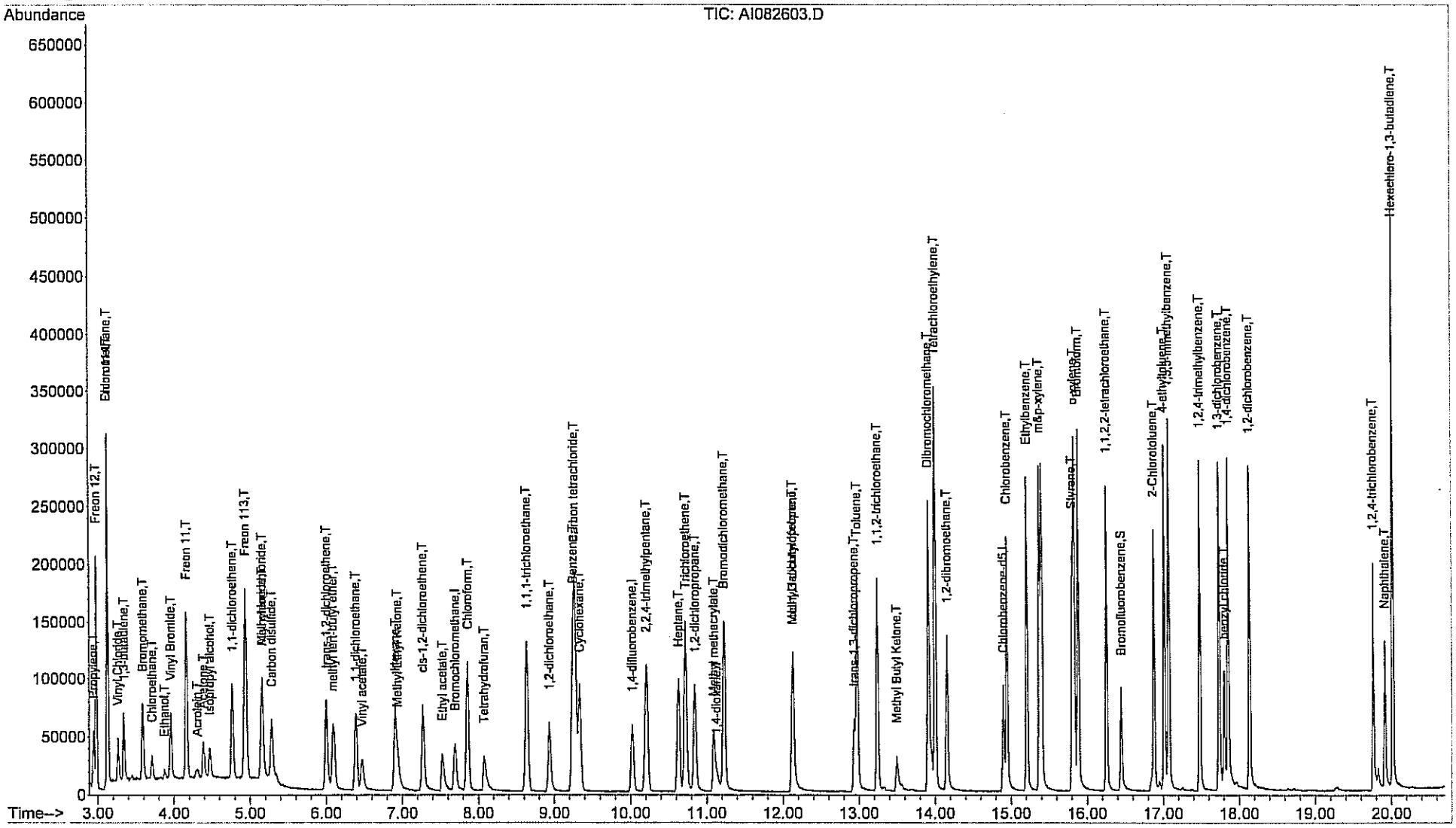
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	57051	2.23	ppb	98
48)	Toluene	12.97	92	82842	2.42	ppb	95
49)	Methyl Isobutyl Ketone	12.12	43	34887m	2.83	ppb	
50)	Dibromochloromethane	13.91	129	132485	2.26	ppb	98
51)	Methyl Butyl Ketone	13.49	43	19988m	3.55	ppb	
52)	1,2-dibromoethane	14.15	107	92387	2.37	ppb	99
53)	Tetrachloroethylene	14.00	164	78777	2.23	ppb	99
54)	Chlorobenzene	14.94	112	124601	2.32	ppb	97
55)	Ethylbenzene	15.21	91	182543	2.65	ppb	99
56)	m&p-xylene	15.37	91	300023	5.21	ppb	99
57)	Styrene	15.80	104	98914	2.93	ppb	96
58)	Bromoform	15.88	173	141874	2.39	ppb	99
59)	o-xylene	15.83	91	162941	2.57	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	108371	2.56	ppb	100
62)	2-Chlorotoluene	16.88	91	111607	2.89	ppb	98
63)	4-ethyltoluene	17.02	105	166899	3.35	ppb	96
64)	1,3,5-trimethylbenzene	17.07	105	167589	2.90	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	143393	3.38	ppb	99
66)	1,3-dichlorobenzene	17.73	146	118962	2.84	ppb	99
67)	benzyl chloride	17.81	91	62684	3.34	ppb	97
68)	1,4-dichlorobenzene	17.86	146	116012	2.89	ppb	99
69)	1,2-dichlorobenzene	18.14	146	111208	2.81	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	60691	3.47	ppb	97
71)	Naphthalene	19.91	128	81125m	3.84	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	86971	2.91	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI082603.D A826_1UG.M Wed Sep 14 16:59:23 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:59 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D Vial: 3
Acq On : 26 Aug 2011 8:53 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	17234	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	65753	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	59133	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	31507	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	16022	1.55	ppb		94
3) Freon 12	2.98	85	107105	1.51	ppb		98
4) Chloromethane	3.13	50	27211	1.56	ppb		99
5) Freon 114	3.13	85	80658	1.57	ppb		99
6) Vinyl Chloride	3.27	62	23915	1.53	ppb		98
7) 1,3-butadiene	3.34	39	16942	1.54	ppb		97
8) Bromomethane	3.59	94	29495	1.48	ppb		97
9) Ethanol	3.88	45	6422m	1.44	ppb		
10) Acrolein	4.31	56	6748	1.49	ppb		93
11) Chloroethane	3.71	64	10203	1.53	ppb		96
12) Vinyl Bromide	3.96	106	28163	1.51	ppb		97
13) Freon 11	4.17	101	81728	1.50	ppb		100
14) Acetone	4.39	58	9091	1.45	ppb		99
15) Isopropyl alcohol	4.48	45	16282	1.66	ppb	#	100
16) 1,1-dichloroethene	4.77	96	26185	1.54	ppb		95
17) Freon 113	4.94	101	57688	1.49	ppb		97
18) Methylene chloride	5.17	84	21705	1.44	ppb		93
19) Allyl chloride	5.15	41	21506	1.48	ppb		95
20) Carbon disulfide	5.29	76	66092	1.52	ppb		100
21) trans-1,2-dichloroethene	6.00	61	40103	1.62	ppb		91
22) methyl tert-butyl ether	6.10	73	32745	1.74	ppb		87
23) 1,1-dichloroethane	6.40	63	52093	1.64	ppb		98
24) Vinyl acetate	6.49	43	42333	1.79	ppb		100
25) Methyl Ethyl Ketone	6.95	72	9014	1.76	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	37392	1.57	ppb		88
27) Hexane	6.91	57	32270	1.71	ppb		89
28) Ethyl acetate	7.53	43	32660m	1.58	ppb		
29) Chloroform	7.86	83	78351	1.56	ppb		98
30) Tetrahydrofuran	8.08	42	15786m	1.56	ppb		
31) 1,2-dichloroethane	8.94	62	48703	1.57	ppb		99
33) 1,1,1-trichloroethane	8.64	97	72020	1.56	ppb		98
34) Cyclohexane	9.33	56	33263	1.69	ppb		94
35) Carbon tetrachloride	9.27	117	98668	1.52	ppb		99
36) Benzene	9.24	78	84721	1.57	ppb		98
37) Methyl methacrylate	11.10	41	18722m	1.80	ppb		
38) 1,4-dioxane	11.15	88	12241	1.89	ppb		90
39) 2,2,4-trimethylpentane	10.21	57	92336	1.64	ppb		95
40) Heptane	10.63	43	33224	1.71	ppb		95
41) Trichloroethene	10.72	130	50857	1.57	ppb		97
42) 1,2-dichloropropane	10.84	63	28091	1.60	ppb		100
43) Bromodichloromethane	11.23	83	84091	1.53	ppb		100
44) cis-1,3-dichloropropene	12.14	75	40112	1.72	ppb		96
45) trans-1,3-dichloropropene	12.94	75	29789	1.83	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D
Acq On : 26 Aug 2011 8:53 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	44366	1.62	ppb	98
48)	Toluene	12.97	92	60762	1.61	ppb	93
49)	Methyl Isobutyl Ketone	12.12	43	25186m	1.86	ppb	
50)	Dibromochloromethane	13.91	129	98172	1.52	ppb	98
51)	Methyl Butyl Ketone	13.50	43	17248m	2.79	ppb	
52)	1,2-dibromoethane	14.15	107	68175	1.59	ppb	100
53)	Tetrachloroethylene	14.00	164	58542	1.51	ppb	99
54)	Chlorobenzene	14.95	112	91490	1.55	ppb	97
55)	Ethylbenzene	15.21	91	130175	1.72	ppb	98
56)	m&p-xylene	15.40	91	218103	3.44	ppb	98
57)	Styrene	15.80	104	69603	1.88	ppb	94
58)	Bromoform	15.88	173	103302	1.58	ppb	99
59)	o-xylene	15.83	91	120503	1.73	ppb	97
61)	1,1,2,2-tetrachloroethane	16.25	83	80854	1.73	ppb	99
62)	2-Chlorotoluene	16.88	91	80034	1.88	ppb	99
63)	4-ethyltoluene	17.02	105	111885	2.04	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	119095	1.88	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	95053	2.03	ppb	98
66)	1,3-dichlorobenzene	17.73	146	82210	1.78	ppb	99
67)	benzyl chloride	17.80	91	39261	1.90	ppb	97
68)	1,4-dichlorobenzene	17.86	146	80606	1.82	ppb	99
69)	1,2-dichlorobenzene	18.14	146	79880	1.83	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	40600	2.11	ppb	98
71)	Naphthalene	19.92	128	54978	2.36	ppb	99
72)	Hexachloro-1,3-butadiene	20.02	225	62941	1.91	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

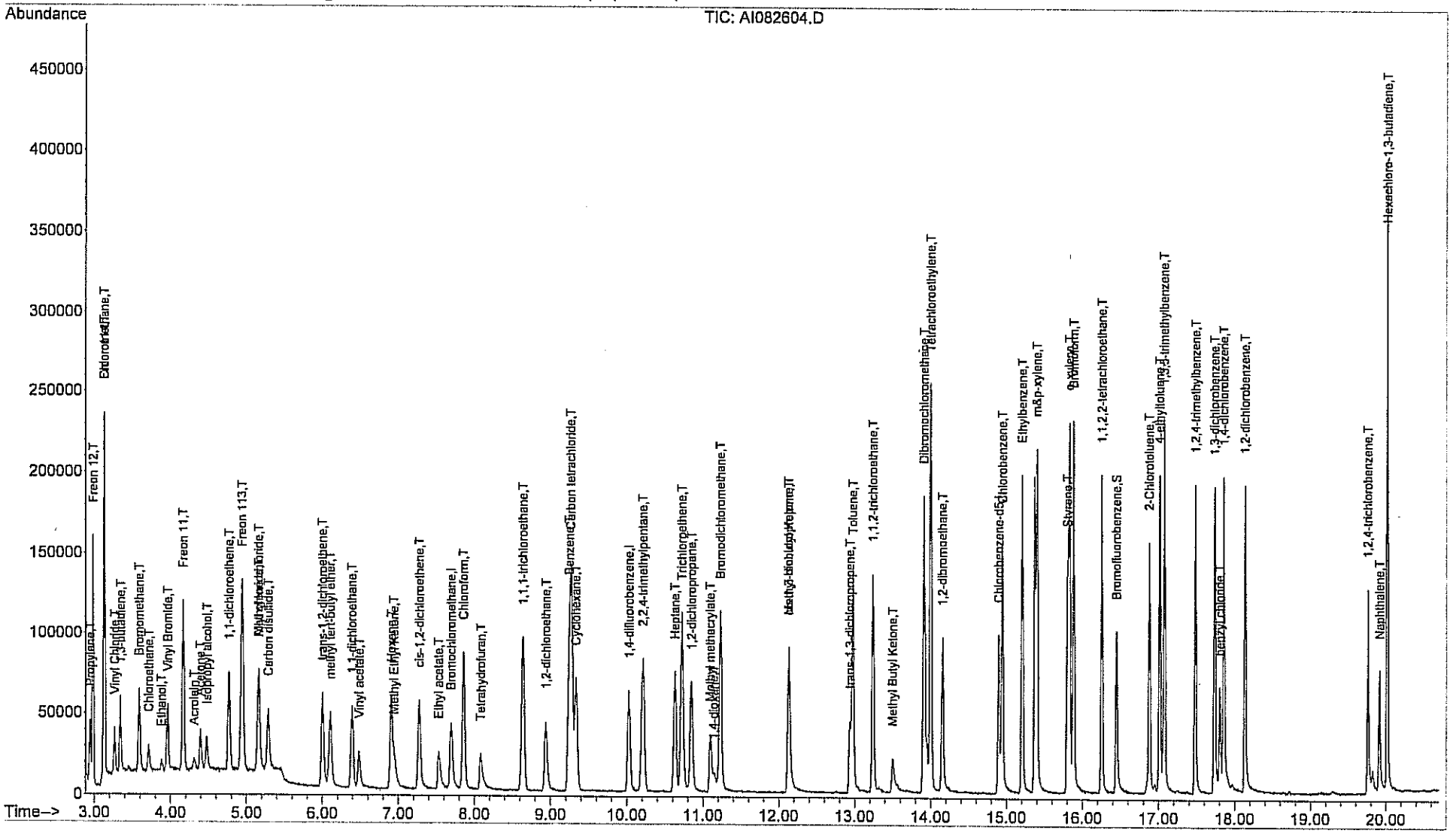
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D
Acq On : 26 Aug 2011 8:53 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:48 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082604.D A826_1UG.M Wed Sep 14 16:59:26 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17503	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	67673	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	60322	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	33027	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	10042	0.96	ppb		93
3) Freon 12	2.98	85	66766	0.93	ppb		97
4) Chloromethane	3.13	50	16838	0.95	ppb		98
5) Freon 114	3.13	85	49768	0.96	ppb		97
6) Vinyl Chloride	3.27	62	14813	0.93	ppb		98
7) 1,3-butadiene	3.34	39	11065	0.99	ppb		98
8) Bromomethane	3.59	94	18431	0.91	ppb		98
9) Ethanol	3.89	45	5938m	1.31	ppb		
10) Acrolein	4.32	56	3440	0.75	ppb		91
11) Chloroethane	3.72	64	6063	0.89	ppb		98
12) Vinyl Bromide	3.96	106	17521	0.92	ppb		100
13) Freon 11	4.17	101	51887	0.94	ppb		99
14) Acetone	4.40	58	5160	0.81	ppb	#	82
15) Isopropyl alcohol	4.48	45	11363	1.14	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16815	0.97	ppb		92
17) Freon 113	4.94	101	35518	0.90	ppb		95
18) Methylene chloride	5.17	84	13749	0.90	ppb		94
19) Allyl chloride	5.15	41	13708	0.93	ppb		95
20) Carbon disulfide	5.29	76	41096	0.93	ppb		100
21) trans-1,2-dichloroethene	6.01	61	25035	1.00	ppb		92
22) methyl tert-butyl ether	6.12	73	19580	1.02	ppb		86
23) 1,1-dichloroethane	6.40	63	31230	0.97	ppb		97
24) Vinyl acetate	6.49	43	25405	1.06	ppb		98
25) Methyl Ethyl Ketone	6.95	72	5610m	1.08	ppb		
26) cis-1,2-dichloroethene	7.28	61	23586	0.98	ppb		92
27) Hexane	6.91	57	19620	1.02	ppb		89
28) Ethyl acetate	7.54	43	22463	1.07	ppb		97
29) Chloroform	7.86	83	49279	0.97	ppb		100
30) Tetrahydrofuran	8.09	42	10556	1.03	ppb		93
31) 1,2-dichloroethane	8.95	62	29933	0.95	ppb		97
33) 1,1,1-trichloroethane	8.64	97	44354	0.93	ppb		99
34) Cyclohexane	9.34	56	19640	0.97	ppb		94
35) Carbon tetrachloride	9.27	117	59612	0.89	ppb		100
36) Benzene	9.25	78	51777	0.94	ppb		96
37) Methyl methacrylate	11.10	41	13122m	1.23	ppb		
38) 1,4-dioxane	11.16	88	6706	1.00	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	52826	0.91	ppb		97
40) Heptane	10.63	43	18947	0.95	ppb		93
41) Trichloroethene	10.73	130	31367	0.94	ppb		98
42) 1,2-dichloropropane	10.85	63	16359	0.90	ppb		100
43) Bromodichloromethane	11.23	83	50677	0.89	ppb		99
44) cis-1,3-dichloropropene	12.14	75	22511	0.94	ppb		96
45) trans-1,3-dichloropropene	12.94	75	17795	1.06	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

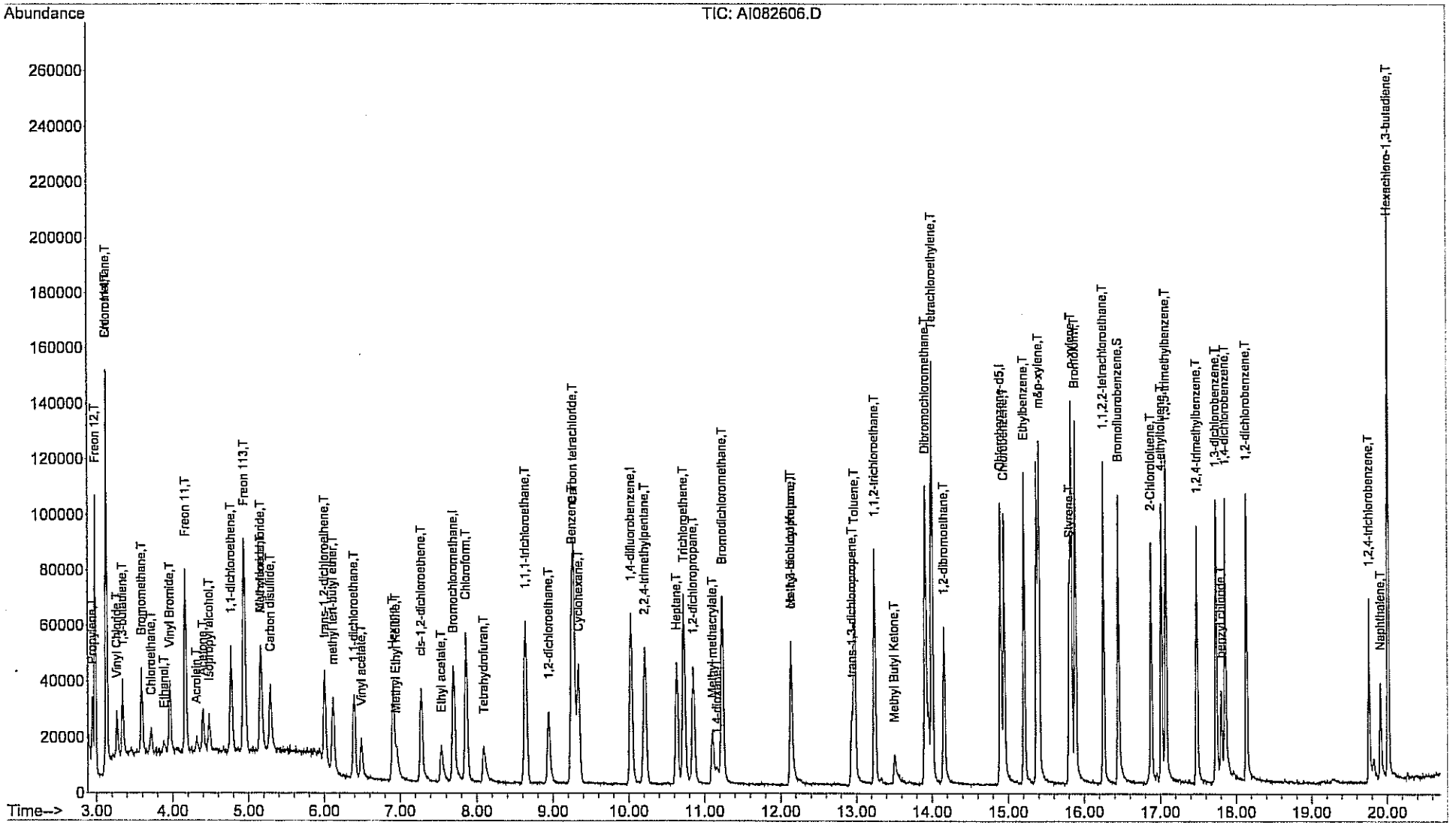
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	26740	0.95	ppb	99
48)	Toluene	12.98	92	34938	0.91	ppb	94
49)	Methyl Isobutyl Ketone	12.14	43	16021	1.16	ppb	96
50)	Dibromochloromethane	13.91	129	59005	0.90	ppb	98
51)	Methyl Butyl Ketone	13.50	43	10637m	1.68	ppb	
52)	1,2-dibromoethane	14.16	107	41120	0.94	ppb	99
53)	Tetrachloroethylene	14.00	164	35394	0.89	ppb	97
54)	Chlorobenzene	14.94	112	55601	0.92	ppb	95
55)	Ethylbenzene	15.21	91	74366	0.96	ppb	99
56)	m&p-xylene	15.40	91	125879	1.95	ppb	98
57)	Styrene	15.80	104	37636	0.99	ppb	95
58)	Bromoform	15.88	173	60011	0.90	ppb	99
59)	o-xylene	15.83	91	68416	0.96	ppb	96
61)	1,1,2,2-tetrachloroethane	16.25	83	47879	1.01	ppb	99
62)	2-Chlorotoluene	16.88	91	45387	1.05	ppb	98
63)	4-ethyltoluene	17.02	105	57064	1.02	ppb	97
64)	1,3,5-trimethylbenzene	17.08	105	62550	0.97	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	48670	1.02	ppb	96
66)	1,3-dichlorobenzene	17.74	146	45309	0.96	ppb	97
67)	benzyl chloride	17.80	91	22380	1.06	ppb	98
68)	1,4-dichlorobenzene	17.85	146	43475	0.96	ppb	97
69)	1,2-dichlorobenzene	18.14	146	42920	0.97	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	22099	1.13	ppb	99
71)	Naphthalene	19.91	128	27126	1.14	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	35674	1.06	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082606.D A826_1UG.M Wed Sep 14 16:59:29 2011 MSD1 Page 3

Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	20287	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	76621	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	66272	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	32611	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	6024	0.50	ppb		93
3) Freon 12	2.98	85	39312	0.47	ppb		99
4) Chloromethane	3.13	50	10095	0.49	ppb		98
5) Freon 114	3.13	85	28700	0.48	ppb		98
6) Vinyl Chloride	3.27	62	8586	0.47	ppb		100
7) 1,3-butadiene	3.34	39	5936	0.46	ppb		90
8) Bromomethane	3.59	94	11161	0.47	ppb		99
9) Ethanol	3.88	45	2354	0.45	ppb	#	43
10) Acrolein	4.31	56	2488	0.47	ppb		98
11) Chloroethane	3.71	64	3720	0.47	ppb		98
12) Vinyl Bromide	3.96	106	10045	0.46	ppb		99
13) Freon 11	4.17	101	29406	0.46	ppb		99
14) Acetone	4.40	58	3751	0.51	ppb	#	61
15) Isopropyl alcohol	4.48	45	7325	0.64	ppb	#	100
16) 1,1-dichloroethene	4.77	96	9224	0.46	ppb		93
17) Freon 113	4.94	101	21159	0.46	ppb		97
18) Methylene chloride	5.17	84	8343	0.47	ppb		91
19) Allyl chloride	5.16	41	8384	0.49	ppb		100
20) Carbon disulfide	5.29	76	24655	0.48	ppb		96
21) trans-1,2-dichloroethene	6.00	61	14718	0.51	ppb		93
22) methyl tert-butyl ether	6.11	73	11425	0.51	ppb		87
23) 1,1-dichloroethane	6.40	63	17963	0.48	ppb		96
24) Vinyl acetate	6.49	43	13490	0.49	ppb		98
25) Methyl Ethyl Ketone	6.95	72	2813	0.47	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	13290	0.47	ppb		92
27) Hexane	6.91	57	10487	0.47	ppb		98
28) Ethyl acetate	7.54	43	13259	0.54	ppb		98
29) Chloroform	7.86	83	28360	0.48	ppb		100
30) Tetrahydrofuran	8.10	42	5845	0.49	ppb		94
31) 1,2-dichloroethane	8.94	62	17189	0.47	ppb		97
33) 1,1,1-trichloroethane	8.64	97	24495	0.45	ppb		96
34) Cyclohexane	9.34	56	10725	0.47	ppb		94
35) Carbon tetrachloride	9.28	117	34661	0.46	ppb		100
36) Benzene	9.25	78	28819	0.46	ppb		97
37) Methyl methacrylate	11.10	41	7294	0.60	ppb		93
38) 1,4-dioxane	11.17	88	4553	0.60	ppb		87
39) 2,2,4-trimethylpentane	10.21	57	30568	0.47	ppb		98
40) Heptane	10.63	43	10163	0.45	ppb		92
41) Trichloroethene	10.72	130	17597	0.47	ppb		98
42) 1,2-dichloropropane	10.85	63	9845	0.48	ppb		97
43) Bromodichloromethane	11.23	83	29368	0.46	ppb		97
44) cis-1,3-dichloropropene	12.14	75	11858	0.44	ppb		93
45) trans-1,3-dichloropropene	12.94	75	9050	0.48	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.25	97	14207	0.44	ppb	95
48)	Toluene	12.98	92	19073	0.45	ppb	89
49)	Methyl Isobutyl Ketone	12.14	43	11124m	0.73	ppb	
50)	Dibromochloromethane	13.91	129	33332	0.46	ppb	99
51)	Methyl Butyl Ketone	13.50	43	6119	0.88	ppb	96
52)	1,2-dibromoethane	14.16	107	22094	0.46	ppb	99
53)	Tetrachloroethylene	14.00	164	20279	0.47	ppb	99
54)	Chlorobenzene	14.95	112	30774	0.46	ppb	99
55)	Ethylbenzene	15.21	91	37236	0.44	ppb	100
56)	m&p-xylene	15.40	91	62003	0.87	ppb	97
57)	Styrene	15.81	104	18262	0.44	ppb	94
58)	Bromoform	15.89	173	33673	0.46	ppb	99
59)	o-xylene	15.83	91	40774	0.52	ppb	92
61)	1,1,2,2-tetrachloroethane	16.26	83	26547	0.51	ppb	98
62)	2-Chlorotoluene	16.88	91	22557	0.47	ppb	97
63)	4-ethyltoluene	17.02	105	28072	0.46	ppb	95
64)	1,3,5-trimethylbenzene	17.08	105	34496	0.48	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	25068	0.48	ppb	99
66)	1,3-dichlorobenzene	17.73	146	24023	0.46	ppb	98
67)	benzyl chloride	17.81	91	10565	0.46	ppb	93
68)	1,4-dichlorobenzene	17.86	146	22551	0.46	ppb	98
69)	1,2-dichlorobenzene	18.14	146	23314	0.48	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	10520	0.49	ppb	99
71)	Naphthalene	19.91	128	12326	0.47	ppb	96
72)	Hexachloro-1,3-butadiene	20.01	225	17921	0.49	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

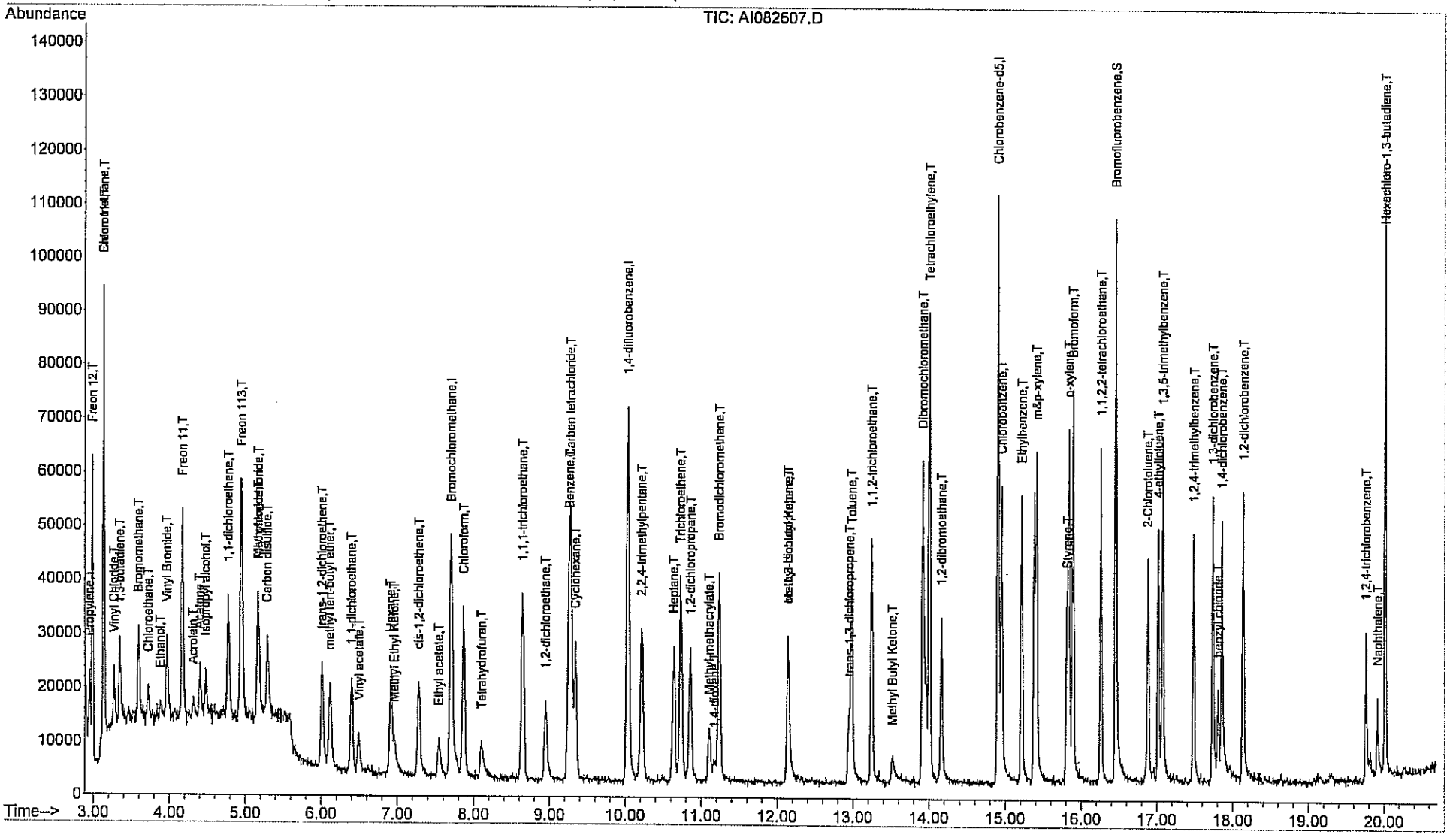
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D
Acq On : 26 Aug 2011 10:31 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082607.D A826_1UG.M Wed Sep 14 16:59:32 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17624	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	64788	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	54147	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	26102	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	3723	0.35	ppb		98
3) Freon 12	2.98	85	24318	0.34	ppb		97
4) Chloromethane	3.14	50	5898	0.33	ppb		96
5) Freon 114	3.13	85	16934	0.32	ppb		97
6) Vinyl Chloride	3.27	62	5224	0.33	ppb		99
7) 1,3-butadiene	3.34	39	3987	0.35	ppb		97
8) Bromomethane	3.60	94	6493	0.32	ppb		100
9) Ethanol	3.89	45	1786m	0.39	ppb		
10) Acrolein	4.32	56	1285	0.28	ppb		98
11) Chloroethane	3.72	64	2083	0.31	ppb		82
12) Vinyl Bromide	3.97	106	6257	0.33	ppb		97
13) Freon 11	4.17	101	17994	0.32	ppb		97
14) Acetone	4.40	58	2036	0.32	ppb	#	67
15) Isopropyl alcohol	4.48	45	4396m	0.44	ppb		
16) 1,1-dichloroethene	4.78	96	5824	0.33	ppb		91
17) Freon 113	4.95	101	12420	0.31	ppb		97
18) Methylene chloride	5.17	84	4994	0.32	ppb		93
19) Allyl chloride	5.16	41	4897	0.33	ppb		97
20) Carbon disulfide	5.29	76	16206	0.36	ppb		97
21) trans-1,2-dichloroethene	6.01	61	8578	0.34	ppb		94
22) methyl tert-butyl ether	6.12	73	6480	0.34	ppb		89
23) 1,1-dichloroethane	6.40	63	10384	0.32	ppb		99
24) Vinyl acetate	6.49	43	7548	0.31	ppb		98
25) Methyl Ethyl Ketone	6.98	72	1771	0.34	ppb	#	100
26) cis-1,2-dichloroethene	7.29	61	7921	0.33	ppb		92
27) Hexane	6.92	57	6369	0.33	ppb		89
28) Ethyl acetate	7.55	43	8052	0.38	ppb		100
29) Chloroform	7.87	83	16831	0.33	ppb		99
30) Tetrahydrofuran	8.11	42	2843	0.27	ppb		86
31) 1,2-dichloroethane	8.95	62	10672	0.34	ppb		99
33) 1,1,1-trichloroethane	8.65	97	14678	0.32	ppb		100
34) Cyclohexane	9.34	56	6123	0.32	ppb		90
35) Carbon tetrachloride	9.28	117	20058	0.31	ppb		98
36) Benzene	9.25	78	16931	0.32	ppb		97
37) Methyl methacrylate	11.11	41	4223	0.41	ppb		86
38) 1,4-dioxane	11.20	88	2208m	0.35	ppb		
39) 2,2,4-trimethylpentane	10.21	57	17977	0.32	ppb		97
40) Heptane	10.64	43	5968	0.31	ppb		92
41) Trichloroethene	10.73	130	10203	0.32	ppb		100
42) 1,2-dichloropropane	10.85	63	5829	0.34	ppb		96
43) Bromodichloromethane	11.24	83	17124	0.32	ppb		99
44) cis-1,3-dichloropropene	12.14	75	6991	0.30	ppb		97
45) trans-1,3-dichloropropene	12.94	75	5053	0.31	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,2-trichloroethane	13.25	97	8953	0.33	ppb		100
48)	Toluene	12.98	92	10529	0.30	ppb		93
49)	Methyl Isobutyl Ketone	12.14	43	5332	0.43	ppb		100
50)	Dibromochloromethane	13.92	129	19772	0.33	ppb		99
51)	Methyl Butyl Ketone	13.58	43	2536	0.45	ppb	#	40
52)	1,2-dibromoethane	14.16	107	12880	0.33	ppb		95
53)	Tetrachloroethylene	14.00	164	12251	0.34	ppb		98
54)	Chlorobenzene	14.95	112	18202	0.34	ppb		98
55)	Ethylbenzene	15.21	91	20832	0.30	ppb		99
56)	m&p-xylene	15.40	91	33533m	0.58	ppb		
57)	Styrene	15.81	104	9383	0.28	ppb		99
58)	Bromoform	15.89	173	20064	0.34	ppb		100
59)	o-xylene	15.83	91	18387	0.29	ppb		99
61)	1,1,2,2-tetrachloroethane	16.26	83	15265	0.36	ppb		98
62)	2-Chlorotoluene	16.88	91	12444	0.32	ppb		98
63)	4-ethyltoluene	17.02	105	14326	0.29	ppb		98
64)	1,3,5-trimethylbenzene	17.08	105	15771	0.27	ppb		91
65)	1,2,4-trimethylbenzene	17.49	105	12998	0.30	ppb		99
66)	1,3-dichlorobenzene	17.74	146	13094	0.31	ppb		99
67)	benzyl chloride	17.81	91	6638	0.35	ppb		97
68)	1,4-dichlorobenzene	17.86	146	11905	0.29	ppb		97
69)	1,2-dichlorobenzene	18.14	146	13593	0.34	ppb		97
70)	1,2,4-trichlorobenzene	19.76	180	6309	0.36	ppb		90
71)	Naphthalene	19.91	128	7579	0.36	ppb		96
72)	Hexachloro-1,3-butadiene	20.02	225	11800	0.39	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

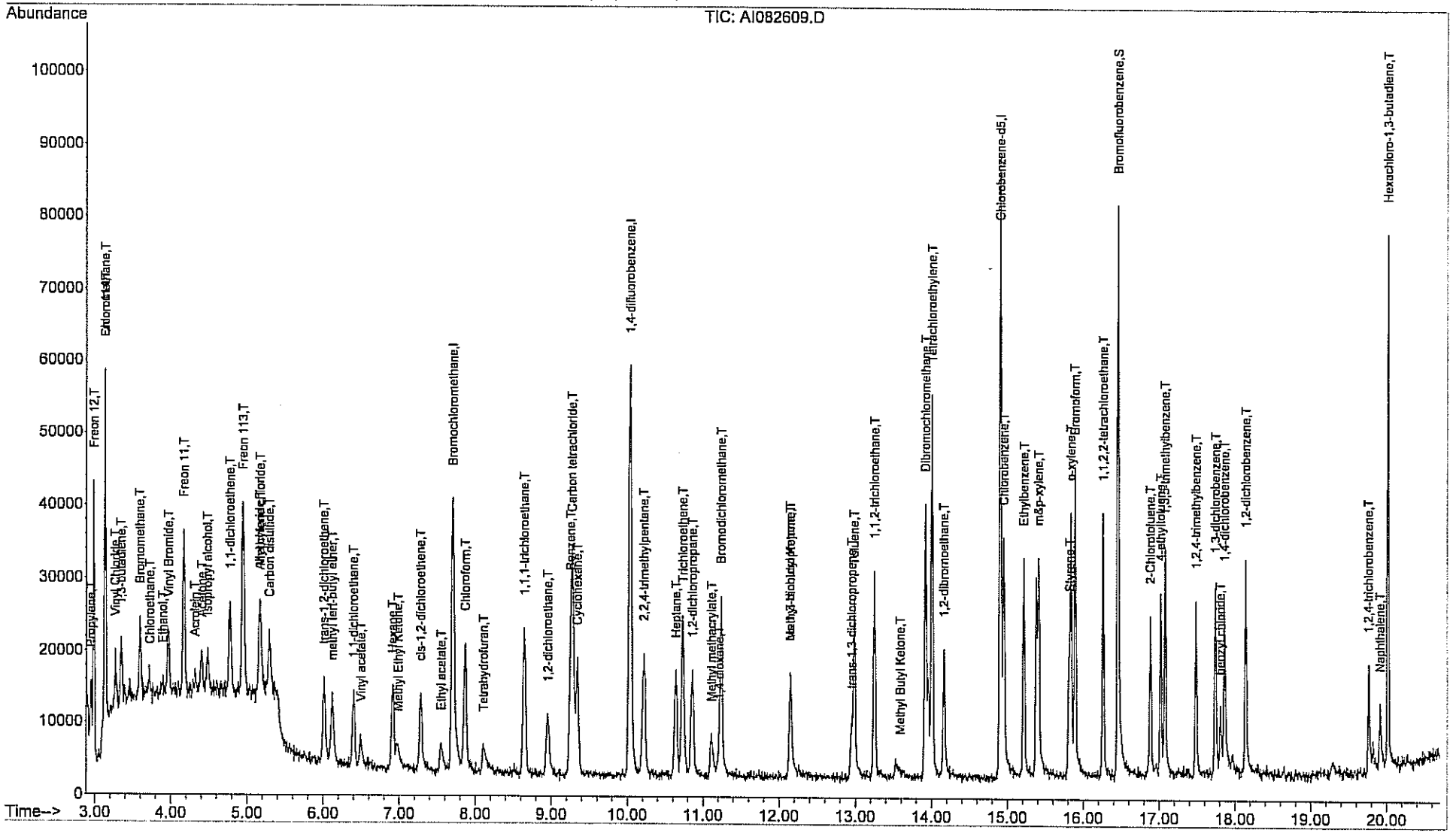
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D
Acq On : 26 Aug 2011 11:37 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:51 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082609.D A826_1UG.M Wed Sep 14 16:59:35 2011 MSD1

Centek Laboratories, LLC

Centek Laboratories, LLC

Data File : C:\HPCHEM\1\DATA\AI082610.D Vial: 9
Acq On : 27 Aug 2011 12:09 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	16666	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	63613	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	51764	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	23358	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	2161	0.22	ppb		92
3) Freon 12	2.99	85	12469	0.18	ppb		96
4) Chloromethane	3.13	50	3106m	0.18	ppb		
5) Freon 114	3.13	85	10134	0.20	ppb		98
6) Vinyl Chloride	3.27	62	2919	0.19	ppb		88
7) 1,3-butadiene	3.35	39	2343	0.22	ppb		99
8) Bromomethane	3.59	94	4153	0.22	ppb		90
10) Acrolein	4.33	56	913m	0.21	ppb		
11) Chloroethane	3.71	64	1311	0.20	ppb		87
12) Vinyl Bromide	3.97	106	3539	0.20	ppb		97
13) Freon 11	4.17	101	10347	0.20	ppb		97
15) Isopropyl alcohol	4.48	45	2142m	0.23	ppb		
16) 1,1-dichloroethene	4.78	96	3136	0.19	ppb		91
17) Freon 113	4.95	101	7151	0.19	ppb		95
18) Methylene chloride	5.18	84	2817	0.19	ppb		98
19) Allyl chloride	5.16	41	2776	0.20	ppb		95
20) Carbon disulfide	5.30	76	9842	0.23	ppb		96
21) trans-1,2-dichloroethene	6.01	61	4311	0.18	ppb		87
22) methyl tert-butyl ether	6.11	73	3616	0.20	ppb		82
23) 1,1-dichloroethane	6.40	63	5777	0.19	ppb		99
24) Vinyl acetate	6.50	43	3708	0.16	ppb		92
26) cis-1,2-dichloroethene	7.28	61	4114	0.18	ppb		93
27) Hexane	6.92	57	3587	0.20	ppb		96
28) Ethyl acetate	7.56	43	4376	0.22	ppb		97
29) Chloroform	7.86	83	8795	0.18	ppb		97
30) Tetrahydrofuran	8.12	42	1894	0.19	ppb		92
31) 1,2-dichloroethane	8.96	62	5362	0.18	ppb		97
33) 1,1,1-trichloroethane	8.64	97	8214	0.18	ppb		99
34) Cyclohexane	9.34	56	3620	0.19	ppb	#	65
35) Carbon tetrachloride	9.28	117	10944	0.17	ppb		96
36) Benzene	9.25	78	9471	0.18	ppb		97
39) 2,2,4-trimethylpentane	10.22	57	9749	0.18	ppb		98
40) Heptane	10.64	43	3161	0.17	ppb		97
41) Trichloroethene	10.73	130	5864	0.19	ppb		90
42) 1,2-dichloropropane	10.85	63	2929	0.17	ppb		96
43) Bromodichloromethane	11.23	83	9147	0.17	ppb		99
44) cis-1,3-dichloropropene	12.15	75	3399	0.15	ppb		96
45) trans-1,3-dichloropropene	12.95	75	2277	0.14	ppb		98
46) 1,1,2-trichloroethane	13.25	97	4627	0.17	ppb		99
48) Toluene	12.99	92	5126	0.16	ppb		94
50) Dibromochloromethane	13.91	129	9833	0.17	ppb		99
52) 1,2-dibromoethane	14.16	107	6326	0.17	ppb		99
53) Tetrachloroethylene	14.01	164	6278	0.18	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D Vial: 9
Acq On : 27 Aug 2011 12:09 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Chlorobenzene	14.95	112	8754	0.17	ppb		98
55)	Ethylbenzene	15.21	91	9540	0.14	ppb		97
56)	m&p-xylene	15.41	91	14338	0.26	ppb		97
57)	Styrene	15.81	104	3808	0.12	ppb		89
58)	Bromoform	15.89	173	9108	0.16	ppb		97
59)	o-xylene	15.83	91	9694	0.16	ppb		85
61)	1,1,2,2-tetrachloroethane	16.25	83	7384	0.18	ppb		98
62)	2-Chlorotoluene	16.88	91	5743	0.15	ppb		94
63)	4-ethyltoluene	17.02	105	6105	0.13	ppb		97
64)	1,3,5-trimethylbenzene	17.08	105	7237	0.13	ppb		92
65)	1,2,4-trimethylbenzene	17.49	105	6051	0.15	ppb		96
66)	1,3-dichlorobenzene	17.74	146	5997	0.15	ppb		98
67)	benzyl chloride	17.81	91	3055	0.17	ppb		99
68)	1,4-dichlorobenzene	17.86	146	5602	0.14	ppb		98
69)	1,2-dichlorobenzene	18.14	146	6667	0.17	ppb		100
70)	1,2,4-trichlorobenzene	19.76	180	2708	0.16	ppb	#	80
71)	Naphthalene	19.92	128	4566	0.22	ppb		97
72)	Hexachloro-1,3-butadiene	20.01	225	6296	0.22	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

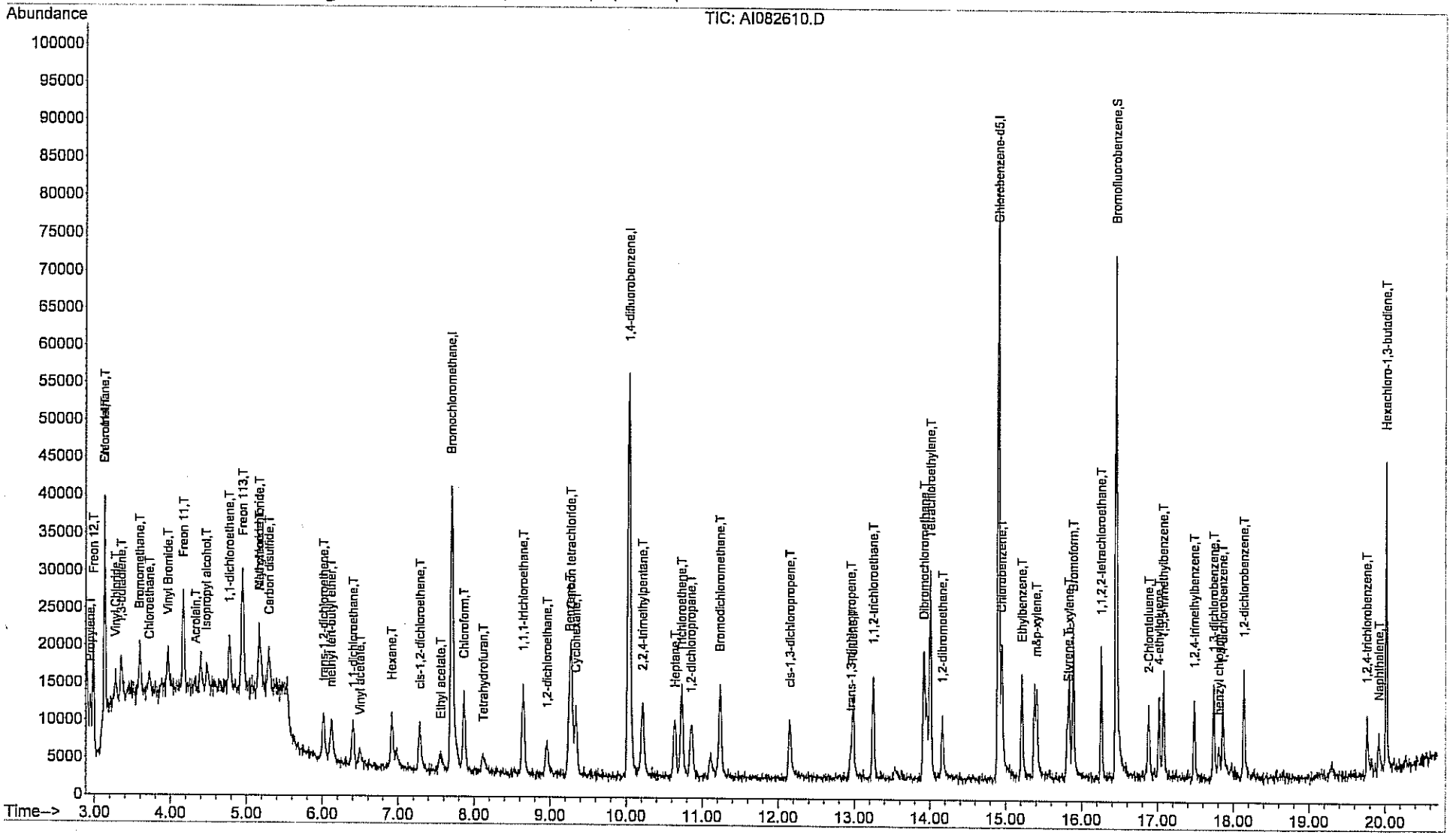
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D
Acq On : 27 Aug 2011 12:09 am
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:53 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082610.D A826_1UG.M Wed Sep 14 16:59:38 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082612.D Vial: 11
Acq On : 27 Aug 2011 1:14 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 01:35:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18058	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	66203	1.00	ppb	0.02
47) Chlorobenzene-d5	14.90	117	55725	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	28444	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	1701	0.10	ppb	93
35) Carbon tetrachloride	9.28	117	6638	0.10	ppb	100
41) Trichloroethene	10.74	130	3436	0.11	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI082612.D A826_1UG.M Wed Sep 14 16:59:41 2011 MSD1 Page 1

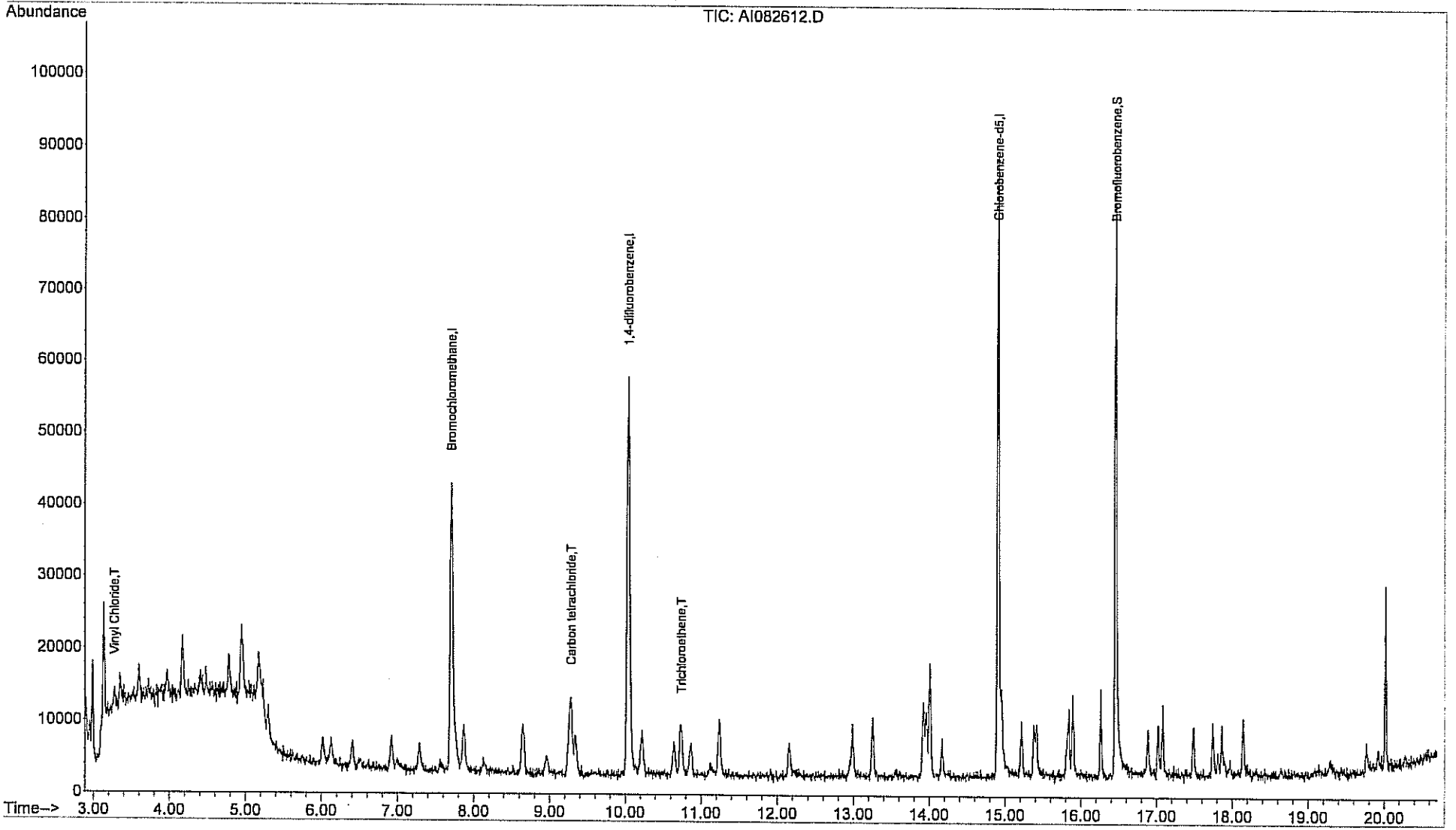
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082612.D
Acq On : 27 Aug 2011 1:14 am
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:54 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082613.D Vial: 12
Acq On : 27 Aug 2011 1:46 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 02:07:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18373	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.04	114	69553	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	58557	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	30696	1.12	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	697	0.04	ppb	69
35) Carbon tetrachloride	9.28	117	2594	0.04	ppb	100
41) Trichloroethene	10.73	130	1503	0.04	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI082613.D A826_1UG.M Wed Sep 14 16:59:44 2011 MSD1 Page 1

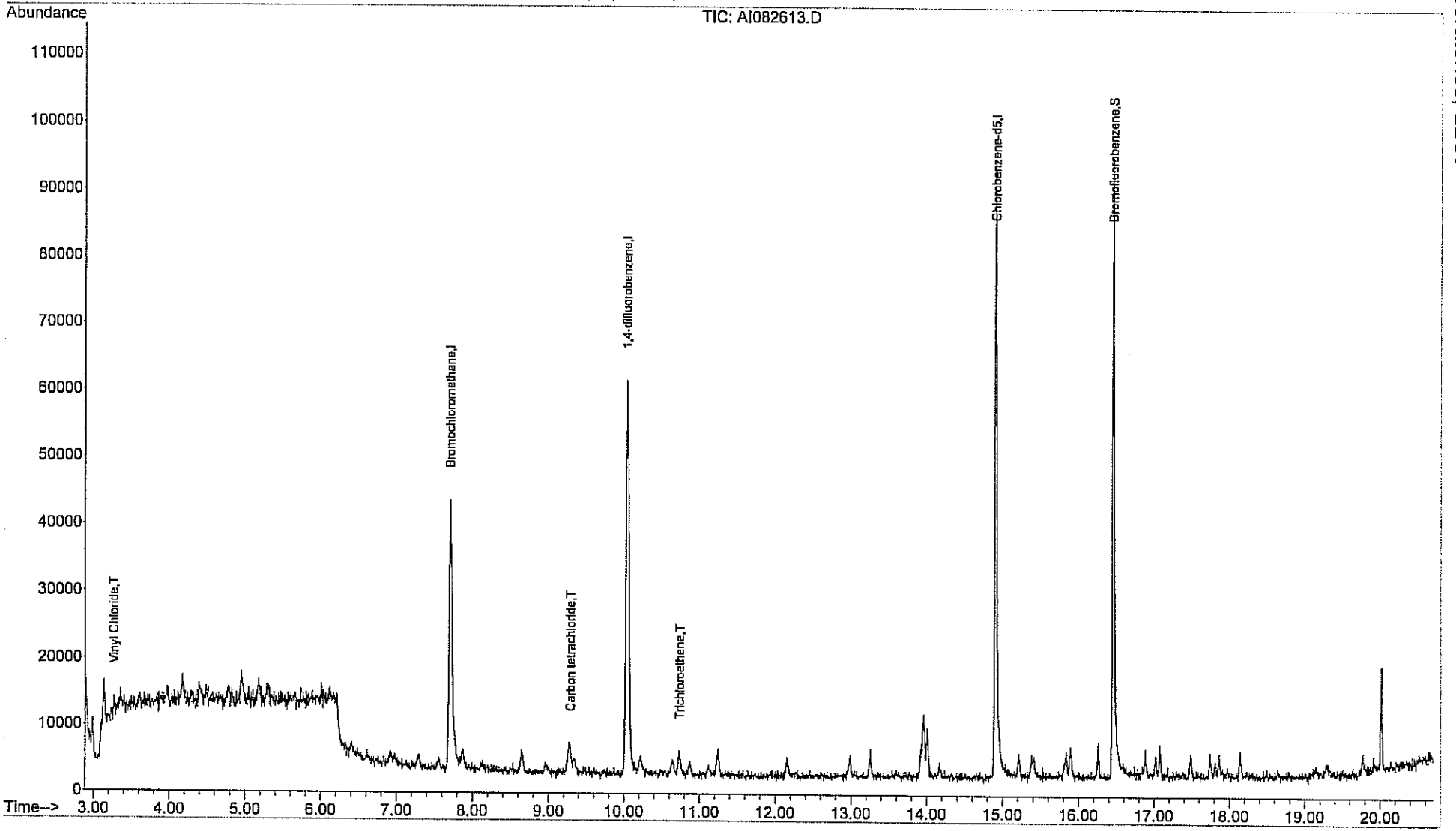
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082613.D
Acq On : 27 Aug 2011 1:46 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:55 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082613.D A826_1UG.M Wed Sep 14 16:59:44 2011 MSD1

Centek Laboratories, LLCt

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Data File : C:\HPCHEM\1\DATA\AI091002.D Vial: 2
Acq On : 10 Sep 2011 9:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	82	0.00
2	T	Propylene	0.662	0.540	18.4	77	0.00
3	T	Freon 12	4.274	4.080	4.5	88	0.00
4	T	Chloromethane	1.071	1.125	-5.0	96	0.00
5	T	Freon 114	3.213	3.466	-7.9	100	0.00
6	T	Vinyl Chloride	0.954	0.973	-2.0	95	0.00
7	T	1,3-butadiene	0.700	0.657	6.1	85	0.00
8	T	Bromomethane	1.228	1.292	-5.2	101	0.00
9	T	Ethanol	0.284	0.299	-5.3	73	-0.03
10	T	Acrolein	0.265	0.260	1.9	109	-0.04
11	T	Chloroethane	0.406	0.429	-5.7	102	0.00
12	T	Vinyl Bromide	1.137	1.226	-7.8	101	-0.01
13	T	Freon 11	3.318	3.624	-9.2	101	0.00
14	T	Acetone	0.353	0.334	5.4	93	-0.04
15	T	Isopropyl alcohol	0.721	0.632	12.3	80	-0.04
16	T	1,1-dichloroethene	1.048	1.120	-6.9	96	0.00
17	T	Freon 113	2.325	2.557	-10.0	104	-0.01
18	T	Methylene chloride	0.903	0.907	-0.4	95	0.00
19	T	Allyl chloride	0.894	0.903	-1.0	95	0.00
20	T	Carbon disulfide	2.837	2.991	-5.4	105	0.00
21	T	trans-1,2-dichloroethene	1.564	1.483	5.2	85	0.00
22	T	methyl tert-butyl ether	1.253	0.955	23.8	70	-0.04
23	T	1,1-dichloroethane	1.977	1.889	4.5	87	0.00
24	T	Vinyl acetate	1.511	1.540	-1.9	87	-0.03
25	T	Methyl Ethyl Ketone	0.327	0.296	9.5	76	-0.04
26	T	cis-1,2-dichloroethene	1.464	1.361	7.0	83	0.00
27	T	Hexane	1.222	1.149	6.0	84	0.00
28	T	Ethyl acetate	1.426	1.348	5.5	86	-0.02
29	T	Chloroform	3.081	2.965	3.8	87	0.00
30	T	Tetrahydrofuran	0.624	0.563	9.8	77	-0.02
31	T	1,2-dichloroethane	1.905	1.863	2.2	90	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	64	0.00
33	T	1,1,1-trichloroethane	0.738	0.928	-25.7	91	0.00
34	T	Cyclohexane	0.327	0.359	-9.8	80	0.00
35	T	Carbon tetrachloride	0.996	1.243	-24.8	91	0.00
36	T	Benzene	0.857	0.967	-12.8	81	0.00
37	T	Methyl methacrylate	0.204	0.235	-15.2	78	-0.01
38	T	1,4-dioxane	0.115	0.081	29.6	52	-0.04
39	T	2,2,4-trimethylpentane	0.910	1.008	-10.8	83	0.00
40	T	Heptane	0.313	0.366	-16.9	84	0.00
41	T	Trichloroethene	0.523	0.608	-16.3	84	0.00
42	T	1,2-dichloropropane	0.281	0.323	-14.9	86	0.00
43	T	Bromodichloromethane	0.856	1.032	-20.6	89	0.00
44	T	cis-1,3-dichloropropene	0.371	0.444	-19.7	86	0.00
45	T	trans-1,3-dichloropropene	0.273	0.317	-16.1	78	0.00
46	T	1,1,2-trichloroethane	0.438	0.517	-18.0	84	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	63	0.00
48	T	Toluene	0.653	0.679	-4.0	74	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.245	20.5	58	-0.01

(#) = Out of Range

Data File : C:\HPCHEM\1\DATA\AI091002.D Vial: 2
Acq On : 10 Sep 2011 9:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.270	-12.0	82	0.00
51	T	Methyl Butyl Ketone	0.180	0.143	20.6	51	-0.02
52	T	1,2-dibromoethane	0.764	0.879	-15.1	81	0.00
53	T	Tetrachloroethylene	0.692	0.777	-12.3	84	0.00
54	T	Chlorobenzene	1.048	1.133	-8.1	78	0.00
55	T	Ethylbenzene	1.339	1.425	-6.4	73	0.00
56	T	m&p-xylene	1.093	1.241	-13.5	75	0.00
57	T	Styrene	0.658	0.736	-11.9	74	0.00
58	T	Bromoform	1.151	1.135	1.4	72	0.00
59	T	o-xylene	1.270	1.420	-11.8	79	0.00
60	S	Bromofluorobenzene	0.505	0.512	-1.4	59	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	1.037	-15.1	82	0.00
62	T	2-Chlorotoluene	0.813	0.900	-10.7	76	0.00
63	T	4-ethyltoluene	1.046	1.151	-10.0	77	0.00
64	T	1,3,5-trimethylbenzene	1.147	1.402	-22.2	85	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.972	-5.1	76	0.00
66	T	1,3-dichlorobenzene	0.848	0.881	-3.9	74	0.00
67	T	benzyl chloride	0.420	0.462	-10.0	79	0.00
68	T	1,4-dichlorobenzene	0.807	0.906	-12.3	79	0.00
69	T	1,2-dichlorobenzene	0.841	0.909	-8.1	81	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.317	22.1	55	0.00
71	T	Naphthalene	0.542	0.280	48.3#	39#	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.645	7.6	69	0.00

Data File : C:\HPCHEM\1\DATA\AI091002.D Vial: 2
Acq On : 10 Sep 2011 9:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 09:50:01 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	14402	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	43508	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	38085	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	19512	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	7775	0.82	ppb		99
3) Freon 12	2.98	85	58763	0.95	ppb		99
4) Chloromethane	3.12	50	16203	1.05	ppb		99
5) Freon 114	3.12	85	49916	1.08	ppb		99
6) Vinyl Chloride	3.26	62	14016	1.02	ppb		96
7) 1,3-butadiene	3.34	39	9460	0.94	ppb		86
8) Bromomethane	3.58	94	18610	1.05	ppb		97
9) Ethanol	3.85	45	4307	1.05	ppb	#	44
10) Acrolein	4.28	56	3751	0.98	ppb		99
11) Chloroethane	3.71	64	6182	1.06	ppb		100
12) Vinyl Bromide	3.95	106	17654	1.08	ppb		98
13) Freon 11	4.16	101	52188	1.09	ppb		100
14) Acetone	4.36	58	4815	0.95	ppb	#	69
15) Isopropyl alcohol	4.45	45	9095	0.88	ppb	#	100
16) 1,1-dichloroethene	4.76	96	16124	1.07	ppb		95
17) Freon 113	4.93	101	36833	1.10	ppb		97
18) Methylene chloride	5.16	84	13056	1.00	ppb		93
19) Allyl chloride	5.14	41	13004	1.01	ppb		94
20) Carbon disulfide	5.28	76	43082	1.05	ppb		100
21) trans-1,2-dichloroethene	6.00	61	21356	0.95	ppb		94
22) methyl tert-butyl ether	6.08	73	13756	0.76	ppb		93
23) 1,1-dichloroethane	6.39	63	27205	0.96	ppb		98
24) Vinyl acetate	6.46	43	22174	1.02	ppb		99
25) Methyl Ethyl Ketone	6.92	72	4266	0.90	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	19600	0.93	ppb		93
27) Hexane	6.90	57	16544	0.94	ppb		93
28) Ethyl acetate	7.51	43	19416	0.95	ppb		95
29) Chloroform	7.86	83	42705	0.96	ppb		99
30) Tetrahydrofuran	8.07	42	8106	0.90	ppb		94
31) 1,2-dichloroethane	8.94	62	26832	0.98	ppb		99
33) 1,1,1-trichloroethane	8.64	97	40392	1.26	ppb		96
34) Cyclohexane	9.33	56	15625	1.10	ppb		90
35) Carbon tetrachloride	9.28	117	54065	1.25	ppb		98
36) Benzene	9.24	78	42093	1.13	ppb		96
37) Methyl methacrylate	11.09	41	10212	1.15	ppb		90
38) 1,4-dioxane	11.13	88	3504m	0.70	ppb		
39) 2,2,4-trimethylpentane	10.21	57	43858	1.11	ppb		98
40) Heptane	10.63	43	15913	1.17	ppb		94
41) Trichloroethene	10.72	130	26462	1.16	ppb		97
42) 1,2-dichloropropane	10.84	63	14037	1.15	ppb		100
43) Bromodichloromethane	11.22	83	44909	1.21	ppb		97
44) cis-1,3-dichloropropene	12.13	75	19330	1.20	ppb		99
45) trans-1,3-dichloropropene	12.94	75	13801	1.16	ppb		98

(#) = qualifier out of range (m) = manual integration

Centek Laboratories, LLCt

Data File : C:\HPCHEM\1\DATA\AI091002.D Vial: 2
Acq On : 10 Sep 2011 9:29 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 09:50:01 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	22472	1.18	ppb	100
48)	Toluene	12.97	92	25848	1.04	ppb	97
49)	Methyl Isobutyl Ketone	12.12	43	9342m	0.80	ppb	
50)	Dibromochloromethane	13.91	129	48353	1.12	ppb	98
51)	Methyl Butyl Ketone	13.50	43	5438m	0.80	ppb	
52)	1,2-dibromoethane	14.15	107	33469	1.15	ppb	99
53)	Tetrachloroethylene	14.00	164	29588	1.12	ppb	99
54)	Chlorobenzene	14.95	112	43167	1.08	ppb	98
55)	Ethylbenzene	15.21	91	54272	1.06	ppb	100
56)	m&p-xylene	15.40	91	94562	2.27	ppb	97
57)	Styrene	15.81	104	28037	1.12	ppb	98
58)	Bromoform	15.88	173	43213	0.99	ppb	99
59)	o-xylene	15.83	91	54077	1.12	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	39485	1.15	ppb	99
62)	2-Chlorotoluene	16.88	91	34291	1.11	ppb	99
63)	4-ethyltoluene	17.02	105	43818	1.10	ppb	95
64)	1,3,5-trimethylbenzene	17.08	105	53393	1.22	ppb	99
65)	1,2,4-trimethylbenzene	17.49	105	37000	1.05	ppb	99
66)	1,3-dichlorobenzene	17.74	146	33566	1.04	ppb	98
67)	benzyl chloride	17.80	91	17597	1.10	ppb	99
68)	1,4-dichlorobenzene	17.86	146	34521	1.12	ppb	96
69)	1,2-dichlorobenzene	18.14	146	34629	1.08	ppb	98
70)	1,2,4-trichlorobenzene	19.77	180	12073	0.78	ppb	100
71)	Naphthalene	19.91	128	10651	0.52	ppb	97
72)	Hexachloro-1,3-butadiene	20.01	225	24546	0.92	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

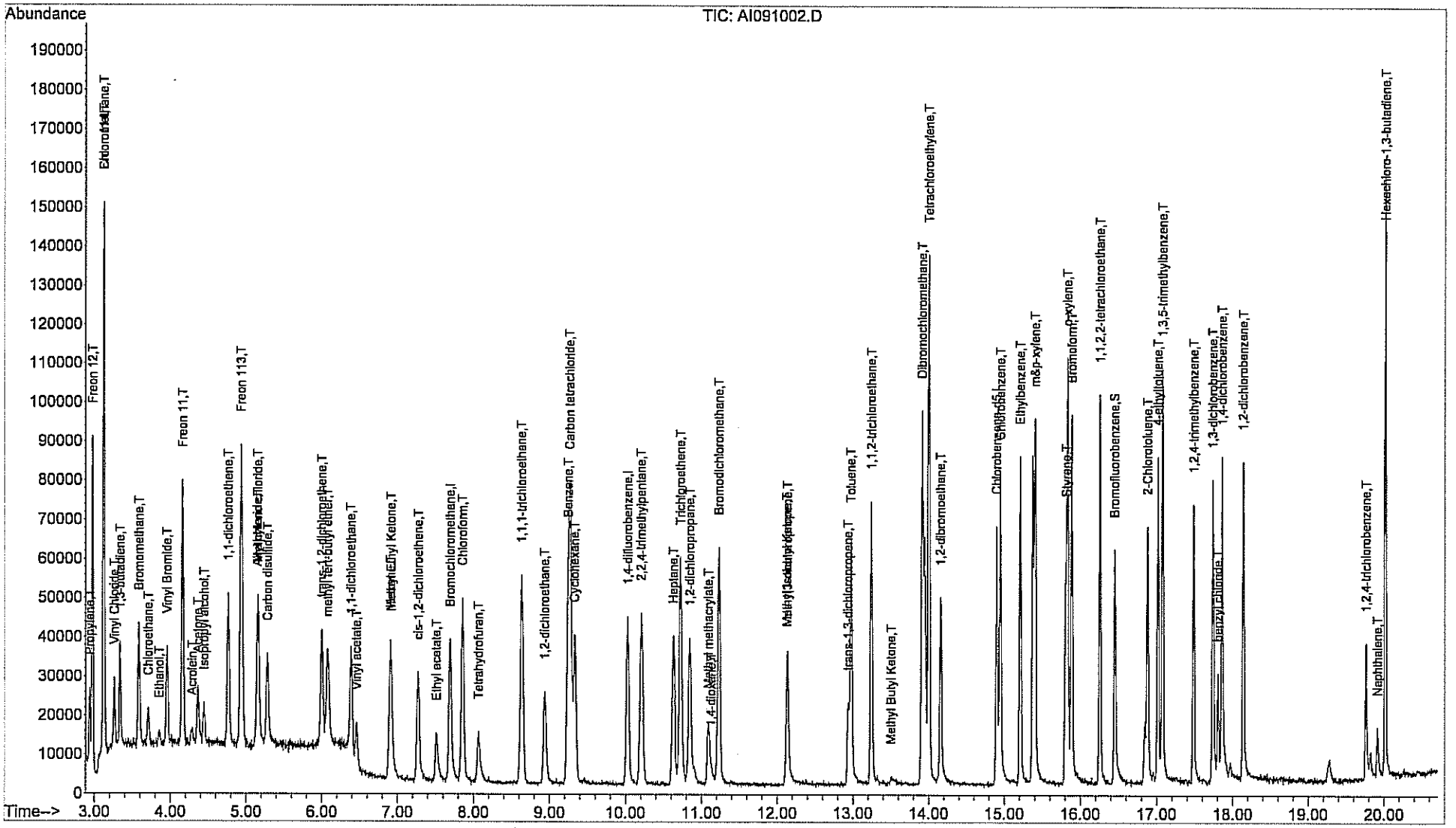
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091002.D
Acq On : 10 Sep 2011 9:29 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 12 15:05 2011

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

GC/MS VOLATILES-WHOLE AIR

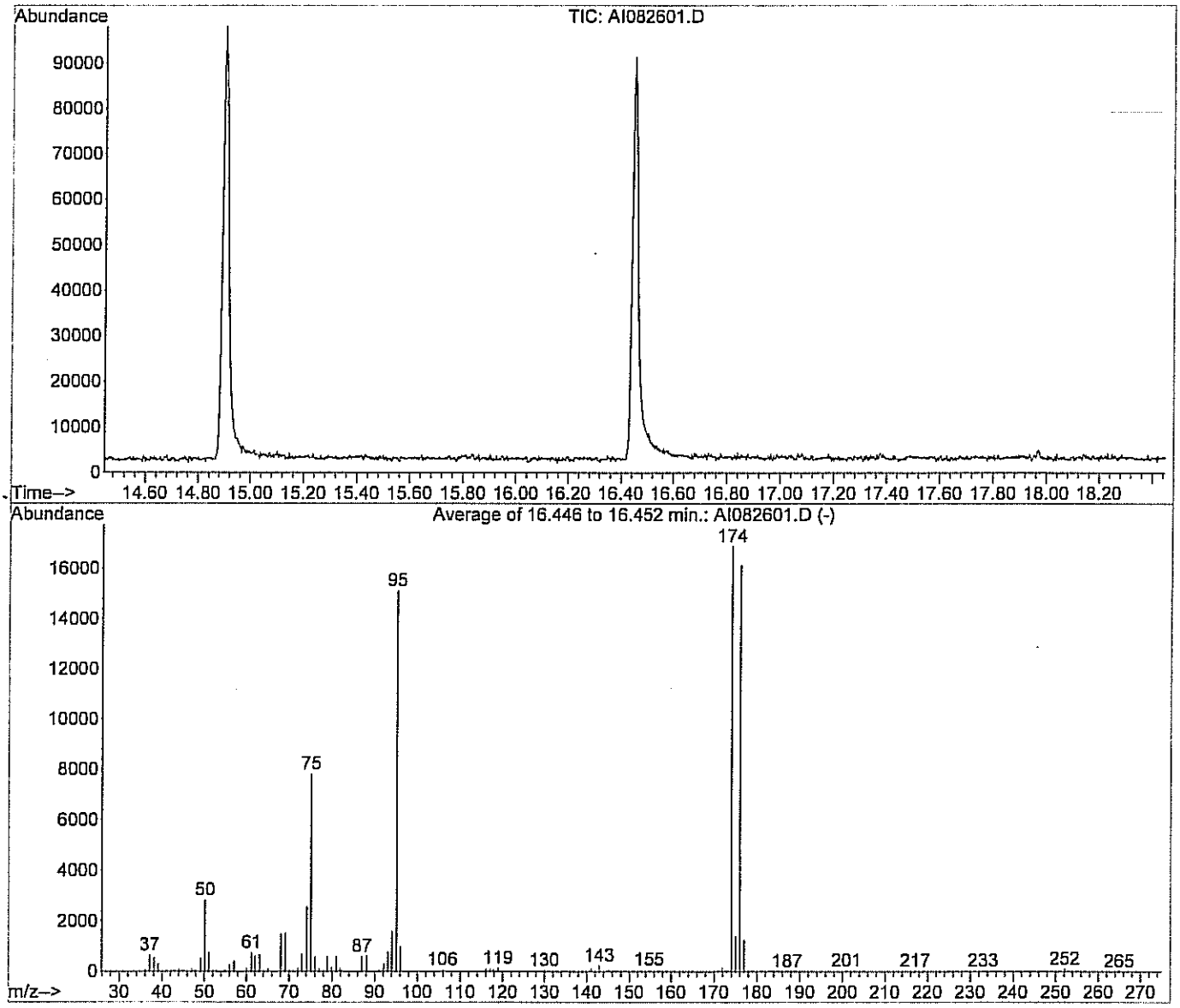
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI082601.D
Acq On : 26 Aug 2011 7:13 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

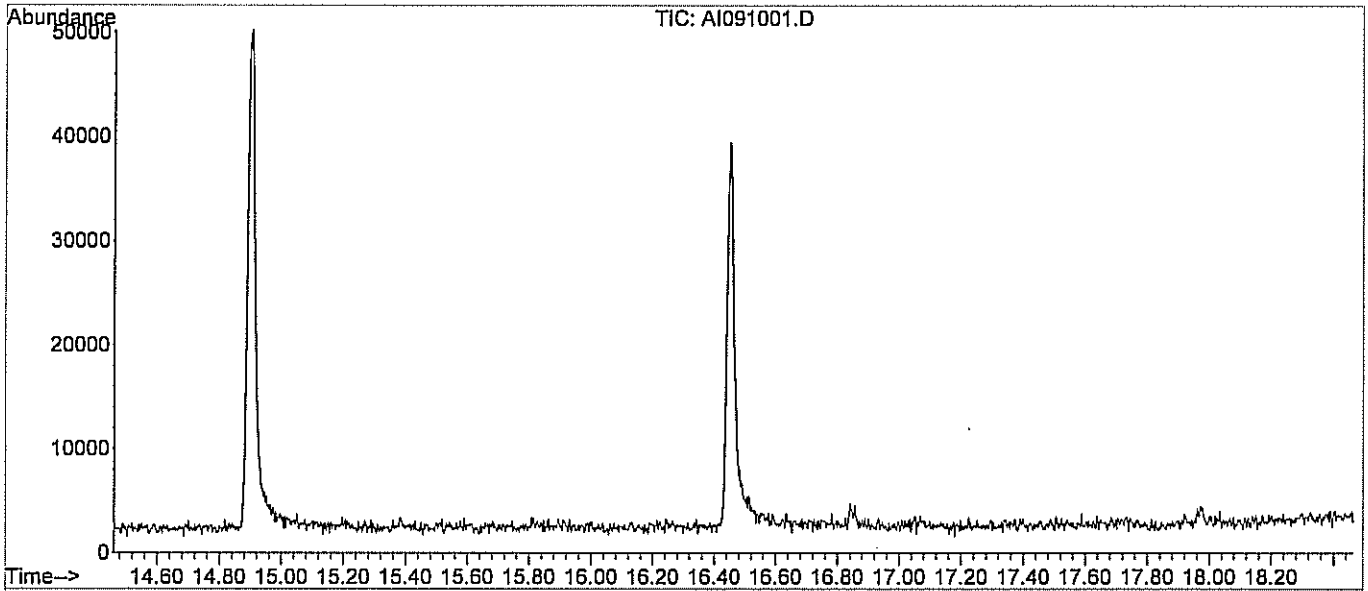


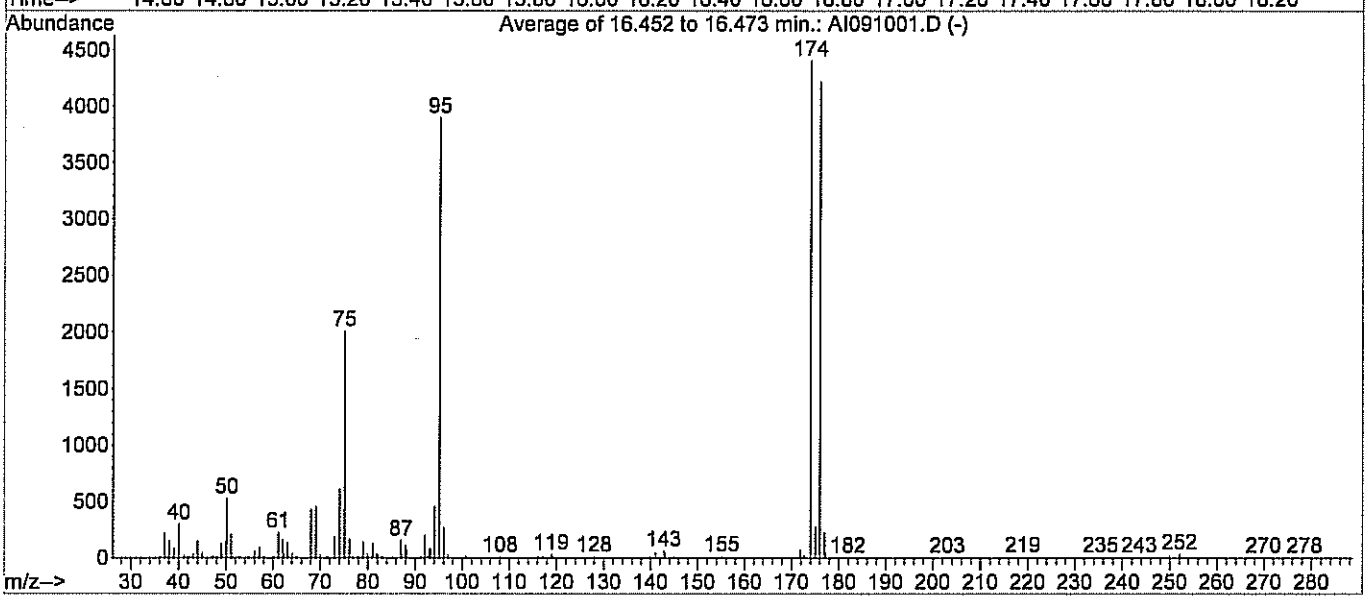
Spectrum Information: Average of 16.446 to 16.452 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	2842	PASS
75	95	30	66	51.7	7829	PASS
95	95	100	100	100.0	15137	PASS
96	95	5	9	6.7	1010	PASS
173	174	0.00	2	0.4	69	PASS
174	95	50	120	111.6	16900	PASS
175	174	4	9	8.3	1398	PASS
176	174	95	101	95.6	16160	PASS
177	176	5	9	7.8	1261	PASS

AI082601.D A826_1UG.M Wed Sep 14 16:58:39 2011 MSD1

Data File : C:\HPCHEM\1\DATA\AI091001.D Vial: 1
Acq On : 10 Sep 2011 8:49 am Operator: RJP
Sample : BFB1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration





Spectrum Information: Average of 16.452 to 16.473 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.6	531	PASS
75	95	30	66	51.5	2008	PASS
95	95	100	100	100.0	3902	PASS
96	95	5	9	6.9	270	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	113.0	4409	PASS
175	174	4	9	6.4	280	PASS
176	174	95	101	95.8	4226	PASS
177	176	5	9	5.4	230	PASS

AI091001.D A826_1UG.M Tue Oct 11 10:43:41 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-091011** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4950**
Client ID: **ZZZZZ** Batch ID: **R4950** TestNo: **TO-15** Analysis Date: **9/10/2011** SeqNo: **58681**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-091011	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58681

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-091011	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58681

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

Data File : C:\HPCHEM\1\DATA\AI091004.D Vial: 4
Acq On : 10 Sep 2011 10:37 am Operator: RJP
Sample : AMB1UG-091011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 10:57:53 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	13723	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.04	114	35962	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	30979	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	12105	0.77	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 77.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI091004.D A826_1UG.M Tue Oct 11 10:44:13 2011 MSD1 Page 1

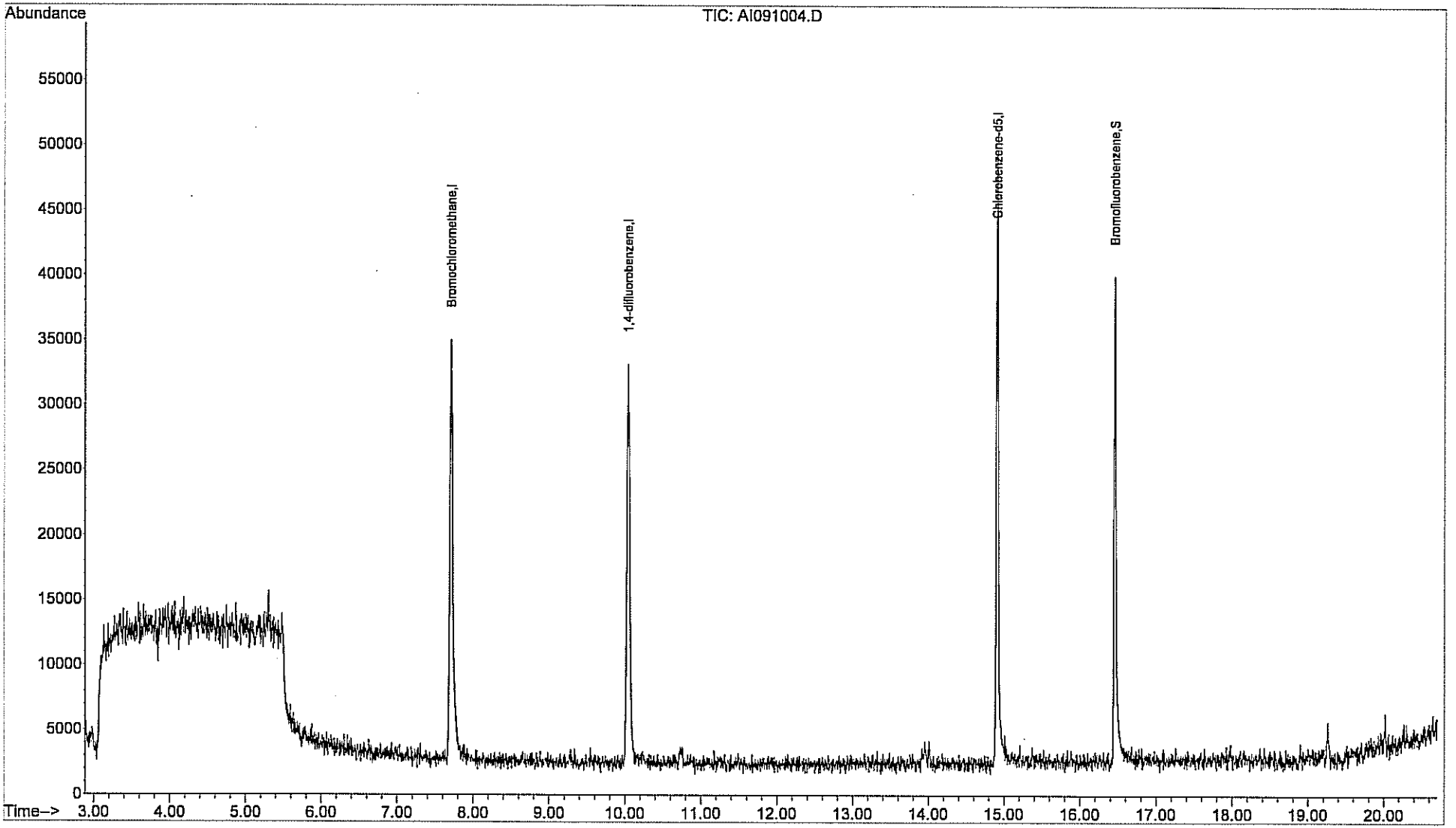
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091004.D
Acq On : 10 Sep 2011 10:37 am
Sample : AMB1UG-091011
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 12 15:06 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



AI091004.D A826_1UG.M Tue Oct 11 10:44:14 2011 MSD1 Page 2

Centek Laboratories, LLCt

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-091011	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130				
1,1,2,2-Tetrachloroethane	1.180	0.15	1	0	118	70	130				
1,1,2-Trichloroethane	1.230	0.15	1	0	123	70	130				
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,2,4-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.020	0.15	1	0	102	70	130				
1,2-Dichloroethane	1.030	0.15	1	0	103	70	130				
1,2-Dichloropropane	1.240	0.15	1	0	124	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	1.000	0.15	1	0	100	70	130				
1,3-Dichlorobenzene	1.110	0.15	1	0	111	70	130				
1,4-Dichlorobenzene	1.100	0.15	1	0	110	70	130				
1,4-Dioxane	0.9200	0.30	1	0	92.0	70	130				
2,2,4-trimethylpentane	1.200	0.15	1	0	120	70	130				
4-ethyltoluene	1.140	0.15	1	0	114	70	130				
Acetone	1.050	0.30	1	0	105	70	130				
Allyl chloride	1.160	0.15	1	0	116	70	130				
Benzene	1.170	0.15	1	0	117	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.250	0.15	1	0	125	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-091011	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4950
Client ID:	ZZZZZ	Batch ID:	R4950	TestNo:	TO-15			Analysis Date:	9/10/2011	SeqNo:	58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.100	0.15	1	0	110	70	130				
Carbon tetrachloride	1.260	0.15	1	0	126	70	130				
Chlorobenzene	1.100	0.15	1	0	110	70	130				
Chloroethane	1.060	0.15	1	0	106	70	130				
Chloroform	1.010	0.15	1	0	101	70	130				
Chloromethane	1.080	0.15	1	0	108	70	130				
cis-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
cis-1,3-Dichloropropene	1.280	0.15	1	0	128	70	130				
Cyclohexane	1.200	0.15	1	0	120	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	1.000	0.25	1	0	100	70	130				
Ethylbenzene	1.100	0.15	1	0	110	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.160	0.15	1	0	116	70	130				
Freon 114	1.110	0.15	1	0	111	70	130				
Freon 12	1.000	0.15	1	0	100	70	130				
Heptane	1.250	0.15	1	0	125	70	130				
Hexachloro-1,3-butadiene	0.9900	0.15	1	0	99.0	70	130				
Hexane	0.9400	0.15	1	0	94.0	70	130				
Isopropyl alcohol	1.070	0.15	1	0	107	70	130				
m&p-Xylene	2.320	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl Ethyl Ketone	0.9800	0.30	1	0	98.0	70	130				
Methyl Isobutyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	70	130				
Methylene chloride	1.110	0.15	1	0	111	70	130				
o-Xylene	1.150	0.15	1	0	115	70	130				
Propylene	0.8900	0.15	1	0	89.0	70	130				
Styrene	1.120	0.15	1	0	112	70	130				
Tetrachloroethylene	1.150	0.15	1	0	115	70	130				
Tetrahydrofuran	1.030	0.15	1	0	103	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLCt

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-091011 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58682

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
trans-1,3-Dichloropropene	1.260	0.15	1	0	126	70	130				
Trichloroethene	1.210	0.15	1	0	121	70	130				
Vinyl acetate	1.010	0.15	1	0	101	70	130				
Vinyl Bromide	1.130	0.15	1	0	113	70	130				
Vinyl chloride	1.120	0.15	1	0	112	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

Centek Laboratories, LLCt

Data File : C:\HPCHEM\1\DATA\AI091003.D Vial: 3
Acq On : 10 Sep 2011 10:03 am Operator: RJP
Sample : ALCS1UG-091011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 10:24:15 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13960	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	41457	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	38230	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	19101	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	8245	0.89	ppb		93
3) Freon 12	2.98	85	59408	1.00	ppb		99
4) Chloromethane	3.13	50	16194	1.08	ppb		97
5) Freon 114	3.13	85	49868	1.11	ppb		99
6) Vinyl Chloride	3.27	62	14941	1.12	ppb		99
7) 1,3-butadiene	3.34	39	9796	1.00	ppb		90
8) Bromomethane	3.59	94	18811	1.10	ppb		98
9) Ethanol	3.86	45	3700	0.93	ppb	#	32
10) Acrolein	4.30	56	3641	0.98	ppb		93
11) Chloroethane	3.72	64	6004	1.06	ppb		91
12) Vinyl Bromide	3.96	106	18016	1.13	ppb		98
13) Freon 11	4.17	101	53910	1.16	ppb		100
14) Acetone	4.37	58	5169	1.05	ppb	#	80
15) Isopropyl alcohol	4.45	45	10779	1.07	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16256	1.11	ppb		96
17) Freon 113	4.94	101	37756	1.16	ppb		98
18) Methylene chloride	5.17	84	13941	1.11	ppb		96
19) Allyl chloride	5.15	41	14467	1.16	ppb		98
20) Carbon disulfide	5.29	76	43485	1.10	ppb		100
21) trans-1,2-dichloroethene	6.01	61	21852	1.00	ppb		94
22) methyl tert-butyl ether	6.09	73	14538	0.83	ppb		94
23) 1,1-dichloroethane	6.39	63	27936	1.01	ppb		97
24) Vinyl acetate	6.47	43	21367	1.01	ppb		99
25) Methyl Ethyl Ketone	6.93	72	4456	0.98	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	20221	0.99	ppb		92
27) Hexane	6.91	57	16095	0.94	ppb		98
28) Ethyl acetate	7.52	43	19883	1.00	ppb		99
29) Chloroform	7.86	83	43306	1.01	ppb		100
30) Tetrahydrofuran	8.08	42	8978	1.03	ppb		94
31) 1,2-dichloroethane	8.94	62	27284	1.03	ppb		97
33) 1,1,1-trichloroethane	8.64	97	38901m	1.27	ppb		
34) Cyclohexane	9.33	56	16226	1.20	ppb		90
35) Carbon tetrachloride	9.28	117	51845m	1.26	ppb		
36) Benzene	9.25	78	41681	1.17	ppb		96
37) Methyl methacrylate	11.10	41	9326	1.10	ppb	#	90
38) 1,4-dioxane	11.14	88	4360	0.92	ppb		87
39) 2,2,4-trimethylpentane	10.22	57	45326	1.20	ppb		99
40) Heptane	10.63	43	16273	1.25	ppb		96
41) Trichloroethene	10.73	130	26257	1.21	ppb		100
42) 1,2-dichloropropane	10.85	63	14503	1.24	ppb		99
43) Bromodichloromethane	11.23	83	44445	1.25	ppb		99
44) cis-1,3-dichloropropene	12.14	75	19753	1.28	ppb		95
45) trans-1,3-dichloropropene	12.94	75	14299	1.26	ppb		99

(#) = qualifier out of range (m) = manual integration

Centek Laboratories, LLCt

Data File : C:\HPCHEM\1\DATA\AI091003.D
Acq On : 10 Sep 2011 10:03 am
Sample : ALCS1UG-091011
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 10 10:24:15 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	22385	1.23	ppb	100
48)	Toluene	12.97	92	26591	1.06	ppb	96
49)	Methyl Isobutyl Ketone	12.12	43	10668	0.91	ppb	97
50)	Dibromochloromethane	13.91	129	48478	1.12	ppb	99
51)	Methyl Butyl Ketone	13.50	43	8056m	1.17	ppb	
52)	1,2-dibromoethane	14.16	107	33809	1.16	ppb	100
53)	Tetrachloroethylene	14.00	164	30350	1.15	ppb	99
54)	Chlorobenzene	14.95	112	44027	1.10	ppb	96
55)	Ethylbenzene	15.21	91	56234	1.10	ppb	99
56)	m&p-xylene	15.40	91	97028	2.32	ppb	97
57)	Styrene	15.81	104	28274	1.12	ppb	97
58)	Bromoform	15.89	173	43353	0.99	ppb	99
59)	o-xylene	15.83	91	56063	1.15	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	40519	1.18	ppb	98
62)	2-Chlorotoluene	16.88	91	32642	1.05	ppb	97
63)	4-ethyltoluene	17.02	105	45695	1.14	ppb	97
64)	1,3,5-trimethylbenzene	17.08	105	55272	1.26	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	36440	1.03	ppb	97
66)	1,3-dichlorobenzene	17.73	146	36121	1.11	ppb	98
67)	benzyl chloride	17.81	91	17789	1.11	ppb	95
68)	1,4-dichlorobenzene	17.86	146	33802	1.10	ppb	97
69)	1,2-dichlorobenzene	18.14	146	32736	1.02	ppb	97
70)	1,2,4-trichlorobenzene	19.76	180	13575m	0.87	ppb	
71)	Naphthalene	19.91	128	11991	0.58	ppb	97
72)	Hexachloro-1,3-butadiene	20.01	225	26520	0.99	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

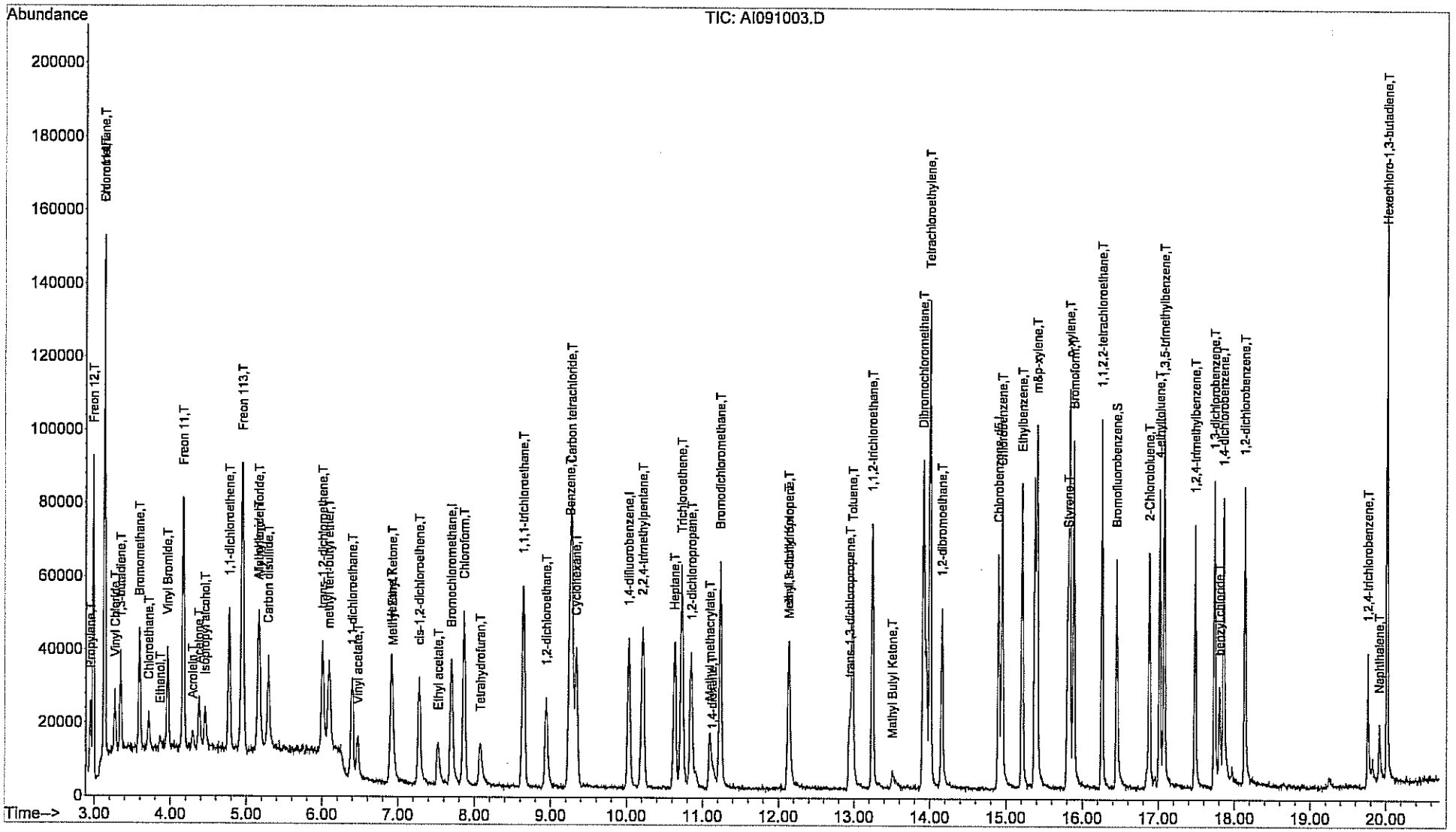
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091003.D
Acq On : 10 Sep 2011 10:03 am
Sample : ALCS1UG-091011
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 12 15:06 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



AI091003.D A826_1UG.M Tue Oct 11 10:44:11 2011 MSD1

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *11-Oct-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-091011 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.270	0.15	1	0	127	70	130	1.27	0	30	
1,1,2,2-Tetrachloroethane	1.190	0.15	1	0	119	70	130	1.18	0.844	30	
1,1,2-Trichloroethane	1.210	0.15	1	0	121	70	130	1.23	1.64	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1-Dichloroethene	1.050	0.15	1	0	105	70	130	1.11	5.56	30	
1,2,4-Trichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,2,4-Trimethylbenzene	1.080	0.15	1	0	108	70	130	1.03	4.74	30	
1,2-Dibromoethane	1.290	0.15	1	0	129	70	130	1.16	10.6	30	
1,2-Dichlorobenzene	1.110	0.15	1	0	111	70	130	1.02	8.45	30	
1,2-Dichloroethane	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
1,2-Dichloropropane	1.290	0.15	1	0	129	70	130	1.24	3.95	30	
1,3,5-Trimethylbenzene	1.210	0.15	1	0	121	70	130	1.26	4.05	30	
1,3-butadiene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
1,3-Dichlorobenzene	1.200	0.15	1	0	120	70	130	1.11	7.79	30	
1,4-Dichlorobenzene	1.210	0.15	1	0	121	70	130	1.1	9.52	30	
1,4-Dioxane	0.8000	0.30	1	0	80.0	70	130	0.92	14.0	30	
2,2,4-trimethylpentane	1.180	0.15	1	0	118	70	130	1.2	1.68	30	
4-ethyltoluene	1.180	0.15	1	0	118	70	130	1.14	3.45	30	
Acetone	1.080	0.30	1	0	108	70	130	1.05	2.82	30	
Allyl chloride	1.130	0.15	1	0	113	70	130	1.16	2.62	30	
Benzene	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
Benzyl chloride	1.250	0.15	1	0	125	70	130	1.11	11.9	30	
Bromodichloromethane	1.240	0.15	1	0	124	70	130	1.25	0.803	30	
Bromoform	1.050	0.15	1	0	105	70	130	0.99	5.88	30	
Bromomethane	1.110	0.15	1	0	111	70	130	1.1	0.905	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-091011	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4950
Client ID: ZZZZZ	Batch ID: R4950	TestNo: TO-15		Analysis Date: 9/10/2011	SeqNo: 58683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.100	0.15	1	0	110	70	130	1.1	0	30	
Carbon tetrachloride	1.370	0.15	1	0	137	70	130	1.26	8.37	30	S
Chlorobenzene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Chloroethane	1.060	0.15	1	0	106	70	130	1.06	0	30	
Chloroform	1.010	0.15	1	0	101	70	130	1.01	0	30	
Chloromethane	1.090	0.15	1	0	109	70	130	1.08	0.922	30	
cis-1,2-Dichloroethene	0.9400	0.15	1	0	94.0	70	130	0.99	5.18	30	
cis-1,3-Dichloropropene	1.170	0.15	1	0	117	70	130	1.28	8.98	30	
Cyclohexane	1.150	0.15	1	0	115	70	130	1.2	4.26	30	
Dibromochloromethane	1.240	0.15	1	0	124	70	130	1.12	10.2	30	
Ethyl acetate	0.8300	0.25	1	0	83.0	70	130	1	18.6	30	
Ethylbenzene	1.100	0.15	1	0	110	70	130	1.1	0	30	
Freon 11	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Freon 113	1.100	0.15	1	0	110	70	130	1.16	5.31	30	
Freon 114	1.080	0.15	1	0	108	70	130	1.11	2.74	30	
Freon 12	1.010	0.15	1	0	101	70	130	1	0.995	30	
Heptane	1.240	0.15	1	0	124	70	130	1.25	0.803	30	
Hexachloro-1,3-butadiene	1.060	0.15	1	0	106	70	130	0.99	6.83	30	
Hexane	0.8800	0.15	1	0	88.0	70	130	0.94	6.59	30	
Isopropyl alcohol	0.9400	0.15	1	0	94.0	70	130	1.07	12.9	30	
m&p-Xylene	2.460	0.30	2	0	123	70	130	2.32	5.86	30	
Methyl Butyl Ketone	1.160	0.30	1	0	116	70	130	1.17	0.858	30	
Methyl Ethyl Ketone	0.7600	0.30	1	0	76.0	70	130	0.98	25.3	30	
Methyl Isobutyl Ketone	0.8200	0.30	1	0	82.0	70	130	0.91	10.4	30	
Methyl tert-butyl ether	1.000	0.15	1	0	100	70	130	0.83	18.6	30	
Methylene chloride	1.120	0.15	1	0	112	70	130	1.11	0.897	30	
o-Xylene	1.380	0.15	1	0	138	70	130	1.15	18.2	30	S
Propylene	0.8900	0.15	1	0	89.0	70	130	0.89	0	30	
Styrene	1.120	0.15	1	0	112	70	130	1.12	0	30	
Tetrachloroethylene	1.290	0.15	1	0	129	70	130	1.15	11.5	30	
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130	1.03	18.0	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

CLIENT: FPM
Work Order: C1109015
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-091011 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4950
Client ID: ZZZZZ Batch ID: R4950 TestNo: TO-15 Analysis Date: 9/10/2011 SeqNo: 58683

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
trans-1,3-Dichloropropene	1.270	0.15	1	0	127	70	130	1.26	0.791	30	
Trichloroethene	1.220	0.15	1	0	122	70	130	1.21	0.823	30	
Vinyl acetate	0.9000	0.15	1	0	90.0	70	130	1.01	11.5	30	
Vinyl Bromide	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
Vinyl chloride	1.090	0.15	1	0	109	70	130	1.12	2.71	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091018.D Vial: 18
Acq On : 10 Sep 2011 6:42 pm Operator: RJP
Sample : ALCS1UGD-091011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 19:03:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	13818	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	39976	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	33649	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	17338	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	8182	0.89	ppb		98
3) Freon 12	2.98	85	59451	1.01	ppb		100
4) Chloromethane	3.12	50	16115	1.09	ppb		96
5) Freon 114	3.13	85	48169	1.08	ppb		100
6) Vinyl Chloride	3.27	62	14376	1.09	ppb		100
7) 1,3-butadiene	3.34	39	9585	0.99	ppb		87
8) Bromomethane	3.59	94	18760	1.11	ppb		96
9) Ethanol	3.86	45	4171	1.06	ppb	#	38
10) Acrolein	4.29	56	3401	0.93	ppb		94
11) Chloroethane	3.71	64	5949	1.06	ppb		97
12) Vinyl Bromide	3.96	106	16748	1.07	ppb		94
13) Freon 11	4.17	101	50230	1.10	ppb		98
14) Acetone	4.37	58	5292	1.08	ppb		96
15) Isopropyl alcohol	4.45	45	9404	0.94	ppb	#	100
16) 1,1-dichloroethene	4.77	96	15252	1.05	ppb		99
17) Freon 113	4.94	101	35330	1.10	ppb		96
18) Methylene chloride	5.16	84	13961	1.12	ppb		94
19) Allyl chloride	5.15	41	13998	1.13	ppb		96
20) Carbon disulfide	5.28	76	43083	1.10	ppb		97
21) trans-1,2-dichloroethene	6.00	61	21428	0.99	ppb		98
22) methyl tert-butyl ether	6.08	73	17295	1.00	ppb		82
23) 1,1-dichloroethane	6.39	63	27004	0.99	ppb		98
24) Vinyl acetate	6.46	43	18868	0.90	ppb		100
25) Methyl Ethyl Ketone	6.93	72	3448	0.76	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	19017	0.94	ppb		95
27) Hexane	6.91	57	14875	0.88	ppb		96
28) Ethyl acetate	7.52	43	16305	0.83	ppb		96
29) Chloroform	7.85	83	43154	1.01	ppb		99
30) Tetrahydrofuran	8.08	42	7398	0.86	ppb		99
31) 1,2-dichloroethane	8.93	62	26972	1.02	ppb		99
33) 1,1,1-trichloroethane	8.64	97	37407m	1.27	ppb		
34) Cyclohexane	9.33	56	15059	1.15	ppb		91
35) Carbon tetrachloride	9.27	117	54427	1.37	ppb		99
36) Benzene	9.24	78	40472	1.18	ppb		96
37) Methyl methacrylate	11.10	41	8482	1.04	ppb		94
38) 1,4-dioxane	11.14	88	3657m	0.80	ppb		
39) 2,2,4-trimethylpentane	10.21	57	43075	1.18	ppb		100
40) Heptane	10.63	43	15467	1.24	ppb		99
41) Trichloroethene	10.72	130	25546	1.22	ppb		98
42) 1,2-dichloropropane	10.84	63	14529	1.29	ppb		97
43) Bromodichloromethane	11.23	83	42328m	1.24	ppb		
44) cis-1,3-dichloropropene	12.13	75	17412	1.17	ppb		97
45) trans-1,3-dichloropropene	12.94	75	13909	1.27	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091018.D Vial: 18
Acq On : 10 Sep 2011 6:42 pm Operator: RJP
Sample : ALCS1UGD-091011 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 10 19:03:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	21253	1.21	ppb	100
48)	Toluene	12.97	92	24551	1.12	ppb	99
49)	Methyl Isobutyl Ketone	12.12	43	8519m	0.82	ppb	
50)	Dibromochloromethane	13.91	129	47452	1.24	ppb	98
51)	Methyl Butyl Ketone	13.50	43	7017	1.16	ppb	91
52)	1,2-dibromoethane	14.15	107	33080	1.29	ppb	100
53)	Tetrachloroethylene	14.00	164	30156	1.29	ppb	98
54)	Chlorobenzene	14.95	112	40827	1.16	ppb	99
55)	Ethylbenzene	15.20	91	49485	1.10	ppb	96
56)	m&p-xylene	15.40	91	90576	2.46	ppb	99
57)	Styrene	15.81	104	24710	1.12	ppb	99
58)	Bromoform	15.88	173	40711	1.05	ppb	99
59)	o-xylene	15.83	91	58957	1.38	ppb	92
61)	1,1,2,2-tetrachloroethane	16.25	83	36153	1.19	ppb	97
62)	2-Chlorotoluene	16.88	91	34658	1.27	ppb	99
63)	4-ethyltoluene	17.02	105	41544	1.18	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	46781	1.21	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	33711	1.08	ppb	99
66)	1,3-dichlorobenzene	17.73	146	34182	1.20	ppb	98
67)	benzyl chloride	17.81	91	17660	1.25	ppb	98
68)	1,4-dichlorobenzene	17.86	146	32911	1.21	ppb	100
69)	1,2-dichlorobenzene	18.14	146	31289	1.11	ppb	96
70)	1,2,4-trichlorobenzene	19.76	180	11820	0.86	ppb	97
71)	Naphthalene	19.91	128	11420	0.63	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	24896	1.06	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

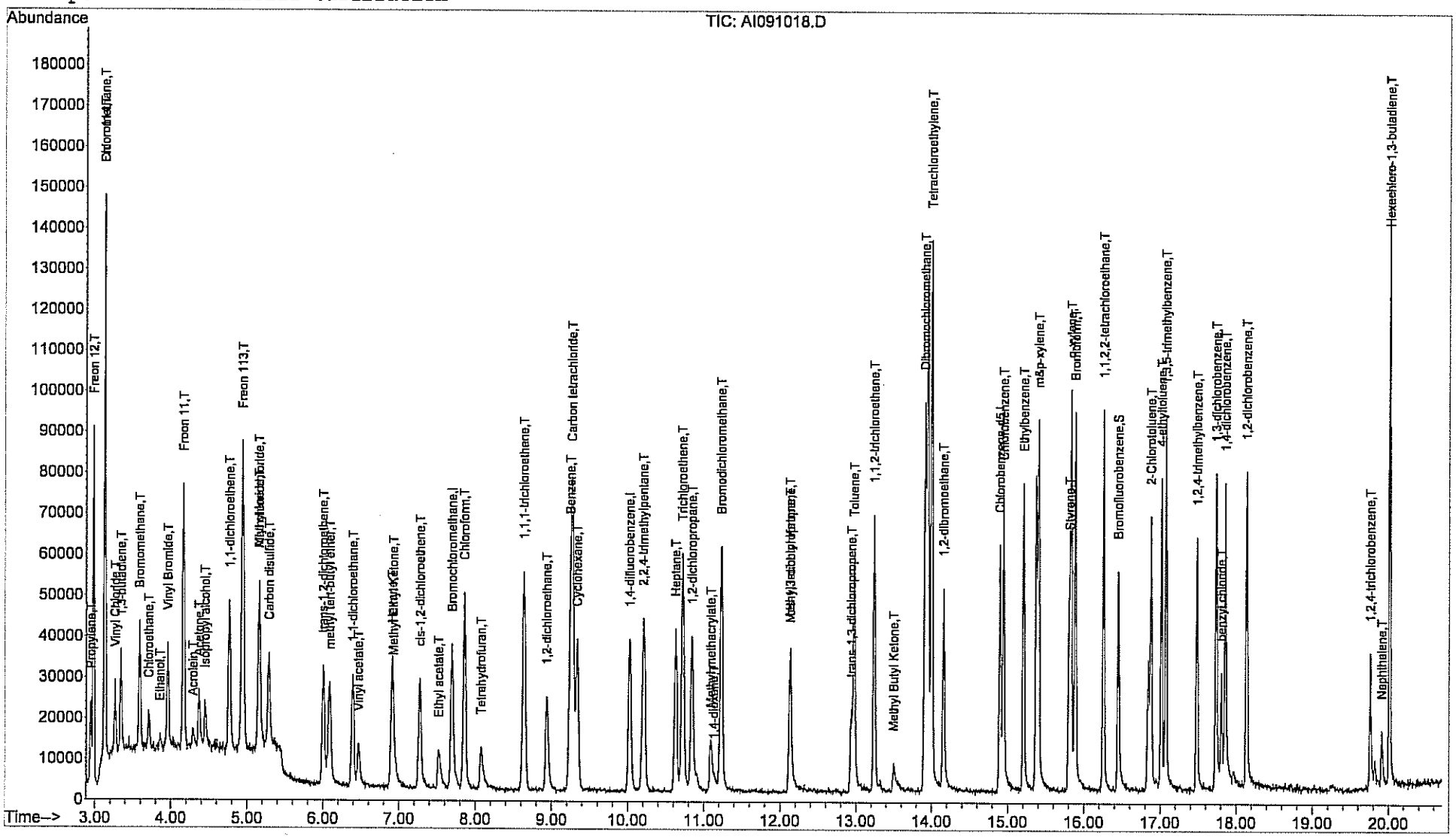
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI091018.D
Acq On : 10 Sep 2011 6:42 pm
Sample : ALCS1UGD-091011
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 13 14:06 2011

Vial: 18
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration



AI091018.D A826_1UG.M Tue Oct 11 10:44:16 2011 MSD1 Page 3

Centek Laboratories, LLCt

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8648
Standard Stock #(s) 8648
LCS Stock #(s) 8647
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB100	AI082601	-		A826-106		8/26/11	0713		
	A100-1.0	02	-							
	2.0	03	-							
	1.5	04	-							
	1.0	06	-	200						
	0.50	07	-							
	0.30	09	-							
	0.15	10	-							
	0.04 10	12	-							
	0.04	13	-					0746		
	BLK	14	-							

Analyzed by: _____

Page No: 105

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8668
Standard Stock #(s) 8669
LCS Stock #(s) 8670
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
ng/m3	BFBIUG	AIC91001	—	—	A826_IUG		09/10/11	0849		
	AIUG-1.0	02	—	200						
	ALCSIUG-091011	03	—	↓						
	AMBIUG-091011	04	—	—						
	C1109009-011 90X	05	90	20 (9)A						
	C1109015-001	06	—	200						
	-002	07	—							
	-003	08	—							
	-004	09	—							
	-005	10	—							
	-006	11	—							
	-001 10X	12	10	20						
	-002 10X	13	10							
	-003 10X	14	10							
	-004 10X	15	10							
	-005 10X	16	10							
	-006 10X	17	10	↓						
↓	ALCSIUGD-091011	18	—	200	↓		09/10/11	1842		

Analyzed by: L.L.

* DL in can *

Page No: 119

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109540 216304	%VARIES	10L	MATHESON TRI-GAS		M	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621	↓	↓	STD(A)	7617/7618 7384/	↓	↓	↓	↓	↓	
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.4psig	45psia	1ppb	L.L.	
7624	↓	↓	STD(A)	7621	↓	↓	↓	↓	↓	
7625			↓ LCS	7622						
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓	

RECERT. ON 3/11 EXP 3/12

Page # 79

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8314	2/14/11	2/21/11	TO15/UG LCS	8307	50ppb	0.9psig	45psia	1ppb	M	
8315	↓	↓	IS B	8305	↓	↓	↓	↓	↓	
8316	↓	↓	STD B	8306	↓	↓	↓	↓	↓	
8317	2/14/11	2/14/12	TO15 IS	AB 100371	1ppm	LINDE GAS			M	
8318	2/15/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8319	2/16/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8320	2/17/11	2/21/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8321	2/21/11	2/28/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	M	
8322	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	
8323	↓	↓	LCS	7783AB	↓	↓	↓	↓	↓	
8324	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8325	↓	↓	FORM	7068	36.5%	1.1UG	50psia	10ppm	↓	
8326	↓	↓	FORM STD	8309/25	10ppm	0.23psig	45psia	50ppb	↓	
8327	↓	↓	SULFUR	6194	1ppm	1.5psig	30psia	50ppb	↓	
8328	↓	↓	TO15/UG IS A	8321	50ppb	0.9psig	45psia	1ppb	↓	
8329	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8330	↓	↓	LCS	8323	↓	↓	↓	↓	↓	
8331	↓	↓	IS B	8321	↓	↓	↓	↓	↓	
8332	↓	↓	STD B	8322	↓	↓	↓	↓	↓	
8333	3/1/11	3/1/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	M	
8334	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743A+B	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8332	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD B	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46	↓	↓	↓	↓		
8349			LCS	7617/18 ~~8346~~						
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SIL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.9 psig	45 psia	1 ppb		
8355	↓	↓	↓ STD A	8348	↓	↓	↓	↓	↓	

Page # 3

Centek Laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8627	8/15/11	8/22/11	TO15 STD	8345/8346	1 ppm	1.5psig	30psia	50 ppb	L.L.	
8628	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	
8629			4PCH	7384						
8630			SULF/SIX	8615/6194	↓	↓	↓	↓		
8631			FORM	7068	36.5%	1:1v/v	50psia	10ppm		
8632	↓	↓	FORM 50	8631	10ppm	0.23psig	45psia	50ppb	↓	
8633	8/15/11	8/22/11	TO15/UG IS(A)	8626	50ppb	0.9psig	45psia	1ppb	L.L.	
8634	↓	↓	STD(A)	8627	↓	↓	↓	↓	↓	
8635	↓	↓	LCS	8628	↓	↓	↓	↓	↓	
8636	8/17/11	8/22/11	TO15 IS	8317	1ppm	1.5psig	30psia	50 ppb	L.L.	
8637	8/19/11	8/22/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8638	8/22/11	8/29/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8639	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8640	↓	↓	LCS	7617/7618	↓	↓	↓	↓	↓	
8641	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8642	↓	↓	SULF/SIX	8615/6194	↓	↓	↓	↓	↓	
8643	↓	↓	FORM	7068	36.5%	1:1v/v	50psia	10ppm	↓	
8644	↓	↓	FORM 50	8643	10ppm	0.23psig	45psia	50ppb	↓	
8645	↓	↓	TO15 UG IS(A)	8638	50ppb	0.9psig	45psia	1ppb	↓	
8646	↓	↓	STD(A)	8639	↓	↓	↓	↓	↓	
8647	↓	↓	LCS	8640	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8648	8/26/11	8/29/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8649	8/29/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8650	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8651			LCS	7617/7618						
8652			4PCH	7384						
8653			SULF/STLX	8615/6194						
8654			FORM	7068	36.5%	1.1ul	50psia	10ppm		
8655			FORM 50	8643	10ppm	0.23psig	45psia	50ppb		
8656			TO15 UG IS (A)	8649	50ppb	0.9psig	45psia	1ppb		
8657			STD (A)	8650						
8658	↓	↓	LCS	8651	↓	↓	↓	↓	↓	
8659	8/30/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8660	9/1/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
* 8661	9/5/11	9/12/11	IS MIX	CUSTOM GAS		LOT # 080311-002			MD	
8662	9/5/11	9/12/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb		
8663	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8663A			LCS	7617/7618						
8664			4-PCH	7384						
8665			SUL/SUL	8615/6194						
8666			FORM	7068	36.5%	1.1ul	50psia	10ppm		
8667	↓	↓	FORM 50	8666	10ppm	0.23psig	45psia	50ppb	↓	

Page # 18

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8664	5/5/11	5/12/11	7015 VOC-IS	8662	50ppb	0.5 ml	45 ml	1 ppb	m	
8665	↓	↓	STD	8663	↓	↓	↓	↓	↓	
8676	↓	↓	LCS	8664	↓	↓	↓	↓	↓	

Page # 19

Centek Laboratories, LLCt

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
233	189	30	8-10-11	WAC081011 A	ug/m3 +0.25	+ 30	+ 30
170						+	+
241						+	+
282						+	+
189						+	+
164	326			WAC081011 B		+	+
87						+	+
360						+	+
133						+	+
326						+	+
320	190			WAC081011 C		+	+
203						+	+
463						+	+
220						+	+
190						+	+
336	138			WAC081011 D		+	+
188						+	+
222						+	+
481						+	+
138						+	+
94	418			WAC081011 E		+	+
553						+	+
128						+	+
475						+	+
418						+	+

Cleaned by: I.F.

Page # 41

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
240	159	30	8-10-11	2WAC081011F	1ug/m3 ±0.25	+ 30	+ 30
161						+	+
357						+	+
493						+	+
159						+	+
317	93			2WAC081011G		+	+
556						+	+
312						+	+
474						+	+
93						+	+
131	265			2WAC081011H		+	+
201						+	+
142						+	+
562						+	+
265						+	+
334	459			2WAC081011I		+	+
417						+	+
332						+	+
541						+	+
459						+	+
141	95			2WAC081011J		+	+
366						+	+
199						+	+
347						+	+
95						+	+

Cleaned by: L.L.

Page # 42

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
352	274	30	8-10-11	WAC081011X	1ug/m3 ±0.25	+ 30	+ 30
85						+	+
516						+	+
86						+	+
274						+	+
202	561			WAC081011L		+	+
552						+	+
78						+	+
546						+	+
561						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: I.L.

Page # 43

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081015.D Vial: 10
Acq On : 10 Aug 2011 6:12 pm Operator: RJP
Sample : WAC081011J Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 18:32:57 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

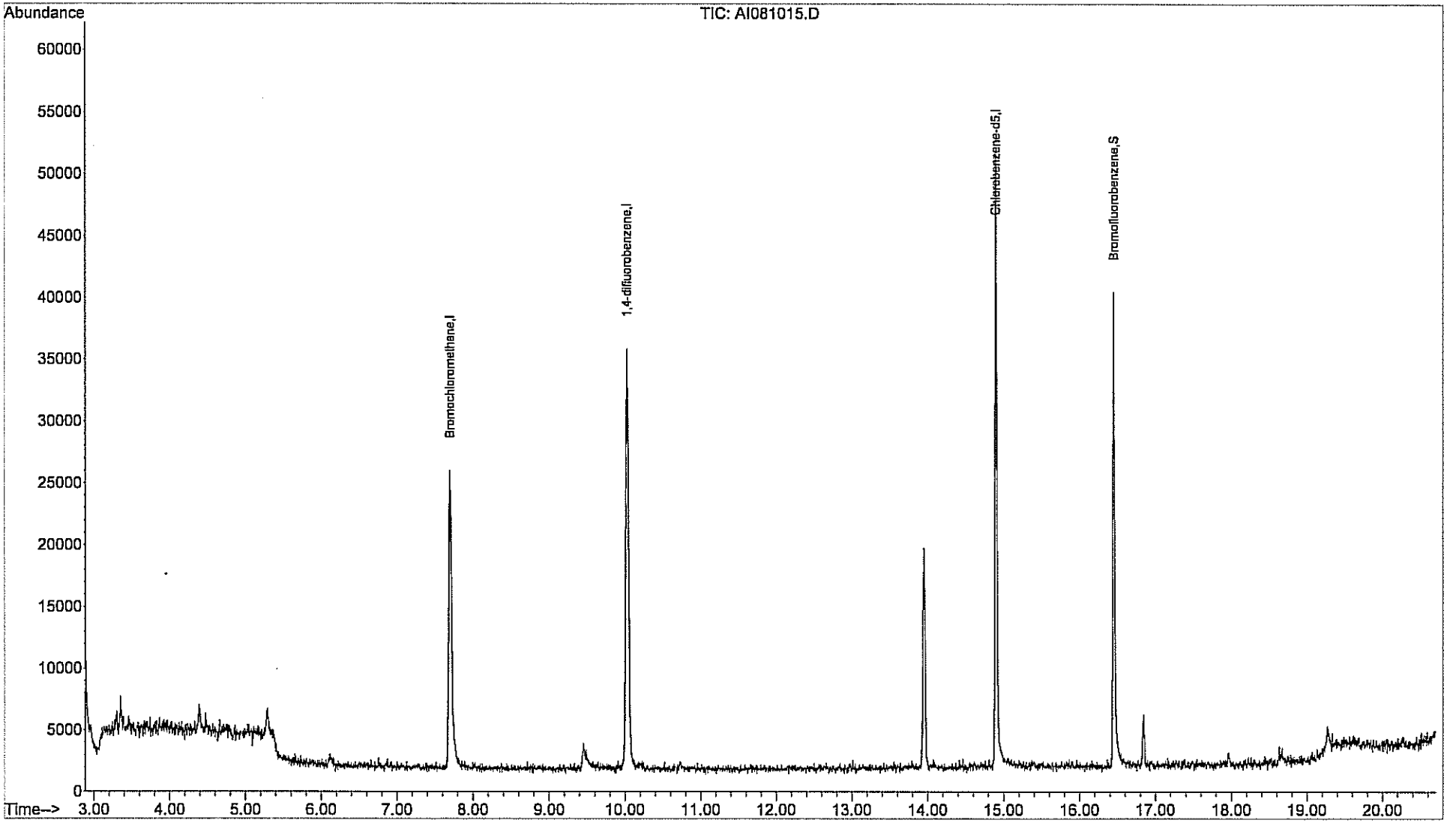
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	10845	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	40401	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	32140	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13016	0.84	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081015.D A627_1UG.M Tue Oct 11 13:48:58 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081015.D Vial: 10
Acq On : 10 Aug 2011 6:12 pm Operator: RJP
Sample : WAC081011J Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011 Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



AI081015.D A627_1UG.M Tue Oct 11 13:48:59 2011 MSD1 Page 2

Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081016.D Vial: 11
Acq On : 10 Aug 2011 6:45 pm Operator: RJP
Sample : WAC081011K Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 19:06:16 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

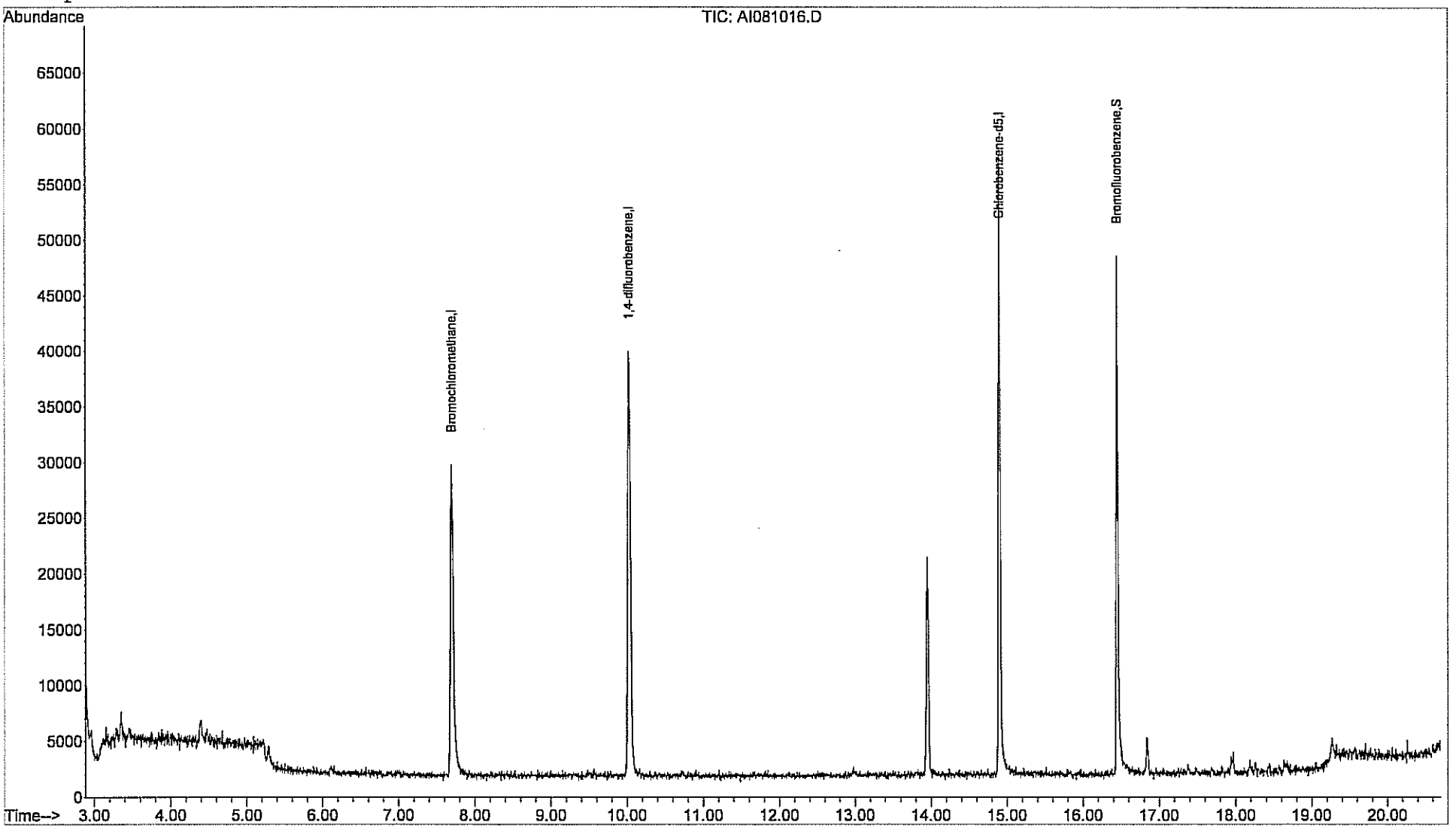
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12456	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	45036	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	35946	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	15433	0.89	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081016.D A627_1UG.M Tue Oct 11 13:49:01 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081016.D Vial: 11
Acq On : 10 Aug 2011 6:45 pm Operator: RJP
Sample : WAC081011K Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011 Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081017.D Vial: 12
Acq On : 10 Aug 2011 7:18 pm Operator: RJP
Sample : WAC081011L Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 10 19:39:30 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11678	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.03	114	43486	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	34903	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16031	0.95	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue

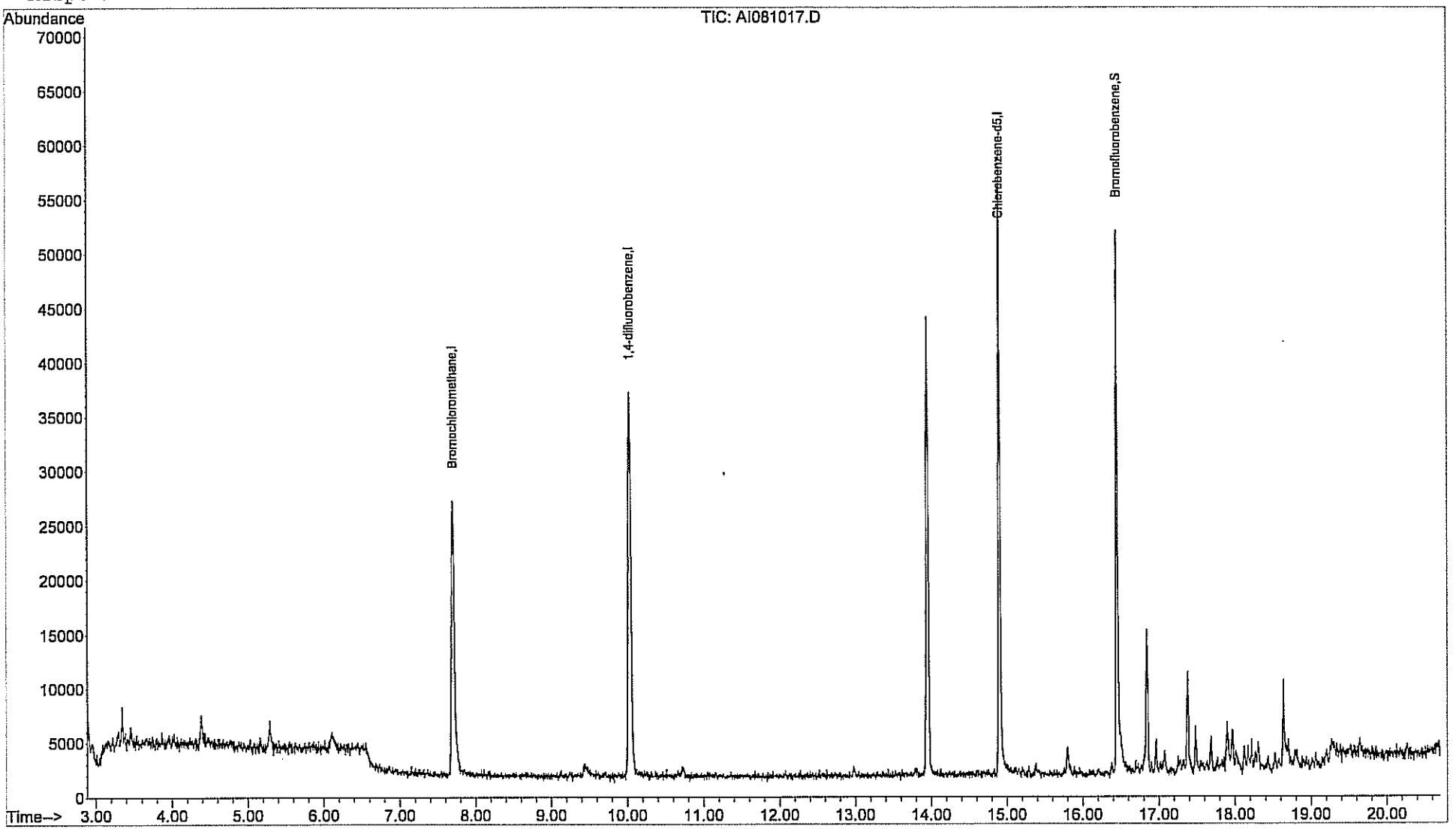
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081017.D A627_1UG.M Tue Oct 11 13:49:03 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081017.D
Acq On : 10 Aug 2011 7:18 pm
Sample : WAC081011L
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 19 9:22 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
827 CL	851	20	08/16/11	WACO81611A	1ug/m³+0.25	+ 30	+ 30
850					TCE, CT, VNCL	+	+
737						+	+
836						+	+
851						+	+
157	236	30		WAC081611 G		+	+
98						+	+
283						+	+
287						+	+
236						+	+
327	248			WAC081611 H		+	+
415						+	+
479						+	+
171						+	+
249						+	+
476	193			WAC081611 K		+	+
203						+	+
567						+	+
232						+	+
193						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L.

Page # 45

Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081624.D Vial: 49
Acq On : 17 Aug 2011 3:57 pm Operator: RJP
Sample : WAC081611G Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:18:10 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	13749	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	49838	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	37374	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14952	0.83	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081624.D A627_1UG.M Tue Oct 11 13:49:47 2011 MSD1 Page 1

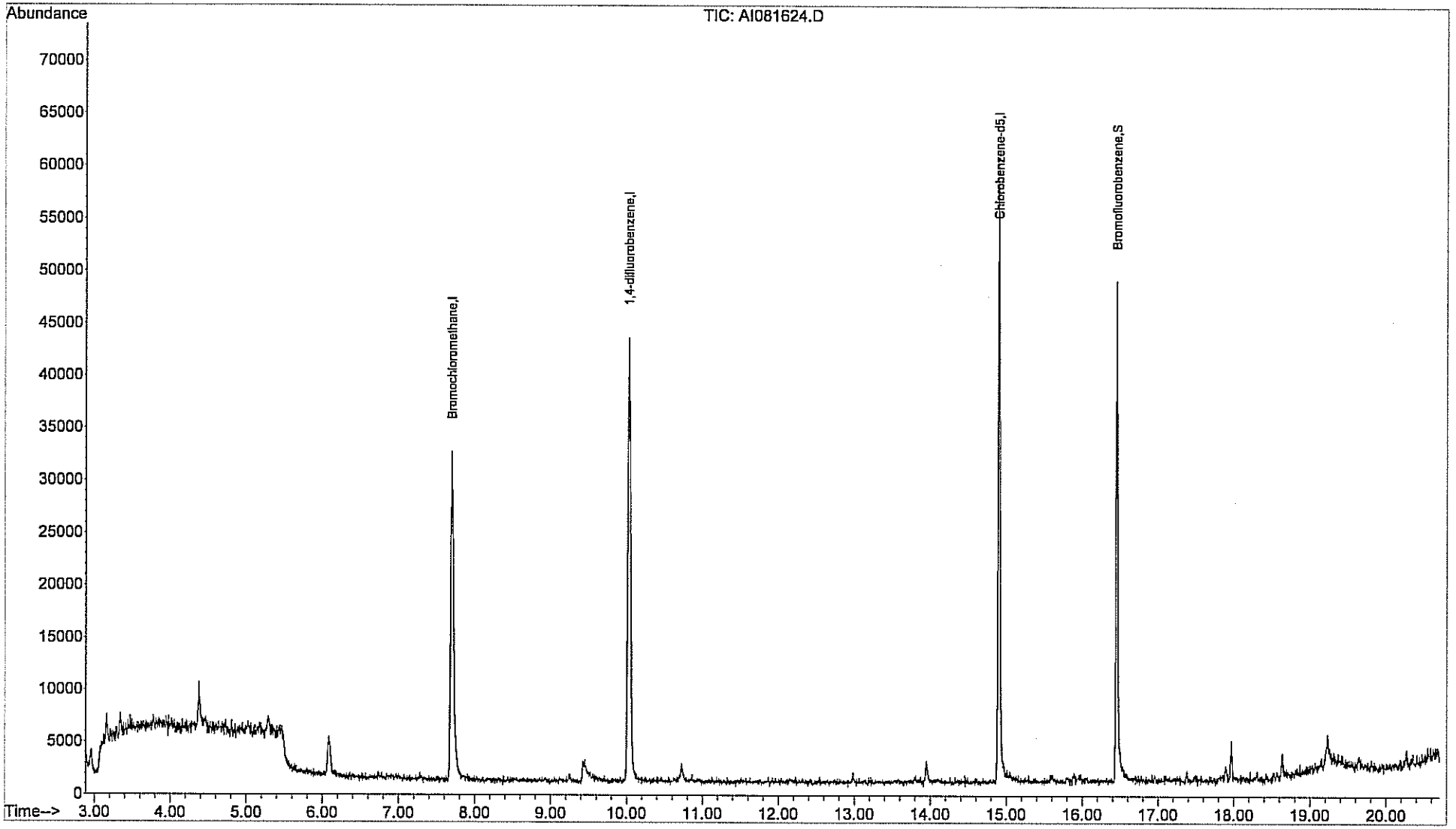
Quantification Report (Qr Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081624.D
Acq On : 17 Aug 2011 3:57 pm
Sample : WAC081611G
Misc : 1ugm3 & 0.25TCE QC Can
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011

Vial: 49
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081625.D Vial: 48
Acq On : 17 Aug 2011 4:29 pm Operator: RJP
Sample : WAC081611H Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 16:50:42 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	12054	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	43357	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	33937	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14893	0.91	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

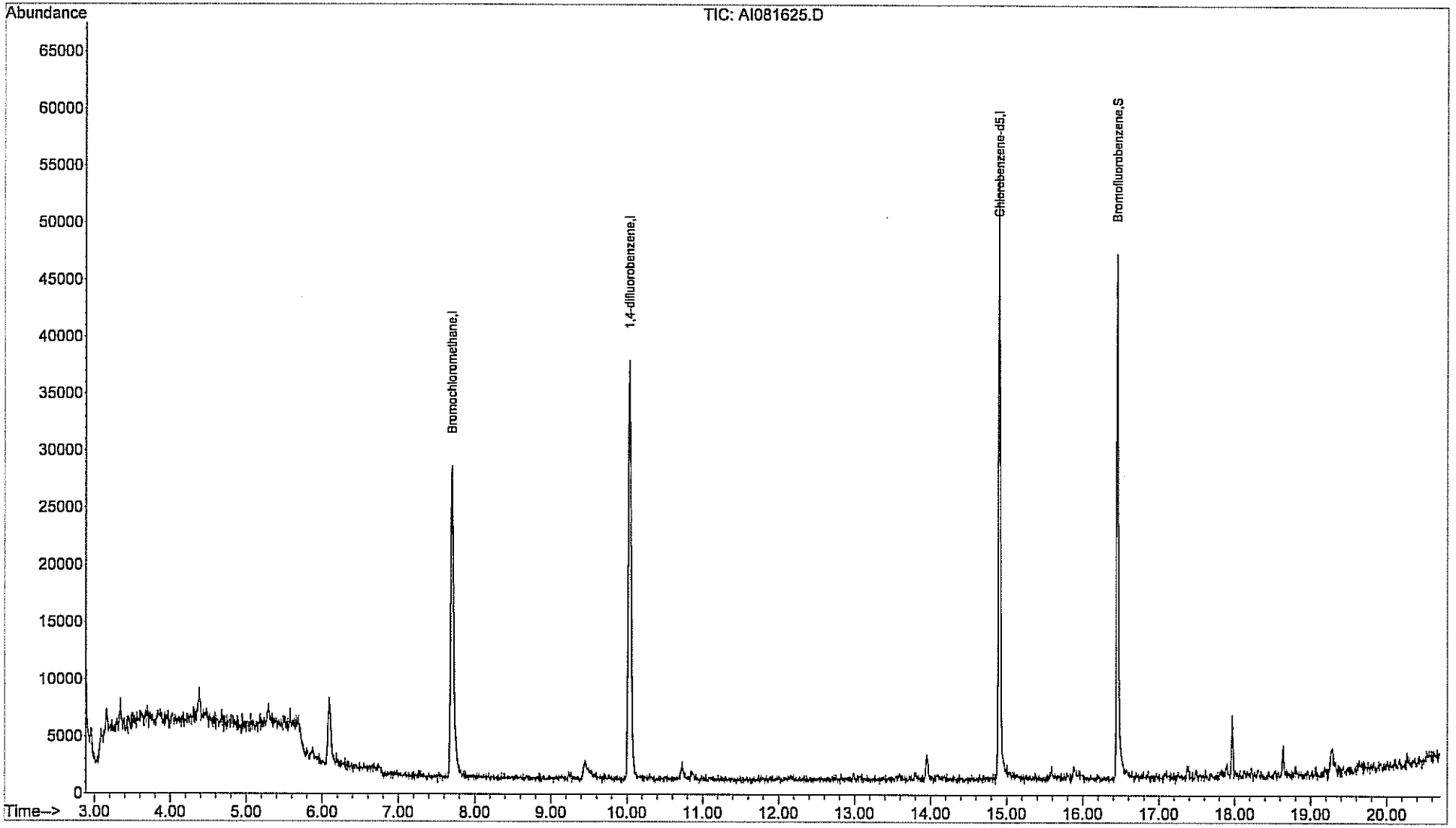
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081625.D A627_1UG.M Tue Oct 11 13:49:49 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081625.D
Acq On : 17 Aug 2011 4:29 pm
Sample : WAC081611H
Misc : 1ugm3 & 0.25TCE QC Can
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011

Vial: 48
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081628.D Vial: 48
Acq On : 17 Aug 2011 6:18 pm Operator: RJP
Sample : WAC081611K Inst : MSD #1
Misc : 1ugm3 & 0.25TCE QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 17 18:38:51 2011 Quant Results File: A627_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration
DataAcq Meth : A627_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	11694	1.00	ppb	0.02
32) 1,4-difluorobenzene	10.04	114	41635	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	32355	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13131	0.84	ppb	0.01
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI081628.D A627_1UG.M Tue Oct 11 13:49:51 2011 MSD1 Page 1

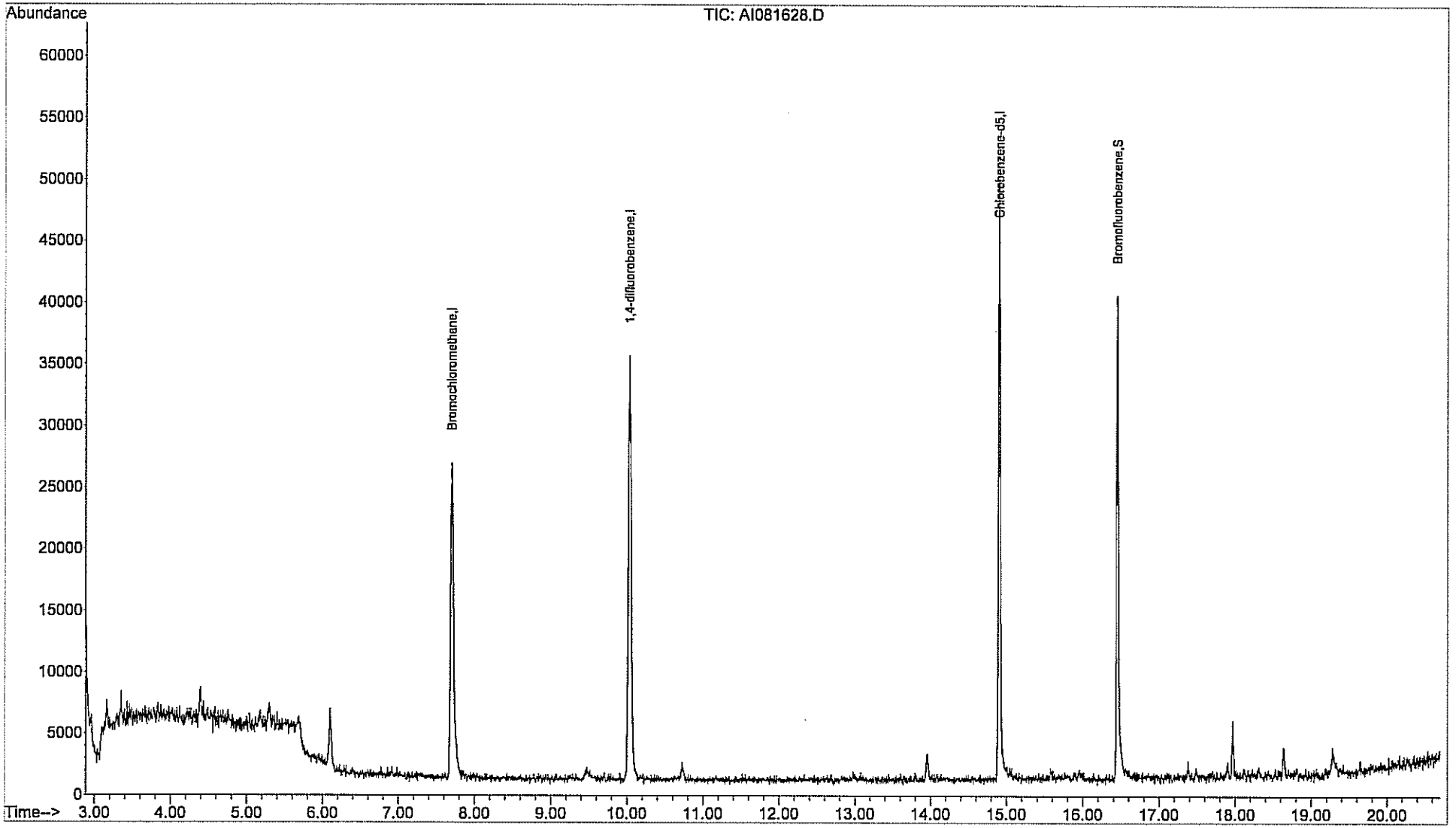
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI081628.D
Acq On : 17 Aug 2011 6:18 pm
Sample : WAC081611K
Misc : 1ugm3 & 0.25TCE QC Can
MS Integration Params: RTEINT.P
Quant Time: Sep 21 11:54 2011

Vial: 48
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A627_1UG.RES

Method : C:\HPCHEM\1\METHODS\A627_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Jul 21 12:54:31 2011
Response via : Initial Calibration



Centek Laboratories, LLCt

TO-15 Package Review Checklist

Client: EPM Project: 1000-08-17 SDG: C1110230

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits	✓		
MS/MSD	Present and Complete	•		✓
	Recoveries within limits			✓

Comments: no MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: EPM Project: 1000-08-17 SDG: C1110030

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria		✓	
Standards Raw Data	Present and Complete	✓		

Comments: SEE CASE NARRATIVE

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	*		✓

Comments:

Logbooks				
Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 11/15/11

QC Supervisor: [signature] Date: 11/14/11

CENTEK LABORATORIES, LLC
143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM
584 Phoenix Drive
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Monday, October 24, 2011
Order No.: C1110030

RE: 1000-08-17

Dear Katrina Mattice:

Centek Laboratories, LLC received 3 sample(s) on 10/17/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *15-Nov-11*

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110030

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2330] Continuing calibration did not meet criteria

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 22-Oct-11 **Corrective Action Report ID:** 2330

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Continuing calibration did not meet criteria

Description of Nonconformance: Continuing calibration did not meet criteria on 10/22/11 for Bromodichloromethane. The compounds are more sensitive and were not detected for the associated samples.

Description of Corrective Action: Since the compound is more sensitive and is not detected for the associated samples than continue with analysis

Performed By: Russell Pellegrino **Completion Date:** 23-Oct-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 26-Oct-11

QA Officer Approval: Nick Scala QA Date: 26-Oct-11

Last Updated BY russ2 Updated: 15-Nov-2011 11:04 AM Reported: 15-Nov-2011 11:04 A

Date: *15-Nov-11*

CENTEK LABORATORIES, LLC

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110030

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1110030-001A	774776CA01AC	86	10/14/2011	10/17/2011
C1110030-002A	774776CA01AD	333	10/14/2011	10/17/2011
C1110030-003A	TRIP BLANK	275	10/14/2011	10/17/2011

Centek Laboratories, LLC

15-Nov-11

Lab Order: C1110030
Client: FPM
Project: 1000-08-17

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1110030-001A	774776CA01AC	10/14/2011	Air	1ug/M3 by Method TO15			10/21/2011
				1ug/M3 by Method TO15			10/24/2011
				1ug/M3 by Method TO15			10/22/2011
C1110030-002A	774776CA01AD			1ug/M3 by Method TO15			10/21/2011
				1ug/M3 by Method TO15			10/22/2011
				1ug/M3 by Method TO15			10/22/2011
				1ug/M3 by Method TO15			10/22/2011
C1110030-003A	TRIP BLANK			1ug/M3 by Method TO15			10/22/2011

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: 1000-08-17 Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
774776CA01AC	774776-Influent	10/14	1300	GS	AC	0/0	N	-	Unf.	1	1	1	CAN # 86
774776CA01AD	774776-Influent	10/14	1400	GS	AC	0/0	N	-	Unf.	1	1	1	CAN # 333
Trip Blank	~~082411TB~~ 101411TB	10/14	1500	GS	AC	0/0	TB	-	Unf.	1	1	1	CAN # 275

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1110030

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) Katrina Mattice	Date: 10/14	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1600	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 10/13	#2 Received by: (Sig) Joe Sacco	Date: 10/17/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1155	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: FPM-ROME

Date and Time Received: 10/17/2011

Work Order Number C1110030

Received by: JDS

Checklist completed by: Signature 10/11/11 Date

Reviewed by: MJ Initials 10/17/11 Date

Matrix:

Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2630

15-Nov-11

SHIPPED TO:

Company: FPM
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 10/12/2011
VIA: FedEx
Due Date: 10/13/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	3

Can / Reg ID	Description
86	1L Mini-Can - 1091
275	1L Mini-Can - 7259
333	1L Mini-Can - 1296

Comments: 2 1L w/QG + 1 TRIP BLANKWAC 100511 A,B,E

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Acetone	130	54		ppbV	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroform	0.73	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 11	15	1.5		ppbV	10	10/22/2011 6:05:00 PM
Freon 113	0.14	0.15	J	ppbV	1	10/21/2011 11:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	100	54		ppbV	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	0.34	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	200	27		ppbV	180	10/24/2011 1:59:00 PM
Toluene	0.25	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Trichloroethene	120	27		ppbV	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	6.9	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Acetone	300	130		ug/m3	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:07:00 PM
Benzene	0.42	0.49	J	ug/m3	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:07:00 PM
Chloroform	3.6	0.74		ug/m3	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Freon 11	83	8.6		ug/m3	10	10/22/2011 6:05:00 PM
Freon 113	1.1	1.2	J	ug/m3	1	10/21/2011 11:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	300	160		ug/m3	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	2.3	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	600	81		ug/m3	180	10/24/2011 1:59:00 PM
Toluene	0.96	0.57		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Trichloroethene	670	150		ug/m3	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.1	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Acetone	180	27		ppbV	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzene	0.22	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroform	1.0	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 11	10	1.5		ppbV	10	10/22/2011 7:11:00 PM
Freon 113	0.13	0.15	J	ppbV	1	10/21/2011 11:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:39:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	130	27		ppbV	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	1.7	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	260	14		ppbV	90	10/22/2011 8:17:00 PM
Toluene	0.36	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Trichloroethene	220	14		ppbV	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	6.1	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Acetone	440	65		ug/m3	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:39:00 PM
Benzene	0.71	0.49		ug/m3	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:39:00 PM
Chloroform	5.0	0.74		ug/m3	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Freon 11	59	8.6		ug/m3	10	10/22/2011 7:11:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	10/21/2011 11:39:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	400	81		ug/m3	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:39:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	12	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	770	42		ug/m3	90	10/22/2011 8:17:00 PM
Toluene	1.4	0.57		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Trichloroethene	1200	76		ug/m3	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Acetone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 11	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 12	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Heptane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Styrene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Toluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Surr: Bromofluorobenzene	73.0	70-130		%REC	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Acetone	< 0.72	0.72		ug/m3	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/22/2011 12:11:00 AM
Benzene	< 0.49	0.49		ug/m3	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/22/2011 12:11:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	10/22/2011 12:11:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT: FPM
Lab Order: C1110030
Project: 1000-08-17
Lab ID: C1110030-003A

Client Sample ID: TRIP BLANK
Tag Number: 275
Collection Date: 10/14/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Heptane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Hexane	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/22/2011 12:11:00 AM
Styrene	< 0.65	0.65		ug/m3	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/22/2011 12:11:00 AM
Toluene	< 0.57	0.57		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 08-Nov-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-102111	86.0							
ALCS1UG-102211	95.0							
ALCS1UG-102411	87.0							
AMB1UG-102111	83.0							
AMB1UG-102211	75.0							
AMB1UG-102411	74.0							
C1110030-001A	95.0							
C1110030-002A	96.0							
C1110030-003A	73.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

GC/MS QA QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI102102.D
Tune Time : 21 Oct 2011 7:32 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI102102.D

			(BFB)	(IS1)	(IS2)	(IS3)
				27295	74540	63216
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI102103.D	ALCS1UG-102111		86	30406	83817	73799
AI102104.D	AMB1UG-102111		83	27207	68728	54233
AI102120.D	ALCS1UGD-10211		91	25943	77178	60085
AI102130.D	C1110030-001A		95	31455	93148	87963
AI102131.D	C1110030-002A		96	29338	91521	85736
AI102132.D	C1110030-003A		73	27467	73447	62537

t - fails 24hr time check * - fails criteria

Created: Tue Nov 08 09:21:56 2011 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI102203.D
Tune Time : 22 Oct 2011 12:18 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AI102203.D

			(BFB)	(IS1)	(IS2)	(IS3)
				23754	57975	52111
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI102204.D	ALCS1UG-102211		95	24212	57094	52148
AI102205.D	AMB1UG-102211		75	23683	53074	42699
AI102215.D	C1110030-002A	10X	88	22699	56047	47733
AI102216.D	C1110030-002A	40X	90	21393	51470	39275
AI102217.D	C1110030-002A	90X	83	21755	49897	38432
AI102225.D	ALCS1UGD-102211		91	21899	48217	45803

t - fails 24hr time check * - fails criteria

Created: Tue Nov 08 09:24:14 2011 MSD #1/

GC/MS QA/QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI102402.D
Tune Time : 24 Oct 2011 10:49 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI102402.D

			(BFB)	(IS1)	(IS2)	(IS3)
				24696	57298	51536
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI102403.D	ALCS1UG-102411		87	24631	58546	54063
AI102404.D	AMB1UG-102411		74	23204	46429	36276
AI102406.D	C1110030-001A 180X		80	22193	45120	36176

t - fails 24hr time check * - fails criteria

Created: Tue Nov 08 09:26:40 2011 MSD #1/

CENTEK LABORATORIES, LLC

Date: *08-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.140	0.15	1	0	114	70	130				
1,1,2,2-Tetrachloroethane	1.120	0.15	1	0	112	70	130				
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130				
1,1-Dichloroethene	0.9100	0.15	1	0	91.0	70	130				
1,2,4-Trichlorobenzene	0.8200	0.15	1	0	82.0	70	130				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	70	130				
1,2-Dibromoethane	1.010	0.15	1	0	101	70	130				
1,2-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloroethane	0.7400	0.15	1	0	74.0	70	130				
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130				
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,3-butadiene	0.7300	0.15	1	0	73.0	70	130				
1,3-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,4-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,4-Dioxane	1.880	0.30	1	0	188	70	130				S
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130				
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130				
Acetone	1.100	0.30	1	0	110	70	130				
Allyl chloride	0.7700	0.15	1	0	77.0	70	130				
Benzene	0.9400	0.15	1	0	94.0	70	130				
Benzyl chloride	1.290	0.15	1	0	129	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.030	0.15	1	0	103	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130				
Carbon tetrachloride	1.110	0.15	1	0	111	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8600	0.15	1	0	86.0	70	130				
Chloroform	0.7800	0.15	1	0	78.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130				
cis-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130				
Cyclohexane	0.9400	0.15	1	0	94.0	70	130				
Dibromochloromethane	1.080	0.15	1	0	108	70	130				
Ethyl acetate	1.120	0.25	1	0	112	70	130				
Ethylbenzene	0.7800	0.15	1	0	78.0	70	130				
Freon 11	0.9000	0.15	1	0	90.0	70	130				
Freon 113	0.9100	0.15	1	0	91.0	70	130				
Freon 114	0.8900	0.15	1	0	89.0	70	130				
Freon 12	0.8300	0.15	1	0	83.0	70	130				
Heptane	0.9400	0.15	1	0	94.0	70	130				
Hexachloro-1,3-butadiene	0.8900	0.15	1	0	89.0	70	130				
Hexane	0.7800	0.15	1	0	78.0	70	130				
Isopropyl alcohol	1.430	0.15	1	0	143	70	130				S
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Ethyl Ketone	1.250	0.30	1	0	125	70	130				
Methyl Isobutyl Ketone	1.900	0.30	1	0	190	70	130				S
Methyl tert-butyl ether	0.8600	0.15	1	0	86.0	70	130				
Methylene chloride	0.8800	0.15	1	0	88.0	70	130				
o-Xylene	1.060	0.15	1	0	106	70	130				
Propylene	0.7800	0.15	1	0	78.0	70	130				
Styrene	0.8200	0.15	1	0	82.0	70	130				
Tetrachloroethylene	0.9200	0.15	1	0	92.0	70	130				
Tetrahydrofuran	0.9200	0.15	1	0	92.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8400	0.15	1	0	84.0	70	130				
trans-1,2-Dichloroethene	0.7700	0.15	1	0	77.0	70	130				
trans-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Trichloroethene	0.9900	0.15	1	0	99.0	70	130				
Vinyl acetate	0.7300	0.15	1	0	73.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	0.8600	0.15	1	0	86.0	70	130				

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130				S
1,1,2,2-Tetrachloroethane	1.290	0.15	1	0	129	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	70	130				
1,2-Dibromoethane	1.210	0.15	1	0	121	70	130				
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	70	130				
1,2-Dichloropropane	1.310	0.15	1	0	131	70	130				S
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,3-butadiene	0.8200	0.15	1	0	82.0	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dioxane	1.270	0.30	1	0	127	70	130				
2,2,4-trimethylpentane	1.230	0.15	1	0	123	70	130				
4-ethyltoluene	0.7400	0.15	1	0	74.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9800	0.30	1	0	98.0	70	130				
Allyl chloride	0.8300	0.15	1	0	83.0	70	130				
Benzene	1.250	0.15	1	0	125	70	130				
Benzyl chloride	0.8400	0.15	1	0	84.0	70	130				
Bromodichloromethane	1.320	0.15	1	0	132	70	130				S
Bromoform	1.200	0.15	1	0	120	70	130				
Bromomethane	1.090	0.15	1	0	109	70	130				
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130				
Carbon tetrachloride	1.560	0.15	1	0	156	70	130				S
Chlorobenzene	1.100	0.15	1	0	110	70	130				
Chloroethane	1.020	0.15	1	0	102	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
cis-1,3-Dichloropropene	1.140	0.15	1	0	114	70	130				
Cyclohexane	1.180	0.15	1	0	118	70	130				
Dibromochloromethane	1.430	0.15	1	0	143	70	130				S
Ethyl acetate	0.8400	0.25	1	0	84.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.090	0.15	1	0	109	70	130				
Freon 113	1.100	0.15	1	0	110	70	130				
Freon 114	1.060	0.15	1	0	106	70	130				
Freon 12	0.9600	0.15	1	0	96.0	70	130				
Heptane	1.170	0.15	1	0	117	70	130				
Hexachloro-1,3-butadiene	0.7200	0.15	1	0	72.0	70	130				
Hexane	0.8000	0.15	1	0	80.0	70	130				
Isopropyl alcohol	1.280	0.15	1	0	128	70	130				
m&p-Xylene	2.150	0.30	2	0	108	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl Isobutyl Ketone	1.230	0.30	1	0	123	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	70	130				
Methylene chloride	1.000	0.15	1	0	100	70	130				
o-Xylene	1.050	0.15	1	0	105	70	130				
Propylene	0.7700	0.15	1	0	77.0	70	130				
Styrene	0.9200	0.15	1	0	92.0	70	130				
Tetrachloroethylene	1.200	0.15	1	0	120	70	130				
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130				
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	1.230	0.15	1	0	123	70	130				
Trichloroethene	1.220	0.15	1	0	122	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	1.170	0.15	1	0	117	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.610	0.15	1	0	161	70	130				S
1,1,2,2-Tetrachloroethane	1.460	0.15	1	0	146	70	130				S
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130				
1,1-Dichloroethane	0.9600	0.15	1	0	96.0	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.390	0.15	1	0	139	70	130				S
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	1.510	0.15	1	0	151	70	130				S

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	1.140	0.15	1	0	114	70	130				
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130				
1,3-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,4-Dioxane	1.510	0.30	1	0	151	70	130				S
2,2,4-trimethylpentane	1.270	0.15	1	0	127	70	130				
4-ethyltoluene	1.020	0.15	1	0	102	70	130				
Acetone	1.130	0.30	1	0	113	70	130				
Allyl chloride	0.9300	0.15	1	0	93.0	70	130				
Benzene	1.250	0.15	1	0	125	70	130				
Benzyl chloride	1.190	0.15	1	0	119	70	130				
Bromodichloromethane	1.500	0.15	1	0	150	70	130				S
Bromoform	1.410	0.15	1	0	141	70	130				S
Bromomethane	1.080	0.15	1	0	108	70	130				
Carbon disulfide	0.9700	0.15	1	0	97.0	70	130				
Carbon tetrachloride	1.530	0.15	1	0	153	70	130				S
Chlorobenzene	1.150	0.15	1	0	115	70	130				
Chloroethane	1.010	0.15	1	0	101	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	70	130				
cis-1,3-Dichloropropene	1.300	0.15	1	0	130	70	130				
Cyclohexane	1.240	0.15	1	0	124	70	130				
Dibromochloromethane	1.440	0.15	1	0	144	70	130				S
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130				
Ethylbenzene	1.010	0.15	1	0	101	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	1.140	0.15	1	0	114	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	0.9800	0.15	1	0	98.0	70	130				
Heptane	1.240	0.15	1	0	124	70	130				

Qualifiers:

. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	1.000	0.15	1	0	100	70	130				
Hexane	0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol	1.130	0.15	1	0	113	70	130				
m&p-Xylene	2.320	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.890	0.30	1	0	189	70	130				S
Methyl Ethyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Isobutyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl tert-butyl ether	0.8200	0.15	1	0	82.0	70	130				
Methylene chloride	1.030	0.15	1	0	103	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.9000	0.15	1	0	90.0	70	130				
Styrene	1.020	0.15	1	0	102	70	130				
Tetrachloroethylene	1.270	0.15	1	0	127	70	130				
Tetrahydrofuran	0.9200	0.15	1	0	92.0	70	130				
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Trichloroethene	1.220	0.15	1	0	122	70	130				
Vinyl acetate	0.8900	0.15	1	0	89.0	70	130				
Vinyl Bromide	1.160	0.15	1	0	116	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102111	SampType: MBLK	TestCode: 1ugM3_TO15 Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15	Analysis Date: 10/21/2011	SeqNo: 59852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035
trans-1,3-dichloropropen	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025

0.25ug/m3 Detection Limit
September 2009

Method TO-15
Units=ppb

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT: FPM
Lab Order: C1110030
Project: 1000-08-17
Lab ID: C1110030-001A

Client Sample ID: 774776CA01AC
Tag Number: 86
Collection Date: 10/14/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Acetone	130	54		ppbV	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Benzene	0.13	0.15	J	ppbV	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroform	0.73	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 11	15	1.5		ppbV	10	10/22/2011 6:05:00 PM
Freon 113	0.14	0.15	J	ppbV	1	10/21/2011 11:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	100	54		ppbV	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	0.34	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	200	27		ppbV	180	10/24/2011 1:59:00 PM
Toluene	0.25	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Trichloroethene	120	27		ppbV	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/21/2011 11:07:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.9	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Acetone	300	130		ug/m3	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:07:00 PM
Benzene	0.42	0.49	J	ug/m3	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:07:00 PM
Chloroform	3.6	0.74		ug/m3	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Freon 11	83	8.6		ug/m3	10	10/22/2011 6:05:00 PM
Freon 113	1.1	1.2	J	ug/m3	1	10/21/2011 11:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	300	160		ug/m3	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	2.3	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	600	81		ug/m3	180	10/24/2011 1:59:00 PM
Toluene	0.96	0.57		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Trichloroethene	670	150		ug/m3	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102130.D Vial: 30
Acq On : 21 Oct 2011 11:07 pm Operator: RJP
Sample : C1110030-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 23:28:18 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

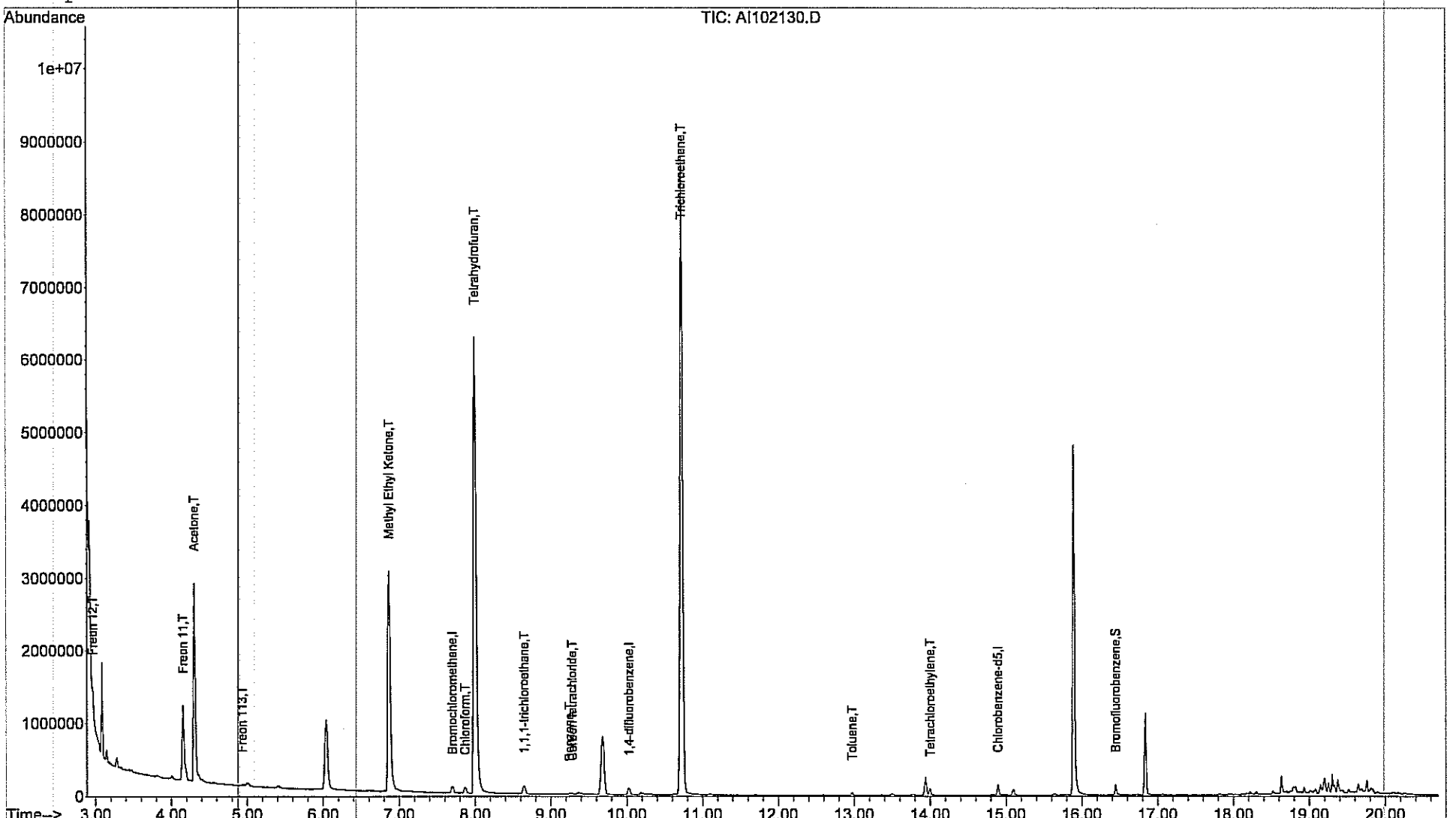
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	31455	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	93148	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	87963	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	42024	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
3) Freon 12	2.97	85	164664	1.22	ppb		100
13) Freon 11	4.16	101	929864	8.91	ppb		100
14) Acetone	4.30	58	941275	84.76	ppb	#	70
17) Freon 113	4.94	101	10067	0.14	ppb		97
25) Methyl Ethyl Ketone	6.86	72	1199415	116.50	ppb	#	100
29) Chloroform	7.87	83	70936	0.73	ppb		98
30) Tetrahydrofuran	8.00	42	4417982	225.16	ppb		85
33) 1,1,1-trichloroethane	8.65	97	85552	1.24	ppb		100
35) Carbon tetrachloride	9.28	117	9245	0.10	ppb		97
36) Benzene	9.25	78	10187	0.13	ppb		98
41) Trichloroethene	10.72	130	3808020	78.24	ppb		97
48) Toluene	12.97	92	14641	0.25	ppb		97
53) Tetrachloroethylene	14.00	164	20821	0.34	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

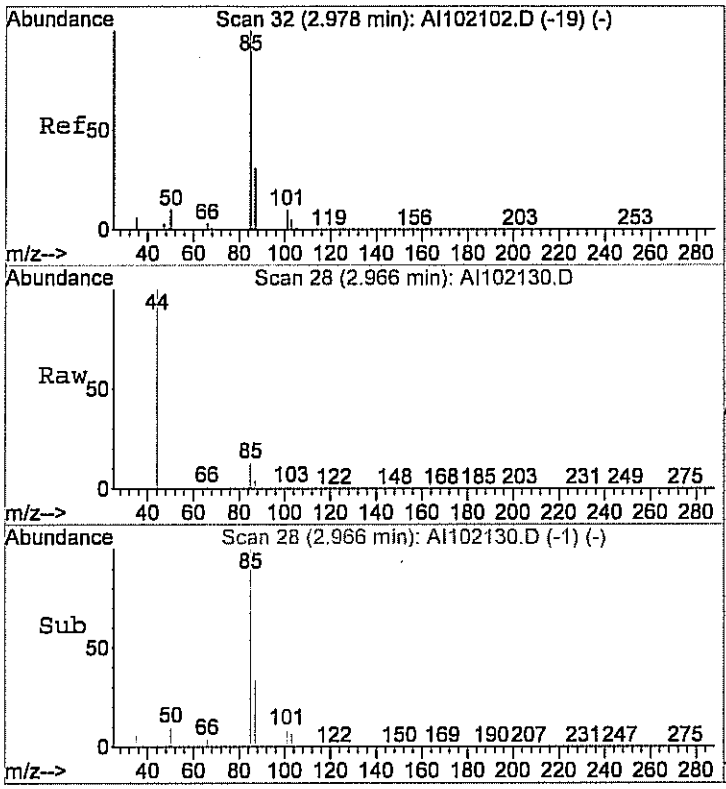
Quantitation Report (QT/ESC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102130.D Vial: 30
Acq On : 21 Oct 2011 11:07 pm Operator: RJP
Sample : C1110030-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:33 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



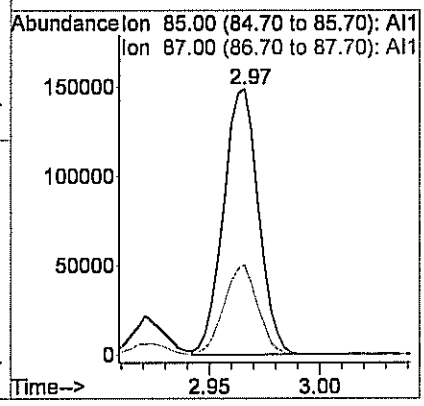
Centek Laboratories, LLC

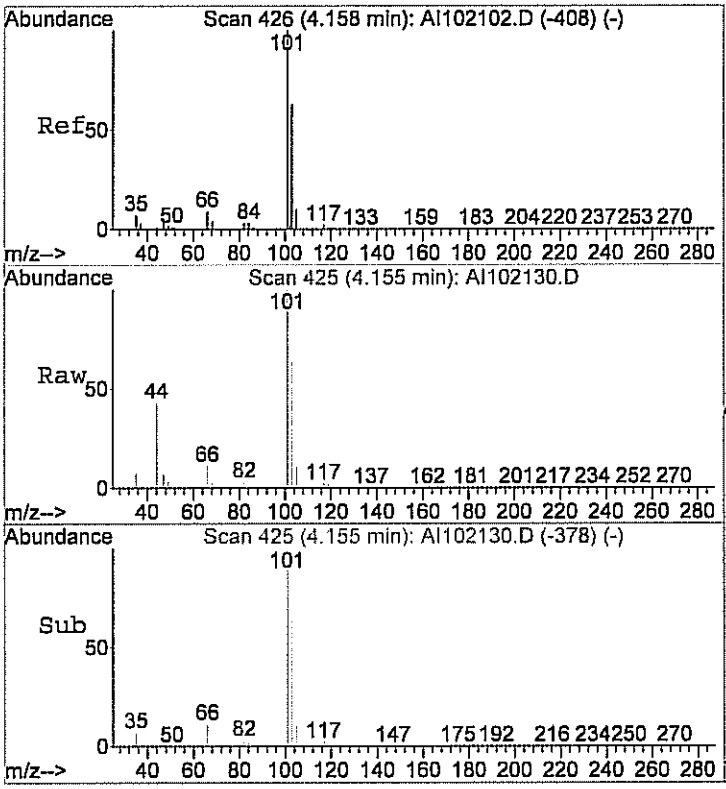


#3
Freon 12
Concen: 1.22 ppb
RT: 2.97 min Scan# 28
Delta R.T. -0.02 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 85 Resp: 164664

Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.2	52.2

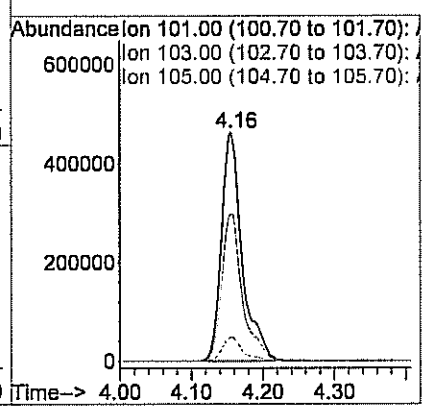


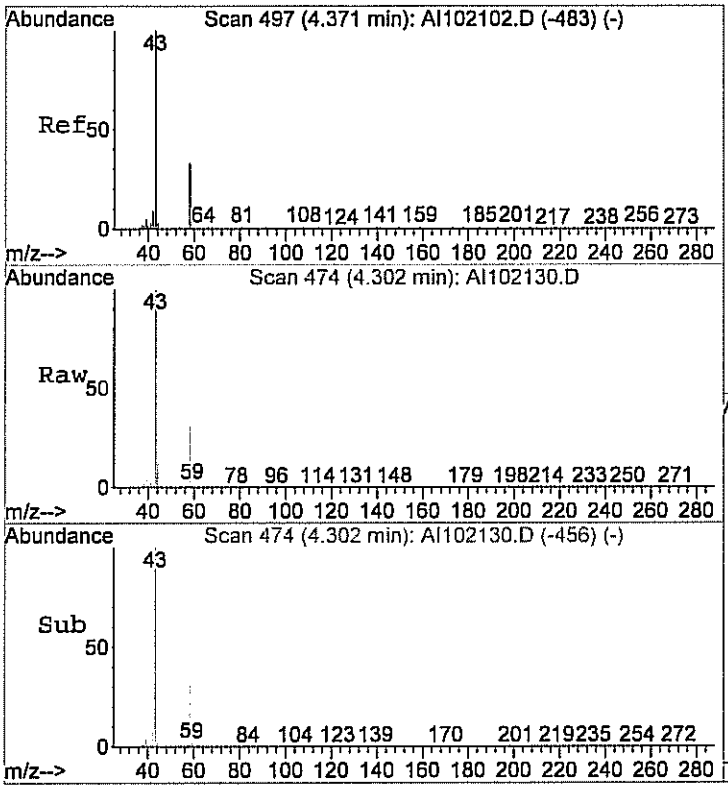


#13
Freon 11
Concen: 8.91 ppb
RT: 4.16 min Scan# 425
Delta R.T. -0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion:101 Resp: 929864

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.9	84.9
105	10.6	0.0	30.9

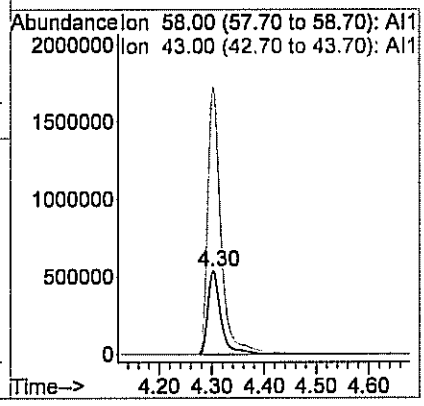


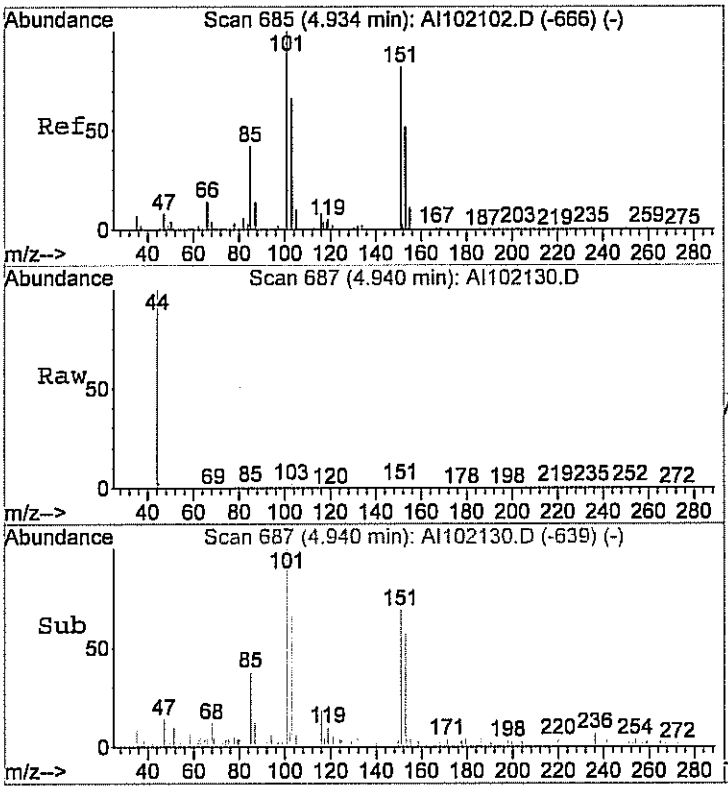


#14
Acetone
Concen: 84.76 ppb
RT: 4.30 min Scan# 474
Delta R.T. -0.10 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 58 Resp: 941275

Ion	Ratio	Lower	Upper
58	100		
43	321.5	360.8	420.8#

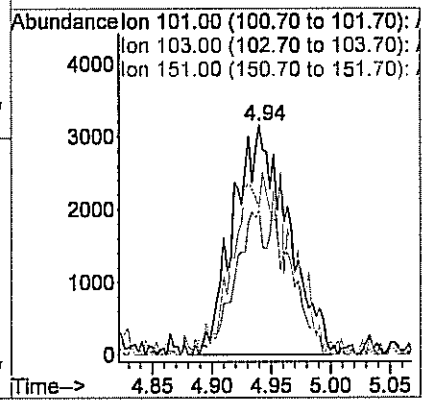


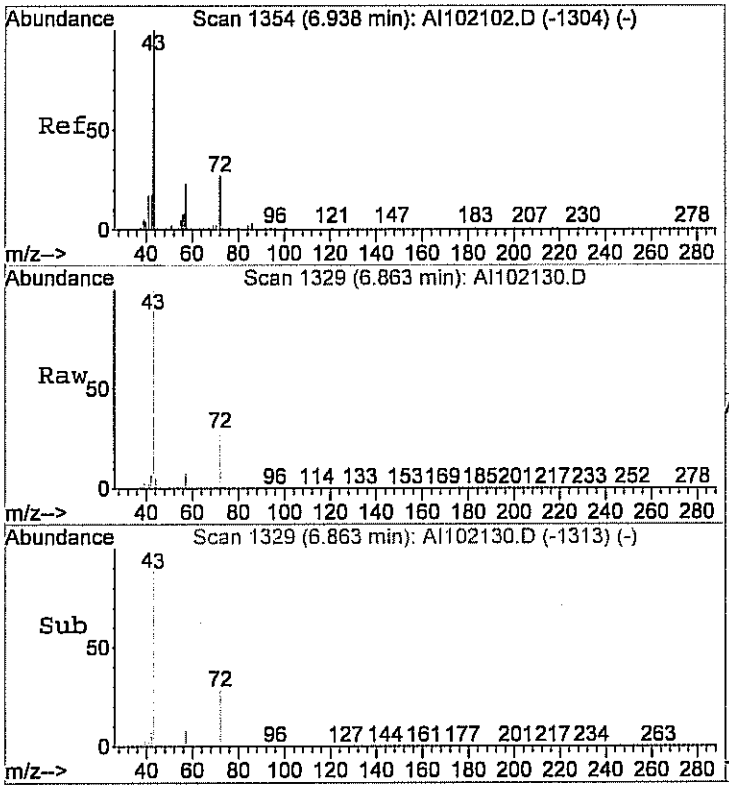


#17
Freon 113
Concen: 0.14 ppb
RT: 4.94 min Scan# 687
Delta R.T. -0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion:101 Resp: 10067

Ion	Ratio	Lower	Upper
101	100		
103	61.4	44.3	84.3
151	78.9	61.0	101.0

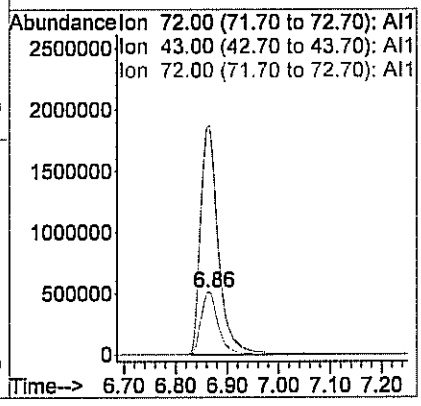


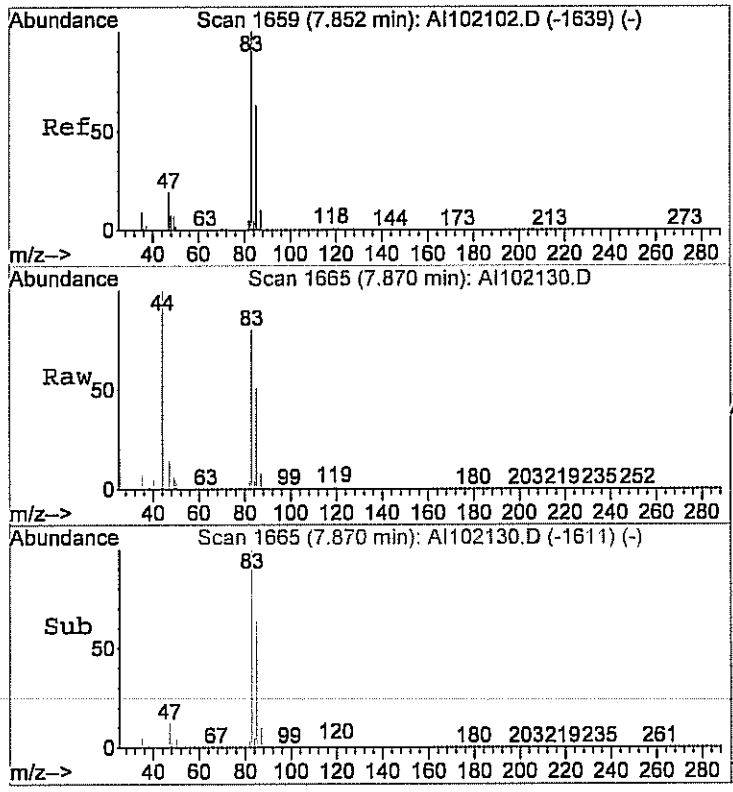


#25
Methyl Ethyl Ketone
Concen: 116.50 ppb
RT: 6.86 min Scan# 1329
Delta R.T. -0.10 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 72 Resp: 1199415

Ion	Ratio	Lower	Upper
72	100		
43	372.4	0.0	20.0#
72	100.0	80.0	120.0

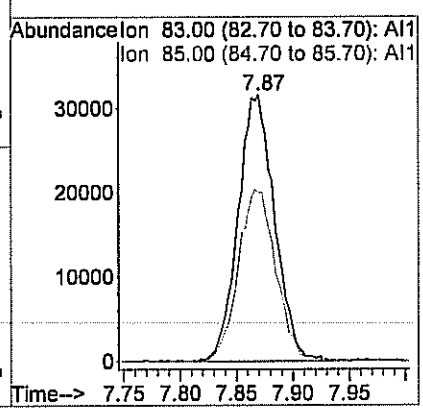


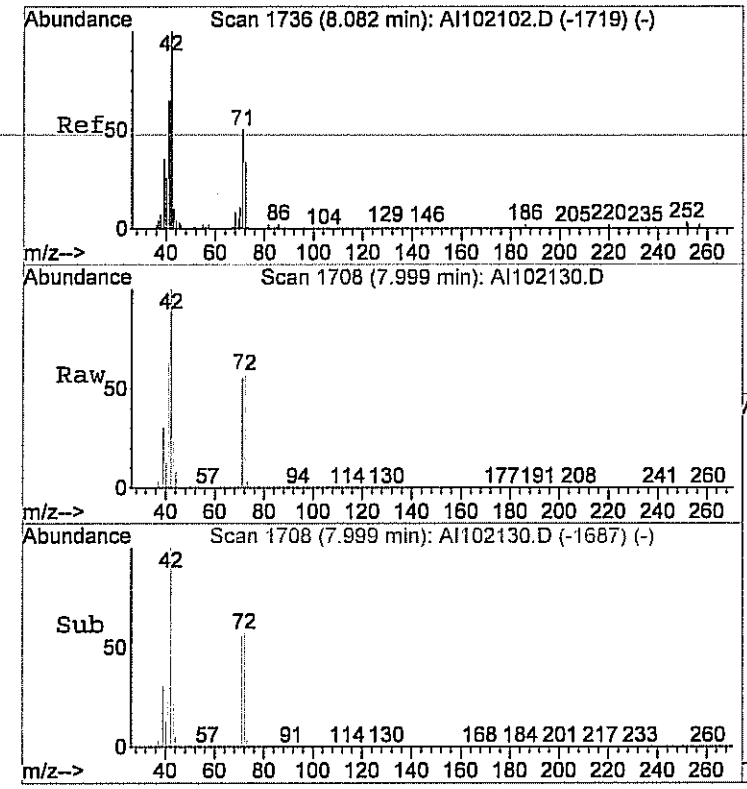


#29
Chloroform
Concen: 0.73 ppb
RT: 7.87 min Scan# 1665
Delta R.T. 0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 83 Resp: 70936

Ion	Ratio	Lower	Upper
83	100		
85	66.3	45.0	85.0

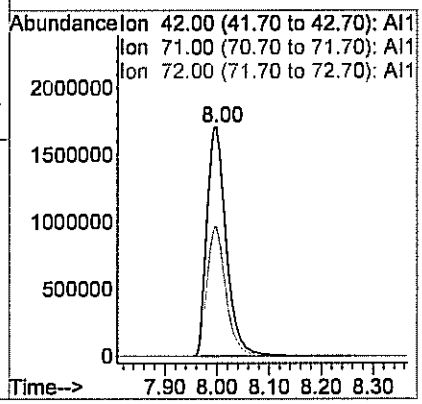


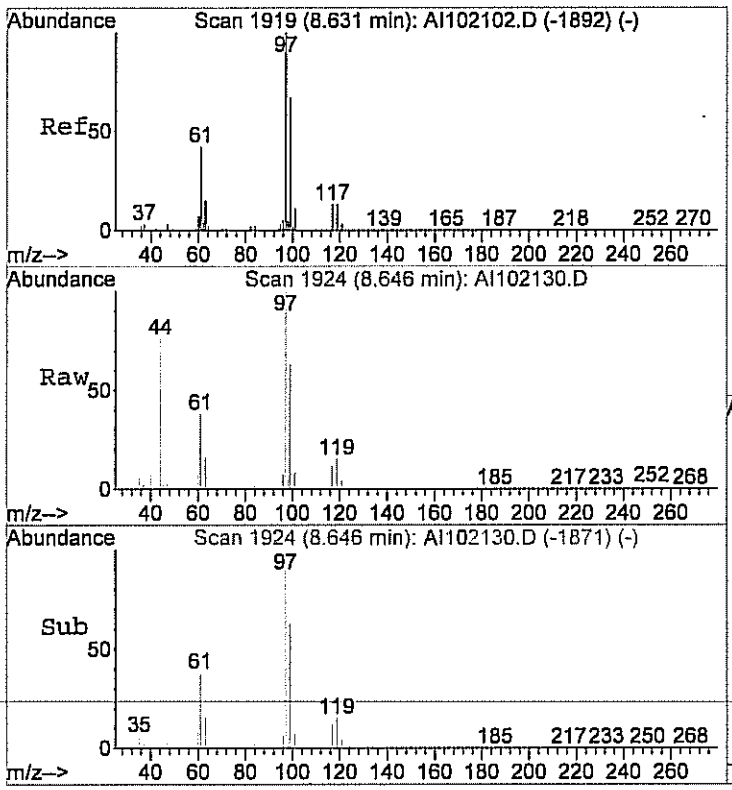


#30
Tetrahydrofuran
Concen: 225.16 ppb
RT: 8.00 min Scan# 1708
Delta R.T. -0.09 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 42 Resp: 4417982

Ion	Ratio	Lower	Upper
42	100		
71	55.2	24.6	64.6
72	55.1	26.5	66.5

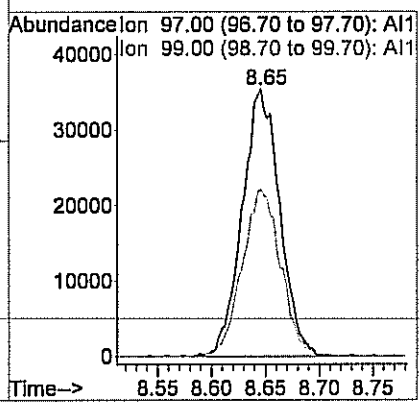


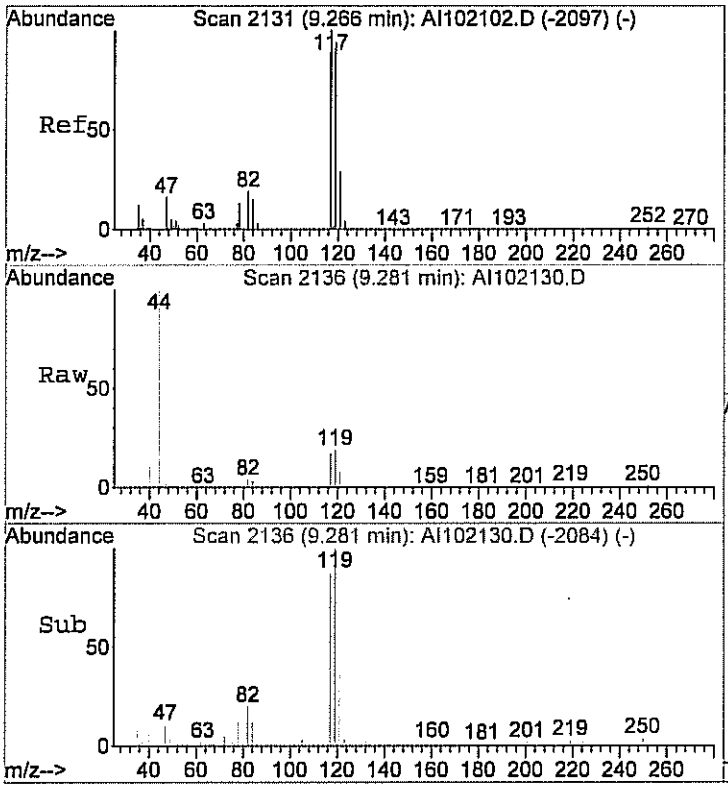


#33
1,1,1-trichloroethane
Concen: 1.24 ppb
RT: 8.65 min Scan# 1924
Delta R.T. 0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 97 Resp: 85552

Ion	Ratio	Lower	Upper
97	100		
99	64.1	43.8	83.8

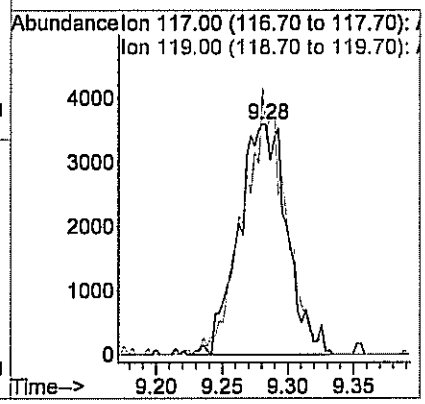


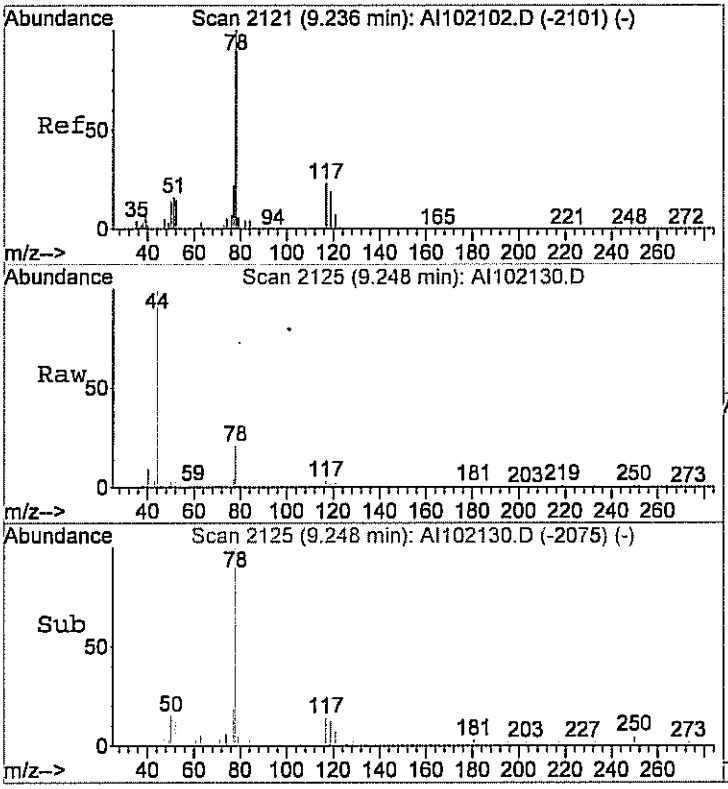


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.28 min Scan# 2136
Delta R.T. 0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion:117 Resp: 9245

Ion	Ratio	Lower	Upper
117	100		
119	100.0	77.2	117.2

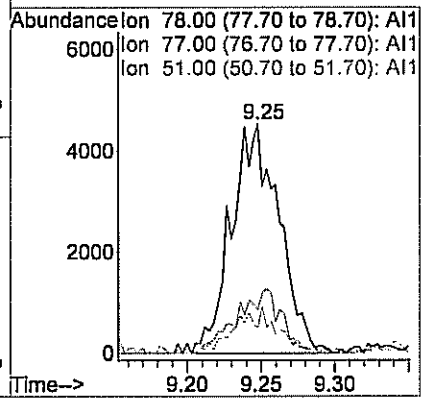


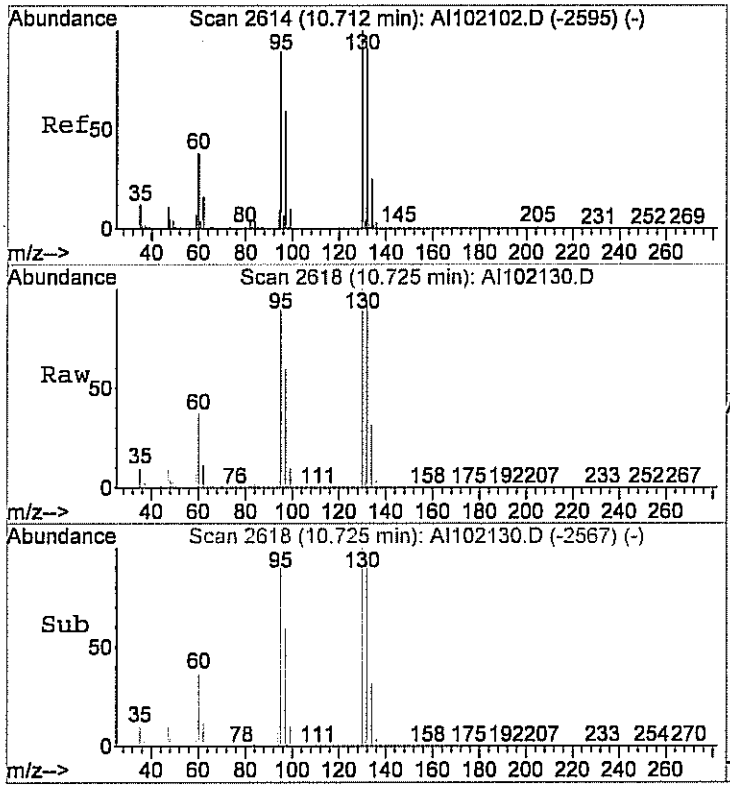


#36
Benzene
Concen: 0.13 ppb
RT: 9.25 min Scan# 2125
Delta R.T. 0.00 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 78 Resp: 10187

Ion	Ratio	Lower	Upper
78	100		
77	26.7	5.2	45.2
51	17.7	0.0	37.6

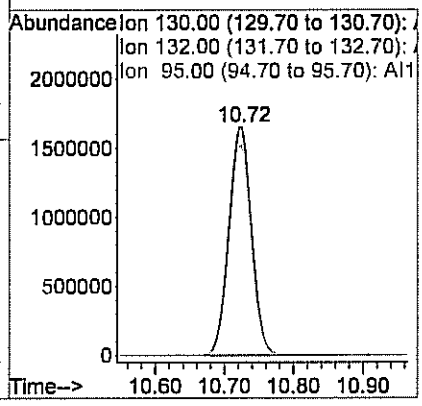


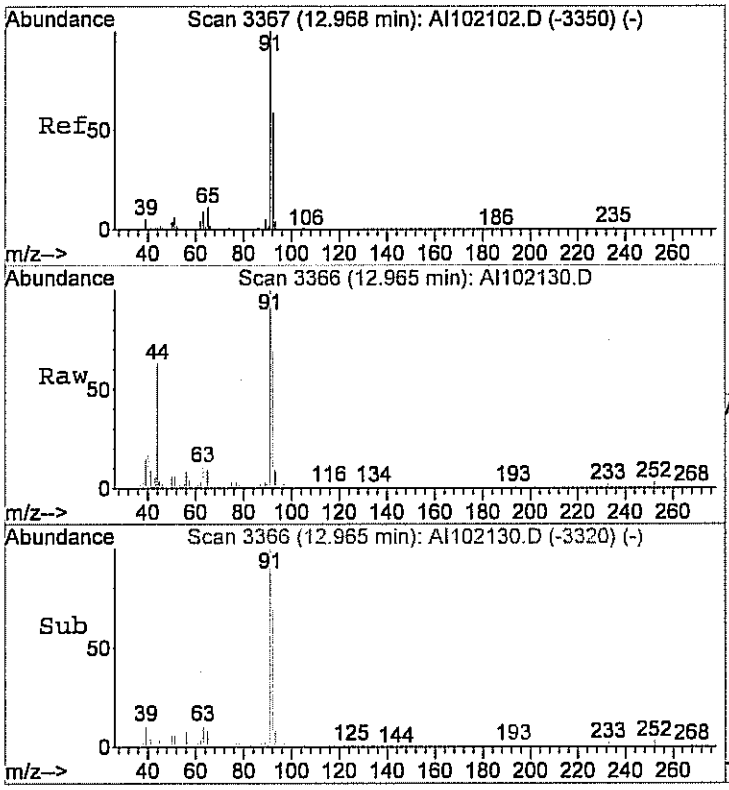


#41
Trichloroethene
Concen: 78.24 ppb
RT: 10.72 min Scan# 2618
Delta R.T. 0.00 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion:130 Resp: 3808020

Ion	Ratio	Lower	Upper
130	100		
132	97.7	79.0	119.0
95	92.0	76.8	116.8

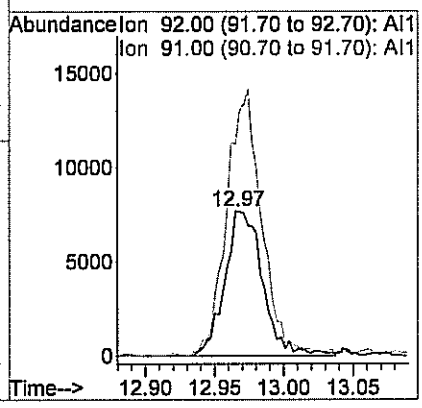


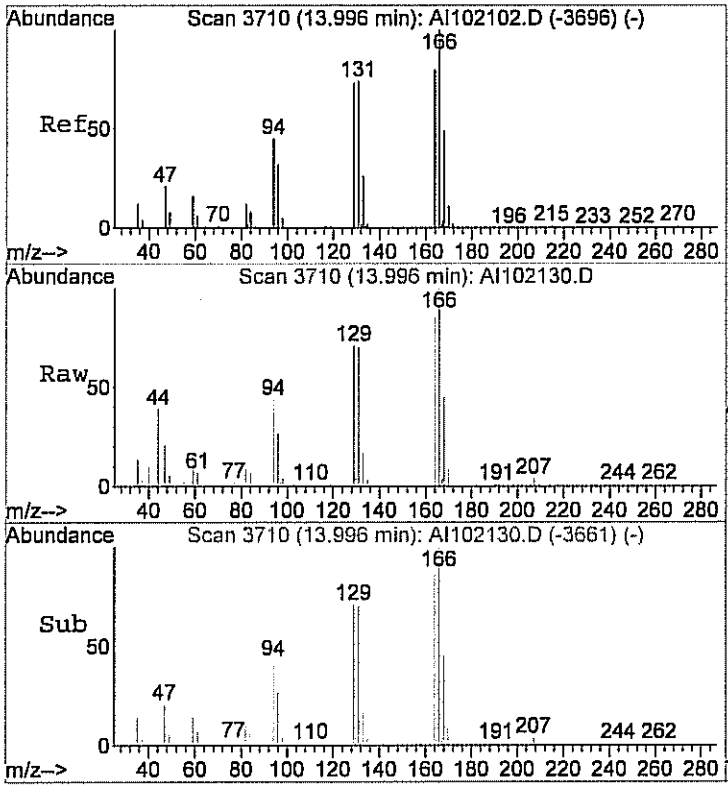


#48
Toluene
Concen: 0.25 ppb
RT: 12.97 min Scan# 3366
Delta R.T. -0.01 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion: 92 Resp: 14641

Ion	Ratio	Lower	Upper
92	100		
91	175.4	159.8	199.8

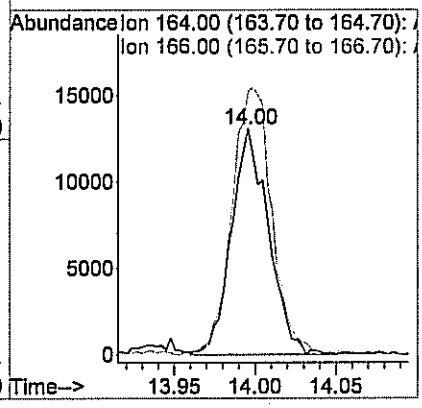




#53
Tetrachloroethylene
Concen: 0.34 ppb
RT: 14.00 min Scan# 3710
Delta R.T. -0.00 min
Lab File: AI102130.D
Acq: 21 Oct 2011 11:07 pm

Tgt Ion:164 Resp: 20821

Ion	Ratio	Lower	Upper
164	100		
166	126.6	109.4	149.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102406.D Vial: 6
Acq On : 24 Oct 2011 1:59 pm Operator: RJP
Sample : C1110030-001A 180X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 14:20:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

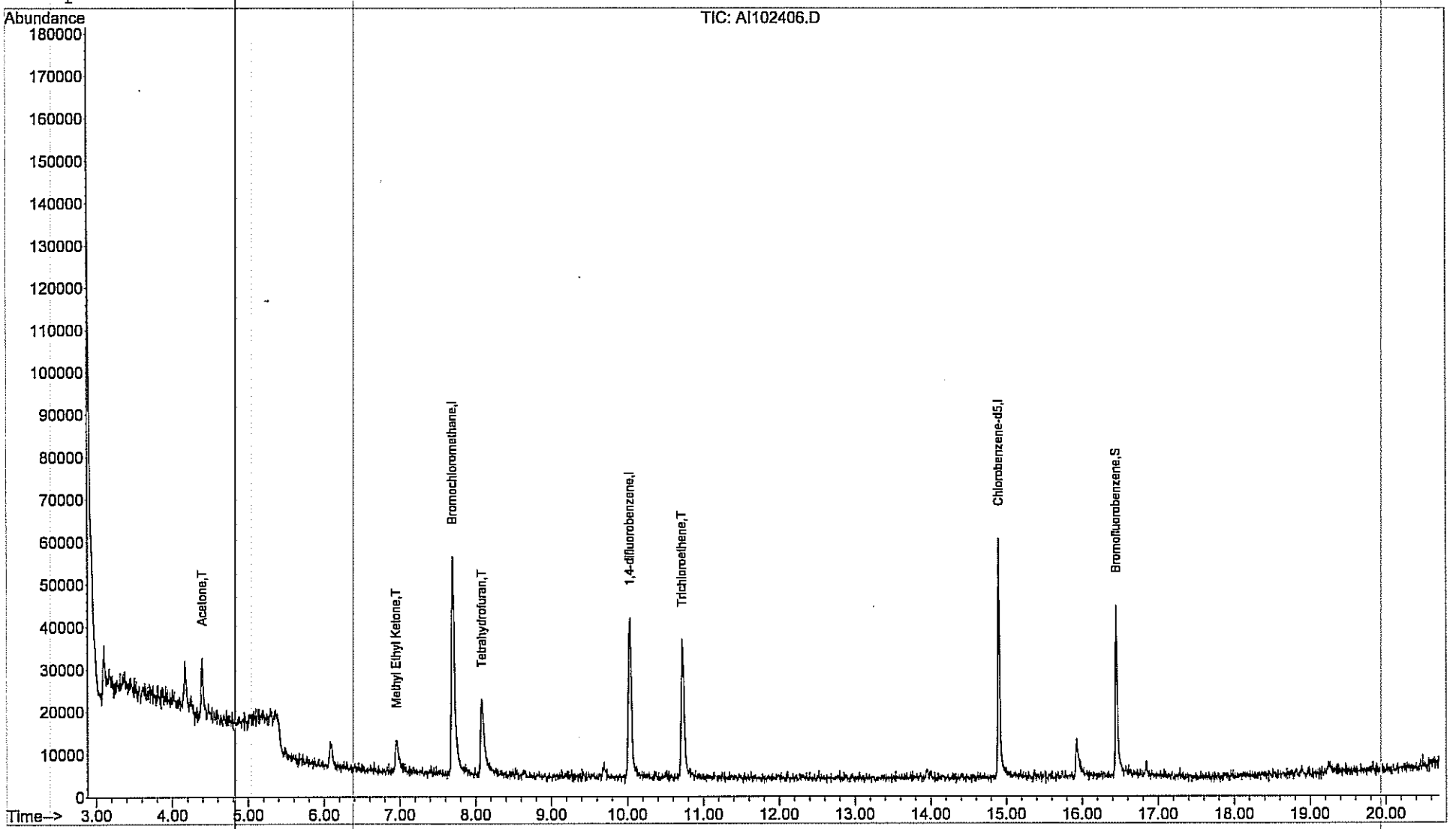
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	22193	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	45120	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	36176	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14548	0.80	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%			
Target Compounds						Qvalue
14) Acetone	4.39	58	5521	0.70	ppb	# 81
25) Methyl Ethyl Ketone	6.96	72	4047m	0.56	ppb	
30) Tetrahydrofuran	8.07	42	15351m	1.11	ppb	
41) Trichloroethene	10.72	130	16096	0.68	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

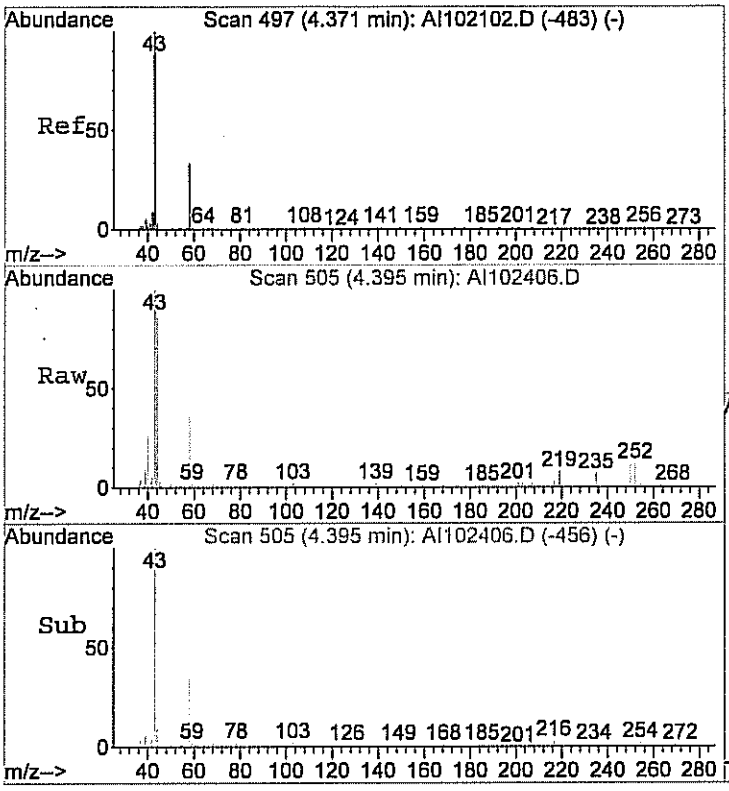
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102406.D Vial: 6
Acq On : 24 Oct 2011 1:59 pm Operator: RJP
Sample : C1110030-001A 180X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 14:04 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



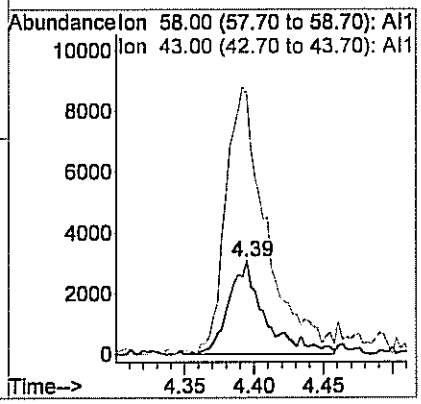
Centek Laboratories, LLC

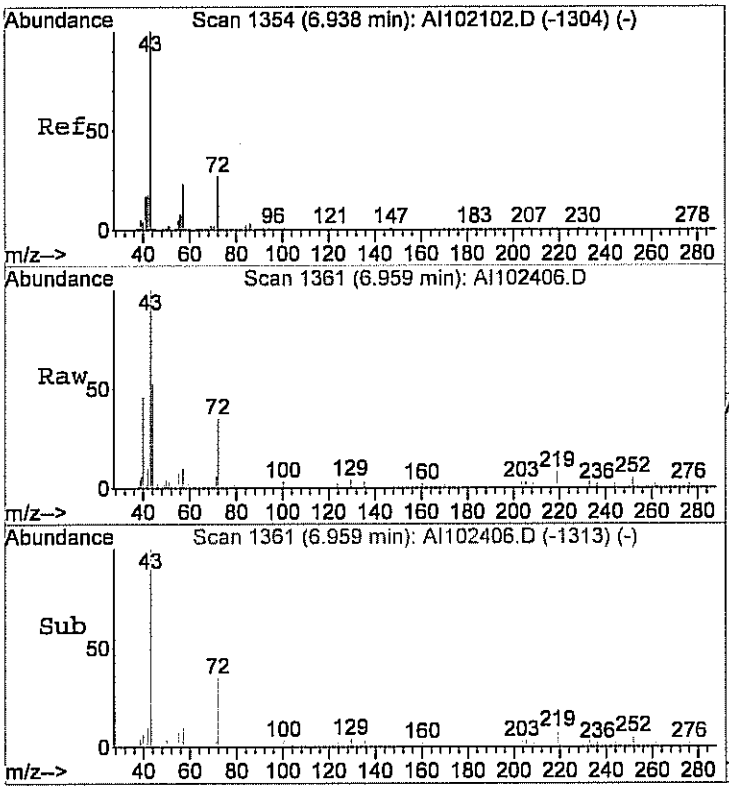


#14
Acetone
Concen: 0.70 ppb
RT: 4.39 min Scan# 505
Delta R.T. -0.00 min
Lab File: AI102406.D
Acq: 24 Oct 2011 1:59 pm

Tgt Ion: 58 Resp: 5521

Ion	Ratio	Lower	Upper
58	100		
43	346.9	360.8	420.8#

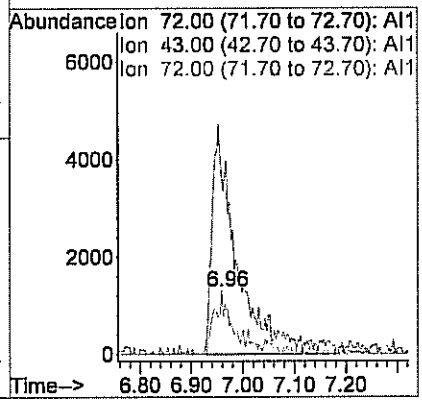


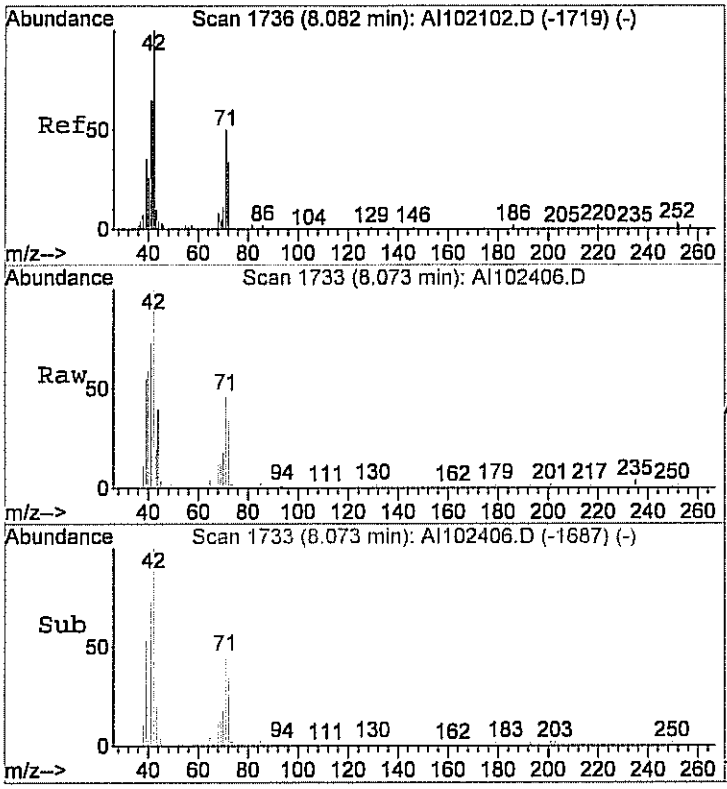


#25
Methyl Ethyl Ketone
Concen: 0.56 ppb m
RT: 6.96 min Scan# 1361
Delta R.T. -0.01 min
Lab File: AI102406.D
Acq: 24 Oct 2011 1:59 pm

Tgt Ion: 72 Resp: 4047

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	82.1	80.0	120.0

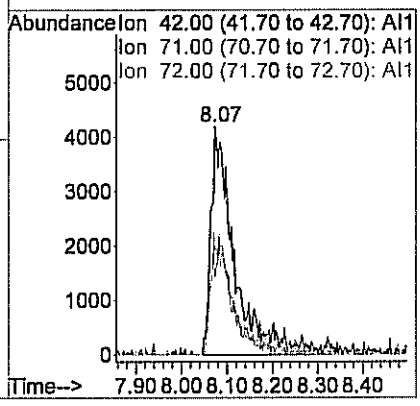


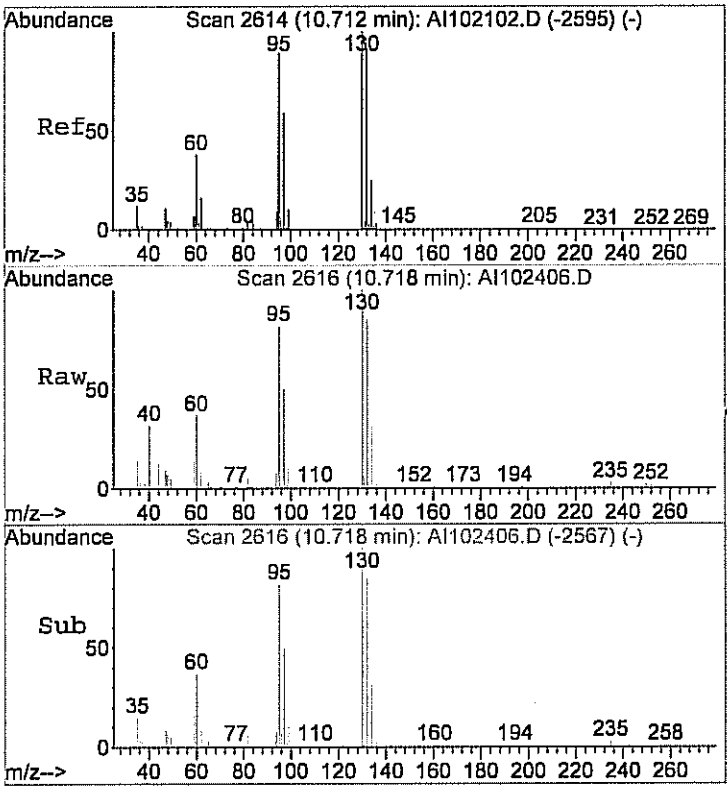


#30
Tetrahydrofuran
Concen: 1.11 ppb m
RT: 8.07 min Scan# 1733
Delta R.T. -0.01 min
Lab File: AI102406.D
Acq: 24 Oct 2011 1:59 pm

Tgt Ion: 42 Resp: 15351

Ion	Ratio	Lower	Upper
42	100		
71	45.7	24.6	64.6
72	44.2	26.5	66.5

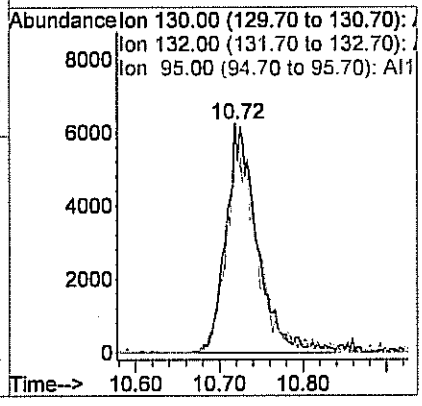




#41
Trichloroethene
Concen: 0.68 ppb
RT: 10.72 min Scan# 2616
Delta R.T. -0.00 min
Lab File: AI102406.D
Acq: 24 Oct 2011 1:59 pm

Tgt Ion:130 Resp: 16096

Ion	Ratio	Lower	Upper
130	100		
132	96.3	79.0	119.0
95	90.9	76.8	116.8



Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.1	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Acetone	180	27		ppbV	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzene	0.22	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroform	1.0	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 11	10	1.5		ppbV	10	10/22/2011 7:11:00 PM
Freon 113	0.13	0.15	J	ppbV	1	10/21/2011 11:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:39:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	130	27		ppbV	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	1.7	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	260	14		ppbV	90	10/22/2011 8:17:00 PM
Toluene	0.36	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Trichloroethene	220	14		ppbV	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT: FPM
Lab Order: C1110030
Project: 1000-08-17
Lab ID: C1110030-002A

Client Sample ID: 774776CA01AD
Tag Number: 333
Collection Date: 10/14/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.1	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Acetone	440	65		ug/m3	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:39:00 PM
Benzene	0.71	0.49		ug/m3	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:39:00 PM
Chloroform	5.0	0.74		ug/m3	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Freon 11	59	8.6		ug/m3	10	10/22/2011 7:11:00 PM
Freon 113	1.0	1.2	J	ug/m3	1	10/21/2011 11:39:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT: FPM
Lab Order: C1110030
Project: 1000-08-17
Lab ID: C1110030-002A

Client Sample ID: 774776CA01AD
Tag Number: 333
Collection Date: 10/14/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	400	81		ug/m3	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:39:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	12	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	770	42		ug/m3	90	10/22/2011 8:17:00 PM
Toluene	1.4	0.57		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Trichloroethene	1200	76		ug/m3	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:39:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102131.D Vial: 31
Acq On : 21 Oct 2011 11:39 pm Operator: RJP
Sample : C1110030-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 00:00:19 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

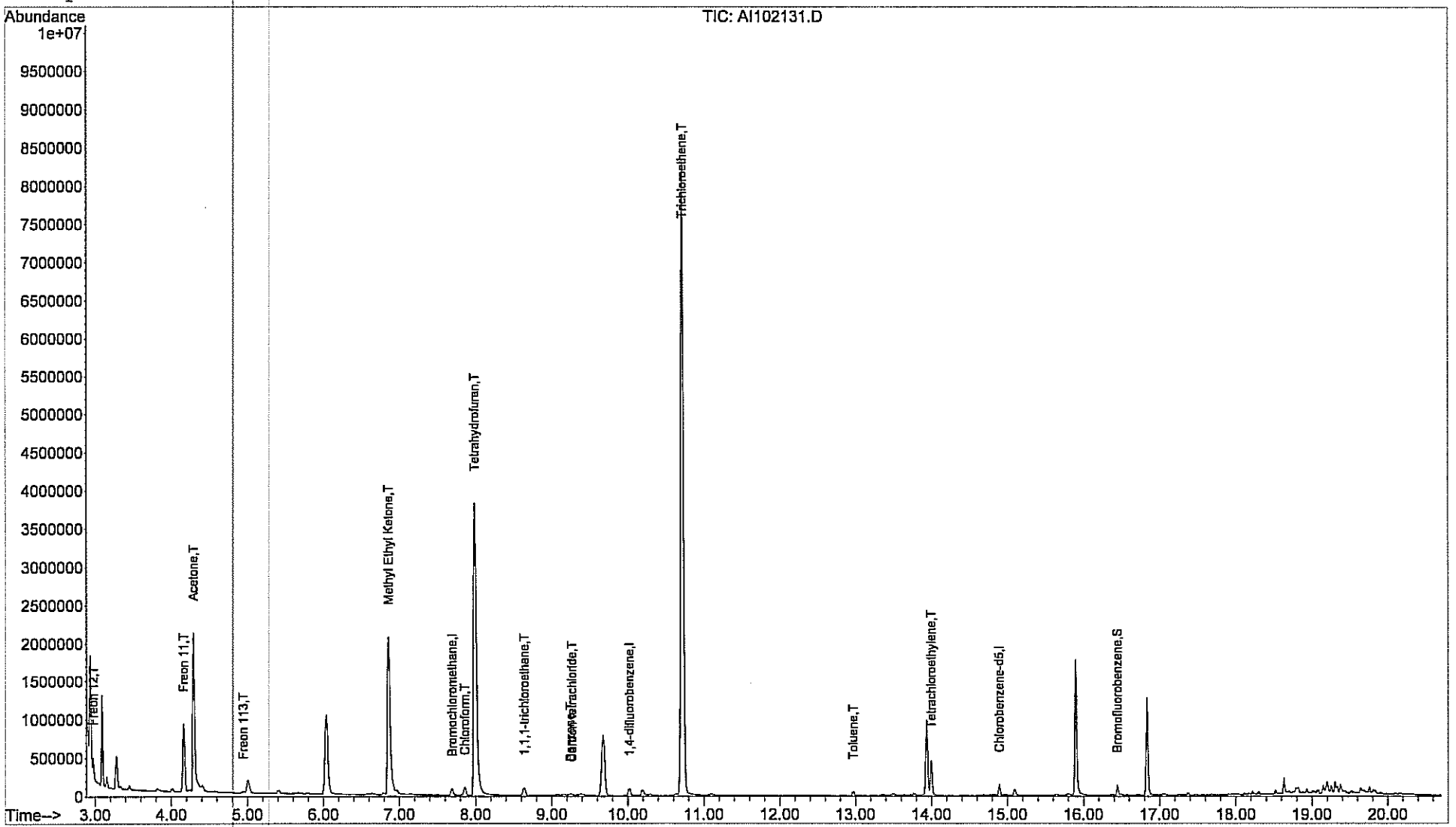
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	29338	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.01	114	91521	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	85736	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	41752	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
3) Freon 12	2.98	85	152108	1.21	ppb		100
13) Freon 11	4.16	101	754583	7.75	ppb		100
14) Acetone	4.29	58	778392	75.15	ppb	#	68
17) Freon 113	4.94	101	9194	0.13	ppb		93
25) Methyl Ethyl Ketone	6.85	72	877127	91.34	ppb	#	100
29) Chloroform	7.86	83	91713	1.01	ppb		100
30) Tetrahydrofuran	7.99	42	2823047	154.25	ppb		88
33) 1,1,1-trichloroethane	8.64	97	74097	1.10	ppb		100
35) Carbon tetrachloride	9.27	117	8884	0.10	ppb		93
36) Benzene	9.24	78	17445	0.22	ppb		98
41) Trichloroethene	10.72	130	3649068	76.31	ppb		97
48) Toluene	12.97	92	20047	0.36	ppb		95
53) Tetrachloroethylene	14.00	164	102732	1.73	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102131.D A826_1UG.M Tue Nov 08 09:16:07 2011 MSD1 Page 1

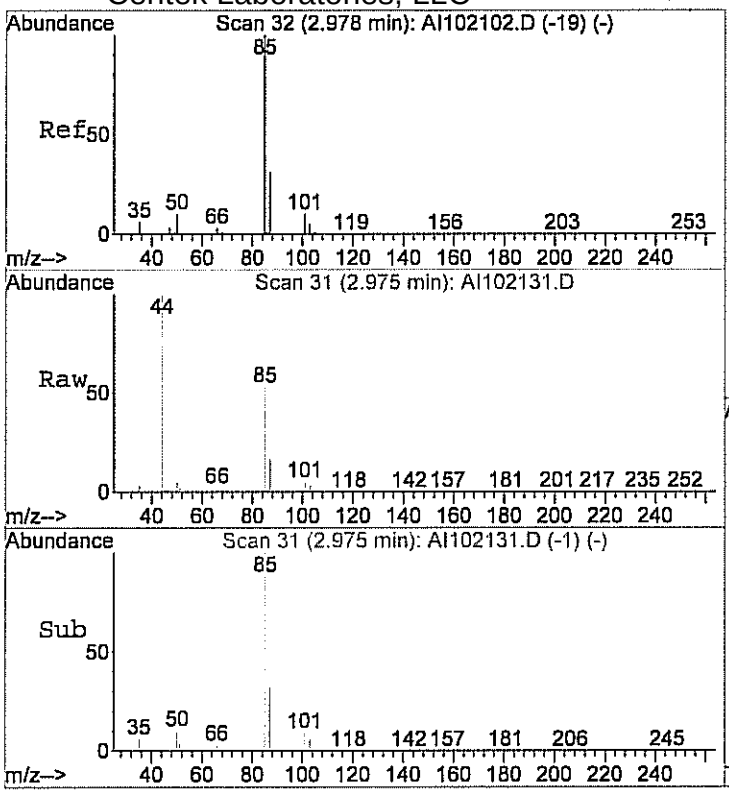
Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102131.D Vial: 31
Acq On : 21 Oct 2011 11:39 pm Operator: RJP
Sample : C1110030-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:34 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



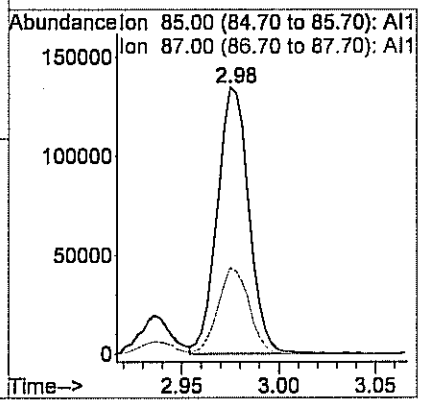
Centek Laboratories, LLC

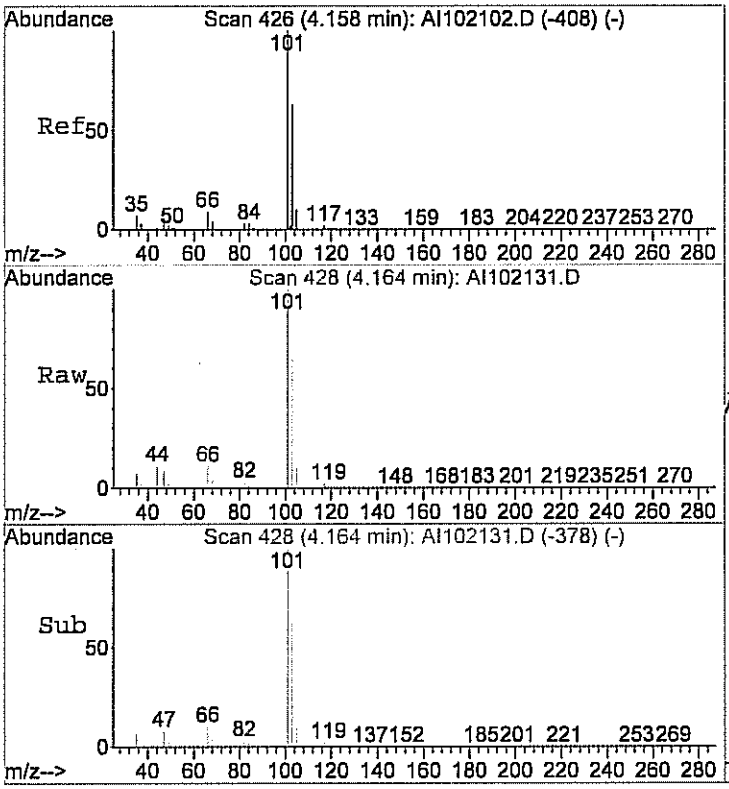


#3
Freon 12
Concen: 1.21 ppb
RT: 2.98 min Scan# 31
Delta R.T. -0.01 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 85 Resp: 152108

Ion	Ratio	Lower	Upper
85	100		
87	32.3	12.2	52.2

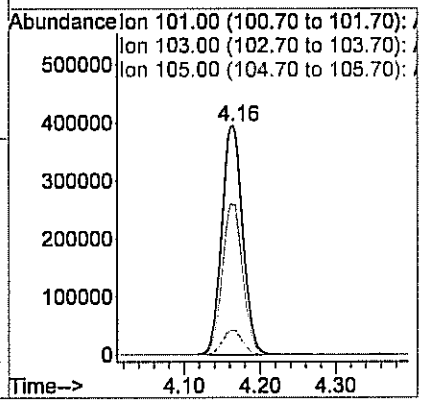


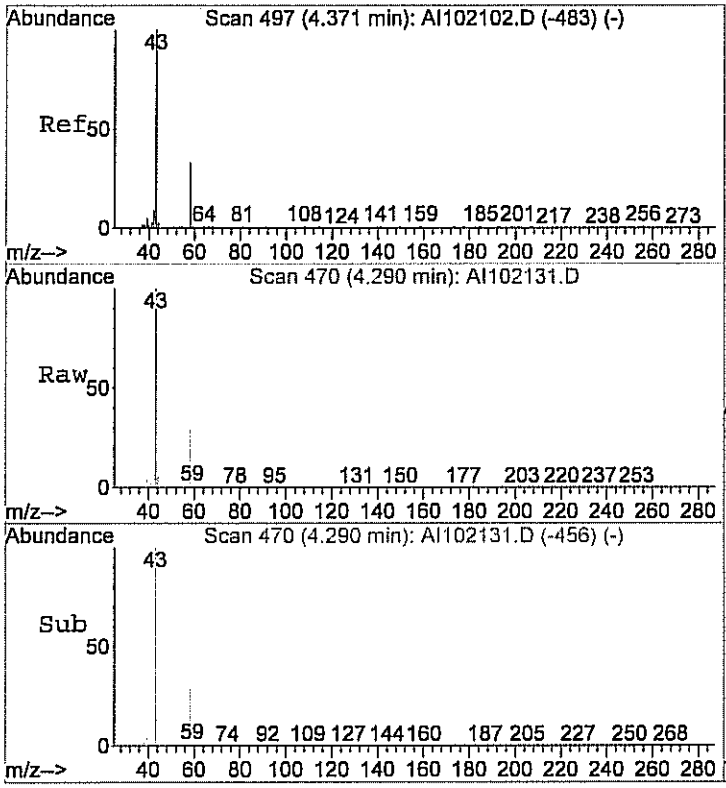


#13
Freon 11
Concen: 7.75 ppb
RT: 4.16 min Scan# 428
Delta R.T. 0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion:101 Resp: 754583

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.9	84.9
105	10.6	0.0	30.9

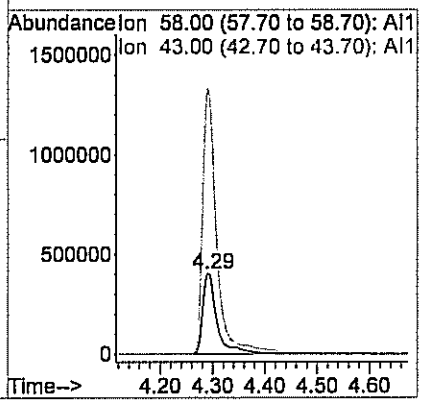


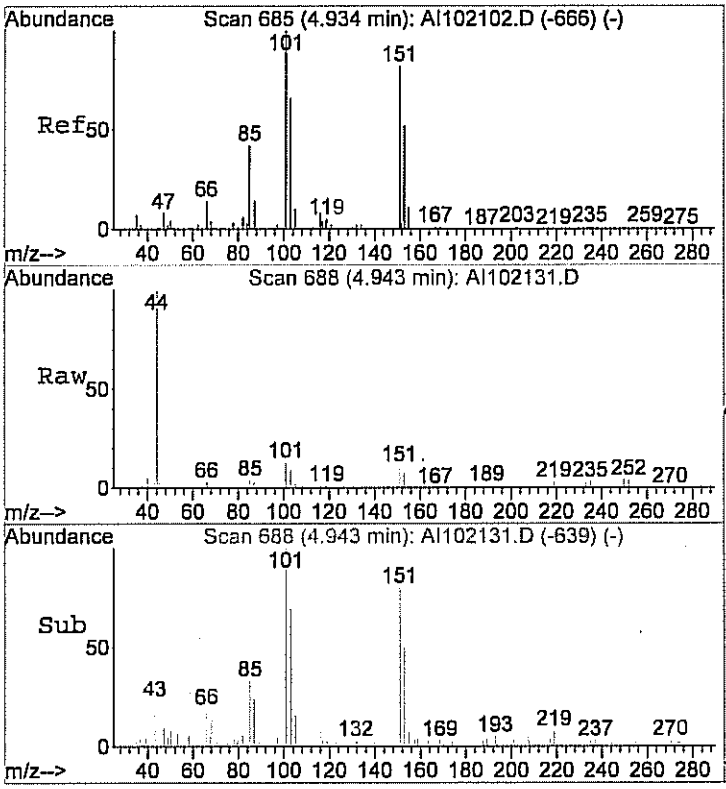


#14
Acetone
Concen: 75.15 ppb
RT: 4.29 min Scan# 470
Delta R.T. -0.11 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 58 Resp: 778392

Ion	Ratio	Lower	Upper
58	100		
43	316.9	360.8	420.8#

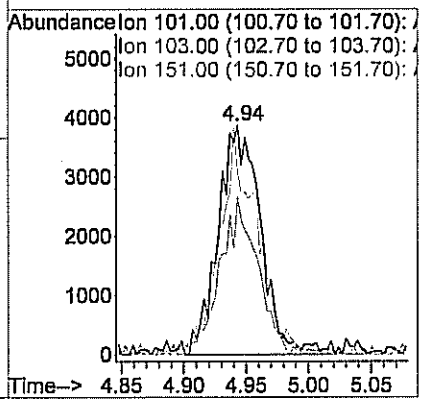


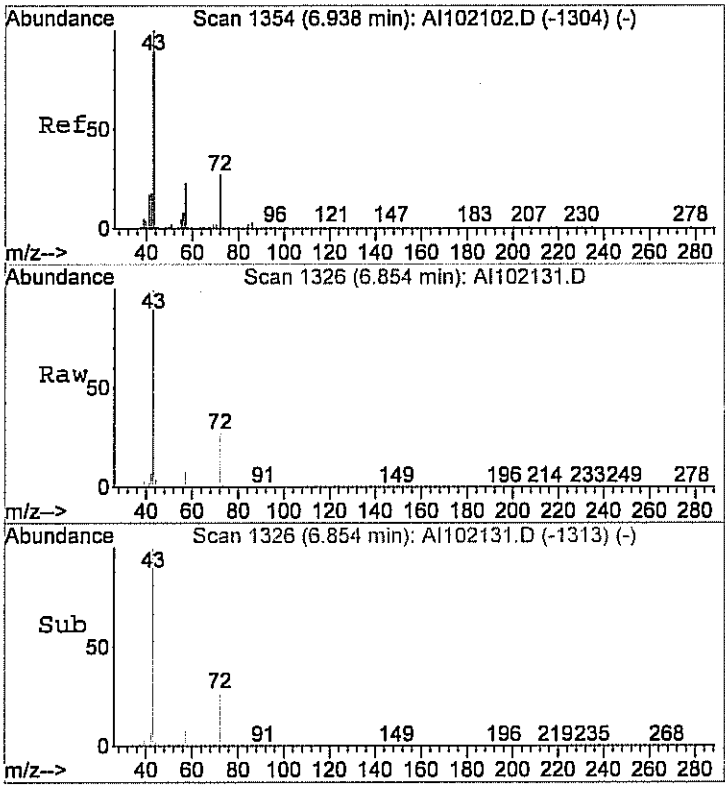


#17
Freon 113
Concen: 0.13 ppb
RT: 4.94 min Scan# 688
Delta R.T. -0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion:101 Resp: 9194

Ion	Ratio	Lower	Upper
101	100		
103	60.0	44.3	84.3
151	87.8	61.0	101.0

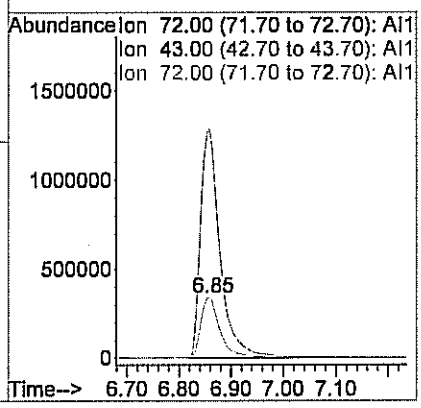


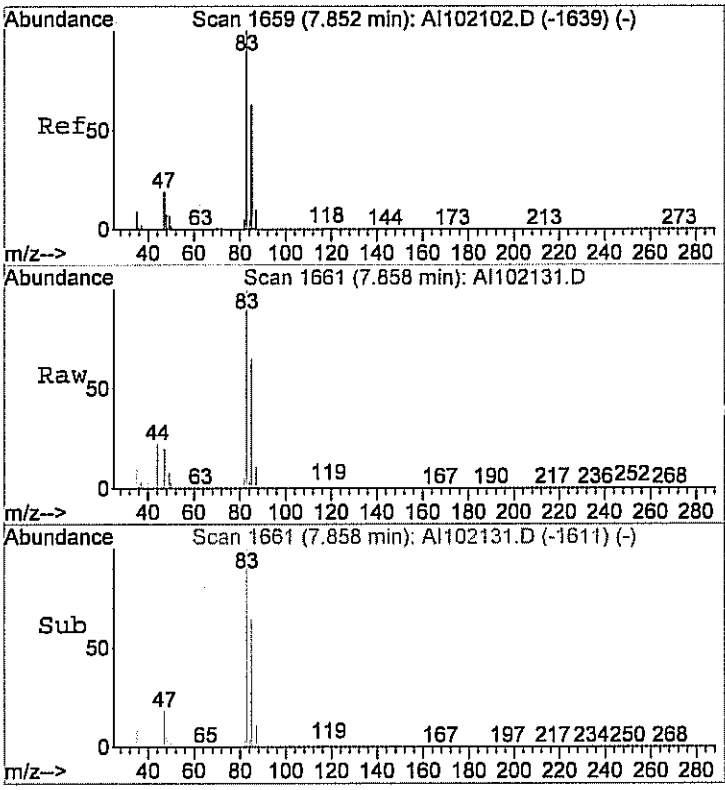


#25
Methyl Ethyl Ketone
Concen: 91.34 ppb
RT: 6.85 min Scan# 1326
Delta R.T. -0.11 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 72 Resp: 877127

Ion	Ratio	Lower	Upper
72	100		
43	381.1	0.0	20.0#
72	100.0	80.0	120.0

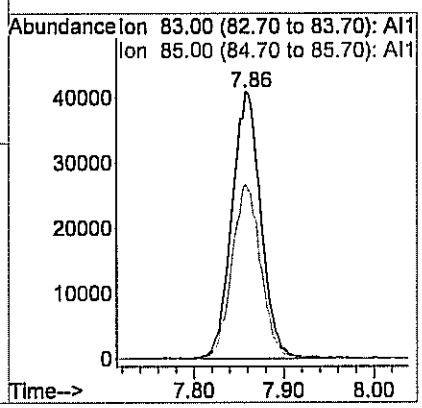


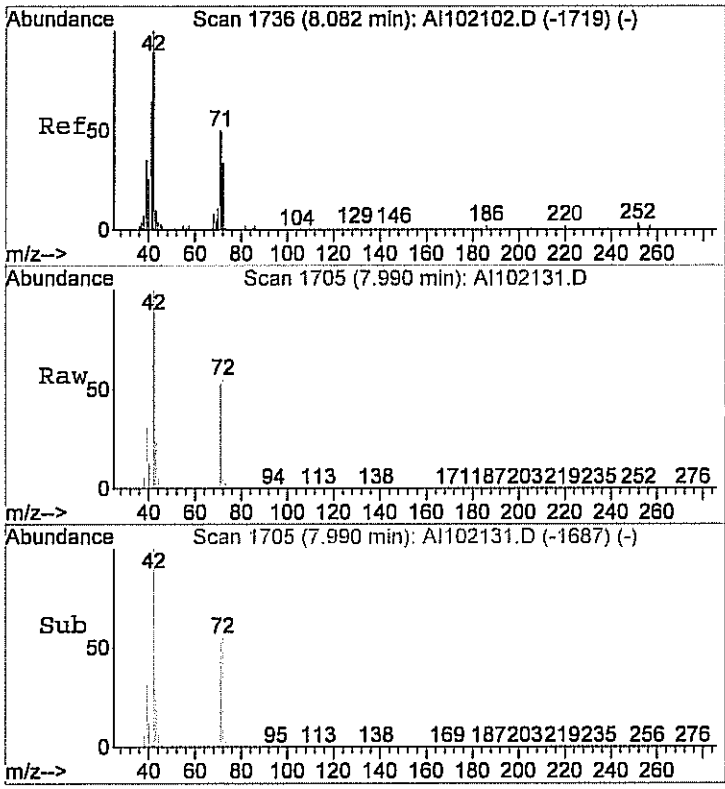


#29
Chloroform
Concen: 1.01 ppb
RT: 7.86 min Scan# 1661
Delta R.T. 0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 83 Resp: 91713

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.0	85.0

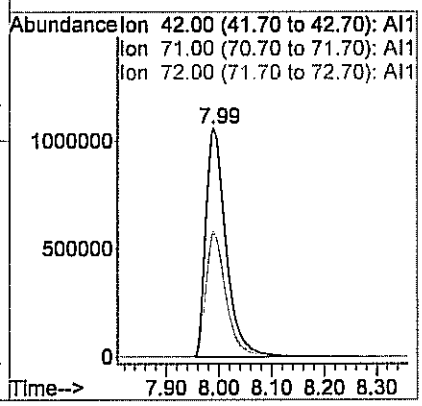


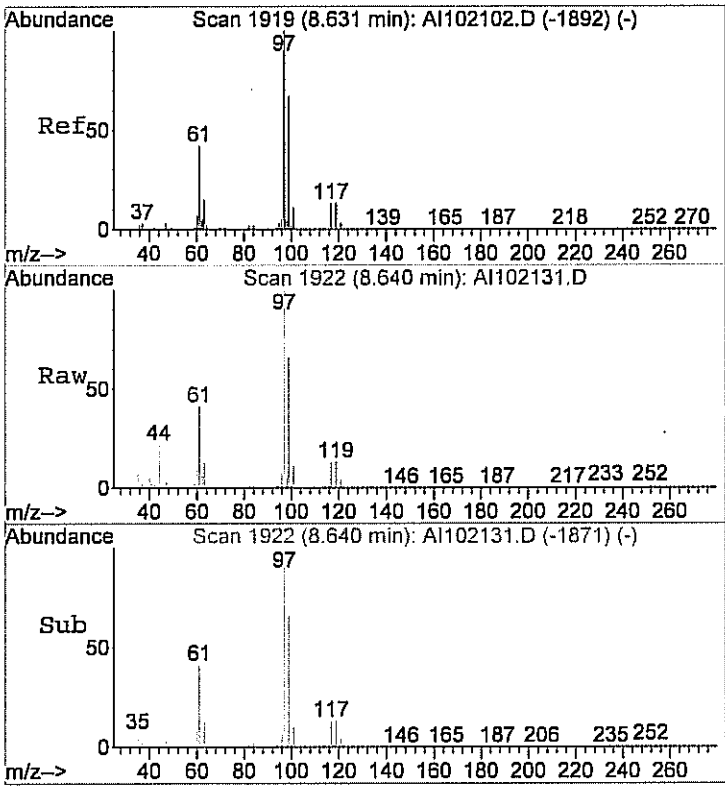


#30
Tetrahydrofuran
Concen: 154.25 ppb
RT: 7.99 min Scan# 1705
Delta R.T. -0.10 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 42 Resp: 2823047

Ion	Ratio	Lower	Upper
42	100		
71	53.7	24.6	64.6
72	53.7	26.5	66.5

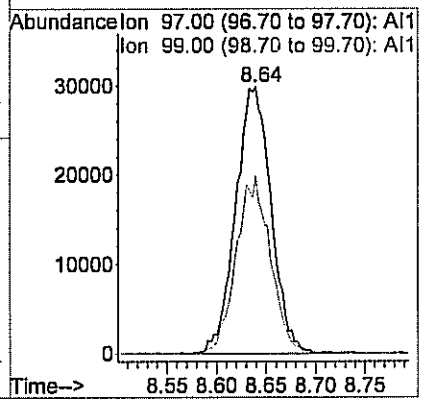


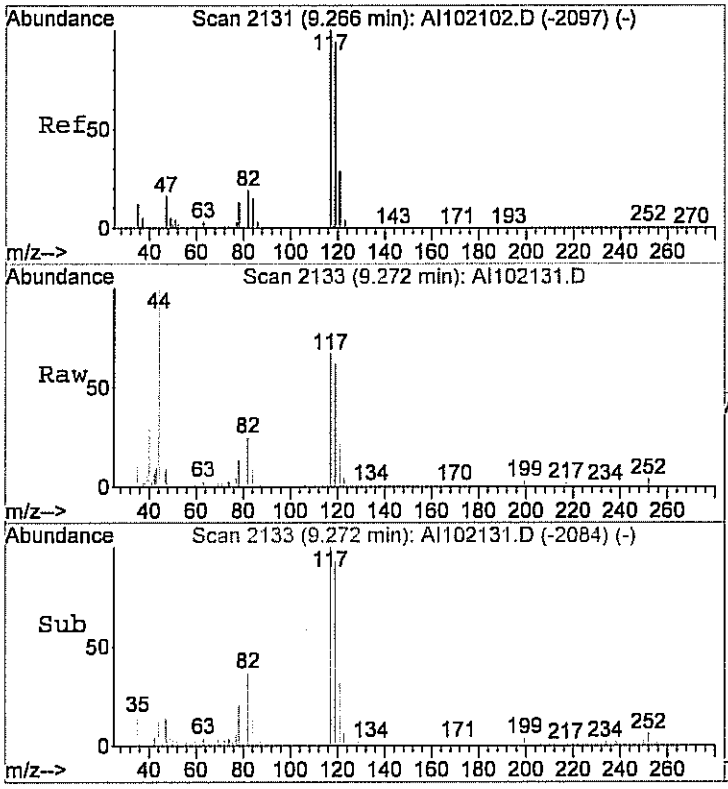


#33
1,1,1-trichloroethane
Concen: 1.10 ppb
RT: 8.64 min Scan# 1922
Delta R.T. 0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 97 Resp: 74097

Ion	Ratio	Lower	Upper
97	100		
99	63.9	43.8	83.8

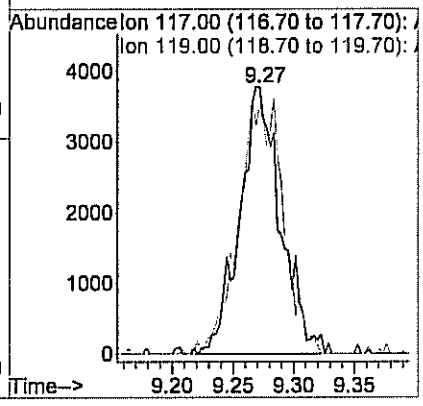


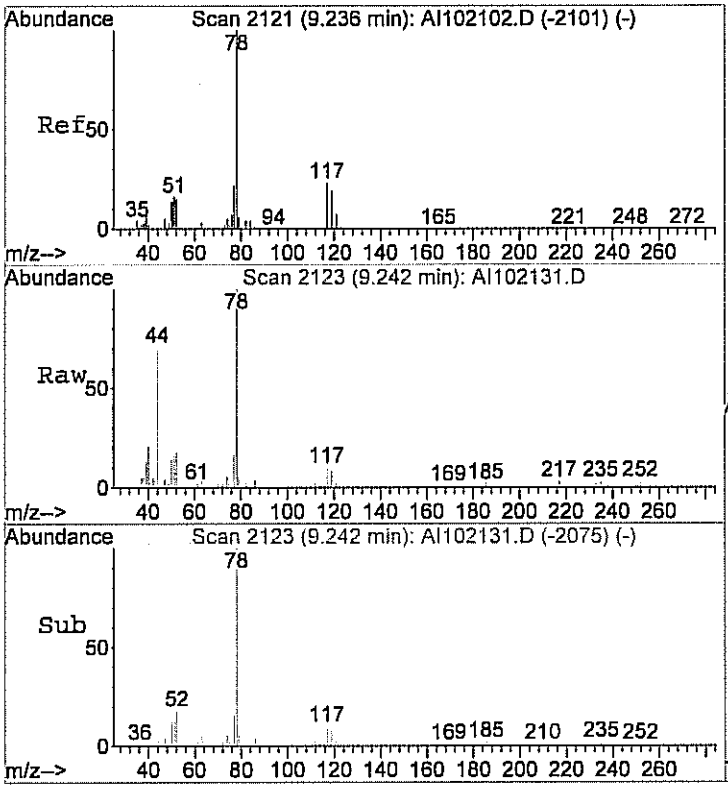


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.27 min Scan# 2133
Delta R.T. -0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion:117 Resp: 8884

Ion	Ratio	Lower	Upper
117	100		
119	103.9	77.2	117.2

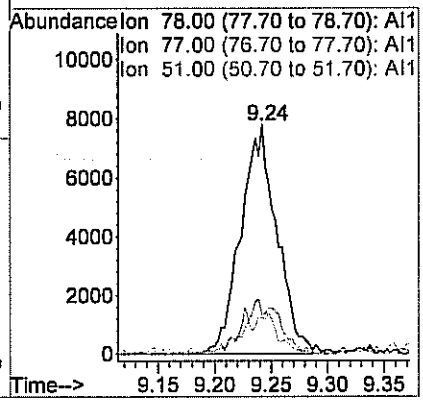


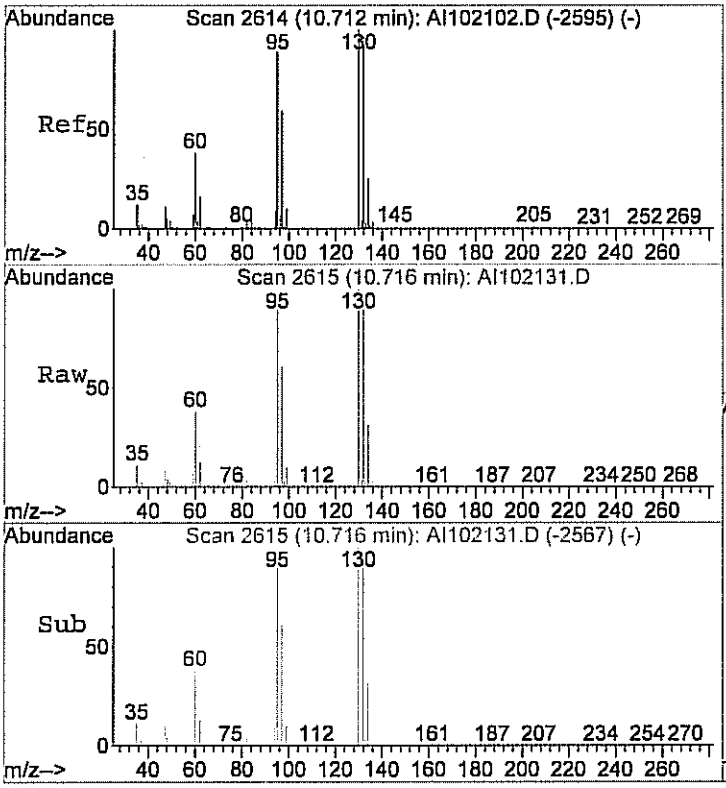


#36
Benzene
Concen: 0.22 ppb
RT: 9.24 min Scan# 2123
Delta R.T. -0.01 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 78 Resp: 17445

Ion	Ratio	Lower	Upper
78	100		
77	24.1	5.2	45.2
51	16.9	0.0	37.6

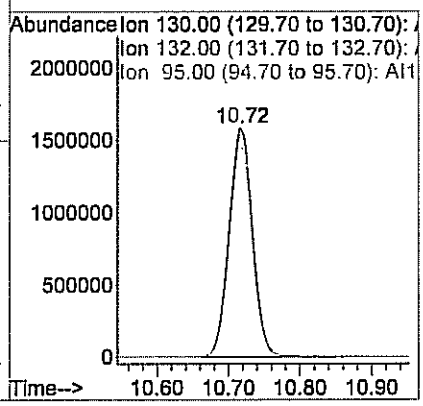


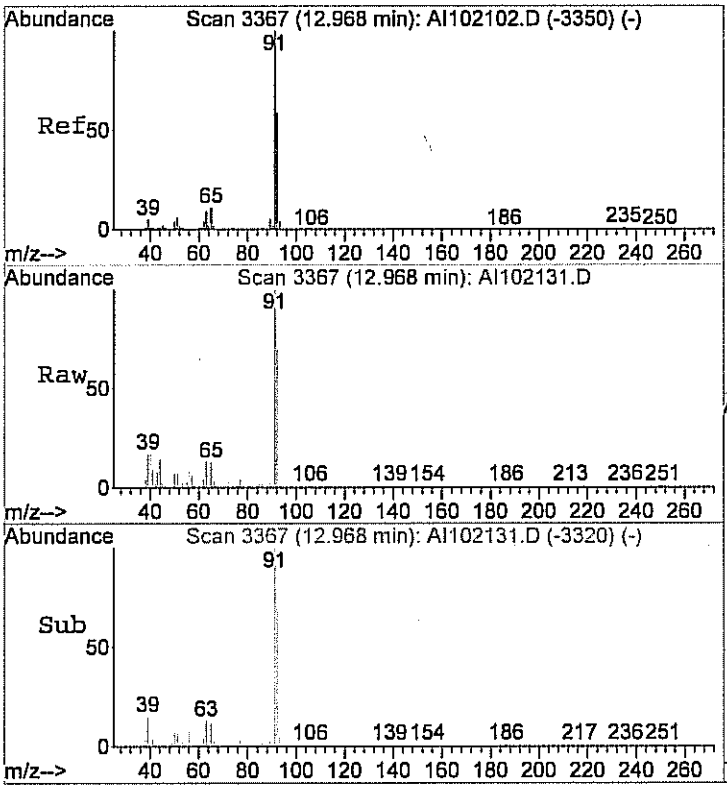


#41
Trichloroethene
Concen: 76.31 ppb
RT: 10.72 min Scan# 2615
Delta R.T. -0.01 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion:130 Resp: 3649068

Ion	Ratio	Lower	Upper
130	100		
132	97.6	79.0	119.0
95	92.2	76.8	116.8

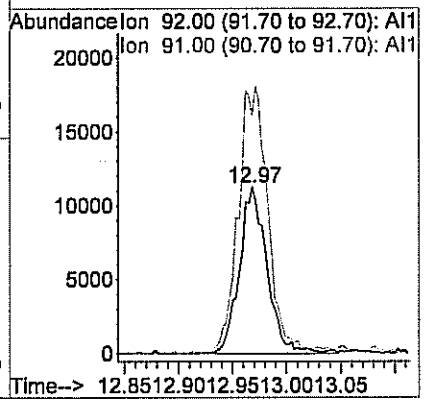


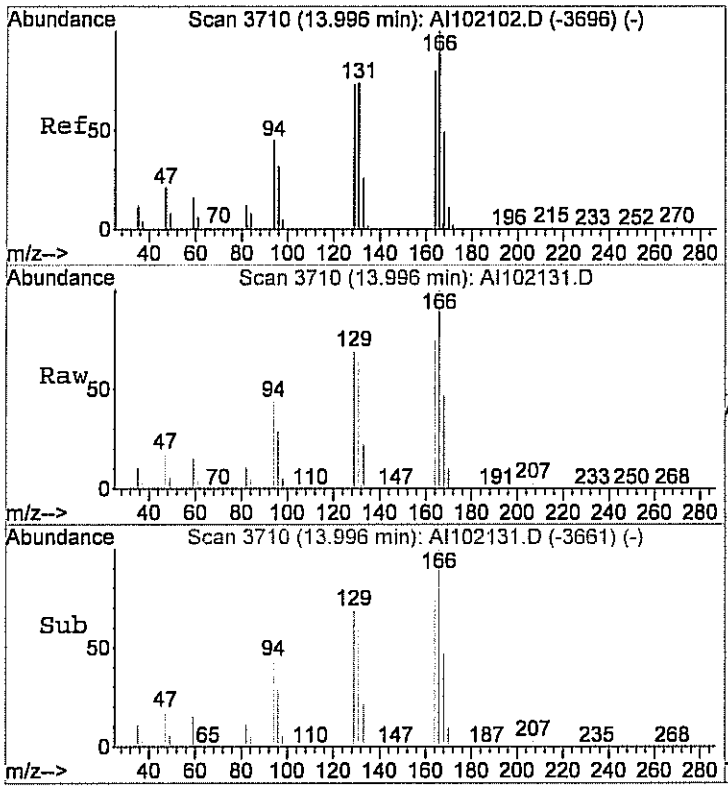


#48
Toluene
Concen: 0.36 ppb
RT: 12.97 min Scan# 3367
Delta R.T. -0.01 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion: 92 Resp: 20047

Ion	Ratio	Lower	Upper
92	100		
91	172.7	159.8	199.8

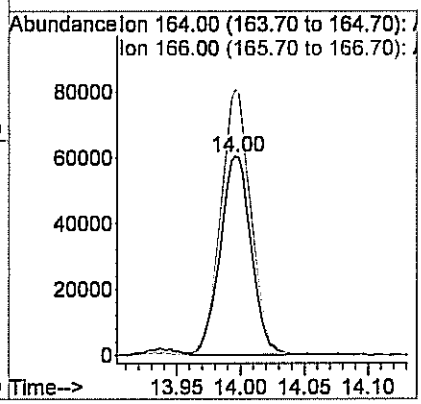




#53
Tetrachloroethylene
Concen: 1.73 ppb
RT: 14.00 min Scan# 3710
Delta R.T. -0.00 min
Lab File: AI102131.D
Acq: 21 Oct 2011 11:39 pm

Tgt Ion:164 Resp: 102732

Ion	Ratio	Lower	Upper
164	100		
166	130.2	109.4	149.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102215.D Vial: 53
Acq On : 22 Oct 2011 7:11 pm Operator: RJP
Sample : C1110030-002A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 19:32:20 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

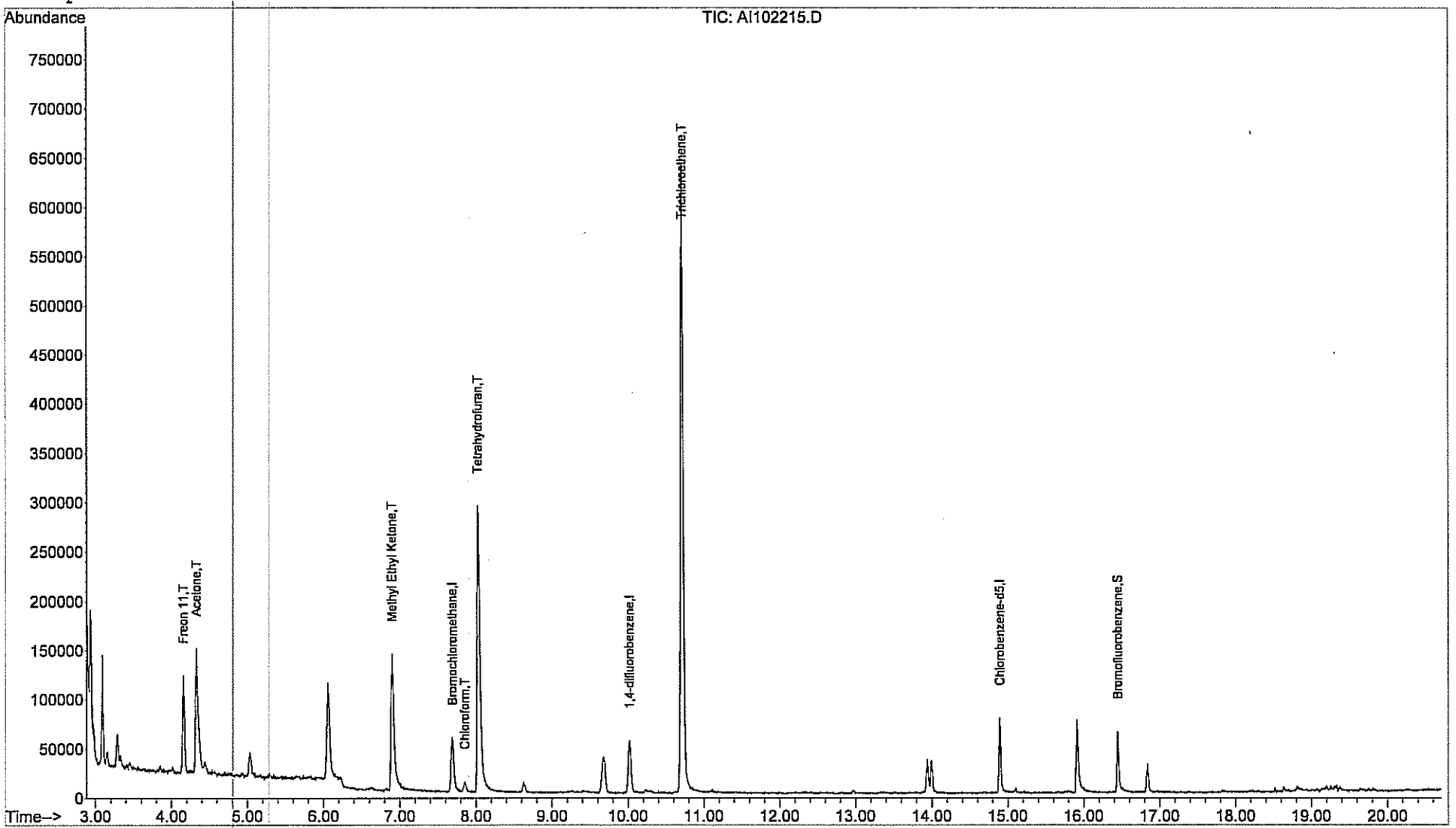
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	22699	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	56047	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	47733	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	21288	0.88	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%				
Target Compounds							Qvalue
13) Freon 11	4.16	101	77720	1.03	ppb		98
14) Acetone	4.33	58	66049	8.24	ppb	#	71
25) Methyl Ethyl Ketone	6.91	72	60031	8.08	ppb	#	100
29) Chloroform	7.86	83	8366	0.12	ppb		94
30) Tetrahydrofuran	8.03	42	209723	14.81	ppb		92
41) Trichloroethene	10.71	130	284301	9.71	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

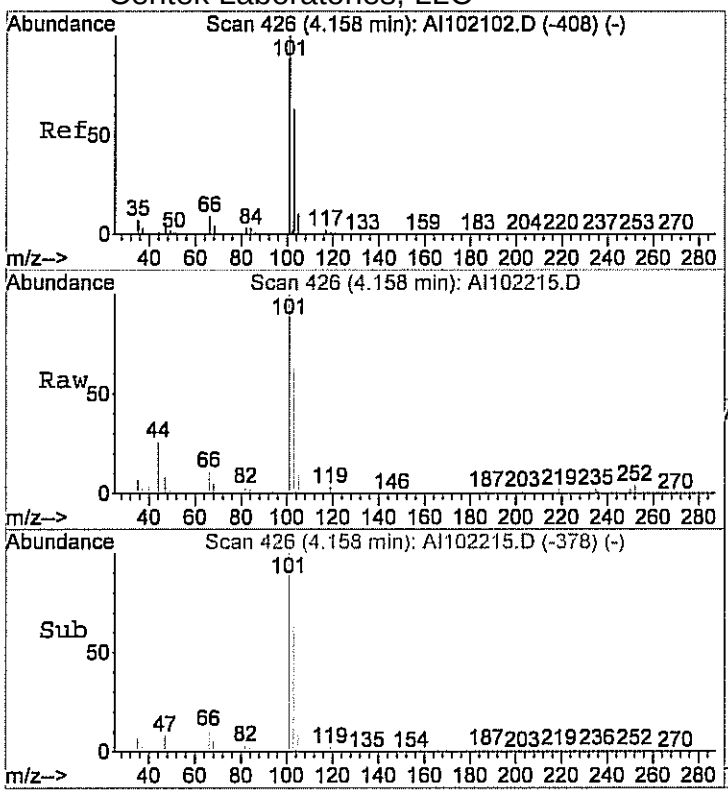
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102215.D Vial: 53
Acq On : 22 Oct 2011 7:11 pm Operator: RJP
Sample : C1110030-002A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:53 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



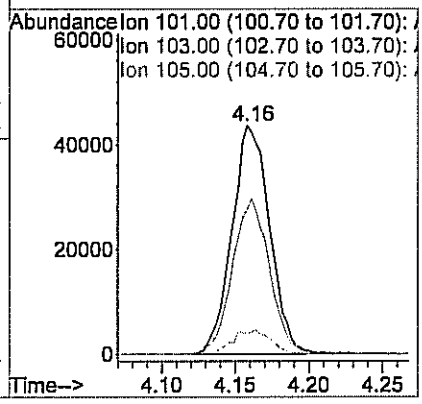
Centek Laboratories, LLC

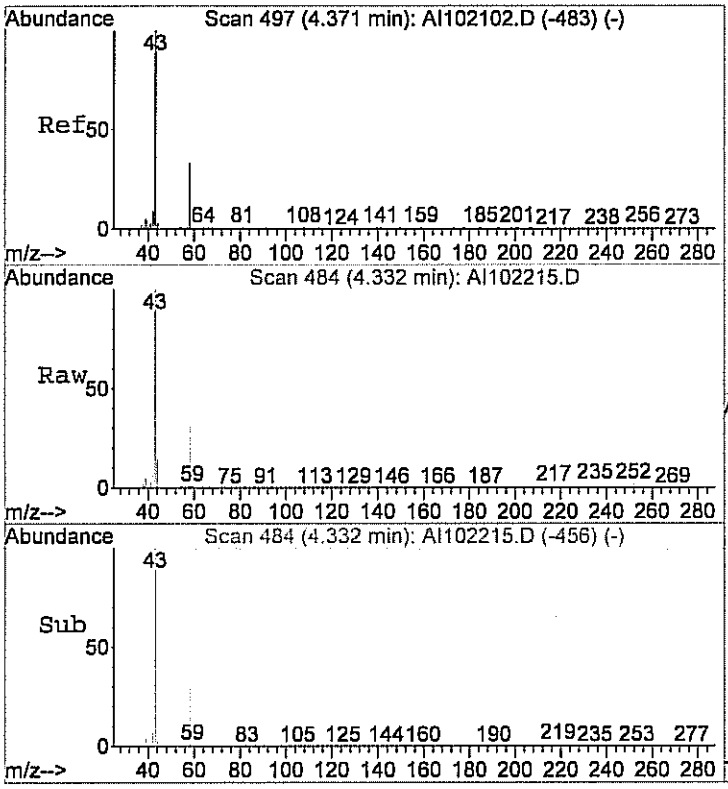


#13
Freon 11
Concen: 1.03 ppb
RT: 4.16 min Scan# 426
Delta R.T. -0.01 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion:101 Resp: 77720

Ion	Ratio	Lower	Upper
101	100		
103	66.6	44.9	84.9
105	10.8	0.0	30.9

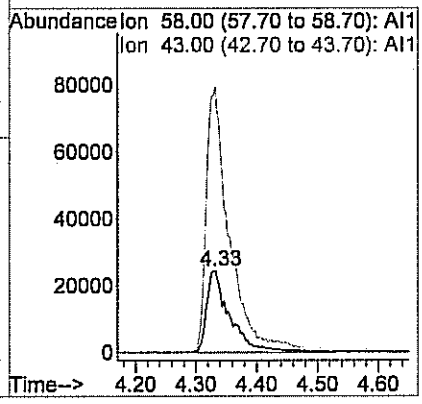


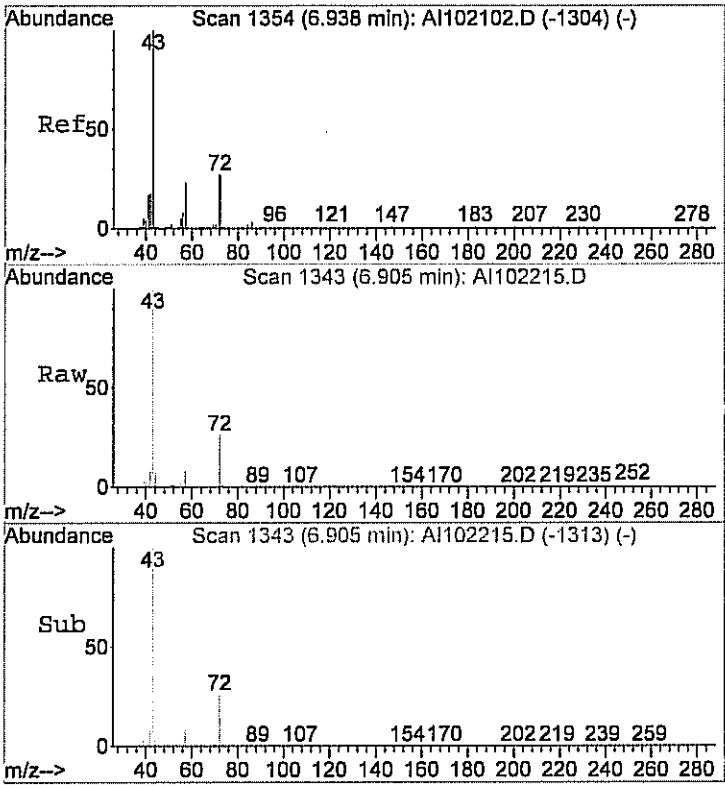


#14
Acetone
Concen: 8.24 ppb
RT: 4.33 min Scan# 484
Delta R.T. -0.07 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion: 58 Resp: 66049

Ion	Ratio	Lower	Upper
58	100		
43	322.9	360.8	420.8#

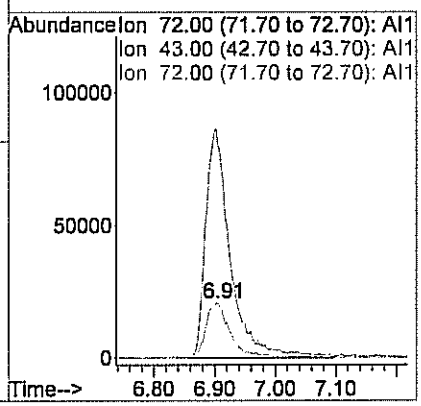


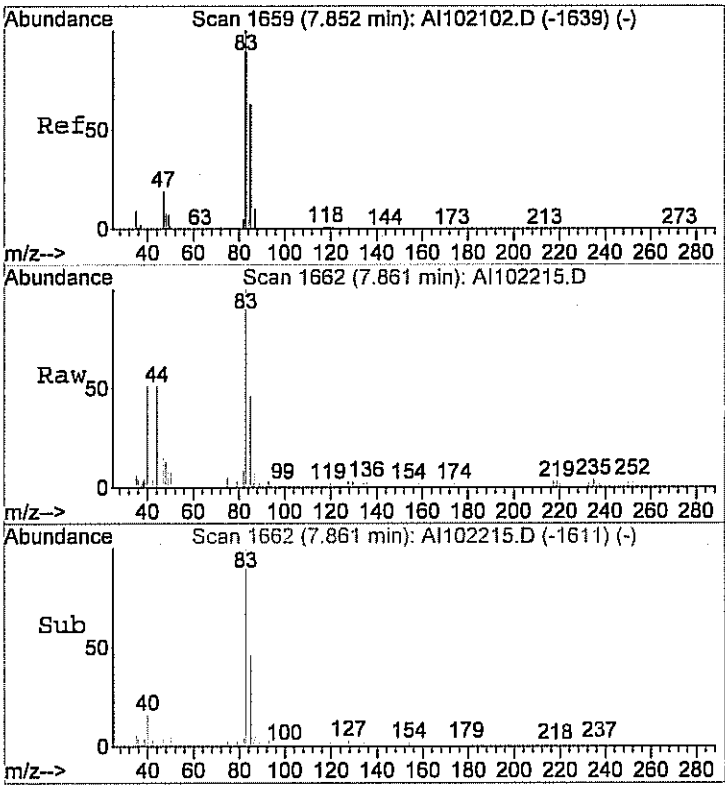


#25
Methyl Ethyl Ketone
Concen: 8.08 ppb
RT: 6.91 min Scan# 1343
Delta R.T. -0.06 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion: 72 Resp: 60031

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

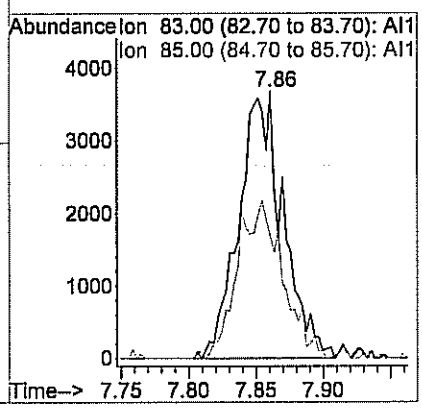


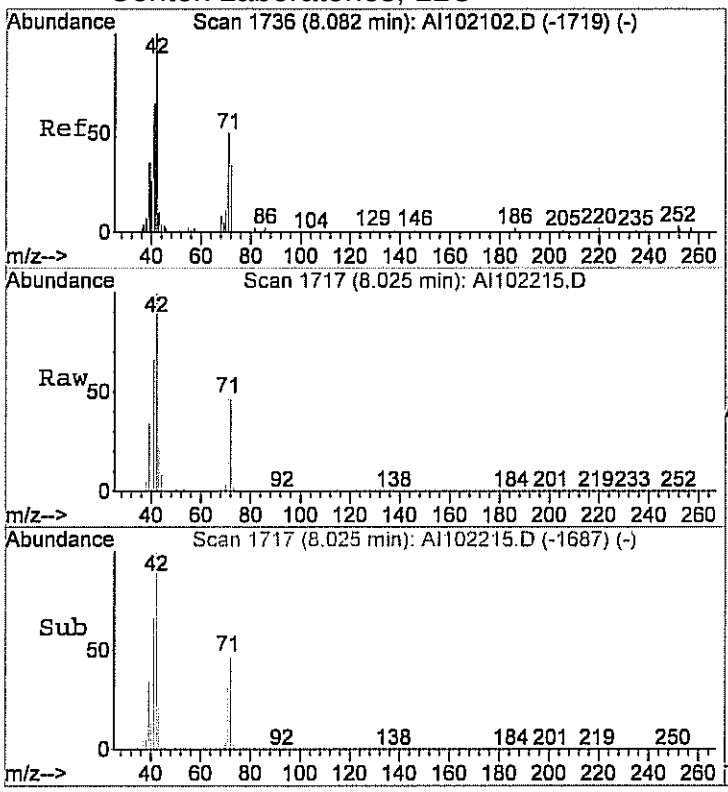


#29
Chloroform
Concen: 0.12 ppb
RT: 7.86 min Scan# 1662
Delta R.T. 0.00 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion: 83 Resp: 8366

Ion	Ratio	Lower	Upper
83	100		
85	60.3	45.0	85.0

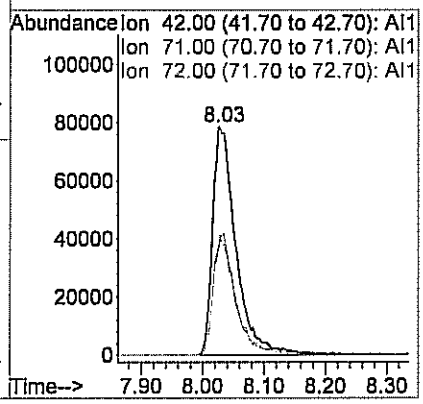


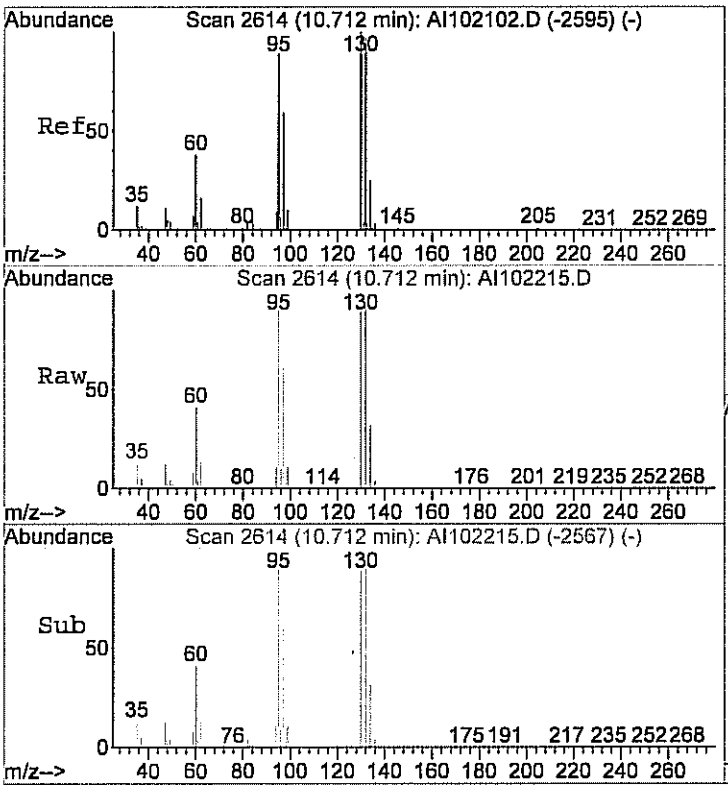


#30
Tetrahydrofuran
Concen: 14.81 ppb
RT: 8.03 min Scan# 1717
Delta R.T. -0.06 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion: 42 Resp: 209723

Ion	Ratio	Lower	Upper
42	100		
71	51.4	24.6	64.6
72	50.5	26.5	66.5

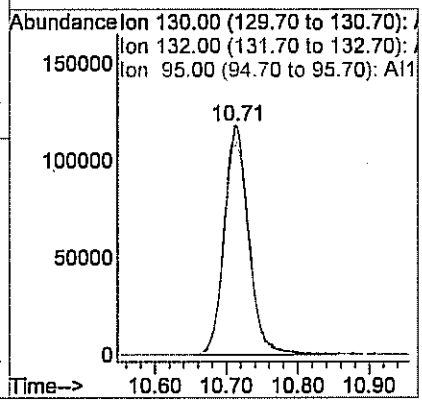




#41
Trichloroethene
Concen: 9.71 ppb
RT: 10.71 min Scan# 2614
Delta R.T. -0.01 min
Lab File: AI102215.D
Acq: 22 Oct 2011 7:11 pm

Tgt Ion:130 Resp: 284301

Ion	Ratio	Lower	Upper
130	100		
132	97.5	79.0	119.0
95	94.5	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102217.D Vial: 55
Acq On : 22 Oct 2011 8:17 pm Operator: RJP
Sample : C1110030-002A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 20:38:09 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	21755	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	49897	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	38432	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.44	95	16166	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue
14) Acetone	4.37	58	15642	2.04	ppb	# 75
25) Methyl Ethyl Ketone	6.92	72	10590	1.49	ppb	# 100
30) Tetrahydrofuran	8.06	42	38597m	2.84	ppb	
41) Trichloroethene	10.72	130	62220m	2.39	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102217.D A826_1UG.M Tue Nov 08 09:16:27 2011 MSD1 Page 1

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Acetone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 11	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 12	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Heptane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Styrene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Toluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Surr: Bromofluorobenzene	73.0	70-130		%REC	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Acetone	< 0.72	0.72		ug/m3	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/22/2011 12:11:00 AM
Benzene	< 0.49	0.49		ug/m3	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/22/2011 12:11:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	10/22/2011 12:11:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Heptane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Hexane	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/22/2011 12:11:00 AM
Styrene	< 0.65	0.65		ug/m3	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/22/2011 12:11:00 AM
Toluene	< 0.57	0.57		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT/LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102132.D Vial: 32
Acq On : 22 Oct 2011 12:11 am Operator: RJP
Sample : C1110030-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 00:32:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

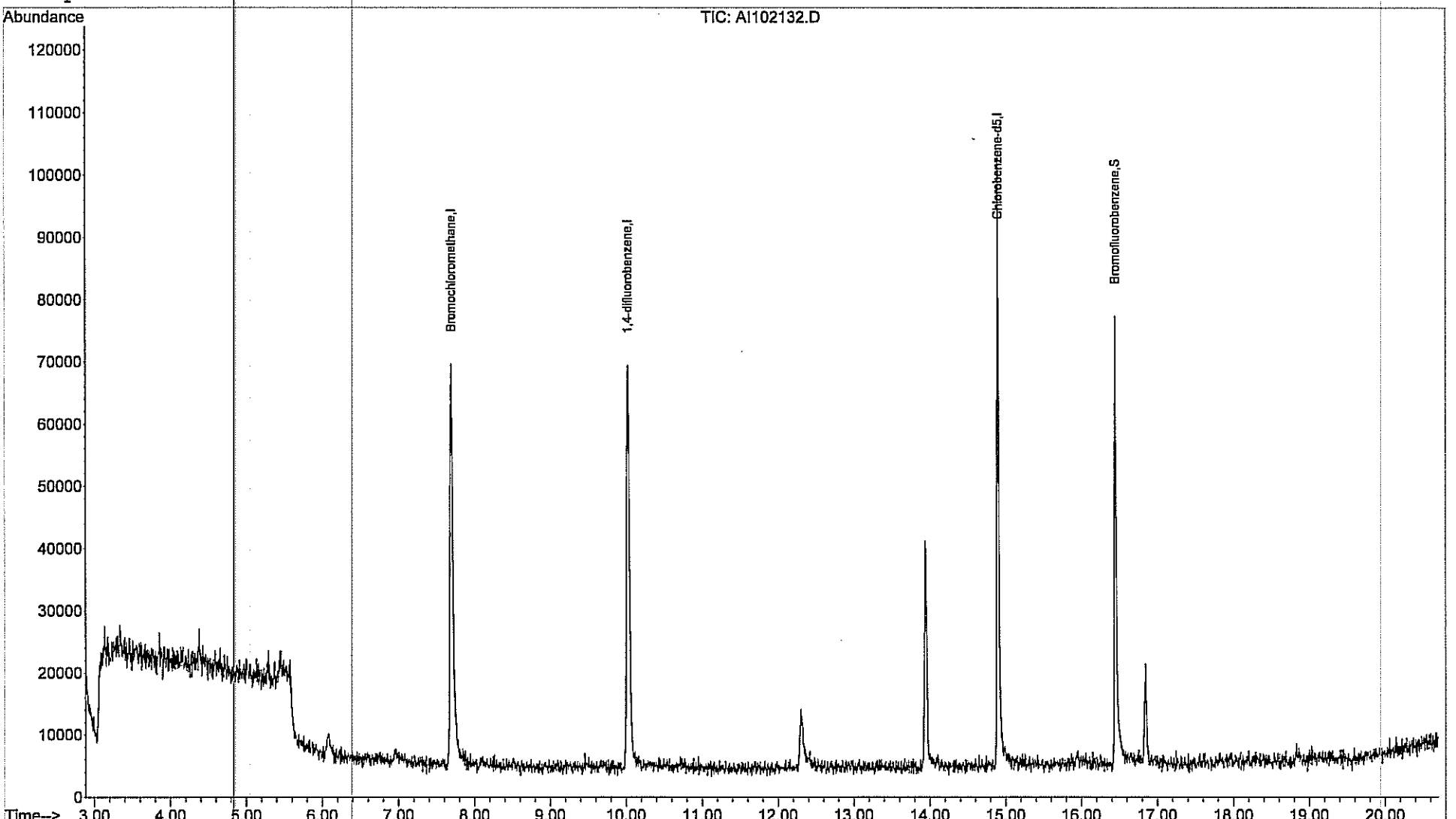
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	27467	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	73447	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	62537	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	23159	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102132.D A826_1UG.M Tue Nov 08 09:16:14 2011 MSD1 Page 1

Quantitation Report (Q1)LSC Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102132.D Vial: 32
Acq On : 22 Oct 2011 12:11 am Operator: RJP
Sample : C1110030-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:35 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI082613.D 0.10 =AI082612.D 0.15 =AI082610.D
0.30 =AI082609.D 0.50 =AI082607.D 1.0 =AI082606.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.864	0.704	0.594	0.574	0.662	16.44
3)	T	Freon 12			4.988	4.599	3.876	3.815	4.274	10.49
4)	T	Chloromethane			1.242	1.116	0.995	0.962	1.071	9.28
5)	T	Freon 114			4.054	3.203	2.829	2.843	3.213	13.92
6)	T	Vinyl Chloride	0.948	0.942	1.168	0.988	0.846	0.846	0.954	10.57
7)	T	1,3-butadiene			0.937	0.754	0.585	0.632	0.700	18.41
8)	T	Bromomethane			1.661	1.228	1.100	1.053	1.228	17.99
9)	T	Ethanol				0.338	0.232	0.339	0.284	17.91
10)	T	Acrolein			0.365	0.243	0.245	0.197	0.265	21.22
11)	T	Chloroethane			0.524	0.394	0.367	0.346	0.406	15.34
12)	T	Vinyl Bromide			1.416	1.183	0.990	1.001	1.137	13.74
13)	T	Freon 11			4.139	3.403	2.899	2.964	3.318	13.52
14)	T	Acetone				0.385	0.370	0.295	0.353	9.83
15)	T	Isopropyl alcoh			0.857	0.831	0.722	0.649	0.721	14.02
16)	T	1,1-dichloroeth			1.254	1.102	0.909	0.961	1.048	11.57
17)	T	Freon 113			2.861	2.349	2.086	2.029	2.325	12.84
18)	T	Methylene chlor			1.127	0.945	0.822	0.786	0.903	13.67
19)	T	Allyl chloride			1.110	0.926	0.827	0.783	0.894	13.10
20)	T	Carbon disulfid			3.937	3.065	2.431	2.348	2.837	20.96
21)	T	trans-1,2-dichl			1.724	1.622	1.451	1.430	1.564	7.10
22)	T	methyl tert-but			1.446	1.226	1.126	1.119	1.253	10.03
23)	T	1,1-dichloroeth			2.311	1.964	1.771	1.784	1.977	9.97
24)	T	Vinyl acetate			1.483	1.428	1.330	1.451	1.511	9.88
25)	T	Methyl Ethyl Ke				0.335	0.277	0.321	0.327	9.46
26)	T	cis-1,2-dichlor			1.646	1.498	1.310	1.348	1.464	8.45
27)	T	Hexane			1.435	1.205	1.034	1.121	1.222	11.36
28)	T	Ethyl acetate			1.750	1.523	1.307	1.283	1.426	13.14
29)	T	Chloroform			3.518	3.183	2.796	2.815	3.081	8.71
30)	T	Tetrahydrofuran			0.758	0.538	0.576	0.603	0.624	12.28
31)	T	1,2-dichloroeth			2.145	2.018	1.695	1.710	1.905	9.34
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			0.861	0.755	0.639	0.655	0.738	11.24
34)	T	Cyclohexane			0.379	0.315	0.280	0.290	0.327	11.96
35)	T	Carbon tetrachl	0.932	1.003	1.147	1.032	0.905	0.881	0.996	8.86
36)	T	Benzene			0.993	0.871	0.752	0.765	0.857	10.41
37)	T	Methyl methacry				0.217	0.190	0.194	0.204	8.92
38)	T	1,4-dioxane				0.114	0.119	0.099	0.115	8.24
39)	T	2,2,4-trimethyl			1.022	0.925	0.798	0.781	0.910	11.04
40)	T	Heptane			0.331	0.307	0.265	0.280	0.313	11.43
41)	T	Trichloroethene	0.540	0.519	0.615	0.525	0.459	0.464	0.523	9.36
42)	T	1,2-dichloropro			0.307	0.300	0.257	0.242	0.281	9.25
43)	T	Bromodichlorome			0.959	0.881	0.767	0.749	0.856	9.90
44)	T	cis-1,3-dichlor			0.356	0.360	0.310	0.333	0.371	14.79
45)	T	trans-1,3-dichl			0.239	0.260	0.236	0.263	0.273	14.66
46)	T	1,1,2-trichloro			0.485	0.461	0.371	0.395	0.438	10.17
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.660	0.648	0.576	0.579	0.653	11.12
49)	T	Methyl Isobutyl				0.328	0.336	0.266	0.308	10.06
50)	T	Dibromochlorome			1.266	1.217	1.006	0.978	1.134	10.84
51)	T	Methyl Butyl Ke				0.156	0.185	0.176	0.180	8.11

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI082613.D 0.10 =AI082612.D 0.15 =AI082610.D
0.30 =AI082609.D 0.50 =AI082607.D 1.0 =AI082606.D

		Compound	0.04	0.10	0.15	0.30	0.50	1.0	Avg	%RSD
52)	T	1,2-dibromoetha			0.815	0.793	0.667	0.682	0.764	9.93
53)	T	Tetrachloroethy			0.809	0.754	0.612	0.587	0.692	12.53
54)	T	Chlorobenzene			1.127	1.121	0.929	0.922	1.048	9.95
55)	T	Ethylbenzene			1.229	1.282	1.124	1.233	1.339	15.61
56)	T	m&p-xylene			0.923	1.032	0.936	1.043	1.093	16.86
57)	T	Styrene			0.490	0.578	0.551	0.624	0.658	24.68
58)	T	Bromoform			1.173	1.235	1.016	0.995	1.151	10.91
59)	T	o-xylene			1.248	1.132	1.231	1.134	1.270	11.56
60)	S	Bromofluorobenz	0.524	0.510	0.451	0.482	0.492	0.548	0.505	6.06
61)	T	1,1,2,2-tetrach			0.951	0.940	0.801	0.794	0.901	9.56
62)	T	2-Chlorotoluene			0.740	0.766	0.681	0.752	0.813	16.26
63)	T	4-ethyltoluene			0.786	0.882	0.847	0.946	1.046	28.59
64)	T	1,3,5-trimethyl			0.932	0.971	1.041	1.037	1.147	21.66
65)	T	1,2,4-trimethyl			0.779	0.800	0.757	0.807	0.925	25.03
66)	T	1,3-dichloroben			0.772	0.806	0.725	0.751	0.848	17.10
67)	T	benzyl chloride			0.393	0.409	0.319	0.371	0.420	21.47
68)	T	1,4-dichloroben			0.721	0.733	0.681	0.721	0.807	19.24
69)	T	1,2-dichloroben			0.859	0.837	0.704	0.712	0.841	14.75
70)	T	1,2,4-trichloro			0.349	0.388	0.317	0.366	0.407	22.18
71)	T	Naphthalene			0.588	0.467	0.372	0.450	0.542	25.64
72)	T	Hexachloro-1,3-			0.811	0.726	0.541	0.591	0.698	15.96

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	16280	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	60754	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	52059	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24349	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	9764	1.00	ppb		94
3) Freon 12	2.98	85	66962	1.00	ppb		99
4) Chloromethane	3.13	50	16490	1.00	ppb		100
5) Freon 114	3.13	85	48381	1.00	ppb		97
6) Vinyl Chloride	3.27	62	14803	1.00	ppb		98
7) 1,3-butadiene	3.34	39	10406	1.00	ppb		92
8) Bromomethane	3.59	94	18862	1.00	ppb		97
9) Ethanol	3.88	45	4290	1.02	ppb	#	40
10) Acrolein	4.32	56	4285	1.00	ppb		92
11) Chloroethane	3.71	64	6304	1.00	ppb		99
12) Vinyl Bromide	3.96	106	17645	1.00	ppb		94
13) Freon 11	4.16	101	51518	1.00	ppb		100
14) Acetone	4.40	58	5932	1.00	ppb	#	86
15) Isopropyl alcohol	4.48	45	9113	0.99	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16065	1.00	ppb		96
17) Freon 113	4.95	101	36685	1.00	ppb		98
18) Methylene chloride	5.17	84	14333	1.00	ppb		91
19) Allyl chloride	5.15	41	13845	1.01	ppb		96
20) Carbon disulfide	5.29	76	41057	1.00	ppb		98
21) trans-1,2-dichloroethene	6.00	61	23324	1.00	ppb		90
22) methyl tert-butyl ether	6.11	73	17824	1.00	ppb		85
23) 1,1-dichloroethane	6.39	63	30094	1.00	ppb		98
24) Vinyl acetate	6.49	43	22521	1.01	ppb		98
25) Methyl Ethyl Ketone	6.97	72	4841	1.00	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	22496	1.00	ppb		93
27) Hexane	6.91	57	17828	1.00	ppb		92
28) Ethyl acetate	7.53	43	19607	1.00	ppb		98
29) Chloroform	7.86	83	47326	1.00	ppb		100
30) Tetrahydrofuran	8.09	42	9655	1.01	ppb		96
31) 1,2-dichloroethane	8.94	62	29376	1.00	ppb		99
33) 1,1,1-trichloroethane	8.64	97	42715	1.00	ppb		100
34) Cyclohexane	9.33	56	18159	1.00	ppb	#	78
35) Carbon tetrachloride	9.27	117	59821	1.00	ppb		100
36) Benzene	9.25	78	49705	1.00	ppb		95
37) Methyl methacrylate	11.10	41	9610	1.00	ppb	#	84
38) 1,4-dioxane	11.16	88	6164m	1.03	ppb		
39) 2,2,4-trimethylpentane	10.21	57	51973	1.00	ppb		96
40) Heptane	10.63	43	17976	1.00	ppb		94
41) Trichloroethene	10.72	130	29969	1.00	ppb		98
42) 1,2-dichloropropane	10.84	63	16266	1.00	ppb		98
43) Bromodichloromethane	11.23	83	50839	1.00	ppb		98
44) cis-1,3-dichloropropene	12.14	75	21586	1.00	ppb		96
45) trans-1,3-dichloropropene	12.94	75	15090	1.00	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082602.D Vial: 1
Acq On : 26 Aug 2011 7:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:35:08 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	25356	1.00	ppb	100
48)	Toluene	12.98	92	33217	1.00	ppb	93
49)	Methyl Isobutyl Ketone	12.13	43	11956	1.00	ppb	97
50)	Dibromochloromethane	13.91	129	56873	1.00	ppb	97
51)	Methyl Butyl Ketone	13.52	43	5709	1.05	ppb	99
52)	1,2-dibromoethane	14.15	107	37845	1.00	ppb	100
53)	Tetrachloroethylene	14.00	164	34190	1.00	ppb	98
54)	Chlorobenzene	14.94	112	52166	1.00	ppb	98
55)	Ethylbenzene	15.21	91	66649	1.00	ppb	98
56)	m&p-xylene	15.40	91	111593	2.00	ppb	96
57)	Styrene	15.80	104	32693	1.00	ppb	96
58)	Bromoform	15.88	173	57414	1.00	ppb	99
59)	o-xylene	15.83	91	61443	1.00	ppb	100
61)	1,1,2,2-tetrachloroethane	16.25	83	41056	1.00	ppb	100
62)	2-Chlorotoluene	16.88	91	37448	1.00	ppb	98
63)	4-ethyltoluene	17.02	105	48252	1.00	ppb	98
64)	1,3,5-trimethylbenzene	17.07	105	55879	1.00	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	41146	1.00	ppb	96
66)	1,3-dichlorobenzene	17.73	146	40606	1.00	ppb	98
67)	benzyl chloride	17.80	91	18251	1.00	ppb	96
68)	1,4-dichlorobenzene	17.86	146	39177	1.01	ppb	99
69)	1,2-dichlorobenzene	18.14	146	38371	1.00	ppb	95
70)	1,2,4-trichlorobenzene	19.76	180	16928	1.00	ppb	97
71)	Naphthalene	19.91	128	20603	1.01	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	28950	1.00	ppb	98

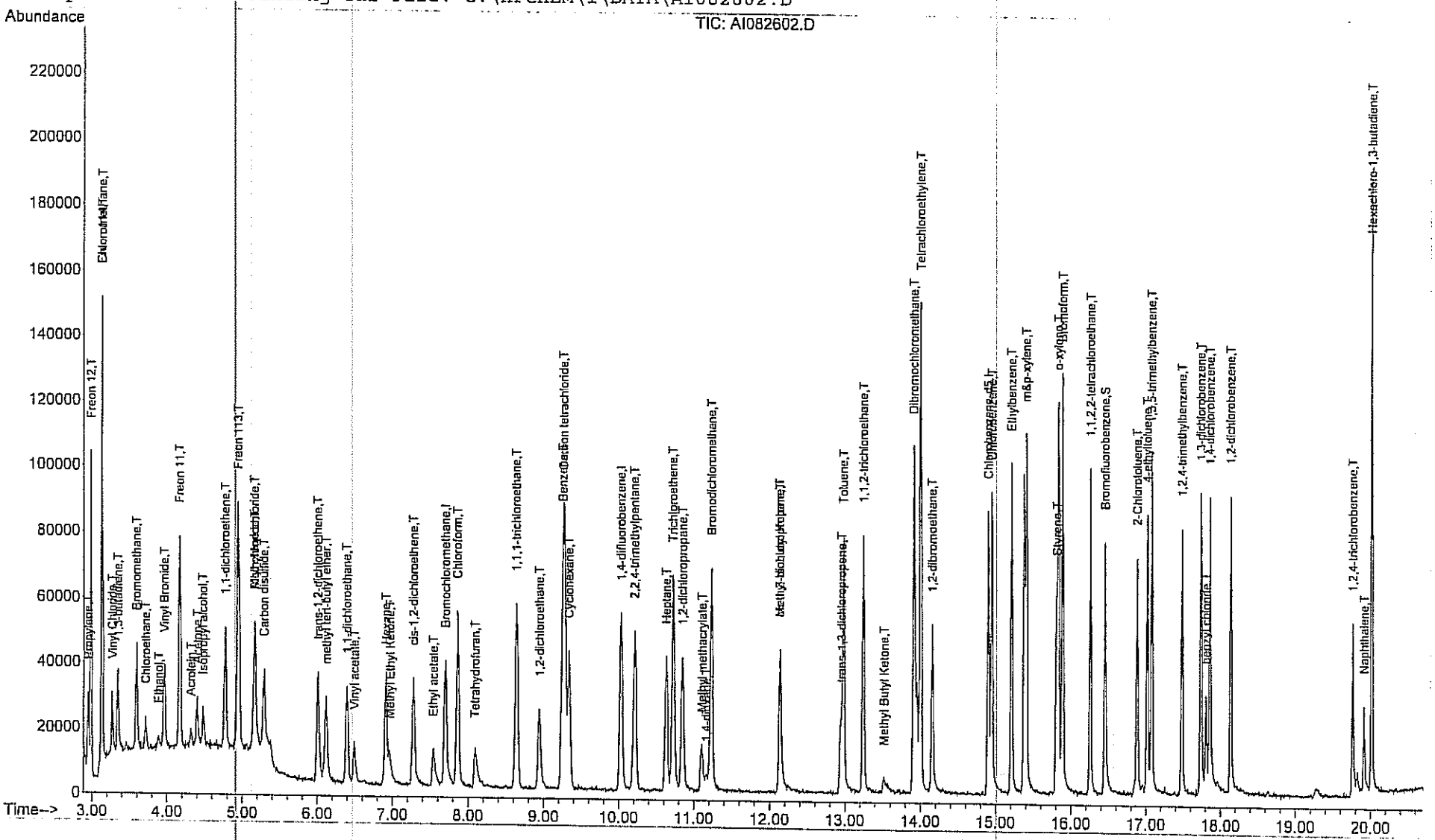
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082602.D
Acq On : 26 Aug 2011 7:47 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:45 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082602.D A826_1UG.M Wed Sep 14 16:59:20 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	16611	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	61419	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	53750	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	27008	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	20427	2.05	ppb		90
3) Freon 12	2.98	85	140219	2.05	ppb		99
4) Chloromethane	3.13	50	35214	2.09	ppb		99
5) Freon 114	3.12	85	107306	2.17	ppb		98
6) Vinyl Chloride	3.26	62	32177	2.13	ppb		100
7) 1,3-butadiene	3.34	39	21131	1.99	ppb		85
8) Bromomethane	3.59	94	39378	2.05	ppb		99
9) Ethanol	3.88	45	8736m	2.04	ppb		
10) Acrolein	4.30	56	9293	2.13	ppb		81
11) Chloroethane	3.71	64	13614	2.12	ppb		98
12) Vinyl Bromide	3.96	106	38022	2.11	ppb		99
13) Freon 11	4.16	101	111008	2.11	ppb		100
14) Acetone	4.39	58	12087	2.00	ppb		97
15) Isopropyl alcohol	4.47	45	21173	2.24	ppb	#	100
16) 1,1-dichloroethene	4.76	96	34877	2.13	ppb		94
17) Freon 113	4.94	101	79534	2.12	ppb		99
18) Methylene chloride	5.16	84	29872	2.05	ppb		92
19) Allyl chloride	5.15	41	29492	2.11	ppb		94
20) Carbon disulfide	5.28	76	89158	2.13	ppb		99
21) trans-1,2-dichloroethene	6.00	61	53362	2.24	ppb		93
22) methyl tert-butyl ether	6.10	73	44308	2.44	ppb		85
23) 1,1-dichloroethane	6.39	63	66996	2.18	ppb		98
24) Vinyl acetate	6.48	43	57727	2.54	ppb		98
25) Methyl Ethyl Ketone	6.94	72	11796m	2.39	ppb		
26) cis-1,2-dichloroethene	7.27	61	50945	2.22	ppb		94
27) Hexane	6.91	57	42784	2.35	ppb		89
28) Ethyl acetate	7.53	43	47432m	2.38	ppb		
29) Chloroform	7.86	83	104447	2.16	ppb		100
30) Tetrahydrofuran	8.08	42	21844m	2.24	ppb		
31) 1,2-dichloroethane	8.93	62	65675	2.19	ppb		97
33) 1,1,1-trichloroethane	8.64	97	96671	2.24	ppb		100
34) Cyclohexane	9.33	56	44211	2.41	ppb		94
35) Carbon tetrachloride	9.27	117	130803	2.16	ppb		100
36) Benzene	9.24	78	110453	2.20	ppb		98
37) Methyl methacrylate	11.09	41	28220m	2.90	ppb		
38) 1,4-dioxane	11.13	88	14392m	2.37	ppb		
39) 2,2,4-trimethylpentane	10.21	57	122621	2.33	ppb		95
40) Heptane	10.63	43	44082	2.43	ppb		94
41) Trichloroethene	10.72	130	66676	2.20	ppb		97
42) 1,2-dichloropropane	10.85	63	36325	2.21	ppb		99
43) Bromodichloromethane	11.23	83	114078	2.22	ppb		99
44) cis-1,3-dichloropropene	12.13	75	56690	2.60	ppb		95
45) trans-1,3-dichloropropene	12.94	75	41654	2.74	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D Vial: 2
Acq On : 26 Aug 2011 8:21 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 20:42:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	57051	2.23	ppb	98
48)	Toluene	12.97	92	82842	2.42	ppb	95
49)	Methyl Isobutyl Ketone	12.12	43	34887m	2.83	ppb	
50)	Dibromochloromethane	13.91	129	132485	2.26	ppb	98
51)	Methyl Butyl Ketone	13.49	43	19988m	3.55	ppb	
52)	1,2-dibromoethane	14.15	107	92387	2.37	ppb	99
53)	Tetrachloroethylene	14.00	164	78777	2.23	ppb	99
54)	Chlorobenzene	14.94	112	124601	2.32	ppb	97
55)	Ethylbenzene	15.21	91	182543	2.65	ppb	99
56)	m&p-xylene	15.37	91	300023	5.21	ppb	99
57)	Styrene	15.80	104	98914	2.93	ppb	96
58)	Bromoform	15.88	173	141874	2.39	ppb	99
59)	o-xylene	15.83	91	162941	2.57	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	108371	2.56	ppb	100
62)	2-Chlorotoluene	16.88	91	111607	2.89	ppb	98
63)	4-ethyltoluene	17.02	105	166899	3.35	ppb	96
64)	1,3,5-trimethylbenzene	17.07	105	167589	2.90	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	143393	3.38	ppb	99
66)	1,3-dichlorobenzene	17.73	146	118962	2.84	ppb	99
67)	benzyl chloride	17.81	91	62684	3.34	ppb	97
68)	1,4-dichlorobenzene	17.86	146	116012	2.89	ppb	99
69)	1,2-dichlorobenzene	18.14	146	111208	2.81	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	60691	3.47	ppb	97
71)	Naphthalene	19.91	128	81125m	3.84	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	86971	2.91	ppb	97

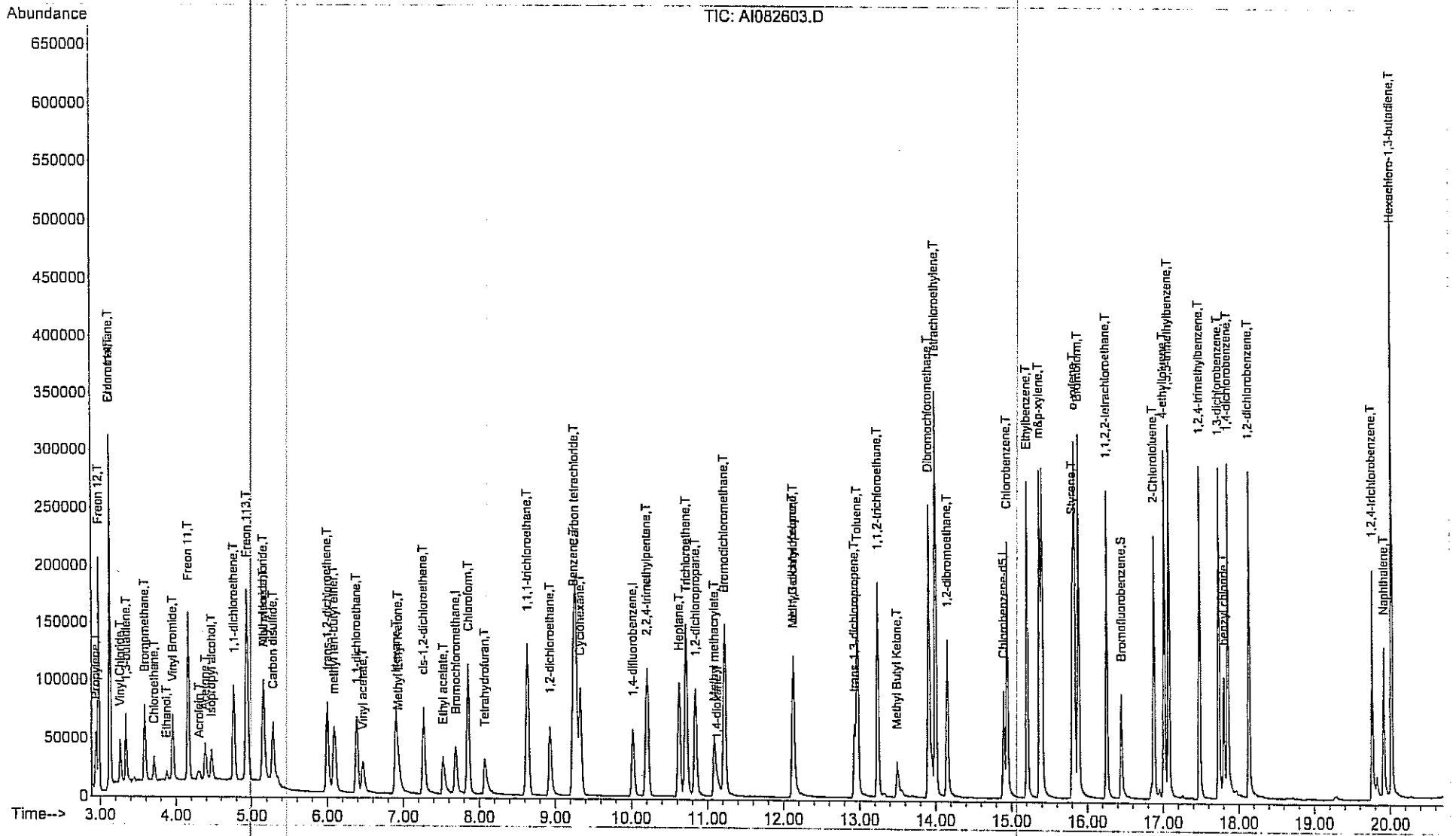
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082603.D
Acq On : 26 Aug 2011 8:21 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:59 2011

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082603.D A826_1UG.M Wed Sep 14 16:59:23 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D Vial: 3
Acq On : 26 Aug 2011 8:53 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	17234	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	65753	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	59133	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	31507	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	16022	1.55	ppb		94
3) Freon 12	2.98	85	107105	1.51	ppb		98
4) Chloromethane	3.13	50	27211	1.56	ppb		99
5) Freon 114	3.13	85	80658	1.57	ppb		99
6) Vinyl Chloride	3.27	62	23915	1.53	ppb		98
7) 1,3-butadiene	3.34	39	16942	1.54	ppb		97
8) Bromomethane	3.59	94	29495	1.48	ppb		97
9) Ethanol	3.88	45	6422m	1.44	ppb		
10) Acrolein	4.31	56	6748	1.49	ppb		93
11) Chloroethane	3.71	64	10203	1.53	ppb		96
12) Vinyl Bromide	3.96	106	28163	1.51	ppb		97
13) Freon 11	4.17	101	81728	1.50	ppb		100
14) Acetone	4.39	58	9091	1.45	ppb		99
15) Isopropyl alcohol	4.48	45	16282	1.66	ppb	#	100
16) 1,1-dichloroethene	4.77	96	26185	1.54	ppb		95
17) Freon 113	4.94	101	57688	1.49	ppb		97
18) Methylene chloride	5.17	84	21705	1.44	ppb		93
19) Allyl chloride	5.15	41	21506	1.48	ppb		95
20) Carbon disulfide	5.29	76	66092	1.52	ppb		100
21) trans-1,2-dichloroethene	6.00	61	40103	1.62	ppb		91
22) methyl tert-butyl ether	6.10	73	32745	1.74	ppb		87
23) 1,1-dichloroethane	6.40	63	52093	1.64	ppb		98
24) Vinyl acetate	6.49	43	42333	1.79	ppb		100
25) Methyl Ethyl Ketone	6.95	72	9014	1.76	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	37392	1.57	ppb		88
27) Hexane	6.91	57	32270	1.71	ppb		89
28) Ethyl acetate	7.53	43	32660m	1.58	ppb		
29) Chloroform	7.86	83	78351	1.56	ppb		98
30) Tetrahydrofuran	8.08	42	15786m	1.56	ppb		
31) 1,2-dichloroethane	8.94	62	48703	1.57	ppb		99
33) 1,1,1-trichloroethane	8.64	97	72020	1.56	ppb		98
34) Cyclohexane	9.33	56	33263	1.69	ppb		94
35) Carbon tetrachloride	9.27	117	98668	1.52	ppb		99
36) Benzene	9.24	78	84721	1.57	ppb		98
37) Methyl methacrylate	11.10	41	18722m	1.80	ppb		
38) 1,4-dioxane	11.15	88	12241	1.89	ppb		90
39) 2,2,4-trimethylpentane	10.21	57	92336	1.64	ppb		95
40) Heptane	10.63	43	33224	1.71	ppb		95
41) Trichloroethene	10.72	130	50857	1.57	ppb		97
42) 1,2-dichloropropane	10.84	63	28091	1.60	ppb		100
43) Bromodichloromethane	11.23	83	84091	1.53	ppb		100
44) cis-1,3-dichloropropene	12.14	75	40112	1.72	ppb		96
45) trans-1,3-dichloropropene	12.94	75	29789	1.83	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082604.D Vial: 3
Acq On : 26 Aug 2011 8:53 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 21:14:42 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	44366	1.62	ppb	98
48)	Toluene	12.97	92	60762	1.61	ppb	93
49)	Methyl Isobutyl Ketone	12.12	43	25186m	1.86	ppb	
50)	Dibromochloromethane	13.91	129	98172	1.52	ppb	98
51)	Methyl Butyl Ketone	13.50	43	17248m	2.79	ppb	
52)	1,2-dibromoethane	14.15	107	68175	1.59	ppb	100
53)	Tetrachloroethylene	14.00	164	58542	1.51	ppb	99
54)	Chlorobenzene	14.95	112	91490	1.55	ppb	97
55)	Ethylbenzene	15.21	91	130175	1.72	ppb	98
56)	m&p-xylene	15.40	91	218103	3.44	ppb	98
57)	Styrene	15.80	104	69603	1.88	ppb	94
58)	Bromoform	15.88	173	103302	1.58	ppb	99
59)	o-xylene	15.83	91	120503	1.73	ppb	97
61)	1,1,2,2-tetrachloroethane	16.25	83	80854	1.73	ppb	99
62)	2-Chlorotoluene	16.88	91	80034	1.88	ppb	99
63)	4-ethyltoluene	17.02	105	111885	2.04	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	119095	1.88	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	95053	2.03	ppb	98
66)	1,3-dichlorobenzene	17.73	146	82210	1.78	ppb	99
67)	benzyl chloride	17.80	91	39261	1.90	ppb	97
68)	1,4-dichlorobenzene	17.86	146	80606	1.82	ppb	99
69)	1,2-dichlorobenzene	18.14	146	79880	1.83	ppb	99
70)	1,2,4-trichlorobenzene	19.76	180	40600	2.11	ppb	98
71)	Naphthalene	19.92	128	54978	2.36	ppb	99
72)	Hexachloro-1,3-butadiene	20.02	225	62941	1.91	ppb	97

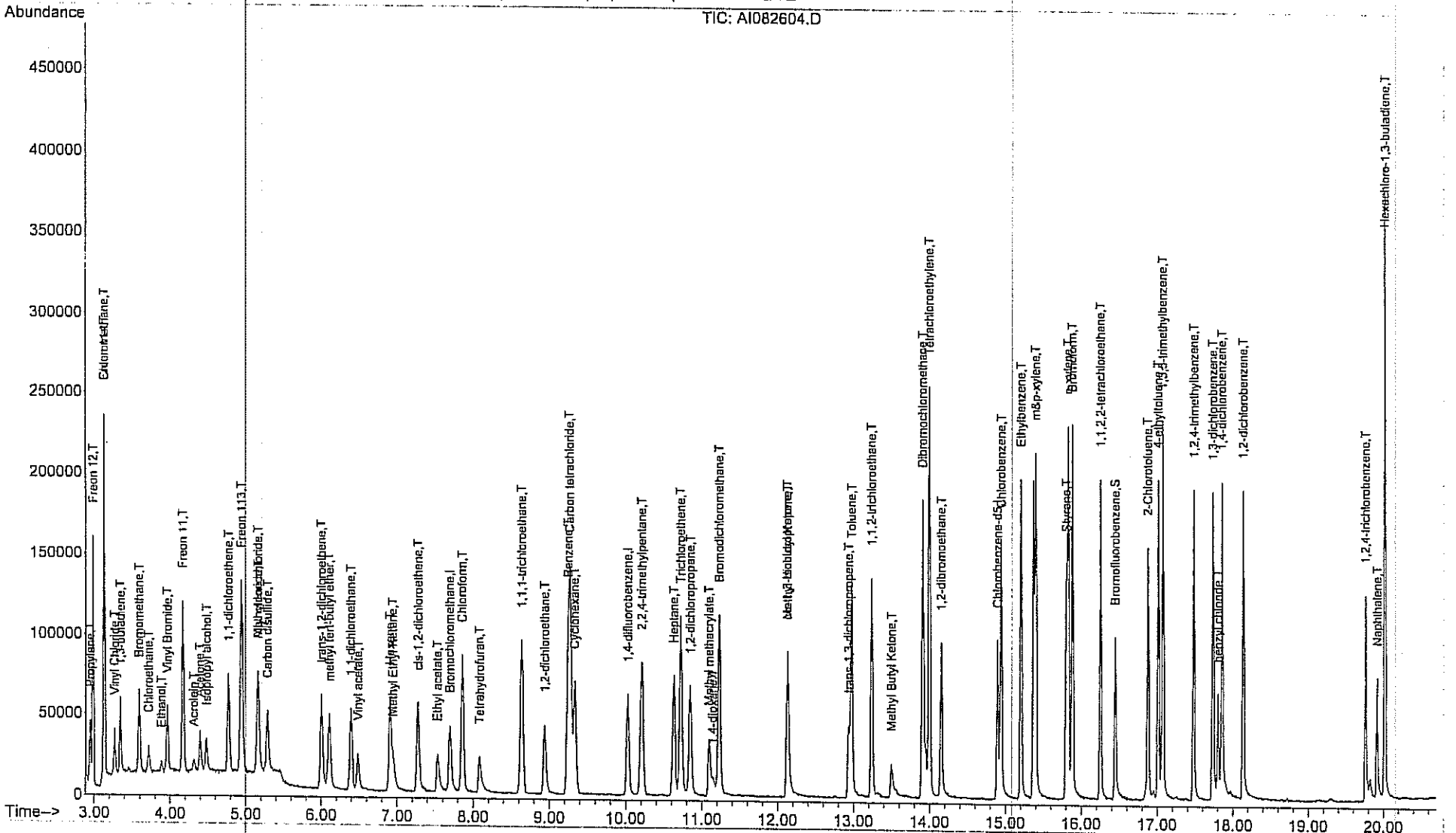
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082604.D
Acq On : 26 Aug 2011 8:53 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:48 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082604.D A826_1UG.M Wed Sep 14 16:59:26 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17503	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	67673	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	60322	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	33027	1.17	ppb		0.00
Spiked Amount 1.000	Range 70 = 130		Recovery = 117.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	10042	0.96	ppb		93
3) Freon 12	2.98	85	66766	0.93	ppb		97
4) Chloromethane	3.13	50	16838	0.95	ppb		98
5) Freon 114	3.13	85	49768	0.96	ppb		97
6) Vinyl Chloride	3.27	62	14813	0.93	ppb		98
7) 1,3-butadiene	3.34	39	11065	0.99	ppb		98
8) Bromomethane	3.59	94	18431	0.91	ppb		98
9) Ethanol	3.89	45	5938m	1.31	ppb		
10) Acrolein	4.32	56	3440	0.75	ppb		91
11) Chloroethane	3.72	64	6063	0.89	ppb		98
12) Vinyl Bromide	3.96	106	17521	0.92	ppb		100
13) Freon 11	4.17	101	51887	0.94	ppb		99
14) Acetone	4.40	58	5160	0.81	ppb	#	82
15) Isopropyl alcohol	4.48	45	11363	1.14	ppb	#	100
16) 1,1-dichloroethene	4.77	96	16815	0.97	ppb		92
17) Freon 113	4.94	101	35518	0.90	ppb		95
18) Methylene chloride	5.17	84	13749	0.90	ppb		94
19) Allyl chloride	5.15	41	13708	0.93	ppb		95
20) Carbon disulfide	5.29	76	41096	0.93	ppb		100
21) trans-1,2-dichloroethene	6.01	61	25035	1.00	ppb		92
22) methyl tert-butyl ether	6.12	73	19580	1.02	ppb		86
23) 1,1-dichloroethane	6.40	63	31230	0.97	ppb		97
24) Vinyl acetate	6.49	43	25405	1.06	ppb		98
25) Methyl Ethyl Ketone	6.95	72	5610m	1.08	ppb		
26) cis-1,2-dichloroethene	7.28	61	23586	0.98	ppb		92
27) Hexane	6.91	57	19620	1.02	ppb		89
28) Ethyl acetate	7.54	43	22463	1.07	ppb		97
29) Chloroform	7.86	83	49279	0.97	ppb		100
30) Tetrahydrofuran	8.09	42	10556	1.03	ppb		93
31) 1,2-dichloroethane	8.95	62	29933	0.95	ppb		97
33) 1,1,1-trichloroethane	8.64	97	44354	0.93	ppb		99
34) Cyclohexane	9.34	56	19640	0.97	ppb		94
35) Carbon tetrachloride	9.27	117	59612	0.89	ppb		100
36) Benzene	9.25	78	51777	0.94	ppb		96
37) Methyl methacrylate	11.10	41	13122m	1.23	ppb		
38) 1,4-dioxane	11.16	88	6706	1.00	ppb		96
39) 2,2,4-trimethylpentane	10.21	57	52826	0.91	ppb		97
40) Heptane	10.63	43	18947	0.95	ppb		93
41) Trichloroethene	10.73	130	31367	0.94	ppb		98
42) 1,2-dichloropropane	10.85	63	16359	0.90	ppb		100
43) Bromodichloromethane	11.23	83	50677	0.89	ppb		99
44) cis-1,3-dichloropropene	12.14	75	22511	0.94	ppb		96
45) trans-1,3-dichloropropene	12.94	75	17795	1.06	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D Vial: 5
Acq On : 26 Aug 2011 9:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:19:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.24	97	26740	0.95	ppb	99
48)	Toluene	12.98	92	34938	0.91	ppb	94
49)	Methyl Isobutyl Ketone	12.14	43	16021	1.16	ppb	96
50)	Dibromochloromethane	13.91	129	59005	0.90	ppb	98
51)	Methyl Butyl Ketone	13.50	43	10637m	1.68	ppb	
52)	1,2-dibromoethane	14.16	107	41120	0.94	ppb	99
53)	Tetrachloroethylene	14.00	164	35394	0.89	ppb	97
54)	Chlorobenzene	14.94	112	55601	0.92	ppb	95
55)	Ethylbenzene	15.21	91	74366	0.96	ppb	99
56)	m&p-xylene	15.40	91	125879	1.95	ppb	98
57)	Styrene	15.80	104	37636	0.99	ppb	95
58)	Bromoform	15.88	173	60011	0.90	ppb	99
59)	o-xylene	15.83	91	68416	0.96	ppb	96
61)	1,1,2,2-tetrachloroethane	16.25	83	47879	1.01	ppb	99
62)	2-Chlorotoluene	16.88	91	45387	1.05	ppb	98
63)	4-ethyltoluene	17.02	105	57064	1.02	ppb	97
64)	1,3,5-trimethylbenzene	17.08	105	62550	0.97	ppb	95
65)	1,2,4-trimethylbenzene	17.48	105	48670	1.02	ppb	96
66)	1,3-dichlorobenzene	17.74	146	45309	0.96	ppb	97
67)	benzyl chloride	17.80	91	22380	1.06	ppb	98
68)	1,4-dichlorobenzene	17.85	146	43475	0.96	ppb	97
69)	1,2-dichlorobenzene	18.14	146	42920	0.97	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	22099	1.13	ppb	99
71)	Naphthalene	19.91	128	27126	1.14	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	35674	1.06	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

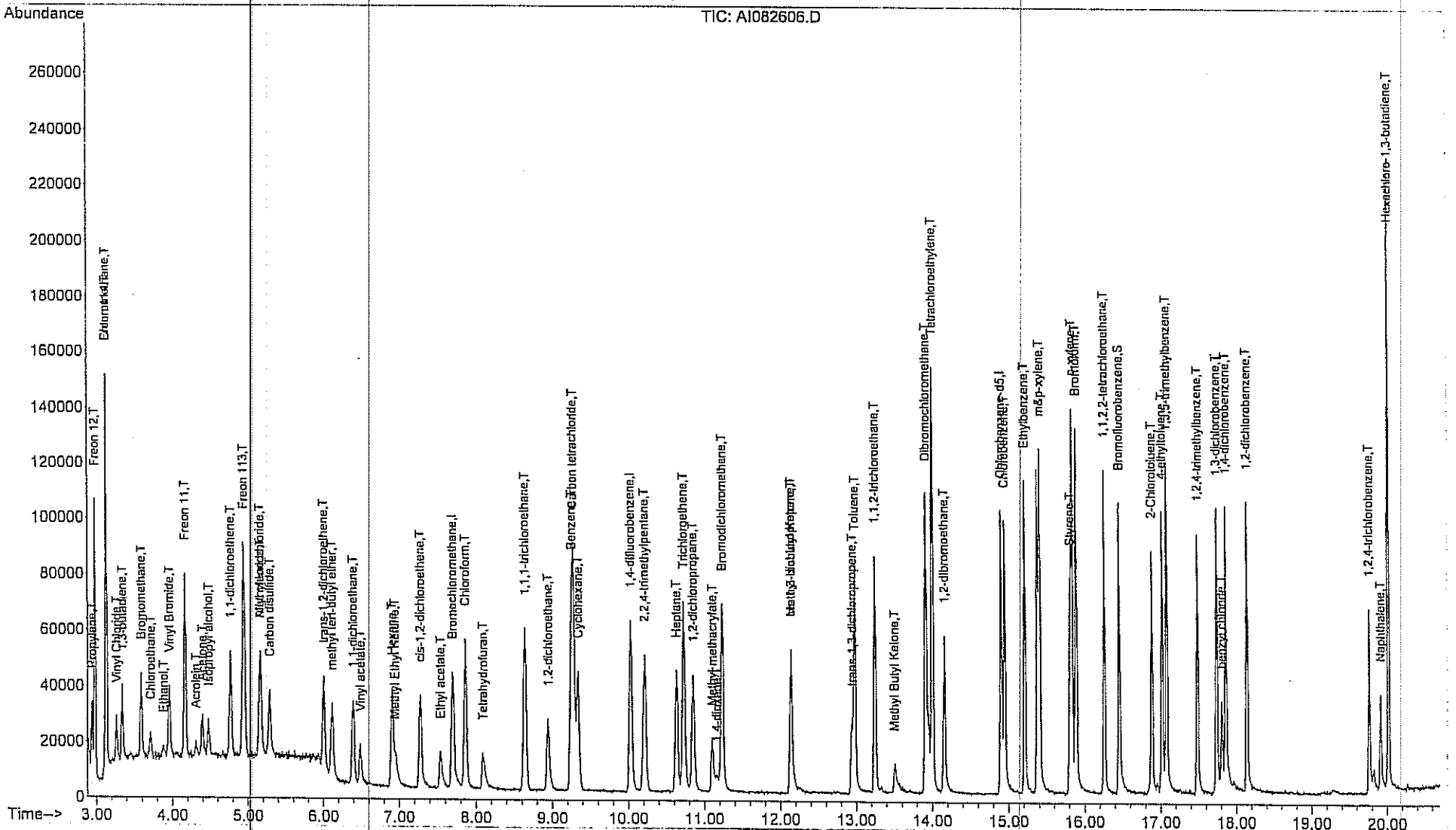
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082606.D
Acq On : 26 Aug 2011 9:58 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082606.D A826_1UG.M Wed Sep 14 16:59:29 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	20287	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	76621	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	66272	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	32611	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	6024	0.50	ppb		93
3) Freon 12	2.98	85	39312	0.47	ppb		99
4) Chloromethane	3.13	50	10095	0.49	ppb		98
5) Freon 114	3.13	85	28700	0.48	ppb		98
6) Vinyl Chloride	3.27	62	8586	0.47	ppb		100
7) 1,3-butadiene	3.34	39	5936	0.46	ppb		90
8) Bromomethane	3.59	94	11161	0.47	ppb		99
9) Ethanol	3.88	45	2354	0.45	ppb	#	43
10) Acrolein	4.31	56	2488	0.47	ppb		98
11) Chloroethane	3.71	64	3720	0.47	ppb		98
12) Vinyl Bromide	3.96	106	10045	0.46	ppb		99
13) Freon 11	4.17	101	29406	0.46	ppb		99
14) Acetone	4.40	58	3751	0.51	ppb	#	61
15) Isopropyl alcohol	4.48	45	7325	0.64	ppb	#	100
16) 1,1-dichloroethene	4.77	96	9224	0.46	ppb		93
17) Freon 113	4.94	101	21159	0.46	ppb		97
18) Methylene chloride	5.17	84	8343	0.47	ppb		91
19) Allyl chloride	5.16	41	8384	0.49	ppb		100
20) Carbon disulfide	5.29	76	24655	0.48	ppb		96
21) trans-1,2-dichloroethene	6.00	61	14718	0.51	ppb		93
22) methyl tert-butyl ether	6.11	73	11425	0.51	ppb		87
23) 1,1-dichloroethane	6.40	63	17963	0.48	ppb		96
24) Vinyl acetate	6.49	43	13490	0.49	ppb		98
25) Methyl Ethyl Ketone	6.95	72	2813	0.47	ppb	#	100
26) cis-1,2-dichloroethene	7.28	61	13290	0.47	ppb		92
27) Hexane	6.91	57	10487	0.47	ppb		98
28) Ethyl acetate	7.54	43	13259	0.54	ppb		98
29) Chloroform	7.86	83	28360	0.48	ppb		100
30) Tetrahydrofuran	8.10	42	5845	0.49	ppb		94
31) 1,2-dichloroethane	8.94	62	17189	0.47	ppb		97
33) 1,1,1-trichloroethane	8.64	97	24495	0.45	ppb		96
34) Cyclohexane	9.34	56	10725	0.47	ppb		94
35) Carbon tetrachloride	9.28	117	34661	0.46	ppb		100
36) Benzene	9.25	78	28819	0.46	ppb		97
37) Methyl methacrylate	11.10	41	7294	0.60	ppb		93
38) 1,4-dioxane	11.17	88	4553	0.60	ppb		87
39) 2,2,4-trimethylpentane	10.21	57	30568	0.47	ppb		98
40) Heptane	10.63	43	10163	0.45	ppb		92
41) Trichloroethene	10.72	130	17597	0.47	ppb		98
42) 1,2-dichloropropane	10.85	63	9845	0.48	ppb		97
43) Bromodichloromethane	11.23	83	29368	0.46	ppb		97
44) cis-1,3-dichloropropene	12.14	75	11858	0.44	ppb		93
45) trans-1,3-dichloropropene	12.94	75	9050	0.48	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082607.D Vial: 6
Acq On : 26 Aug 2011 10:31 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 22:52:28 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.25	97	14207	0.44	ppb	95
48)	Toluene	12.98	92	19073	0.45	ppb	89
49)	Methyl Isobutyl Ketone	12.14	43	11124m	0.73	ppb	
50)	Dibromochloromethane	13.91	129	33332	0.46	ppb	99
51)	Methyl Butyl Ketone	13.50	43	6119	0.88	ppb	96
52)	1,2-dibromoethane	14.16	107	22094	0.46	ppb	99
53)	Tetrachloroethylene	14.00	164	20279	0.47	ppb	99
54)	Chlorobenzene	14.95	112	30774	0.46	ppb	99
55)	Ethylbenzene	15.21	91	37236	0.44	ppb	100
56)	m&p-xylene	15.40	91	62003	0.87	ppb	97
57)	Styrene	15.81	104	18262	0.44	ppb	94
58)	Bromoform	15.89	173	33673	0.46	ppb	99
59)	o-xylene	15.83	91	40774	0.52	ppb	92
61)	1,1,2,2-tetrachloroethane	16.26	83	26547	0.51	ppb	98
62)	2-Chlorotoluene	16.88	91	22557	0.47	ppb	97
63)	4-ethyltoluene	17.02	105	28072	0.46	ppb	95
64)	1,3,5-trimethylbenzene	17.08	105	34496	0.48	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	25068	0.48	ppb	99
66)	1,3-dichlorobenzene	17.73	146	24023	0.46	ppb	98
67)	benzyl chloride	17.81	91	10565	0.46	ppb	93
68)	1,4-dichlorobenzene	17.86	146	22551	0.46	ppb	98
69)	1,2-dichlorobenzene	18.14	146	23314	0.48	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	10520	0.49	ppb	99
71)	Naphthalene	19.91	128	12326	0.47	ppb	96
72)	Hexachloro-1,3-butadiene	20.01	225	17921	0.49	ppb	96

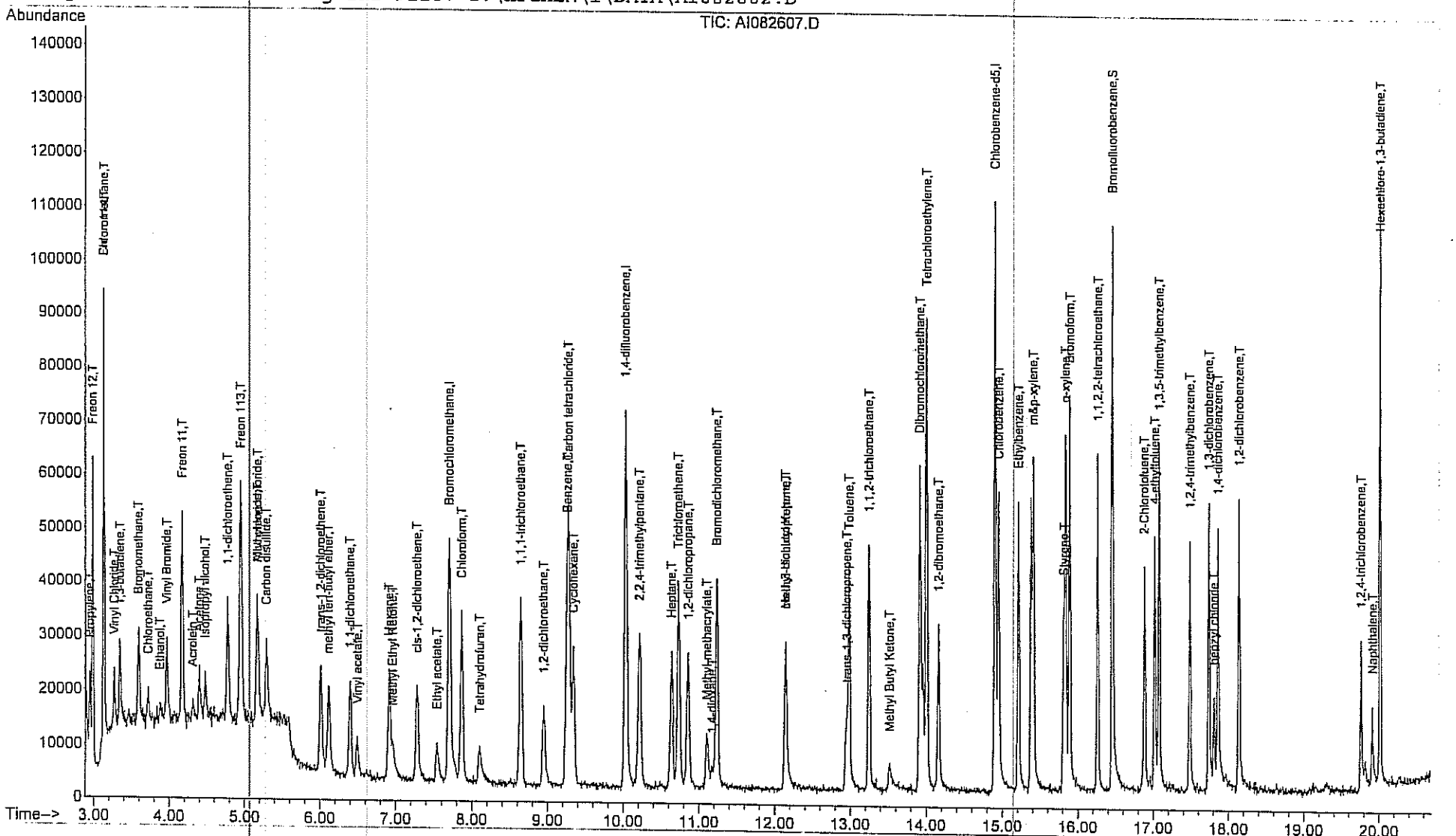
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082607.D
Acq On : 26 Aug 2011 10:31 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:49 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082607.D A826_1UG.M Wed Sep 14 16:59:32 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	17624	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.04	114	64788	1.00	ppb		0.01
47) Chlorobenzene-d5	14.90	117	54147	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	26102	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.95	41	3723	0.35	ppb		98
3) Freon 12	2.98	85	24318	0.34	ppb		97
4) Chloromethane	3.14	50	5898	0.33	ppb		96
5) Freon 114	3.13	85	16934	0.32	ppb		97
6) Vinyl Chloride	3.27	62	5224	0.33	ppb		99
7) 1,3-butadiene	3.34	39	3987	0.35	ppb		97
8) Bromomethane	3.60	94	6493	0.32	ppb		100
9) Ethanol	3.89	45	1786m	0.39	ppb		
10) Acrolein	4.32	56	1285	0.28	ppb		98
11) Chloroethane	3.72	64	2083	0.31	ppb		82
12) Vinyl Bromide	3.97	106	6257	0.33	ppb		97
13) Freon 11	4.17	101	17994	0.32	ppb		97
14) Acetone	4.40	58	2036	0.32	ppb	#	67
15) Isopropyl alcohol	4.48	45	4396m	0.44	ppb		
16) 1,1-dichloroethene	4.78	96	5824	0.33	ppb		91
17) Freon 113	4.95	101	12420	0.31	ppb		97
18) Methylene chloride	5.17	84	4994	0.32	ppb		93
19) Allyl chloride	5.16	41	4897	0.33	ppb		97
20) Carbon disulfide	5.29	76	16206	0.36	ppb		97
21) trans-1,2-dichloroethene	6.01	61	8578	0.34	ppb		94
22) methyl tert-butyl ether	6.12	73	6480	0.34	ppb		89
23) 1,1-dichloroethane	6.40	63	10384	0.32	ppb		99
24) Vinyl acetate	6.49	43	7548	0.31	ppb		98
25) Methyl Ethyl Ketone	6.98	72	1771	0.34	ppb	#	100
26) cis-1,2-dichloroethene	7.29	61	7921	0.33	ppb		92
27) Hexane	6.92	57	6369	0.33	ppb		89
28) Ethyl acetate	7.55	43	8052	0.38	ppb		100
29) Chloroform	7.87	83	16831	0.33	ppb		99
30) Tetrahydrofuran	8.11	42	2843	0.27	ppb		86
31) 1,2-dichloroethane	8.95	62	10672	0.34	ppb		99
33) 1,1,1-trichloroethane	8.65	97	14678	0.32	ppb		100
34) Cyclohexane	9.34	56	6123	0.32	ppb		90
35) Carbon tetrachloride	9.28	117	20058	0.31	ppb		98
36) Benzene	9.25	78	16931	0.32	ppb		97
37) Methyl methacrylate	11.11	41	4223	0.41	ppb		86
38) 1,4-dioxane	11.20	88	2208m	0.35	ppb		
39) 2,2,4-trimethylpentane	10.21	57	17977	0.32	ppb		97
40) Heptane	10.64	43	5968	0.31	ppb		92
41) Trichloroethene	10.73	130	10203	0.32	ppb		100
42) 1,2-dichloropropane	10.85	63	5829	0.34	ppb		96
43) Bromodichloromethane	11.24	83	17124	0.32	ppb		99
44) cis-1,3-dichloropropene	12.14	75	6991	0.30	ppb		97
45) trans-1,3-dichloropropene	12.94	75	5053	0.31	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D Vial: 8
Acq On : 26 Aug 2011 11:37 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 26 23:57:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
46)	1,1,2-trichloroethane	13.25	97	8953	0.33	ppb		100
48)	Toluene	12.98	92	10529	0.30	ppb		93
49)	Methyl Isobutyl Ketone	12.14	43	5332	0.43	ppb		100
50)	Dibromochloromethane	13.92	129	19772	0.33	ppb		99
51)	Methyl Butyl Ketone	13.58	43	2536	0.45	ppb	#	40
52)	1,2-dibromoethane	14.16	107	12880	0.33	ppb		95
53)	Tetrachloroethylene	14.00	164	12251	0.34	ppb		98
54)	Chlorobenzene	14.95	112	18202	0.34	ppb		98
55)	Ethylbenzene	15.21	91	20832	0.30	ppb		99
56)	m&p-xylene	15.40	91	33533m	0.58	ppb		
57)	Styrene	15.81	104	9383	0.28	ppb		99
58)	Bromoform	15.89	173	20064	0.34	ppb		100
59)	o-xylene	15.83	91	18387	0.29	ppb		99
61)	1,1,2,2-tetrachloroethane	16.26	83	15265	0.36	ppb		98
62)	2-Chlorotoluene	16.88	91	12444	0.32	ppb		98
63)	4-ethyltoluene	17.02	105	14326	0.29	ppb		98
64)	1,3,5-trimethylbenzene	17.08	105	15771	0.27	ppb		91
65)	1,2,4-trimethylbenzene	17.49	105	12998	0.30	ppb		99
66)	1,3-dichlorobenzene	17.74	146	13094	0.31	ppb		99
67)	benzyl chloride	17.81	91	6638	0.35	ppb		97
68)	1,4-dichlorobenzene	17.86	146	11905	0.29	ppb		97
69)	1,2-dichlorobenzene	18.14	146	13593	0.34	ppb		97
70)	1,2,4-trichlorobenzene	19.76	180	6309	0.36	ppb		90
71)	Naphthalene	19.91	128	7579	0.36	ppb		96
72)	Hexachloro-1,3-butadiene	20.02	225	11800	0.39	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

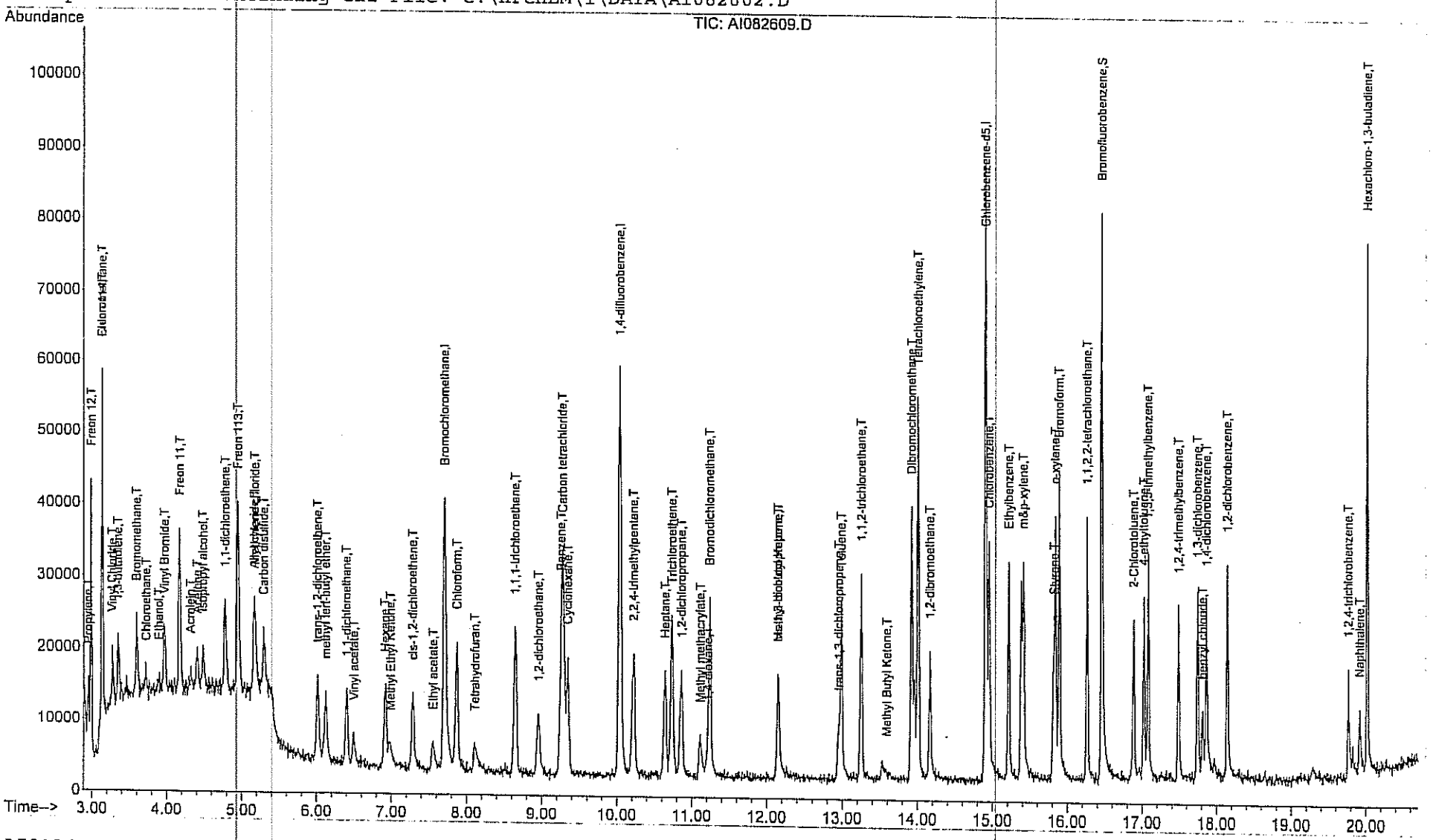
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082609.D
Acq On : 26 Aug 2011 11:37 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:51 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082609.D A826_1UG.M Wed Sep 14 16:59:35 2011 MSD1

Centek Laboratories, LLC

Data File : C:\HPCHEM\1\DATA\AI082610.D
Acq On : 27 Aug 2011 12:09 am
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	16666	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	63613	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	51764	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	23358	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
2) Propylene	2.95	41	2161	0.22	ppb	92
3) Freon 12	2.99	85	12469	0.18	ppb	96
4) Chloromethane	3.13	50	3106m	0.18	ppb	
5) Freon 114	3.13	85	10134	0.20	ppb	98
6) Vinyl Chloride	3.27	62	2919	0.19	ppb	88
7) 1,3-butadiene	3.35	39	2343	0.22	ppb	99
8) Bromomethane	3.59	94	4153	0.22	ppb	90
10) Acrolein	4.33	56	913m	0.21	ppb	
11) Chloroethane	3.71	64	1311	0.20	ppb	87
12) Vinyl Bromide	3.97	106	3539	0.20	ppb	97
13) Freon 11	4.17	101	10347	0.20	ppb	97
15) Isopropyl alcohol	4.48	45	2142m	0.23	ppb	
16) 1,1-dichloroethene	4.78	96	3136	0.19	ppb	91
17) Freon 113	4.95	101	7151	0.19	ppb	95
18) Methylene chloride	5.18	84	2817	0.19	ppb	98
19) Allyl chloride	5.16	41	2776	0.20	ppb	95
20) Carbon disulfide	5.30	76	9842	0.23	ppb	96
21) trans-1,2-dichloroethene	6.01	61	4311	0.18	ppb	87
22) methyl tert-butyl ether	6.11	73	3616	0.20	ppb	82
23) 1,1-dichloroethane	6.40	63	5777	0.19	ppb	99
24) Vinyl acetate	6.50	43	3708	0.16	ppb	92
26) cis-1,2-dichloroethene	7.28	61	4114	0.18	ppb	93
27) Hexane	6.92	57	3587	0.20	ppb	96
28) Ethyl acetate	7.56	43	4376	0.22	ppb	97
29) Chloroform	7.86	83	8795	0.18	ppb	97
30) Tetrahydrofuran	8.12	42	1894	0.19	ppb	92
31) 1,2-dichloroethane	8.96	62	5362	0.18	ppb	97
33) 1,1,1-trichloroethane	8.64	97	8214	0.18	ppb	99
34) Cyclohexane	9.34	56	3620	0.19	ppb #	65
35) Carbon tetrachloride	9.28	117	10944	0.17	ppb	96
36) Benzene	9.25	78	9471	0.18	ppb	97
39) 2,2,4-trimethylpentane	10.22	57	9749	0.18	ppb	98
40) Heptane	10.64	43	3161	0.17	ppb	97
41) Trichloroethene	10.73	130	5864	0.19	ppb	90
42) 1,2-dichloropropane	10.85	63	2929	0.17	ppb	96
43) Bromodichloromethane	11.23	83	9147	0.17	ppb	99
44) cis-1,3-dichloropropene	12.15	75	3399	0.15	ppb	96
45) trans-1,3-dichloropropene	12.95	75	2277	0.14	ppb	98
46) 1,1,2-trichloroethane	13.25	97	4627	0.17	ppb	99
48) Toluene	12.99	92	5126	0.16	ppb	94
50) Dibromochloromethane	13.91	129	9833	0.17	ppb	99
52) 1,2-dibromoethane	14.16	107	6326	0.17	ppb	99
53) Tetrachloroethylene	14.01	164	6278	0.18	ppb	99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082610.D Vial: 9
Acq On : 27 Aug 2011 12:09 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 00:30:23 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
54)	Chlorobenzene	14.95	112	8754	0.17	ppb		98
55)	Ethylbenzene	15.21	91	9540	0.14	ppb		97
56)	m&p-xylene	15.41	91	14338	0.26	ppb		97
57)	Styrene	15.81	104	3808	0.12	ppb		89
58)	Bromoform	15.89	173	9108	0.16	ppb		97
59)	o-xylene	15.83	91	9694	0.16	ppb		85
61)	1,1,2,2-tetrachloroethane	16.25	83	7384	0.18	ppb		98
62)	2-Chlorotoluene	16.88	91	5743	0.15	ppb		94
63)	4-ethyltoluene	17.02	105	6105	0.13	ppb		97
64)	1,3,5-trimethylbenzene	17.08	105	7237	0.13	ppb		92
65)	1,2,4-trimethylbenzene	17.49	105	6051	0.15	ppb		96
66)	1,3-dichlorobenzene	17.74	146	5997	0.15	ppb		98
67)	benzyl chloride	17.81	91	3055	0.17	ppb		99
68)	1,4-dichlorobenzene	17.86	146	5602	0.14	ppb		98
69)	1,2-dichlorobenzene	18.14	146	6667	0.17	ppb		100
70)	1,2,4-trichlorobenzene	19.76	180	2708	0.16	ppb	#	80
71)	Naphthalene	19.92	128	4566	0.22	ppb		97
72)	Hexachloro-1,3-butadiene	20.01	225	6296	0.22	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

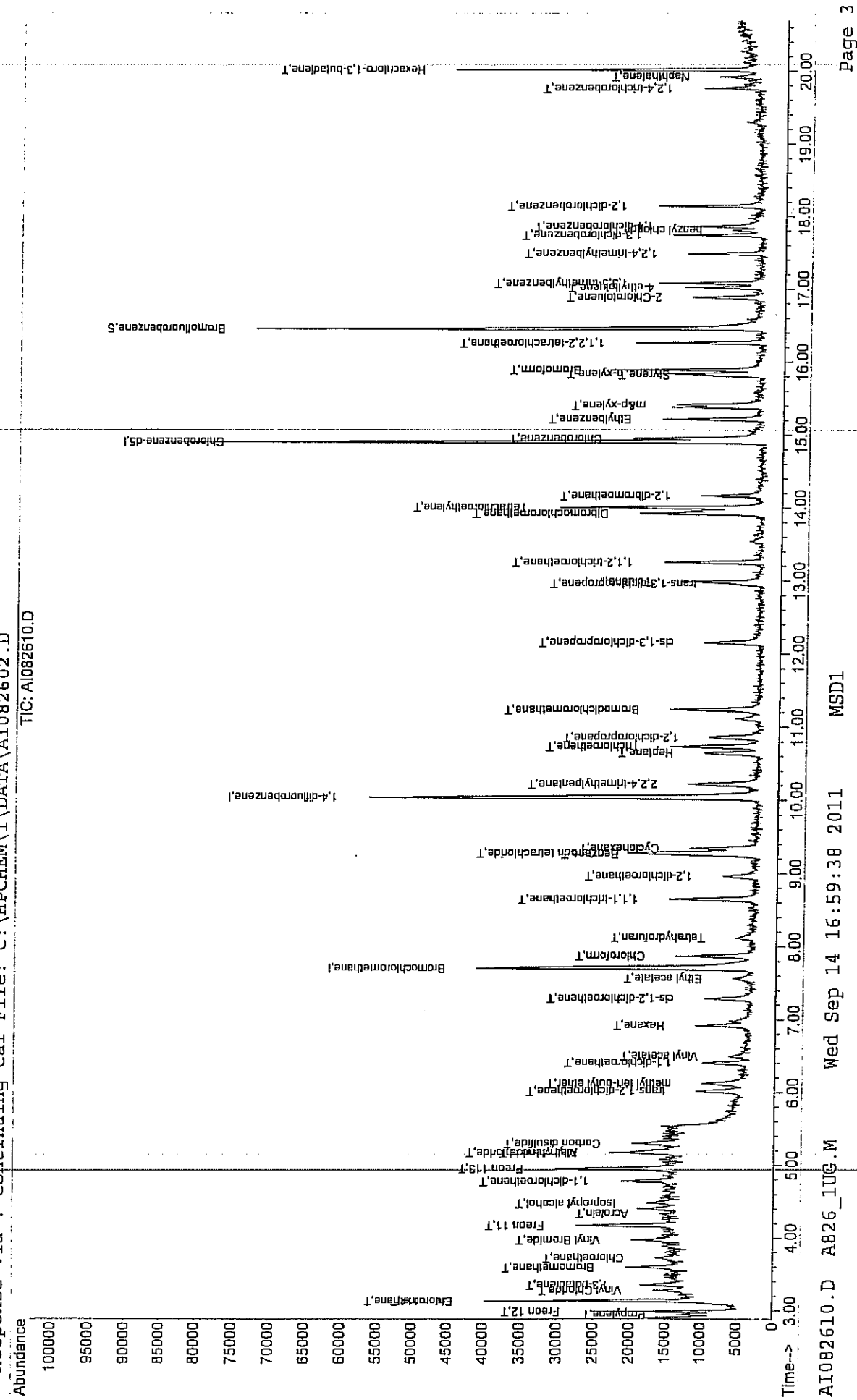
Data File : C:\HPCHEM\1\DATA\AI082610.D
Acq On : 27 Aug 2011 12:09 am
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:53 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D

TIC: AI082610.D



AI082610.D A826_1UG.M Wed Sep 14 16:59:38 2011 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082612.D Vial: 11
Acq On : 27 Aug 2011 1:14 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 01:35:14 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18058	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	66203	1.00	ppb	0.02
47) Chlorobenzene-d5	14.90	117	55725	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	28444	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	1701	0.10	ppb	93
35) Carbon tetrachloride	9.28	117	6638	0.10	ppb	100
41) Trichloroethene	10.74	130	3436	0.11	ppb	99

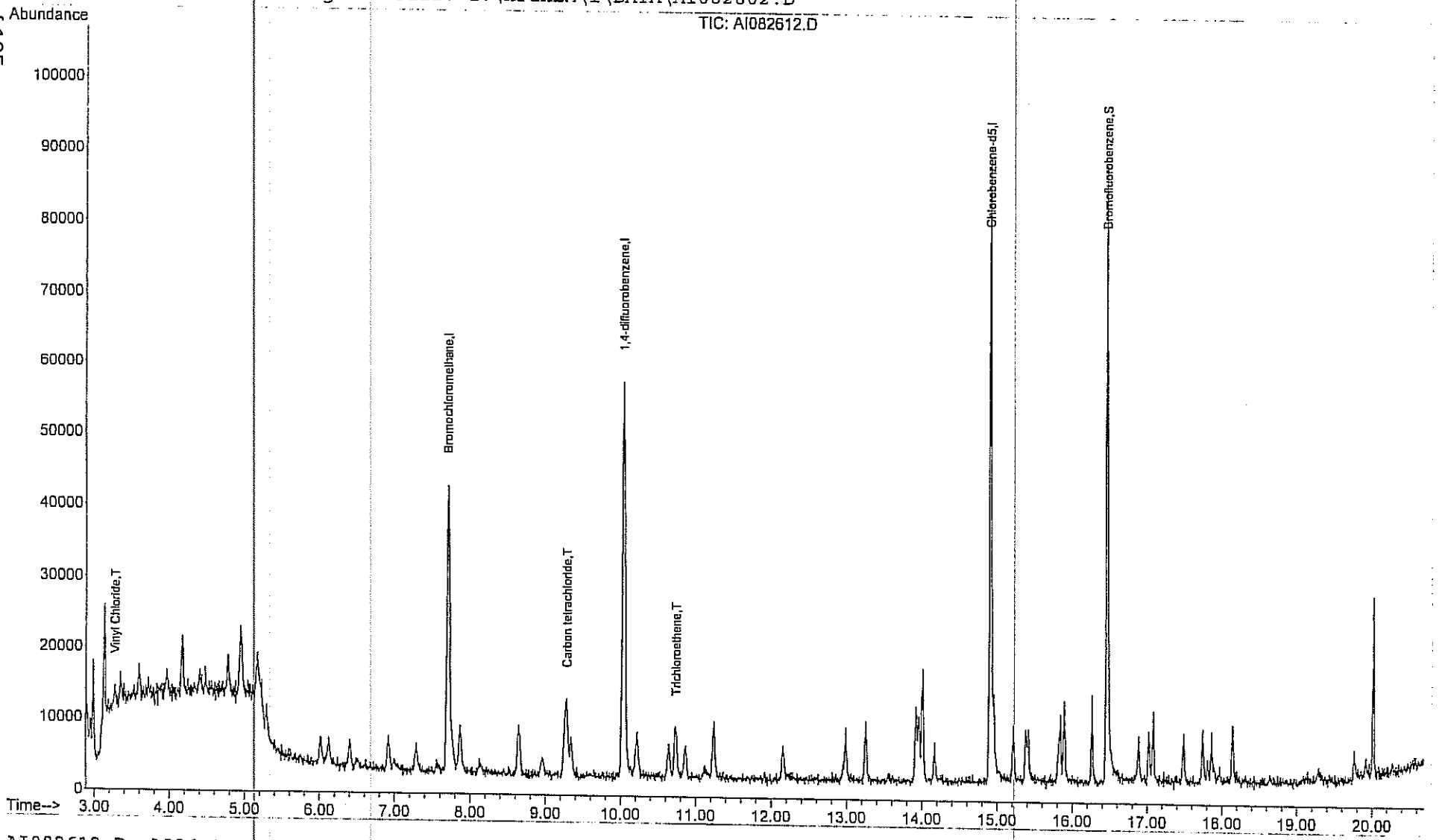
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082612.D
Acq On : 27 Aug 2011 1:14 am
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Aug 27 9:54 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082612.D A826_1UG.M Wed Sep 14 16:59:42 2011 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI082613.D Vial: 12
Acq On : 27 Aug 2011 1:46 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Aug 27 02:07:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Aug 26 20:34:58 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	18373	1.00	ppb	0.01
32) 1,4-difluorobenzene	10.04	114	69553	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	58557	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	30696	1.12	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.27	62	697	0.04	ppb	69
35) Carbon tetrachloride	9.28	117	2594	0.04	ppb	100
41) Trichloroethene	10.73	130	1503	0.04	ppb	98

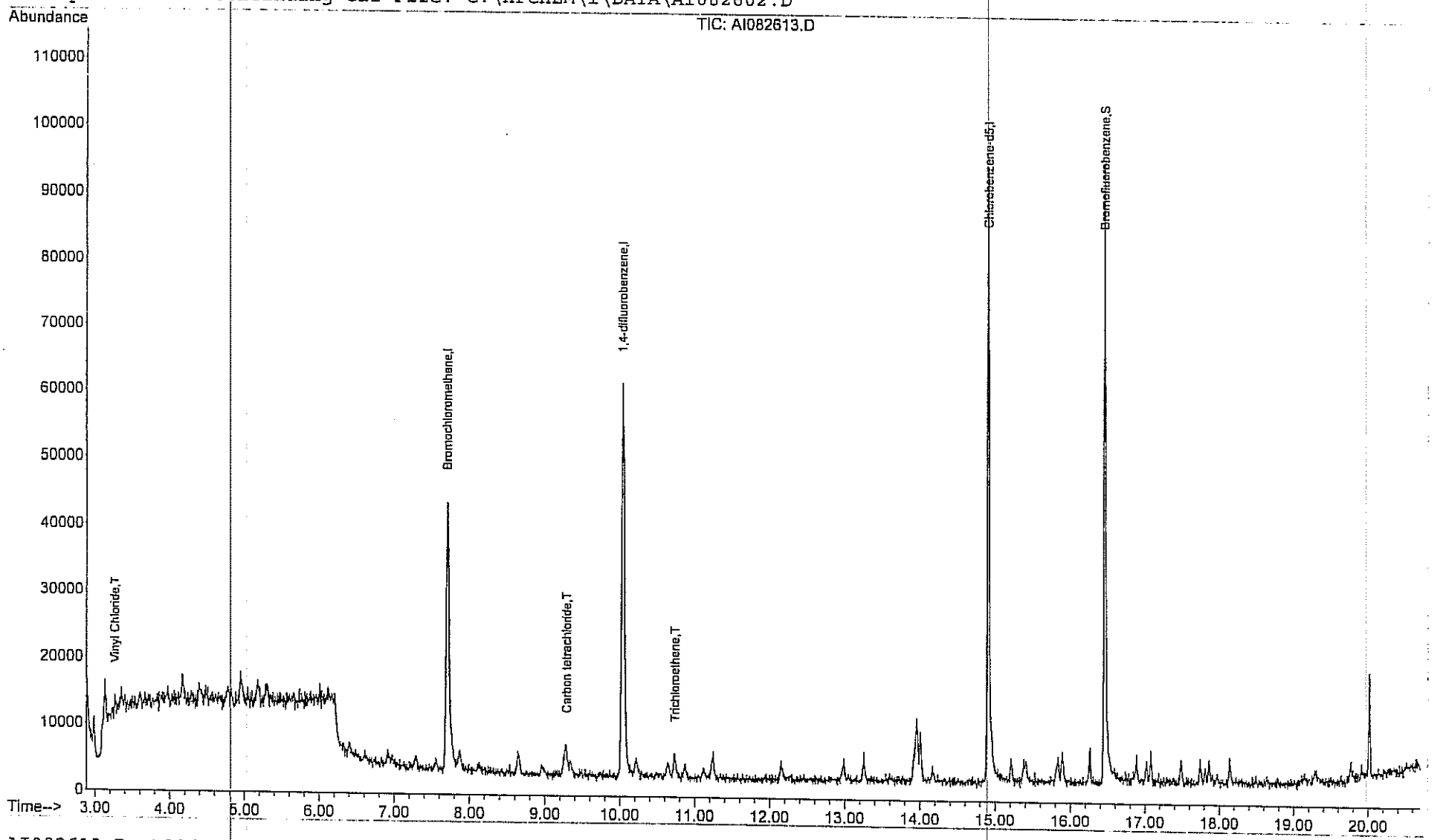
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI082613.D
Acq On : 27 Aug 2011 1:46 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.p
Quant Time: Aug 27 9:55 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Aug 27 09:59:41 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI082602.D



AI082613.D A826_1UG.M Wed Sep 14 16:59:44 2011 MSD1

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102102.D Vial: 3
Acq On : 21 Oct 2011 7:32 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	156#	0.00
2	T	Propylene	0.662	0.601	9.2	163#	0.00
3	T	Freon 12	4.274	4.113	3.8	168#	0.00
4	T	Chloromethane	1.071	1.057	1.3	171#	0.00
5	T	Freon 114	3.213	3.416	-6.3	187#	0.00
6	T	Vinyl Chloride	0.954	0.970	-1.7	179#	0.00
7	T	1,3-butadiene	0.700	0.588	16.0	145	0.00
8	T	Bromomethane	1.228	1.262	-2.8	187#	0.00
9	T	Ethanol	0.284	0.250	12.0	115	0.00
10	T	Acrolein	0.265	0.245	7.5	194#	0.00
11	T	Chloroethane	0.406	0.447	-10.1	201#	0.00
12	T	Vinyl Bromide	1.137	1.306	-14.9	204#	0.00
13	T	Freon 11	3.318	3.408	-2.7	179#	0.00
14	T	Acetone	0.353	0.414	-17.3	219#	0.00
15	T	Isopropyl alcohol	0.721	0.638	11.5	153#	0.00
16	T	1,1-dichloroethene	1.048	1.096	-4.6	178#	0.00
17	T	Freon 113	2.325	2.489	-7.1	191#	0.00
18	T	Methylene chloride	0.903	1.104	-22.3	219#	0.00
19	T	Allyl chloride	0.894	0.822	8.1	164#	0.00
20	T	Carbon disulfide	2.837	3.221	-13.5	214#	0.00
21	T	trans-1,2-dichloroethene	1.564	1.443	7.7	157#	0.00
22	T	methyl tert-butyl ether	1.253	1.163	7.2	162#	0.00
23	T	1,1-dichloroethane	1.977	1.876	5.1	164#	0.00
24	T	Vinyl acetate	1.511	1.176	22.2	126	0.00
25	T	Methyl Ethyl Ketone	0.327	0.376	-15.0	183#	0.00
26	T	cis-1,2-dichloroethene	1.464	1.275	12.9	148	0.00
27	T	Hexane	1.222	0.949	22.3	132	0.00
28	T	Ethyl acetate	1.426	1.341	6.0	163#	0.00
29	T	Chloroform	3.081	2.930	4.9	162#	0.00
30	T	Tetrahydrofuran	0.624	0.493	21.0	127	0.00
31	T	1,2-dichloroethane	1.905	1.645	13.6	150#	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	110	0.00
33	T	1,1,1-trichloroethane	0.738	0.940	-27.4	158#	0.00
34	T	Cyclohexane	0.327	0.377	-15.3	143	0.00
35	T	Carbon tetrachloride	0.996	1.267	-27.2	158#	0.00
36	T	Benzene	0.857	0.999	-16.6	144	0.00
37	T	Methyl methacrylate	0.204	0.147	27.9	83	0.00
38	T	1,4-dioxane	0.115	0.102	11.3	113	0.00
39	T	2,2,4-trimethylpentane	0.910	1.073	-17.9	151#	0.00
40	T	Heptane	0.313	0.357	-14.1	140	0.00
41	T	Trichloroethene	0.523	0.634	-21.2	151#	0.00
42	T	1,2-dichloropropane	0.281	0.356	-26.7	162#	0.00
43	T	Bromodichloromethane	0.856	1.119	-30.7#	165#	0.00
44	T	cis-1,3-dichloropropene	0.371	0.428	-15.4	142	0.00
45	T	trans-1,3-dichloropropene	0.273	0.299	-9.5	125	0.00
46	T	1,1,2-trichloroethane	0.438	0.547	-24.9	153#	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	105	0.00
48	T	Toluene	0.653	0.678	-3.8	123	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.289	6.2	114	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102102.D Vial: 3
Acq On : 21 Oct 2011 7:32 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.433	-26.4	153#	0.00
51	T	Methyl Butyl Ketone	0.180	0.209	-16.1	124	0.00
52	T	1,2-dibromoethane	0.764	0.925	-21.1	142	0.00
53	T	Tetrachloroethylene	0.692	0.731	-5.6	131	0.00
54	T	Chlorobenzene	1.048	1.093	-4.3	124	0.00
55	T	Ethylbenzene	1.339	1.243	7.2	106	0.00
56	T	m&p-xylene	1.093	1.099	-0.5	110	0.00
57	T	Styrene	0.658	0.556	15.5	93	0.00
58	T	Bromoform	1.151	1.433	-24.5	151#	0.00
59	T	o-xylene	1.270	1.507	-18.7	139	0.00
60	S	Bromofluorobenzene	0.505	0.403	20.2	77	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	0.994	-10.3	131	0.00
62	T	2-Chlorotoluene	0.813	0.777	4.4	108	0.00
63	T	4-ethyltoluene	1.046	0.743	29.0	82	0.00
64	T	1,3,5-trimethylbenzene	1.147	0.906	21.0	92	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.806	12.9	105	0.00
66	T	1,3-dichlorobenzene	0.848	0.719	15.2	100	0.00
67	T	benzyl chloride	0.420	0.462	-10.0	130	0.00
68	T	1,4-dichlorobenzene	0.807	0.673	16.6	98	0.00
69	T	1,2-dichlorobenzene	0.841	0.659	21.6	97	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.287	29.5	82	0.00
71	T	Naphthalene	0.542	0.230	57.6#	54	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.489	29.9	87	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102102.D Vial: 3
Acq On : 21 Oct 2011 7:32 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 07:53:25 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	27295	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	74540	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	63216	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	25491	0.80	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 80.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	16393	0.91	ppb		91
3) Freon 12	2.98	85	112277	0.96	ppb		99
4) Chloromethane	3.12	50	28861	0.99	ppb		97
5) Freon 114	3.12	85	93245	1.06	ppb		96
6) Vinyl Chloride	3.26	62	26489	1.02	ppb		95
7) 1,3-butadiene	3.34	39	16036	0.84	ppb		82
8) Bromomethane	3.58	94	34445	1.03	ppb		95
9) Ethanol	3.86	45	6825	0.88	ppb	#	23
10) Acrolein	4.30	56	6680	0.92	ppb		89
11) Chloroethane	3.71	64	12195	1.10	ppb		98
12) Vinyl Bromide	3.95	106	35656	1.15	ppb		98
13) Freon 11	4.16	101	93013	1.03	ppb		100
14) Acetone	4.37	58	11290m	1.17	ppb		
15) Isopropyl alcohol	4.45	45	17418	0.88	ppb	#	100
16) 1,1-dichloroethene	4.76	96	29910	1.05	ppb	#	88
17) Freon 113	4.93	101	67930	1.07	ppb		96
18) Methylene chloride	5.16	84	30140	1.22	ppb	#	84
19) Allyl chloride	5.15	41	22445	0.92	ppb		88
20) Carbon disulfide	5.28	76	87923	1.14	ppb		99
21) trans-1,2-dichloroethene	5.99	61	39394	0.92	ppb		89
22) methyl tert-butyl ether	6.08	73	31741	0.93	ppb	#	74
23) 1,1-dichloroethane	6.38	63	51204	0.95	ppb		95
24) Vinyl acetate	6.46	43	32100	0.78	ppb		100
25) Methyl Ethyl Ketone	6.94	72	10266m	1.15	ppb		
26) cis-1,2-dichloroethene	7.27	61	34796	0.87	ppb		93
27) Hexane	6.91	57	25898	0.78	ppb		98
28) Ethyl acetate	7.53	43	36610m	0.94	ppb		
29) Chloroform	7.85	83	79981	0.95	ppb		98
30) Tetrahydrofuran	8.08	42	13443	0.79	ppb		99
31) 1,2-dichloroethane	8.93	62	44908	0.86	ppb		98
33) 1,1,1-trichloroethane	8.63	97	70035m	1.27	ppb		
34) Cyclohexane	9.33	56	28107	1.15	ppb		92
35) Carbon tetrachloride	9.27	117	94406m	1.27	ppb		
36) Benzene	9.24	78	74466	1.17	ppb		97
37) Methyl methacrylate	11.09	41	10954	0.72	ppb		91
38) 1,4-dioxane	11.15	88	7575m	0.89	ppb		
39) 2,2,4-trimethylpentane	10.21	57	79975	1.18	ppb		96
40) Heptane	10.63	43	26589	1.14	ppb		93
41) Trichloroethene	10.71	130	47256	1.21	ppb		99
42) 1,2-dichloropropane	10.84	63	26519m	1.27	ppb		
43) Bromodichloromethane	11.22	83	83396	1.31	ppb		100
44) cis-1,3-dichloropropene	12.13	75	31916	1.15	ppb		94
45) trans-1,3-dichloropropene	12.94	75	22295	1.09	ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102102.D Vial: 3
Acq On : 21 Oct 2011 7:32 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 07:53:25 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

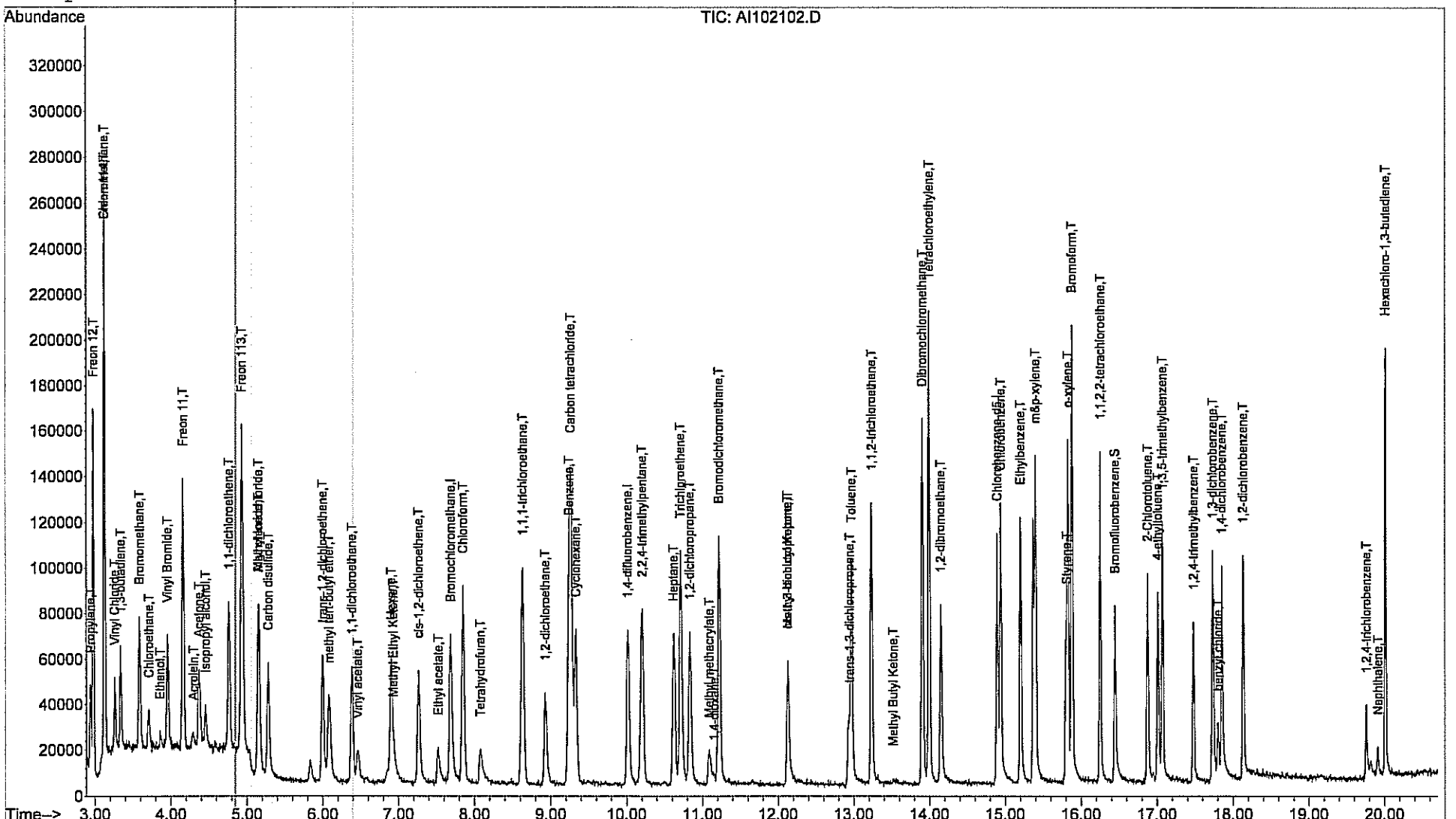
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	40796	1.25	ppb	99
48)	Toluene	12.97	92	42890	1.04	ppb	94
49)	Methyl Isobutyl Ketone	12.13	43	18297m	0.94	ppb	
50)	Dibromochloromethane	13.91	129	90569	1.26	ppb	99
51)	Methyl Butyl Ketone	13.53	43	13216m	1.16	ppb	
52)	1,2-dibromoethane	14.15	107	58459	1.21	ppb	98
53)	Tetrachloroethylene	14.00	164	46221	1.06	ppb	99
54)	Chlorobenzene	14.94	112	69095	1.04	ppb	99
55)	Ethylbenzene	15.20	91	78599	0.93	ppb	96
56)	m&p-xylene	15.40	91	138974	2.01	ppb	100
57)	Styrene	15.80	104	35145	0.84	ppb	98
58)	Bromoform	15.88	173	90593	1.25	ppb	99
59)	o-xylene	15.83	91	95245	1.19	ppb	89
61)	1,1,2,2-tetrachloroethane	16.25	83	62838	1.10	ppb	98
62)	2-Chlorotoluene	16.87	91	49088	0.95	ppb	98
63)	4-ethyltoluene	17.01	105	46981	0.71	ppb	94
64)	1,3,5-trimethylbenzene	17.07	105	57260	0.79	ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	50962m	0.87	ppb	
66)	1,3-dichlorobenzene	17.73	146	45424	0.85	ppb	99
67)	benzyl chloride	17.80	91	29197m	1.10	ppb	
68)	1,4-dichlorobenzene	17.85	146	42550	0.83	ppb	99
69)	1,2-dichlorobenzene	18.13	146	41634	0.78	ppb	96
70)	1,2,4-trichlorobenzene	19.76	180	18165m	0.71	ppb	
71)	Naphthalene	19.91	128	14532m	0.42	ppb	
72)	Hexachloro-1,3-butadiene	20.01	225	30900m	0.70	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102102.D Vial: 3
Acq On : 21 Oct 2011 7:32 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 6:57 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102203.D Vial: 41
Acq On : 22 Oct 2011 12:18 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	136	0.00
2	T	Propylene	0.662	0.551	16.8	130	0.00
3	T	Freon 12	4.274	4.212	1.5	150	0.00
4	T	Chloromethane	1.071	1.070	0.1	151#	0.00
5	T	Freon 114	3.213	3.546	-10.4	169#	0.00
6	T	Vinyl Chloride	0.954	0.997	-4.5	160#	0.00
7	T	1,3-butadiene	0.700	0.615	12.1	132	0.00
8	T	Bromomethane	1.228	1.337	-8.9	172#	0.00
9	T	Ethanol	0.284	0.315	-10.9	126	0.00
10	T	Acrolein	0.265	0.232	12.5	160#	-0.02
11	T	Chloroethane	0.406	0.428	-5.4	168#	0.00
12	T	Vinyl Bromide	1.137	1.348	-18.6	183#	0.00
13	T	Freon 11	3.318	3.716	-12.0	170#	0.00
14	T	Acetone	0.353	0.332	5.9	153#	-0.02
15	T	Isopropyl alcohol	0.721	0.864	-19.8	181#	-0.02
16	T	1,1-dichloroethene	1.048	1.139	-8.7	161#	0.00
17	T	Freon 113	2.325	2.711	-16.6	181#	0.00
18	T	Methylene chloride	0.903	0.989	-9.5	171#	0.00
19	T	Allyl chloride	0.894	0.797	10.9	138	-0.01
20	T	Carbon disulfide	2.837	2.993	-5.5	173#	0.00
21	T	trans-1,2-dichloroethene	1.564	1.406	10.1	133	0.00
22	T	methyl tert-butyl ether	1.253	1.130	9.8	137	-0.01
23	T	1,1-dichloroethane	1.977	1.830	7.4	139	0.00
24	T	Vinyl acetate	1.511	1.237	18.1	116	-0.02
25	T	Methyl Ethyl Ketone	0.327	0.337	-3.1	143	-0.01
26	T	cis-1,2-dichloroethene	1.464	1.249	14.7	126	0.00
27	T	Hexane	1.222	0.984	19.5	119	0.00
28	T	Ethyl acetate	1.426	1.444	-1.3	153#	-0.02
29	T	Chloroform	3.081	2.992	2.9	144	0.00
30	T	Tetrahydrofuran	0.624	0.554	11.2	125	-0.02
31	T	1,2-dichloroethane	1.905	1.718	9.8	136	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	86	0.00
33	T	1,1,1-trichloroethane	0.738	1.068	-44.7#	140	0.00
34	T	Cyclohexane	0.327	0.410	-25.4	121	0.00
35	T	Carbon tetrachloride	0.996	1.473	-47.9#	143	0.00
36	T	Benzene	0.857	1.084	-26.5	121	0.00
37	T	Methyl methacrylate	0.204	0.238	-16.7	105	-0.01
38	T	1,4-dioxane	0.115	0.128	-11.3	111	-0.04
39	T	2,2,4-trimethylpentane	0.910	1.170	-28.6	128	0.00
40	T	Heptane	0.313	0.386	-23.3	118	0.00
41	T	Trichloroethene	0.523	0.649	-24.1	120	0.00
42	T	1,2-dichloropropane	0.281	0.353	-25.6	125	0.00
43	T	Bromodichloromethane	0.856	1.295	-51.3#	148	0.00
44	T	cis-1,3-dichloropropene	0.371	0.433	-16.7	112	0.00
45	T	trans-1,3-dichloropropene	0.273	0.349	-27.8	114	0.00
46	T	1,1,2-trichloroethane	0.438	0.546	-24.7	118	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	86	0.00
48	T	Toluene	0.653	0.682	-4.4	102	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.336	-9.1	109	-0.02

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102203.D Vial: 41
Acq On : 22 Oct 2011 12:18 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.530	-34.9#	135	0.00
51	T	Methyl Butyl Ketone	0.180	0.169	6.1	83	-0.04
52	T	1,2-dibromoethane	0.764	0.903	-18.2	114	0.00
53	T	Tetrachloroethylene	0.692	0.843	-21.8	124	0.00
54	T	Chlorobenzene	1.048	1.177	-12.3	110	0.00
55	T	Ethylbenzene	1.339	1.325	1.0	93	0.00
56	T	m&p-xylene	1.093	1.244	-13.8	103	0.00
57	T	Styrene	0.658	0.602	8.5	83	0.00
58	T	Bromoform	1.151	1.427	-24.0	124	0.00
59	T	o-xylene	1.270	1.438	-13.2	110	0.00
60	S	Bromofluorobenzene	0.505	0.460	8.9	73	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	1.095	-21.5	119	0.00
62	T	2-Chlorotoluene	0.813	0.884	-8.7	101	0.00
63	T	4-ethyltoluene	1.046	0.997	4.7	91	0.00
64	T	1,3,5-trimethylbenzene	1.147	1.216	-6.0	101	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.784	15.2	84	0.00
66	T	1,3-dichlorobenzene	0.848	0.826	2.6	95	0.00
67	T	benzyl chloride	0.420	0.481	-14.5	112	0.00
68	T	1,4-dichlorobenzene	0.807	0.790	2.1	95	0.00
69	T	1,2-dichlorobenzene	0.841	0.822	2.3	100	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.341	16.2	80	0.00
71	T	Naphthalene	0.542	0.502	7.4	96	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.751	-7.6	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AI102203.D A826_1UG.M Tue Nov 08 09:23:27 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102203.D Vial: 41
Acq On : 22 Oct 2011 12:18 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:39:30 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	23754	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.02	114	57975	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	52111	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	23989	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	13093	0.83	ppb		91
3) Freon 12	2.97	85	100053	0.99	ppb		99
4) Chloromethane	3.12	50	25415	1.00	ppb		98
5) Freon 114	3.12	85	84225	1.10	ppb		95
6) Vinyl Chloride	3.26	62	23678	1.04	ppb		97
7) 1,3-butadiene	3.33	39	14615	0.88	ppb		91
8) Bromomethane	3.58	94	31749	1.09	ppb		96
9) Ethanol	3.85	45	7482	1.11	ppb	#	26
10) Acrolein	4.28	56	5520	0.88	ppb		98
11) Chloroethane	3.70	64	10170	1.05	ppb		96
12) Vinyl Bromide	3.95	106	32028	1.19	ppb		97
13) Freon 11	4.16	101	88268	1.12	ppb		99
14) Acetone	4.35	58	7879m	0.94	ppb		
15) Isopropyl alcohol	4.44	45	20520m	1.20	ppb		
16) 1,1-dichloroethene	4.76	96	27047	1.09	ppb		88
17) Freon 113	4.93	101	64401	1.17	ppb		96
18) Methylene chloride	5.16	84	23486	1.09	ppb	#	83
19) Allyl chloride	5.13	41	18937	0.89	ppb		85
20) Carbon disulfide	5.28	76	71088	1.05	ppb		100
21) trans-1,2-dichloroethene	5.99	61	33388	0.90	ppb		92
22) methyl tert-butyl ether	6.07	73	26840	0.90	ppb		81
23) 1,1-dichloroethane	6.38	63	43466	0.93	ppb		95
24) Vinyl acetate	6.44	43	29386	0.82	ppb		98
25) Methyl Ethyl Ketone	6.93	72	8013	1.03	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	29668	0.85	ppb		92
27) Hexane	6.90	57	23380	0.81	ppb		97
28) Ethyl acetate	7.50	43	34292	1.01	ppb		98
29) Chloroform	7.85	83	71068	0.97	ppb		99
30) Tetrahydrofuran	8.06	42	13154	0.89	ppb		97
31) 1,2-dichloroethane	8.93	62	40810	0.90	ppb		98
33) 1,1,1-trichloroethane	8.63	97	61915m	1.45	ppb		
34) Cyclohexane	9.33	56	23787	1.25	ppb		91
35) Carbon tetrachloride	9.27	117	85393m	1.48	ppb		
36) Benzene	9.24	78	62818	1.27	ppb		96
37) Methyl methacrylate	11.08	41	13821m	1.17	ppb		
38) 1,4-dioxane	11.12	88	7442m	1.12	ppb		
39) 2,2,4-trimethylpentane	10.20	57	67821	1.29	ppb		98
40) Heptane	10.62	43	22353	1.23	ppb		97
41) Trichloroethene	10.71	130	37629m	1.24	ppb		
42) 1,2-dichloropropane	10.84	63	20446m	1.25	ppb		
43) Bromodichloromethane	11.22	83	75091	1.51	ppb		100
44) cis-1,3-dichloropropene	12.13	75	25103m	1.17	ppb		
45) trans-1,3-dichloropropene	12.93	75	20216	1.28	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102203.D Vial: 41
Acq On : 22 Oct 2011 12:18 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 12:39:30 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

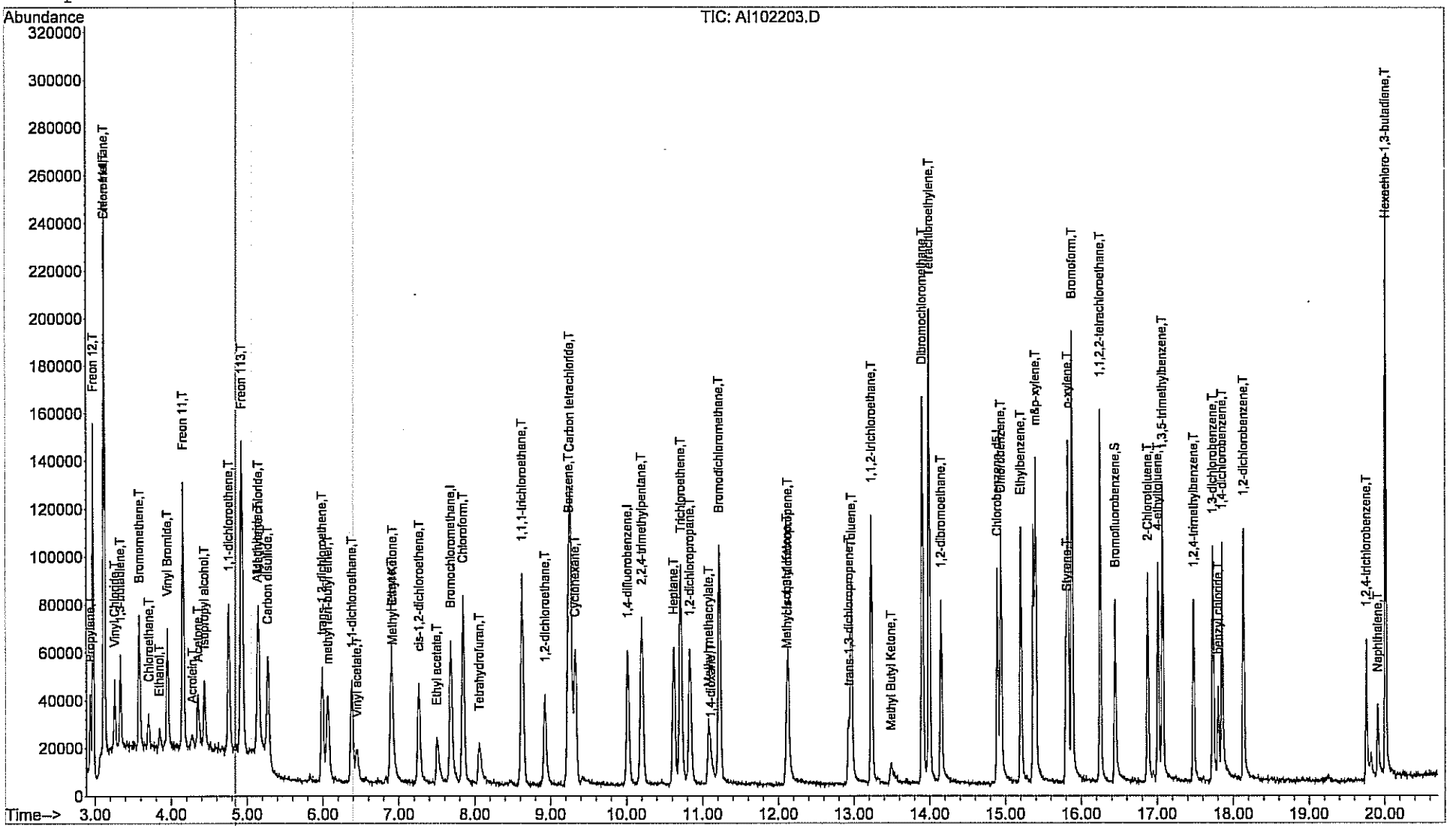
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	31634m	1.25	ppb	
48)	Toluene	12.97	92	35560	1.04	ppb	96
49)	Methyl Isobutyl Ketone	12.11	43	17484m	1.09	ppb	
50)	Dibromochloromethane	13.91	129	79708m	1.35	ppb	
51)	Methyl Butyl Ketone	13.49	43	8796	0.94	ppb	99
52)	1,2-dibromoethane	14.15	107	47060m	1.18	ppb	
53)	Tetrachloroethylene	14.00	164	43915	1.22	ppb	99
54)	Chlorobenzene	14.94	112	61323	1.12	ppb	99
55)	Ethylbenzene	15.20	91	69039	0.99	ppb	99
56)	m&p-xylene	15.40	91	129615	2.28	ppb	100
57)	Styrene	15.80	104	31360	0.91	ppb	96
58)	Bromoform	15.88	173	74338m	1.24	ppb	
59)	o-xylene	15.82	91	74948	1.13	ppb	98
61)	1,1,2,2-tetrachloroethane	16.25	83	57054m	1.22	ppb	
62)	2-Chlorotoluene	16.87	91	46057	1.09	ppb	100
63)	4-ethyltoluene	17.01	105	51972	0.95	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	63362	1.06	ppb	96
65)	1,2,4-trimethylbenzene	17.48	105	40836	0.85	ppb	100
66)	1,3-dichlorobenzene	17.73	146	43050	0.97	ppb	96
67)	benzyl chloride	17.80	91	25090	1.15	ppb	97
68)	1,4-dichlorobenzene	17.85	146	41179	0.98	ppb	98
69)	1,2-dichlorobenzene	18.14	146	42844	0.98	ppb	97
70)	1,2,4-trichlorobenzene	19.76	180	17772	0.84	ppb	90
71)	Naphthalene	19.91	128	26159	0.93	ppb	98
72)	Hexachloro-1,3-butadiene	20.01	225	39116	1.08	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102203.D Vial: 41
Acq On : 22 Oct 2011 12:18 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:44 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102402.D Vial: 2
Acq On : 24 Oct 2011 10:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	141	0.00
2	T	Propylene	0.662	0.514	22.4	126	0.00
3	T	Freon 12	4.274	3.843	10.1	142	0.00
4	T	Chloromethane	1.071	1.033	3.5	152#	0.00
5	T	Freon 114	3.213	3.219	-0.2	160#	0.00
6	T	Vinyl Chloride	0.954	0.916	4.0	153#	0.00
7	T	1,3-butadiene	0.700	0.512	26.9	114	0.00
8	T	Bromomethane	1.228	1.211	1.4	162#	0.00
9	T	Ethanol	0.284	0.248	12.7	103	0.00
10	T	Acrolein	0.265	0.226	14.7	162#	0.00
11	T	Chloroethane	0.406	0.390	3.9	159#	0.00
12	T	Vinyl Bromide	1.137	1.248	-9.8	176#	0.00
13	T	Freon 11	3.318	3.324	-0.2	158#	0.00
14	T	Acetone	0.353	0.330	6.5	158#	0.00
15	T	Isopropyl alcohol	0.721	0.863	-19.7	187#	0.00
16	T	1,1-dichloroethene	1.048	1.028	1.9	151#	0.00
17	T	Freon 113	2.325	2.363	-1.6	164#	0.00
18	T	Methylene chloride	0.903	0.872	3.4	157#	0.00
19	T	Allyl chloride	0.894	0.779	12.9	140	0.00
20	T	Carbon disulfide	2.837	2.546	10.3	153#	0.00
21	T	trans-1,2-dichloroethene	1.564	1.348	13.8	133	0.00
22	T	methyl tert-butyl ether	1.253	1.090	13.0	137	0.00
23	T	1,1-dichloroethane	1.977	1.686	14.7	133	0.00
24	T	Vinyl acetate	1.511	1.165	22.9	113	0.00
25	T	Methyl Ethyl Ketone	0.327	0.295	9.8	130	0.00
26	T	cis-1,2-dichloroethene	1.464	1.164	20.5	122	0.00
27	T	Hexane	1.222	0.914	25.2	115	0.00
28	T	Ethyl acetate	1.426	1.229	13.8	135	0.00
29	T	Chloroform	3.081	2.811	8.8	141	0.00
30	T	Tetrahydrofuran	0.624	0.512	17.9	120	-0.01
31	T	1,2-dichloroethane	1.905	1.574	17.4	130	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	85	0.00
33	T	1,1,1-trichloroethane	0.738	1.041	-41.1#	134	0.00
34	T	Cyclohexane	0.327	0.378	-15.6	110	0.00
35	T	Carbon tetrachloride	0.996	1.266	-27.1	122	0.00
36	T	Benzene	0.857	1.079	-25.9	119	0.00
37	T	Methyl methacrylate	0.204	0.220	-7.8	96	0.00
38	T	1,4-dioxane	0.115	0.139	-20.9	119	-0.04
39	T	2,2,4-trimethylpentane	0.910	1.113	-22.3	121	0.00
40	T	Heptane	0.313	0.361	-15.3	109	0.00
41	T	Trichloroethene	0.523	0.638	-22.0	117	0.00
42	T	1,2-dichloropropane	0.281	0.356	-26.7	125	0.00
43	T	Bromodichloromethane	0.856	1.188	-38.8#	134	0.00
44	T	cis-1,3-dichloropropene	0.371	0.444	-19.7	113	0.00
45	T	trans-1,3-dichloropropene	0.273	0.344	-26.0	111	0.00
46	T	1,1,2-trichloroethane	0.438	0.549	-25.3	118	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	85	0.00
48	T	Toluene	0.653	0.686	-5.1	101	0.00
49	T	Methyl Isobutyl Ketone	0.308	0.369	-19.8	119	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI102402.D Vial: 2
Acq On : 24 Oct 2011 10:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.134	1.628	-43.6#	142	0.00
51	T	Methyl Butyl Ketone	0.180	0.217	-20.6	105	-0.03
52	T	1,2-dibromoethane	0.764	0.867	-13.5	109	0.00
53	T	Tetrachloroethylene	0.692	0.861	-24.4	125	0.00
54	T	Chlorobenzene	1.048	1.175	-12.1	109	0.00
55	T	Ethylbenzene	1.339	1.378	-2.9	95	0.00
56	T	m&p-xylene	1.093	1.231	-12.6	101	0.00
57	T	Styrene	0.658	0.632	4.0	86	0.00
58	T	Bromoform	1.151	1.638	-42.3#	141	0.00
59	T	o-xylene	1.270	1.384	-9.0	104	0.00
60	S	Bromofluorobenzene	0.505	0.481	4.8	75	0.00
61	T	1,1,2,2-tetrachloroethane	0.901	1.136	-26.1	122	0.00
62	T	2-Chlorotoluene	0.813	0.983	-20.9	112	0.00
63	T	4-ethyltoluene	1.046	0.916	12.4	83	0.00
64	T	1,3,5-trimethylbenzene	1.147	1.126	1.8	93	0.00
65	T	1,2,4-trimethylbenzene	0.925	0.695	24.9	74	0.00
66	T	1,3-dichlorobenzene	0.848	0.828	2.4	94	0.00
67	T	benzyl chloride	0.420	0.439	-4.5	101	0.00
68	T	1,4-dichlorobenzene	0.807	0.827	-2.5	98	0.00
69	T	1,2-dichlorobenzene	0.841	0.752	10.6	90	0.00
70	T	1,2,4-trichlorobenzene	0.407	0.306	24.8	71	0.00
71	T	Naphthalene	0.542	0.353	34.9#	67	0.00
72	T	Hexachloro-1,3-butadiene	0.698	0.565	19.1	82	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102402.D Vial: 2
Acq On : 24 Oct 2011 10:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 11:10:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	24696	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	57298	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	51536	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	24813	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	12692	0.78	ppb		94
3) Freon 12	2.98	85	94908	0.90	ppb		99
4) Chloromethane	3.12	50	25518	0.96	ppb		98
5) Freon 114	3.12	85	79502	1.00	ppb		95
6) Vinyl Chloride	3.26	62	22625	0.96	ppb		98
7) 1,3-butadiene	3.34	39	12653	0.73	ppb		70
8) Bromomethane	3.58	94	29907	0.99	ppb		97
9) Ethanol	3.86	45	6123	0.87	ppb	#	32
10) Acrolein	4.30	56	5583	0.85	ppb		99
11) Chloroethane	3.70	64	9636	0.96	ppb		98
12) Vinyl Bromide	3.95	106	30822	1.10	ppb		98
13) Freon 11	4.16	101	82100	1.00	ppb		100
14) Acetone	4.38	58	8144	0.93	ppb	#	70
15) Isopropyl alcohol	4.46	45	21303	1.20	ppb	#	100
16) 1,1-dichloroethene	4.76	96	25376	0.98	ppb		87
17) Freon 113	4.94	101	58349	1.02	ppb		96
18) Methylene chloride	5.16	84	21529	0.97	ppb	#	87
19) Allyl chloride	5.15	41	19227	0.87	ppb		85
20) Carbon disulfide	5.28	76	62874	0.90	ppb		97
21) trans-1,2-dichloroethene	6.00	61	33278	0.86	ppb		90
22) methyl tert-butyl ether	6.08	73	26916	0.87	ppb		81
23) 1,1-dichloroethane	6.39	63	41642	0.85	ppb		93
24) Vinyl acetate	6.46	43	28779	0.77	ppb		97
25) Methyl Ethyl Ketone	6.94	72	7290	0.90	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	28747	0.80	ppb		90
27) Hexane	6.90	57	22565	0.75	ppb		94
28) Ethyl acetate	7.52	43	30346	0.86	ppb		98
29) Chloroform	7.85	83	69413	0.91	ppb		99
30) Tetrahydrofuran	8.07	42	12645	0.82	ppb		99
31) 1,2-dichloroethane	8.94	62	38879	0.83	ppb		100
33) 1,1,1-trichloroethane	8.63	97	59654m	1.41	ppb		
34) Cyclohexane	9.33	56	21678	1.16	ppb		90
35) Carbon tetrachloride	9.27	117	72545m	1.27	ppb		
36) Benzene	9.24	78	61802	1.26	ppb		95
37) Methyl methacrylate	11.09	41	12580	1.08	ppb	#	82
38) 1,4-dioxane	11.11	88	7968m	1.21	ppb		
39) 2,2,4-trimethylpentane	10.21	57	63769	1.22	ppb		97
40) Heptane	10.62	43	20677	1.15	ppb		94
41) Trichloroethene	10.71	130	36577m	1.22	ppb		
42) 1,2-dichloropropane	10.84	63	20374m	1.27	ppb		
43) Bromodichloromethane	11.22	83	68075m	1.39	ppb		
44) cis-1,3-dichloropropene	12.13	75	25435m	1.20	ppb		
45) trans-1,3-dichloropropene	12.93	75	19704	1.26	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102402.D Vial: 2
Acq On : 24 Oct 2011 10:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 11:10:04 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

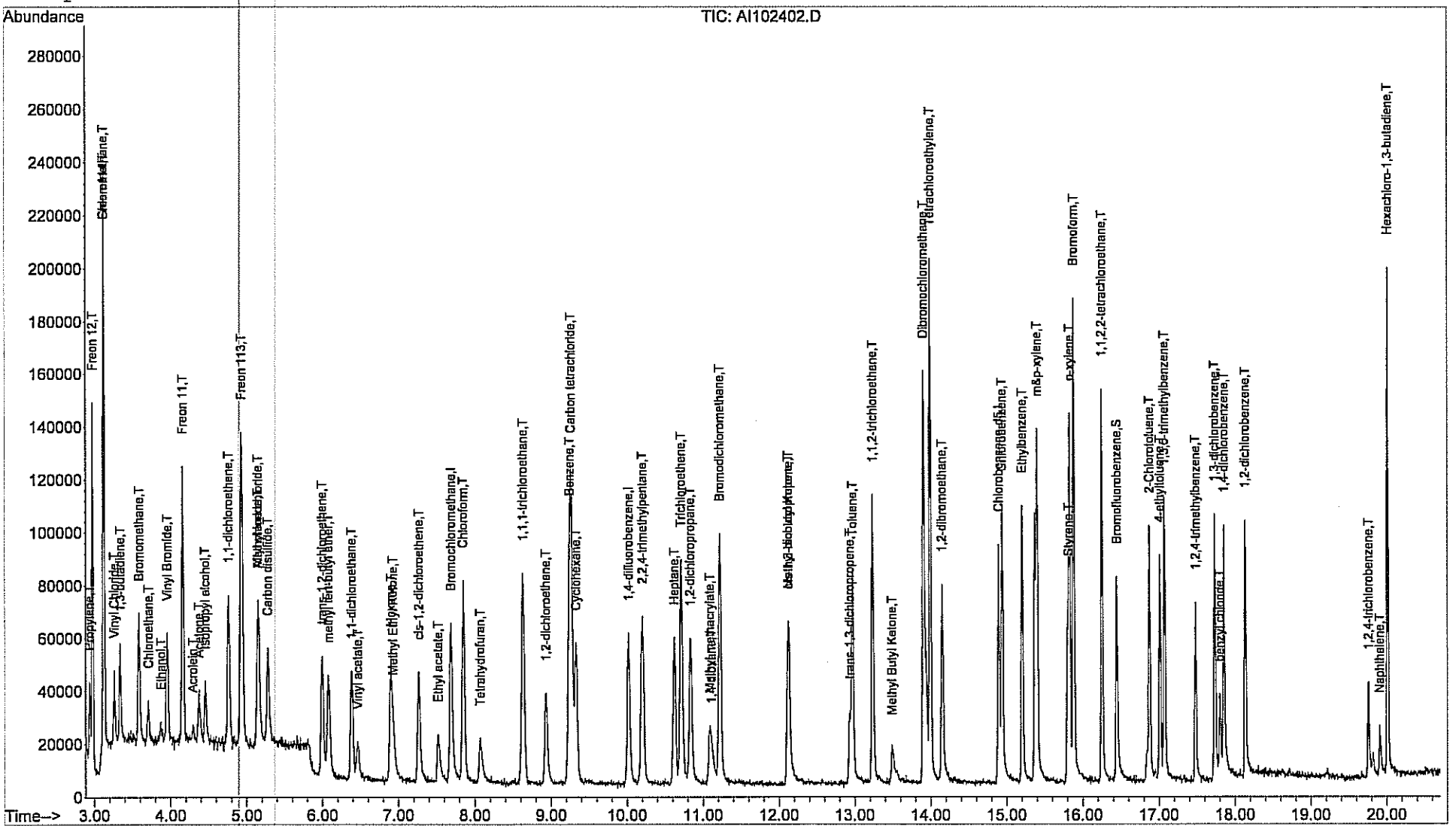
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	31441m	1.25	ppb	
48)	Toluene	12.97	92	35340	1.05	ppb	94
49)	Methyl Isobutyl Ketone	12.12	43	19011m	1.20	ppb	
50)	Dibromochloromethane	13.91	129	83921	1.44	ppb	100
51)	Methyl Butyl Ketone	13.50	43	11207m	1.21	ppb	
52)	1,2-dibromoethane	14.15	107	44673m	1.13	ppb	
53)	Tetrachloroethylene	14.00	164	44383	1.24	ppb	98
54)	Chlorobenzene	14.94	112	60535	1.12	ppb	98
55)	Ethylbenzene	15.20	91	71002	1.03	ppb	99
56)	m&p-xylene	15.40	91	126931	2.25	ppb	97
57)	Styrene	15.80	104	32545	0.96	ppb	99
58)	Bromoform	15.88	173	84431	1.42	ppb	99
59)	o-xylene	15.83	91	71330	1.09	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	58563m	1.26	ppb	
62)	2-Chlorotoluene	16.87	91	50670	1.21	ppb	97
63)	4-ethyltoluene	17.01	105	47184	0.88	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	58006	0.98	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	35812	0.75	ppb	98
66)	1,3-dichlorobenzene	17.73	146	42674	0.98	ppb	97
67)	benzyl chloride	17.80	91	22647	1.05	ppb	97
68)	1,4-dichlorobenzene	17.85	146	42644	1.03	ppb	97
69)	1,2-dichlorobenzene	18.13	146	38769	0.89	ppb	96
70)	1,2,4-trichlorobenzene	19.76	180	15759m	0.75	ppb	
71)	Naphthalene	19.91	128	18205m	0.65	ppb	
72)	Hexachloro-1,3-butadiene	20.01	225	29134	0.81	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102402.D Vial: 2
Acq On : 24 Oct 2011 10:49 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 8 9:34 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



AI102402.D A826_1UG.M Tue Nov 08 09:35:00 2011 MSD1 Page 3

Centek Laboratories, LLC

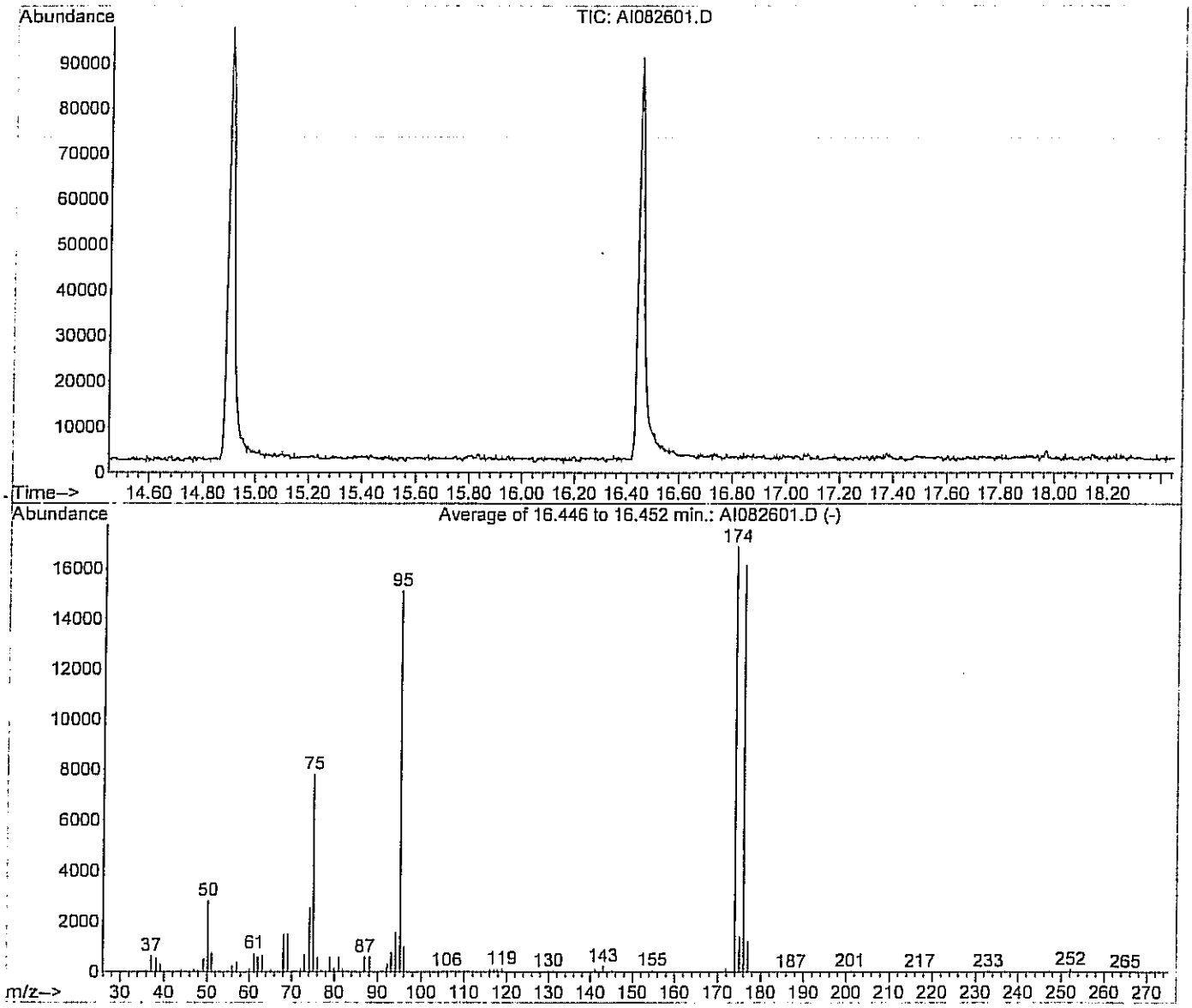
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

```
Data File : C:\HPCHEM\1\DATA\AI082601.D                Vial: 1
Acq On    : 26 Aug 2011    7:13 pm                   Operator: RJP
Sample    : BFB1UG                                   Inst    : MSD #1
Misc      :                                          Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title     : TO-15 VOA  Standards for 5 point calibration
```



Spectrum Information: Average of 16.446 to 16.452 min.

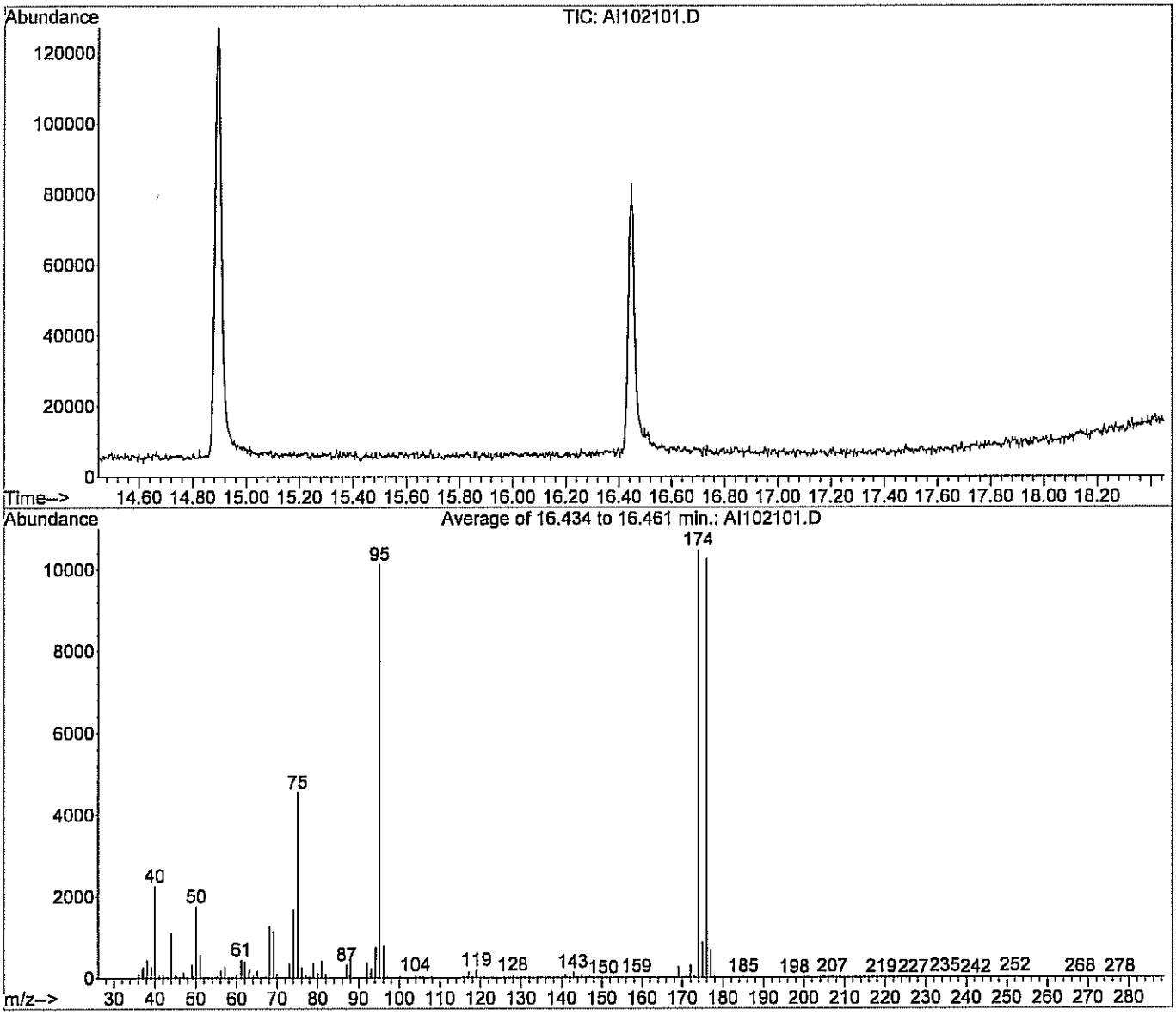
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	18.8	2842	PASS
75	95	30	66	51.7	7829	PASS
95	95	100	100	100.0	15137	PASS
96	95	5	9	6.7	1010	PASS
173	174	0.00	2	0.4	69	PASS
174	95	50	120	111.6	16900	PASS
175	174	4	9	8.3	1398	PASS
176	174	95	101	95.6	16160	PASS
177	176	5	9	7.8	1261	PASS

AI082601.D A826_1UG.M Wed Sep 14 16:58:39 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI102101.D
Acq On : 21 Oct 2011 6:19 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.434 to 16.461 min.

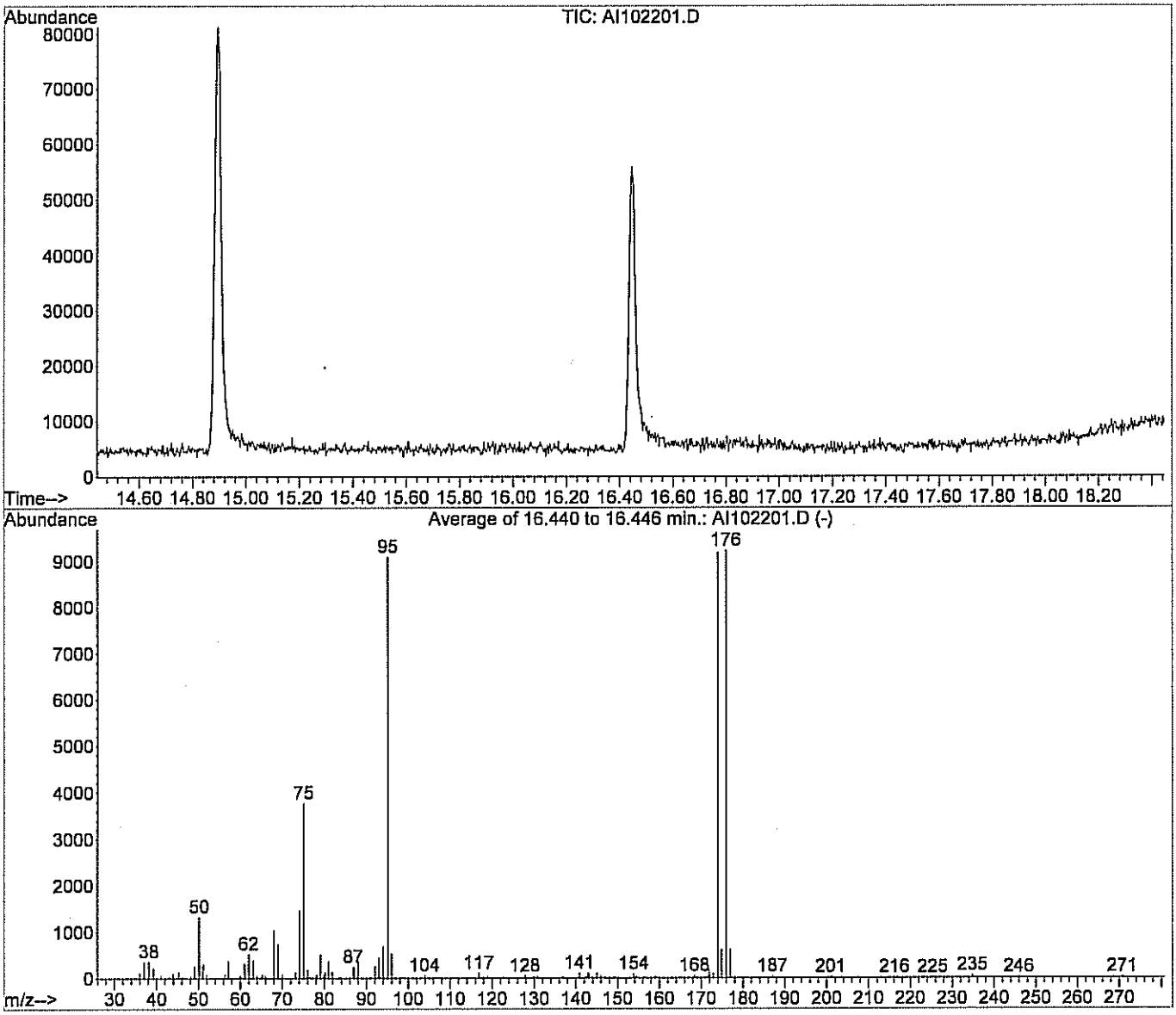
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.3	1755	PASS
75	95	30	66	44.9	4544	PASS
95	95	100	100	100.0	10130	PASS
96	95	5	9	7.7	778	PASS
173	174	0.00	2	0.4	45	PASS
174	95	50	120	103.5	10484	PASS
175	174	4	9	8.3	872	PASS
176	174	95	101	97.9	10262	PASS
177	176	5	9	6.5	670	PASS

AI102101.D A826_1UG.M Tue Nov 08 09:19:58 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI102201.D
Acq On : 22 Oct 2011 10:35 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 39
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.440 to 16.446 min.

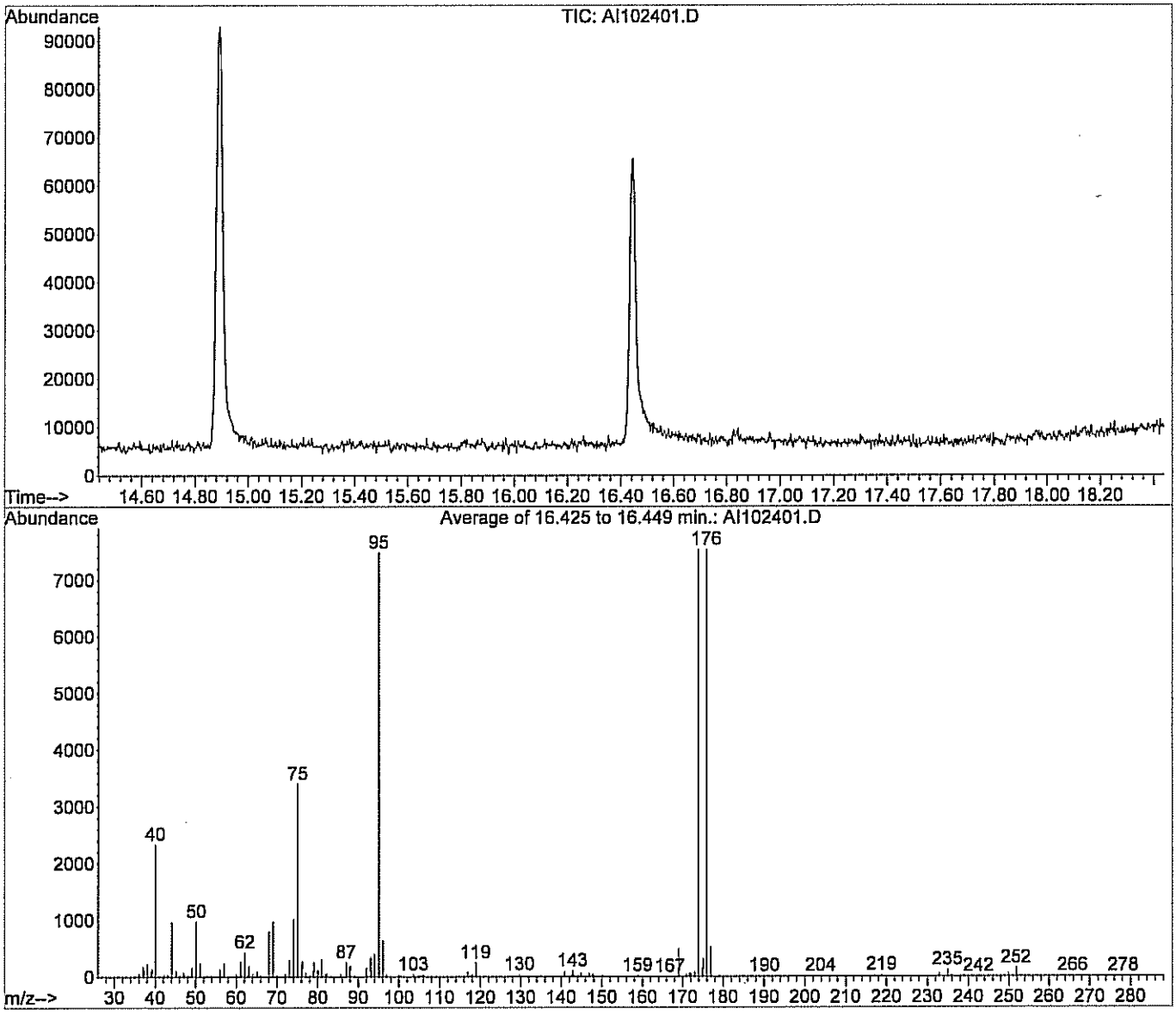
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.6	1332	PASS
75	95	30	66	41.6	3779	PASS
95	95	100	100	100.0	9095	PASS
96	95	5	9	5.9	536	PASS
173	174	0.00	2	1.0	92	PASS
174	95	50	120	101.0	9182	PASS
175	174	4	9	6.8	621	PASS
176	174	95	101	100.5	9229	PASS
177	176	5	9	6.7	620	PASS

AI102201.D A826_1UG.M Tue Nov 08 09:23:05 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI102401.D
Acq On : 24 Oct 2011 8:39 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.425 to 16.449 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.1	980	PASS
75	95	30	66	45.5	3403	PASS
95	95	100	100	100.0	7483	PASS
96	95	5	9	8.6	646	PASS
173	174	0.00	2	1.0	76	PASS
174	95	50	120	100.7	7535	PASS
175	174	4	9	4.2	320	PASS
176	174	95	101	100.0	7538	PASS
177	176	5	9	6.9	521	PASS

AI102401.D A826_1UG.M Tue Nov 08 09:25:48 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *08-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-102111** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5070**
Client ID: **ZZZZZ** Batch ID: **R5070** TestNo: **TO-15** Analysis Date: **10/21/2011** SeqNo: **59852**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59852

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102211	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59857

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-102411	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59886

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102104.D Vial: 5
Acq On : 21 Oct 2011 8:43 am Operator: RJP
Sample : AMB1UG-102111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 09:04:41 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

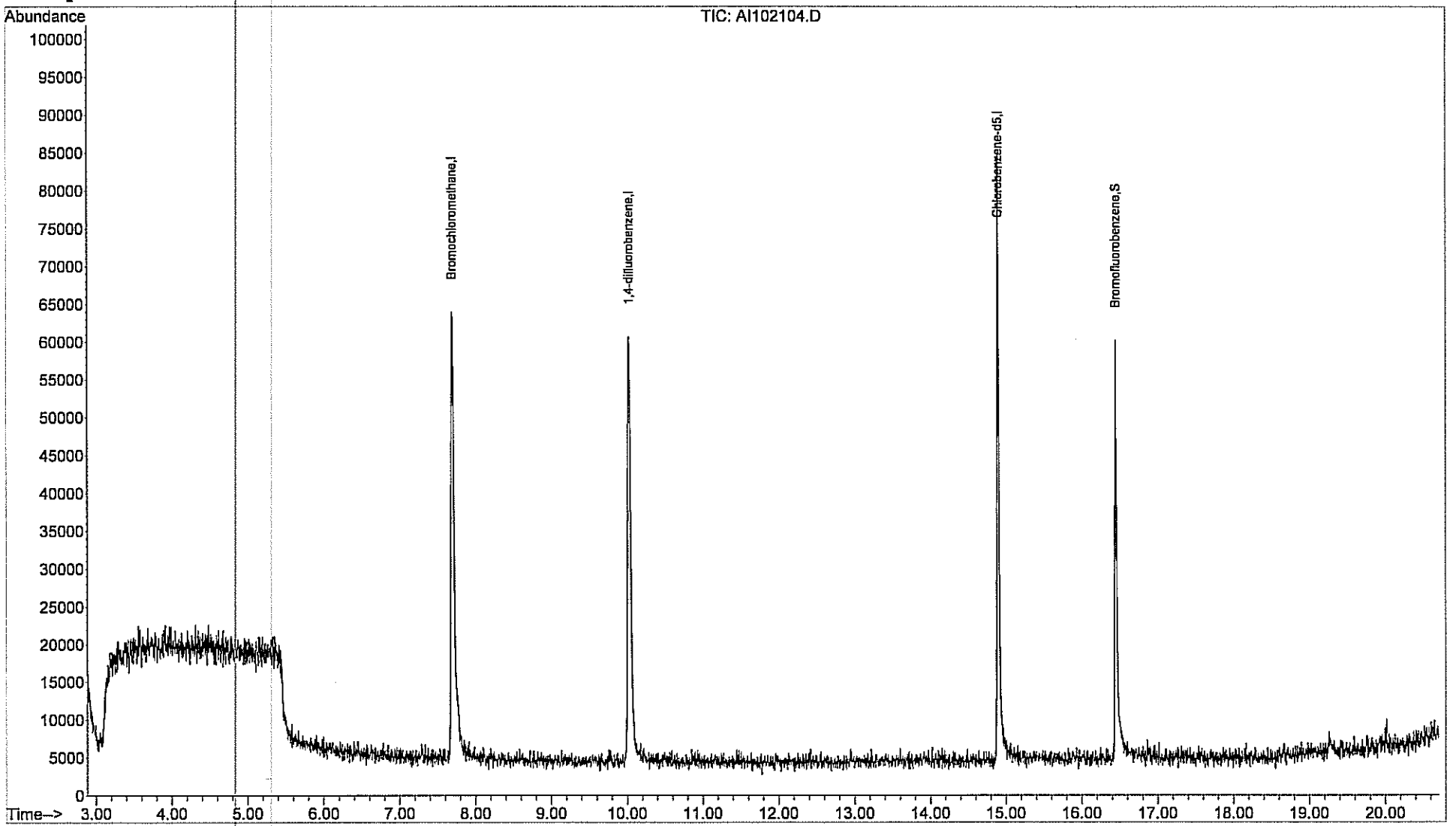
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	27207	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.02	114	68728	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	54233	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	22877m	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102104.D A826_1UG.M Tue Nov 08 09:17:31 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102104.D Vial: 5
Acq On : 21 Oct 2011 8:43 am Operator: RJP
Sample : AMB1UG-102111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:25 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102205.D Vial: 43
Acq On : 22 Oct 2011 1:27 pm Operator: RJP
Sample : AMB1UG-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 13:48:02 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

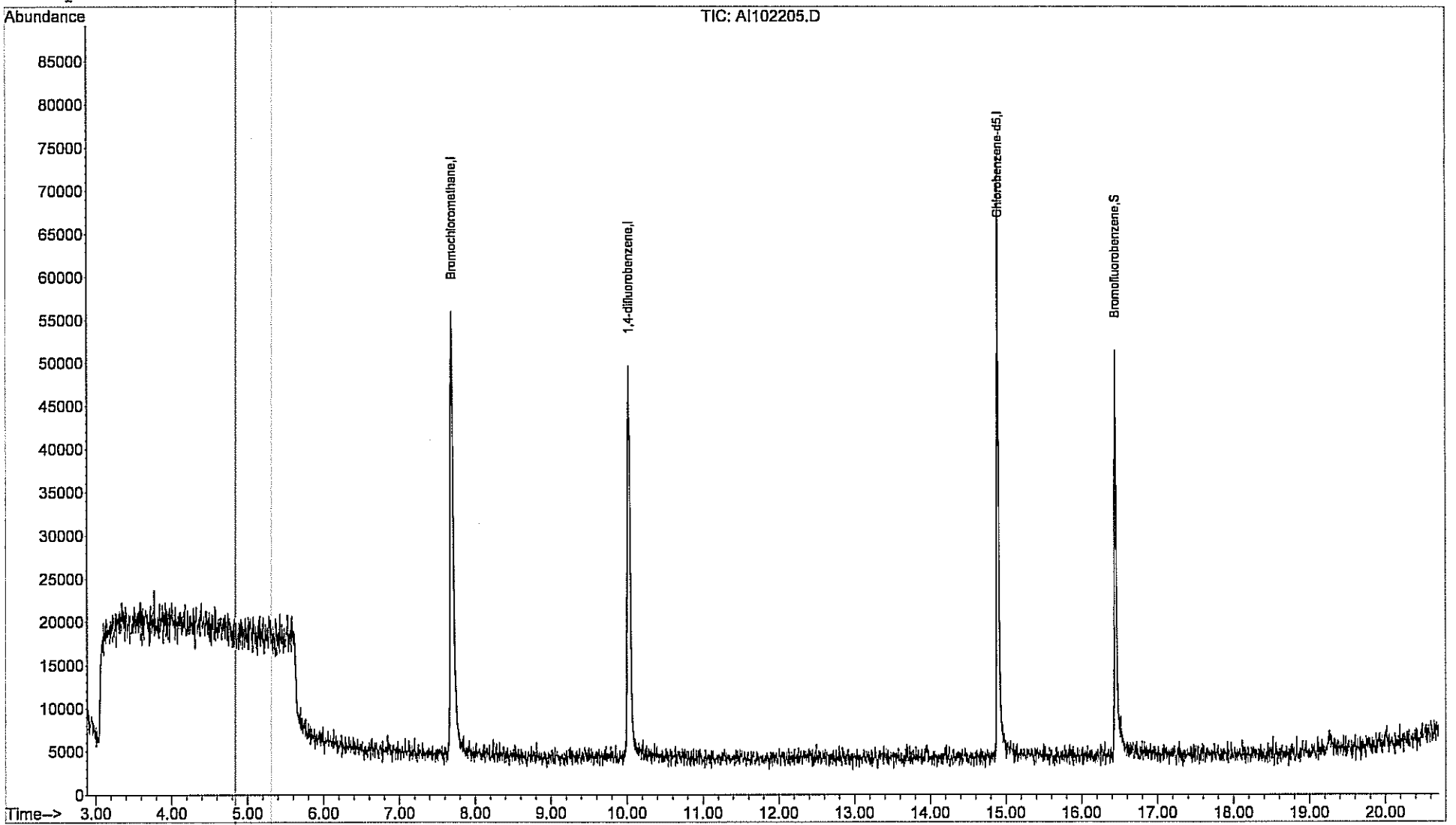
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	23683	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	53074	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	42699	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16273	0.75	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102205.D Vial: 43
Acq On : 22 Oct 2011 1:27 pm Operator: RJP
Sample : AMB1UG-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:46 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102404.D Vial: 4
Acq On : 24 Oct 2011 12:18 pm Operator: RJP
Sample : AMB1UG-102411 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 12:39:00 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

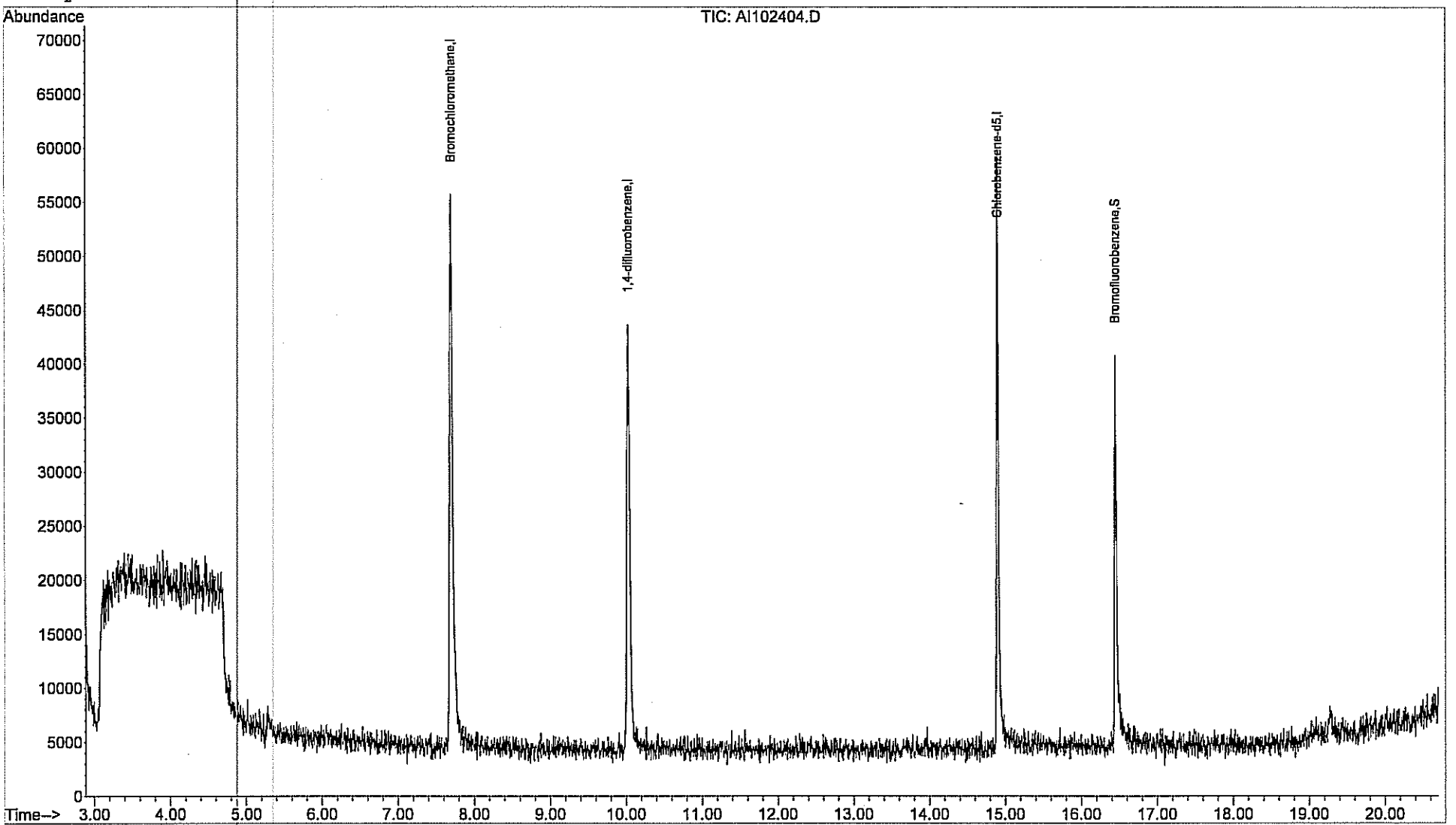
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	23204	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	46429	1.00	ppb	0.00
47) Chlorobenzene-d5	14.89	117	36276	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	13536	0.74	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 74.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102404.D A826_1UG.M Tue Nov 08 09:17:49 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102404.D Vial: 4
Acq On : 24 Oct 2011 12:18 pm Operator: RJP
Sample : AMB1UG-102411 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 14:03 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethene	1.140	0.15	1	0	114	70	130				
1,1,2,2-Tetrachloroethane	1.120	0.15	1	0	112	70	130				
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130				
1,1-Dichloroethane	0.8000	0.15	1	0	80.0	70	130				
1,1-Dichloroethene	0.9100	0.15	1	0	91.0	70	130				
1,2,4-Trichlorobenzene	0.8200	0.15	1	0	82.0	70	130				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	70	130				
1,2-Dibromoethane	1.010	0.15	1	0	101	70	130				
1,2-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,2-Dichloroethane	0.7400	0.15	1	0	74.0	70	130				
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130				
1,3,5-Trimethylbenzene	1.030	0.15	1	0	103	70	130				
1,3-butadiene	0.7300	0.15	1	0	73.0	70	130				
1,3-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,4-Dichlorobenzene	0.9000	0.15	1	0	90.0	70	130				
1,4-Dioxane	1.880	0.30	1	0	188	70	130				S
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130				
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130				
Acetone	1.100	0.30	1	0	110	70	130				
Allyl chloride	0.7700	0.15	1	0	77.0	70	130				
Benzene	0.9400	0.15	1	0	94.0	70	130				
Benzyl chloride	1.290	0.15	1	0	129	70	130				
Bromodichloromethane	1.070	0.15	1	0	107	70	130				
Bromoform	1.030	0.15	1	0	103	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.8300	0.15	1	0	83.0	70	130				
Carbon tetrachloride	1.110	0.15	1	0	111	70	130				
Chlorobenzene	0.9000	0.15	1	0	90.0	70	130				
Chloroethane	0.8600	0.15	1	0	86.0	70	130				
Chloroform	0.7800	0.15	1	0	78.0	70	130				
Chloromethane	0.8200	0.15	1	0	82.0	70	130				
cis-1,2-Dichloroethene	0.7100	0.15	1	0	71.0	70	130				
cis-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130				
Cyclohexane	0.9400	0.15	1	0	94.0	70	130				
Dibromochloromethane	1.080	0.15	1	0	108	70	130				
Ethyl acetate	1.120	0.25	1	0	112	70	130				
Ethylbenzene	0.7800	0.15	1	0	78.0	70	130				
Freon 11	0.9000	0.15	1	0	90.0	70	130				
Freon 113	0.9100	0.15	1	0	91.0	70	130				
Freon 114	0.8900	0.15	1	0	89.0	70	130				
Freon 12	0.8300	0.15	1	0	83.0	70	130				
Heptane	0.9400	0.15	1	0	94.0	70	130				
Hexachloro-1,3-butadiene	0.8900	0.15	1	0	89.0	70	130				
Hexane	0.7800	0.15	1	0	78.0	70	130				
Isopropyl alcohol	1.430	0.15	1	0	143	70	130				S
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Ethyl Ketone	1.250	0.30	1	0	125	70	130				
Methyl Isobutyl Ketone	1.900	0.30	1	0	190	70	130				S
Methyl tert-butyl ether	0.8600	0.15	1	0	86.0	70	130				
Methylene chloride	0.8800	0.15	1	0	88.0	70	130				
o-Xylene	1.060	0.15	1	0	106	70	130				
Propylene	0.7800	0.15	1	0	78.0	70	130				
Styrene	0.8200	0.15	1	0	82.0	70	130				
Tetrachloroethylene	0.9200	0.15	1	0	92.0	70	130				
Tetrahydrofuran	0.9200	0.15	1	0	92.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5070
Client ID: ZZZZZ	Batch ID: R5070	TestNo: TO-15		Analysis Date: 10/21/2011	SeqNo: 59853

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8400	0.15	1	0	84.0	70	130				
trans-1,2-Dichloroethene	0.7700	0.15	1	0	77.0	70	130				
trans-1,3-Dichloropropene	0.9600	0.15	1	0	96.0	70	130				
Trichloroethene	0.9900	0.15	1	0	99.0	70	130				
Vinyl acetate	0.7300	0.15	1	0	73.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	0.8600	0.15	1	0	86.0	70	130				

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.390	0.15	1	0	139	70	130				S
1,1,2,2-Tetrachloroethane	1.290	0.15	1	0	129	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethene	1.070	0.15	1	0	107	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.8500	0.15	1	0	85.0	70	130				
1,2-Dibromoethane	1.210	0.15	1	0	121	70	130				
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,2-Dichloroethane	0.8700	0.15	1	0	87.0	70	130				
1,2-Dichloropropane	1.310	0.15	1	0	131	70	130				S
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130				
1,3-butadiene	0.8200	0.15	1	0	82.0	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dioxane	1.270	0.30	1	0	127	70	130				
2,2,4-trimethylpentane	1.230	0.15	1	0	123	70	130				
4-ethyltoluene	0.7400	0.15	1	0	74.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.9800	0.30	1	0	98.0	70	130				
Allyl chloride	0.8300	0.15	1	0	83.0	70	130				
Benzene	1.250	0.15	1	0	125	70	130				
Benzyl chloride	0.8400	0.15	1	0	84.0	70	130				
Bromodichloromethane	1.320	0.15	1	0	132	70	130				S
Bromoform	1.200	0.15	1	0	120	70	130				
Bromomethane	1.090	0.15	1	0	109	70	130				
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130				
Carbon tetrachloride	1.560	0.15	1	0	156	70	130				S
Chlorobenzene	1.100	0.15	1	0	110	70	130				
Chloroethane	1.020	0.15	1	0	102	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.8500	0.15	1	0	85.0	70	130				
cis-1,3-Dichloropropene	1.140	0.15	1	0	114	70	130				
Cyclohexane	1.180	0.15	1	0	118	70	130				
Dibromochloromethane	1.430	0.15	1	0	143	70	130				S
Ethyl acetate	0.8400	0.25	1	0	84.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	1.090	0.15	1	0	109	70	130				
Freon 113	1.100	0.15	1	0	110	70	130				
Freon 114	1.060	0.15	1	0	106	70	130				
Freon 12	0.9600	0.15	1	0	96.0	70	130				
Heptane	1.170	0.15	1	0	117	70	130				
Hexachloro-1,3-butadiene	0.7200	0.15	1	0	72.0	70	130				
Hexane	0.8000	0.15	1	0	80.0	70	130				
Isopropyl alcohol	1.280	0.15	1	0	128	70	130				
m&p-Xylene	2.150	0.30	2	0	108	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl Isobutyl Ketone	1.230	0.30	1	0	123	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102211	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5071
Client ID: ZZZZZ	Batch ID: R5071	TestNo: TO-15		Analysis Date: 10/22/2011	SeqNo: 59858

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.8300	0.15	1	0	83.0	70	130				
Methylene chloride	1.000	0.15	1	0	100	70	130				
o-Xylene	1.050	0.15	1	0	105	70	130				
Propylene	0.7700	0.15	1	0	77.0	70	130				
Styrene	0.9200	0.15	1	0	92.0	70	130				
Tetrachloroethylene	1.200	0.15	1	0	120	70	130				
Tetrahydrofuran	0.8100	0.15	1	0	81.0	70	130				
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	1.230	0.15	1	0	123	70	130				
Trichloroethene	1.220	0.15	1	0	122	70	130				
Vinyl acetate	0.7500	0.15	1	0	75.0	70	130				
Vinyl Bromide	1.170	0.15	1	0	117	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.610	0.15	1	0	161	70	130				S
1,1,2,2-Tetrachloroethane	1.460	0.15	1	0	146	70	130				S
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130				
1,1-Dichloroethane	0.9600	0.15	1	0	96.0	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.390	0.15	1	0	139	70	130				S
1,2-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	1.510	0.15	1	0	151	70	130				S

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	1.140	0.15	1	0	114	70	130				
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130				
1,3-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dichlorobenzene	1.040	0.15	1	0	104	70	130				
1,4-Dioxane	1.510	0.30	1	0	151	70	130				S
2,2,4-trimethylpentane	1.270	0.15	1	0	127	70	130				
4-ethyltoluene	1.020	0.15	1	0	102	70	130				
Acetone	1.130	0.30	1	0	113	70	130				
Allyl chloride	0.9300	0.15	1	0	93.0	70	130				
Benzene	1.250	0.15	1	0	125	70	130				
Benzyl chloride	1.190	0.15	1	0	119	70	130				
Bromodichloromethane	1.500	0.15	1	0	150	70	130				S
Bromoform	1.410	0.15	1	0	141	70	130				S
Bromomethane	1.080	0.15	1	0	108	70	130				
Carbon disulfide	0.9700	0.15	1	0	97.0	70	130				
Carbon tetrachloride	1.530	0.15	1	0	153	70	130				S
Chlorobenzene	1.150	0.15	1	0	115	70	130				
Chloroethane	1.010	0.15	1	0	101	70	130				
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.8600	0.15	1	0	86.0	70	130				
cis-1,3-Dichloropropene	1.300	0.15	1	0	130	70	130				
Cyclohexane	1.240	0.15	1	0	124	70	130				
Dibromochloromethane	1.440	0.15	1	0	144	70	130				S
Ethyl acetate	0.8800	0.25	1	0	88.0	70	130				
Ethylbenzene	1.010	0.15	1	0	101	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	1.140	0.15	1	0	114	70	130				
Freon 114	1.090	0.15	1	0	109	70	130				
Freon 12	0.9800	0.15	1	0	98.0	70	130				
Heptane	1.240	0.15	1	0	124	70	130				

Qualifiers:

- . Results reported are not blank corrected
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM
Work Order: C1110030
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102411	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5074
Client ID: ZZZZZ	Batch ID: R5074	TestNo: TO-15		Analysis Date: 10/24/2011	SeqNo: 59887

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	1.000	0.15	1	0	100	70	130				
Hexane	0.8200	0.15	1	0	82.0	70	130				
Isopropyl alcohol	1.130	0.15	1	0	113	70	130				
m&p-Xylene	2.320	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.890	0.30	1	0	189	70	130				S
Methyl Ethyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Isobutyl Ketone	1.170	0.30	1	0	117	70	130				
Methyl tert-butyl ether	0.8200	0.15	1	0	82.0	70	130				
Methylene chloride	1.030	0.15	1	0	103	70	130				
o-Xylene	1.160	0.15	1	0	116	70	130				
Propylene	0.9000	0.15	1	0	90.0	70	130				
Styrene	1.020	0.15	1	0	102	70	130				
Tetrachloroethylene	1.270	0.15	1	0	127	70	130				
Tetrahydrofuran	0.9200	0.15	1	0	92.0	70	130				
Toluene	1.030	0.15	1	0	103	70	130				
trans-1,2-Dichloroethene	0.8900	0.15	1	0	89.0	70	130				
trans-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130				
Trichloroethene	1.220	0.15	1	0	122	70	130				
Vinyl acetate	0.8900	0.15	1	0	89.0	70	130				
Vinyl Bromide	1.160	0.15	1	0	116	70	130				
Vinyl chloride	1.020	0.15	1	0	102	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102103.D Vial: 4
Acq On : 21 Oct 2011 8:12 am Operator: RJP
Sample : ALCS1UG-102111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 08:33:09 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.68	128	30406	1.00	ppb		-0.02
32) 1,4-difluorobenzene	10.01	114	83817	1.00	ppb		-0.01
47) Chlorobenzene-d5	14.89	117	73799	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	32129	0.86	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	15662	0.78	ppb		94
3) Freon 12	2.97	85	108080	0.83	ppb		100
4) Chloromethane	3.12	50	26607	0.82	ppb		100
5) Freon 114	3.12	85	86868	0.89	ppb		95
6) Vinyl Chloride	3.26	62	24935	0.86	ppb		96
7) 1,3-butadiene	3.33	39	15511	0.73	ppb		80
8) Bromomethane	3.58	94	33271	0.89	ppb		99
9) Ethanol	3.86	45	8314	0.96	ppb	#	33
10) Acrolein	4.28	56	5967	0.74	ppb		84
11) Chloroethane	3.70	64	10628	0.86	ppb		93
12) Vinyl Bromide	3.95	106	34700	1.00	ppb		97
13) Freon 11	4.15	101	91165	0.90	ppb		98
14) Acetone	4.37	58	11802	1.10	ppb	#	56
15) Isopropyl alcohol	4.44	45	31269m	1.43	ppb		
16) 1,1-dichloroethene	4.76	96	29070	0.91	ppb	#	88
17) Freon 113	4.93	101	64628	0.91	ppb		96
18) Methylene chloride	5.16	84	24186	0.88	ppb	#	83
19) Allyl chloride	5.14	41	20970	0.77	ppb		92
20) Carbon disulfide	5.28	76	71280	0.83	ppb		98
21) trans-1,2-dichloroethene	5.99	61	36523	0.77	ppb		92
22) methyl tert-butyl ether	6.07	73	32701	0.86	ppb		80
23) 1,1-dichloroethane	6.38	63	47997	0.80	ppb		95
24) Vinyl acetate	6.45	43	33704	0.73	ppb		96
25) Methyl Ethyl Ketone	6.91	72	12486	1.25	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	31584	0.71	ppb		88
27) Hexane	6.90	57	28924	0.78	ppb		88
28) Ethyl acetate	7.50	43	48541	1.12	ppb		96
29) Chloroform	7.85	83	73120	0.78	ppb		98
30) Tetrahydrofuran	8.05	42	17471	0.92	ppb		98
31) 1,2-dichloroethane	8.93	62	42764	0.74	ppb		99
33) 1,1,1-trichloroethane	8.62	97	70677	1.14	ppb		99
34) Cyclohexane	9.32	56	25861	0.94	ppb		93
35) Carbon tetrachloride	9.26	117	92530	1.11	ppb		99
36) Benzene	9.23	78	67425	0.94	ppb		96
37) Methyl methacrylate	11.07	41	25608	1.50	ppb		87
38) 1,4-dioxane	11.09	88	18049m	1.88	ppb		
39) 2,2,4-trimethylpentane	10.20	57	76396	1.00	ppb		96
40) Heptane	10.62	43	24776	0.94	ppb		94
41) Trichloroethene	10.71	130	43366	0.99	ppb		99
42) 1,2-dichloropropane	10.84	63	25504	1.08	ppb		100
43) Bromodichloromethane	11.22	83	76868	1.07	ppb		98
44) cis-1,3-dichloropropene	12.13	75	34252	1.10	ppb		99
45) trans-1,3-dichloropropene	12.93	75	21999	0.96	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102103.D Vial: 4
Acq On : 21 Oct 2011 8:12 am Operator: RJP
Sample : ALCS1UG-102111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 08:33:09 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

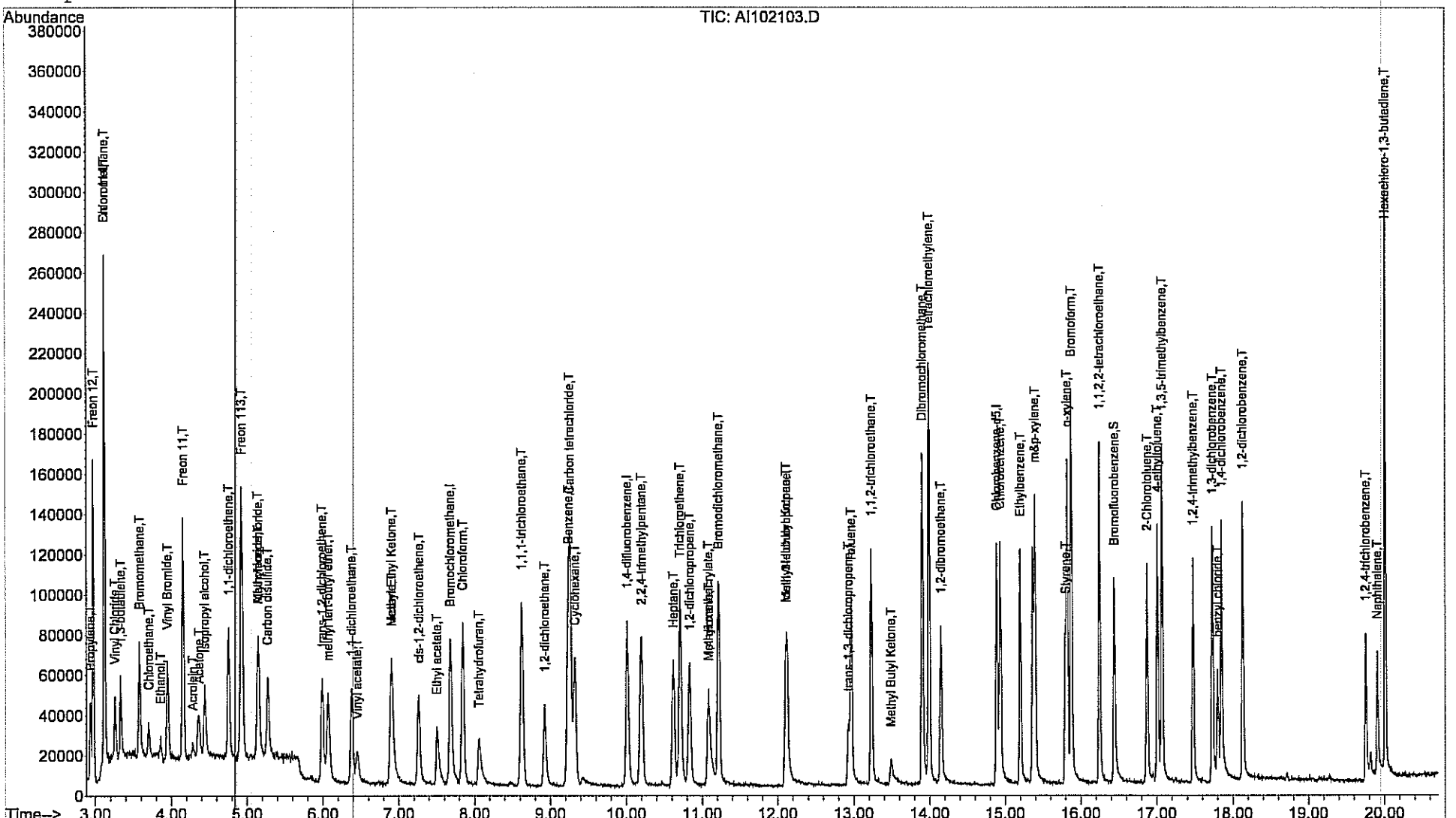
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	38126	1.04 ppb	100
48)	Toluene	12.97	92	40416	0.84 ppb	96
49)	Methyl Isobutyl Ketone	12.11	43	43057	1.90 ppb	98
50)	Dibromochloromethane	13.90	129	90368	1.08 ppb	100
51)	Methyl Butyl Ketone	13.49	43	13083	0.99 ppb	98
52)	1,2-dibromoethane	14.15	107	56741	1.01 ppb	100
53)	Tetrachloroethylene	13.99	164	47249	0.92 ppb	100
54)	Chlorobenzene	14.94	112	69438	0.90 ppb	97
55)	Ethylbenzene	15.20	91	77480	0.78 ppb	98
56)	m&p-xylene	15.39	91	142218	1.76 ppb	99
57)	Styrene	15.80	104	39846	0.82 ppb	98
58)	Bromoform	15.87	173	87712	1.03 ppb	100
59)	o-xylene	15.82	91	99478	1.06 ppb	90
61)	1,1,2,2-tetrachloroethane	16.25	83	74655	1.12 ppb	99
62)	2-Chlorotoluene	16.87	91	58999	0.98 ppb	100
63)	4-ethyltoluene	17.01	105	70933	0.92 ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	86822	1.03 ppb	98
65)	1,2,4-trimethylbenzene	17.48	105	57747	0.85 ppb	98
66)	1,3-dichlorobenzene	17.73	146	56188	0.90 ppb	98
67)	benzyl chloride	17.80	91	39838	1.29 ppb	99
68)	1,4-dichlorobenzene	17.85	146	53752	0.90 ppb	99
69)	1,2-dichlorobenzene	18.13	146	55788	0.90 ppb	96
70)	1,2,4-trichlorobenzene	19.76	180	24728	0.82 ppb	97
71)	Naphthalene	19.91	128	50707	1.27 ppb	96
72)	Hexachloro-1,3-butadiene	20.01	225	45875	0.89 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102103.D Vial: 4
Acq On : 21 Oct 2011 8:12 am Operator: RJP
Sample : ALCS1UG-102111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 12:25 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102204.D Vial: 42
Acq On : 22 Oct 2011 12:55 pm Operator: RJP
Sample : ALCS1UG-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 13:15:50 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	24212	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.01	114	57094	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	52148	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	25085	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	12265	0.77	ppb		97
3) Freon 12	2.97	85	99397	0.96	ppb		99
4) Chloromethane	3.12	50	26114	1.01	ppb		96
5) Freon 114	3.12	85	82563	1.06	ppb		96
6) Vinyl Chloride	3.26	62	23469	1.02	ppb		97
7) 1,3-butadiene	3.33	39	13956	0.82	ppb		83
8) Bromomethane	3.59	94	32372	1.09	ppb		100
9) Ethanol	3.85	45	6842	0.99	ppb	#	32
10) Acrolein	4.27	56	5771	0.90	ppb		84
11) Chloroethane	3.71	64	10056	1.02	ppb		96
12) Vinyl Bromide	3.95	106	32253	1.17	ppb		98
13) Freon 11	4.15	101	87601	1.09	ppb		100
14) Acetone	4.36	58	8382	0.98	ppb	#	59
15) Isopropyl alcohol	4.44	45	22407	1.28	ppb	#	100
16) 1,1-dichloroethene	4.76	96	27076	1.07	ppb		90
17) Freon 113	4.93	101	61788	1.10	ppb		95
18) Methylene chloride	5.16	84	21817	1.00	ppb	#	89
19) Allyl chloride	5.14	41	17894	0.83	ppb		78
20) Carbon disulfide	5.28	76	66970	0.98	ppb		97
21) trans-1,2-dichloroethene	5.99	61	33636	0.89	ppb		95
22) methyl tert-butyl ether	6.07	73	25066	0.83	ppb		84
23) 1,1-dichloroethane	6.38	63	44112	0.92	ppb		99
24) Vinyl acetate	6.45	43	27272	0.75	ppb		99
25) Methyl Ethyl Ketone	6.92	72	6783	0.86	ppb	#	100
26) cis-1,2-dichloroethene	7.26	61	30235	0.85	ppb		94
27) Hexane	6.90	57	23795	0.80	ppb		92
28) Ethyl acetate	7.50	43	29133	0.84	ppb		98
29) Chloroform	7.85	83	70812	0.95	ppb		100
30) Tetrahydrofuran	8.07	42	12251	0.81	ppb		98
31) 1,2-dichloroethane	8.93	62	40353	0.87	ppb		96
33) 1,1,1-trichloroethane	8.63	97	58440m	1.39	ppb		
34) Cyclohexane	9.33	56	21978	1.18	ppb	#	87
35) Carbon tetrachloride	9.26	117	88886	1.56	ppb		98
36) Benzene	9.24	78	61076	1.25	ppb		94
37) Methyl methacrylate	11.08	41	13076	1.12	ppb		90
38) 1,4-dioxane	11.10	88	8323m	1.27	ppb		
39) 2,2,4-trimethylpentane	10.20	57	63896	1.23	ppb		96
40) Heptane	10.63	43	20905	1.17	ppb		91
41) Trichloroethene	10.72	130	36419m	1.22	ppb		
42) 1,2-dichloropropane	10.83	63	21058m	1.31	ppb		
43) Bromodichloromethane	11.22	83	64722m	1.32	ppb		
44) cis-1,3-dichloropropene	12.13	75	24065m	1.14	ppb		
45) trans-1,3-dichloropropene	12.94	75	19153	1.23	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102204.D Vial: 42
Acq On : 22 Oct 2011 12:55 pm Operator: RJP
Sample : ALCS1UG-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 22 13:15:50 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

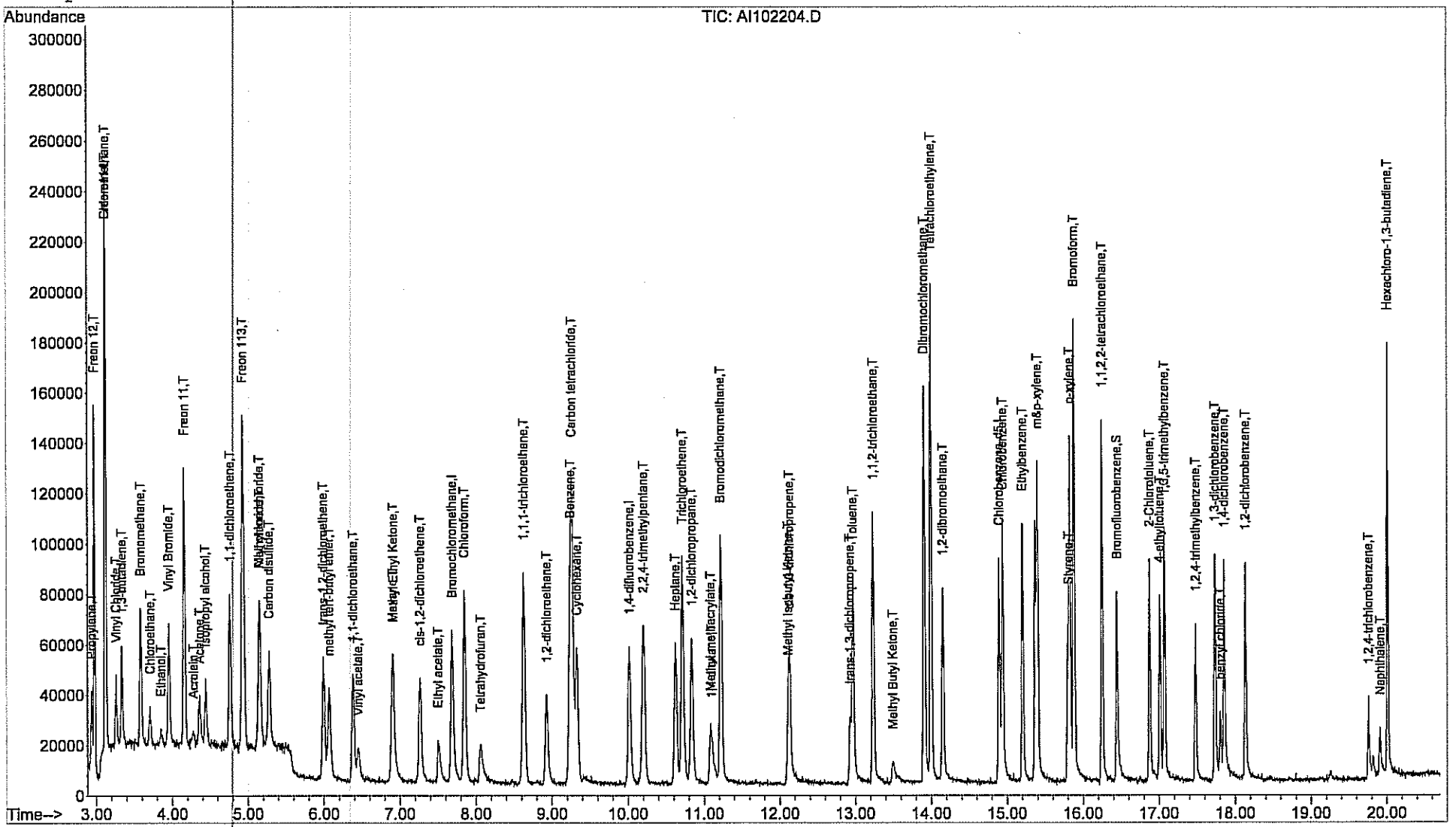
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	29053m	1.16	ppb	
48)	Toluene	12.96	92	35941	1.06	ppb	92
49)	Methyl Isobutyl Ketone	12.10	43	19717	1.23	ppb	98
50)	Dibromochloromethane	13.91	129	84359	1.43	ppb	100
51)	Methyl Butyl Ketone	13.49	43	8493	0.91	ppb	98
52)	1,2-dibromoethane	14.15	107	48184m	1.21	ppb	
53)	Tetrachloroethylene	14.00	164	43181	1.20	ppb	95
54)	Chlorobenzene	14.94	112	60198	1.10	ppb	99
55)	Ethylbenzene	15.20	91	68553	0.98	ppb	98
56)	m&p-xylene	15.40	91	122420	2.15	ppb	97
57)	Styrene	15.80	104	31677	0.92	ppb	100
58)	Bromoform	15.88	173	72281m	1.20	ppb	
59)	o-xylene	15.83	91	69458	1.05	ppb	97
61)	1,1,2,2-tetrachloroethane	16.25	83	60655	1.29	ppb	97
62)	2-Chlorotoluene	16.87	91	46663	1.10	ppb	99
63)	4-ethyltoluene	17.01	105	40335	0.74	ppb	97
64)	1,3,5-trimethylbenzene	17.07	105	52390	0.88	ppb	99
65)	1,2,4-trimethylbenzene	17.48	105	40891m	0.85	ppb	
66)	1,3-dichlorobenzene	17.73	146	38430	0.87	ppb	98
67)	benzyl chloride	17.80	91	18382	0.84	ppb	95
68)	1,4-dichlorobenzene	17.85	146	36513	0.87	ppb	97
69)	1,2-dichlorobenzene	18.14	146	34896	0.80	ppb	96
70)	1,2,4-trichlorobenzene	19.76	180	15470m	0.73	ppb	
71)	Naphthalene	19.91	128	21298m	0.75	ppb	
72)	Hexachloro-1,3-butadiene	20.01	225	26210	0.72	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102204.D Vial: 42
Acq On : 22 Oct 2011 12:55 pm Operator: RJP
Sample : ALCS1UG-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 8:45 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



AI102204.D A826_1UG.M Tue Nov 08 09:17:38 2011 MSD1 Page 3

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102403.D Vial: 3
Acq On : 24 Oct 2011 11:46 am Operator: RJP
Sample : ALCS1UG-102411 Inst : MSD #1
Misc : Multiplr: 1.00

MS Integration Params: RTEINT.P
Quant Time: Oct 24 12:07:27 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	24631	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	58546	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	54063	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.44	95	23809	0.87	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	14618	0.90	ppb		90
3) Freon 12	2.98	85	103018	0.98	ppb		99
4) Chloromethane	3.12	50	26581	1.01	ppb		97
5) Freon 114	3.12	85	86270	1.09	ppb		97
6) Vinyl Chloride	3.26	62	23904	1.02	ppb		97
7) 1,3-butadiene	3.33	39	15762	0.91	ppb		87
8) Bromomethane	3.58	94	32582	1.08	ppb		98
9) Ethanol	3.85	45	7190	1.03	ppb	#	40
10) Acrolein	4.29	56	5917	0.91	ppb		97
11) Chloroethane	3.70	64	10116	1.01	ppb		96
12) Vinyl Bromide	3.95	106	32566	1.16	ppb		99
13) Freon 11	4.16	101	86759	1.06	ppb		98
14) Acetone	4.36	58	9825	1.13	ppb		91
15) Isopropyl alcohol	4.45	45	20069	1.13	ppb	#	100
16) 1,1-dichloroethene	4.76	96	28621	1.11	ppb	#	86
17) Freon 113	4.93	101	65196	1.14	ppb		97
18) Methylene chloride	5.16	84	22859	1.03	ppb	#	88
19) Allyl chloride	5.14	41	20449	0.93	ppb		86
20) Carbon disulfide	5.28	76	67740	0.97	ppb		98
21) trans-1,2-dichloroethene	5.99	61	34457	0.89	ppb		86
22) methyl tert-butyl ether	6.07	73	25275	0.82	ppb		90
23) 1,1-dichloroethane	6.38	63	46751	0.96	ppb		96
24) Vinyl acetate	6.45	43	33105	0.89	ppb		97
25) Methyl Ethyl Ketone	6.92	72	6827	0.85	ppb	#	100
26) cis-1,2-dichloroethene	7.27	61	31061	0.86	ppb		89
27) Hexane	6.90	57	24665	0.82	ppb		97
28) Ethyl acetate	7.51	43	30843	0.88	ppb		99
29) Chloroform	7.85	83	71996	0.95	ppb		99
30) Tetrahydrofuran	8.06	42	14109	0.92	ppb		96
31) 1,2-dichloroethane	8.92	62	41849	0.89	ppb		100
33) 1,1,1-trichloroethane	8.63	97	69442	1.61	ppb		98
34) Cyclohexane	9.33	56	23740	1.24	ppb		89
35) Carbon tetrachloride	9.26	117	89430	1.53	ppb		100
36) Benzene	9.24	78	62807	1.25	ppb		97
37) Methyl methacrylate	11.08	41	13232	1.11	ppb	#	87
38) 1,4-dioxane	11.11	88	10157	1.51	ppb		98
39) 2,2,4-trimethylpentane	10.20	57	67504	1.27	ppb		97
40) Heptane	10.62	43	22827	1.24	ppb		95
41) Trichloroethene	10.72	130	37467m	1.22	ppb		
42) 1,2-dichloropropane	10.83	63	24785	1.51	ppb		96
43) Bromodichloromethane	11.22	83	75226	1.50	ppb		99
44) cis-1,3-dichloropropene	12.13	75	28200m	1.30	ppb		
45) trans-1,3-dichloropropene	12.94	75	17901m	1.12	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102403.D Vial: 3
Acq On : 24 Oct 2011 11:46 am Operator: RJP
Sample : ALCS1UG-102411 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 12:07:27 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

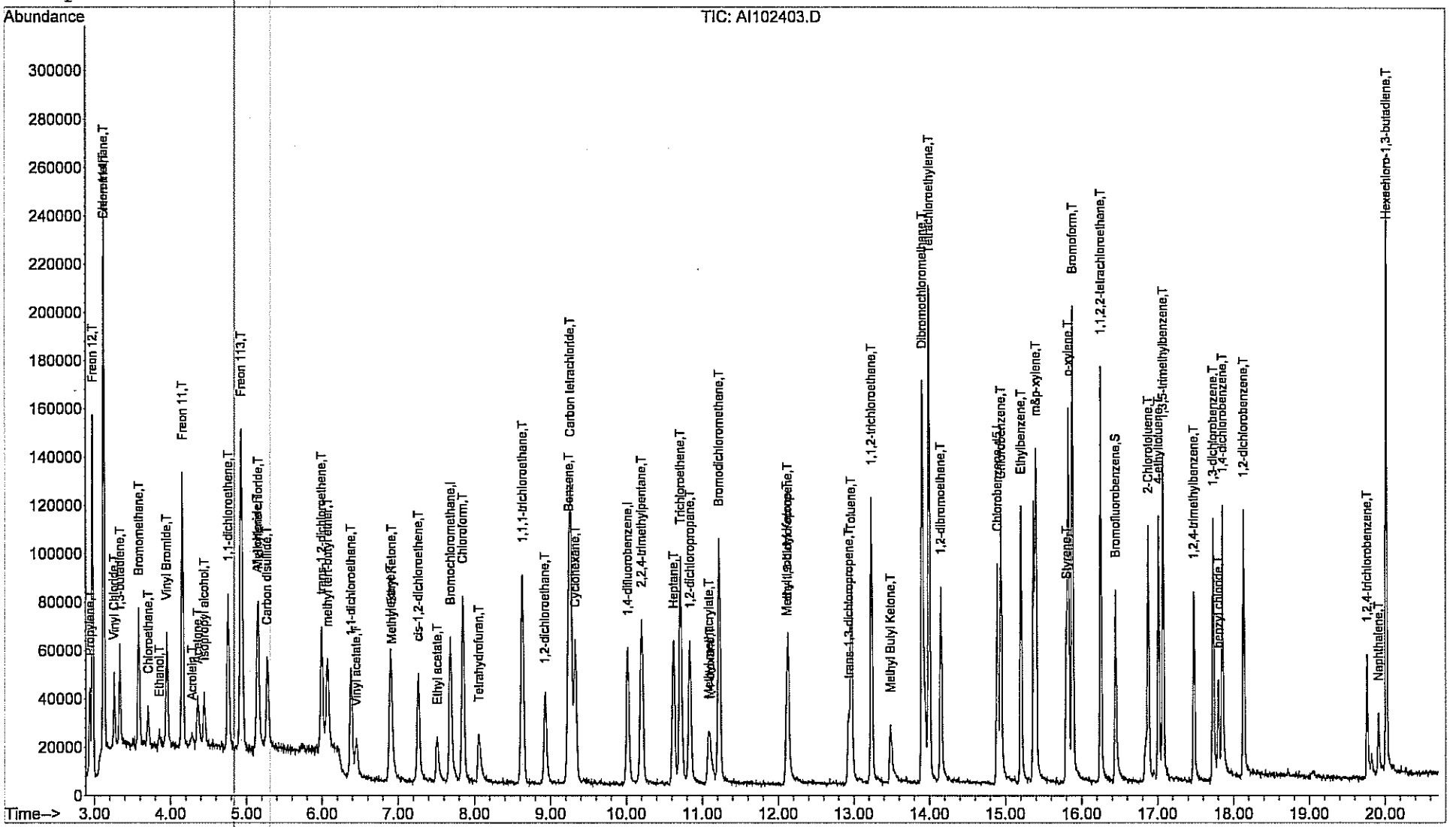
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.23	97	31760m	1.24	ppb	
48)	Toluene	12.97	92	36199	1.03	ppb	95
49)	Methyl Isobutyl Ketone	12.11	43	19378m	1.17	ppb	
50)	Dibromochloromethane	13.91	129	88281	1.44	ppb	100
51)	Methyl Butyl Ketone	13.49	43	18379m	1.89	ppb	
52)	1,2-dibromoethane	14.15	107	57266	1.39	ppb	98
53)	Tetrachloroethylene	13.99	164	47456	1.27	ppb	97
54)	Chlorobenzene	14.94	112	65115	1.15	ppb	96
55)	Ethylbenzene	15.20	91	73261	1.01	ppb	99
56)	m&p-xylene	15.40	91	136931	2.32	ppb	100
57)	Styrene	15.80	104	36343	1.02	ppb	99
58)	Bromoform	15.88	173	87860	1.41	ppb	100
59)	o-xylene	15.82	91	79904	1.16	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	71133	1.46	ppb	99
62)	2-Chlorotoluene	16.88	91	56792	1.29	ppb	99
63)	4-ethyltoluene	17.01	105	57676	1.02	ppb	98
64)	1,3,5-trimethylbenzene	17.07	105	70541	1.14	ppb	97
65)	1,2,4-trimethylbenzene	17.48	105	41030	0.82	ppb	99
66)	1,3-dichlorobenzene	17.73	146	48984	1.07	ppb	98
67)	benzyl chloride	17.80	91	27109	1.19	ppb	99
68)	1,4-dichlorobenzene	17.85	146	45236	1.04	ppb	96
69)	1,2-dichlorobenzene	18.14	146	45737	1.01	ppb	98
70)	1,2,4-trichlorobenzene	19.76	180	17412	0.79	ppb	99
71)	Naphthalene	19.91	128	23165m	0.79	ppb	
72)	Hexachloro-1,3-butadiene	20.02	225	37620	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102403.D Vial: 3
Acq On : 24 Oct 2011 11:46 am Operator: RJP
Sample : ALCS1UG-102411 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 24 14:03 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



AI102403.D A826_1UG.M Tue Nov 08 09:17:47 2011 MSD1 Page 3

Centek Laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102120.D Vial: 21
Acq On : 21 Oct 2011 5:49 pm Operator: RJP
Sample : ALCS1UGD-10211 Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 18:10:47 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.70	128	25943	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.03	114	77178	1.00	ppb		0.00
47) Chlorobenzene-d5	14.90	117	60085	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	27702	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	11445	0.67	ppb		92
3) Freon 12	2.98	85	91169	0.82	ppb		99
4) Chloromethane	3.12	50	22937	0.83	ppb		99
5) Freon 114	3.13	85	75430	0.90	ppb		93
6) Vinyl Chloride	3.27	62	21565	0.87	ppb		99
7) 1,3-butadiene	3.34	39	12310	0.68	ppb		84
8) Bromomethane	3.59	94	29387	0.92	ppb		99
9) Ethanol	3.91	45	975	0.13	ppb		62
10) Acrolein	4.28	56	4756	0.69	ppb		96
11) Chloroethane	3.71	64	9150	0.87	ppb		95
12) Vinyl Bromide	3.96	106	29689	1.01	ppb		99
13) Freon 11	4.16	101	83516	0.97	ppb		100
14) Acetone	4.38	58	6410	0.70	ppb		89
15) Isopropyl alcohol	4.45	45	8238	0.44	ppb	#	100
16) 1,1-dichloroethene	4.77	96	21926	0.81	ppb		98
17) Freon 113	4.94	101	60969	1.01	ppb		96
18) Methylene chloride	5.16	84	21312	0.91	ppb		89
19) Allyl chloride	5.15	41	15360	0.66	ppb		90
20) Carbon disulfide	5.29	76	66877	0.91	ppb		99
21) trans-1,2-dichloroethene	6.00	61	27484	0.68	ppb		90
22) methyl tert-butyl ether	6.09	73	15728	0.48	ppb		87
23) 1,1-dichloroethane	6.39	63	36347	0.71	ppb		93
24) Vinyl acetate	6.47	43	19152	0.49	ppb		100
26) cis-1,2-dichloroethene	7.27	61	24929	0.66	ppb		92
27) Hexane	6.92	57	17724	0.56	ppb		94
28) Ethyl acetate	7.53	43	9944	0.27	ppb		95
29) Chloroform	7.85	83	62001	0.78	ppb		99
30) Tetrahydrofuran	8.09	42	6003	0.37	ppb		94
31) 1,2-dichloroethane	8.93	62	36168	0.73	ppb		99
33) 1,1,1-trichloroethane	8.64	97	55034	0.97	ppb		95
34) Cyclohexane	9.33	56	21110	0.84	ppb	#	87
35) Carbon tetrachloride	9.27	117	83519	1.09	ppb		99
36) Benzene	9.24	78	54666	0.83	ppb		96
37) Methyl methacrylate	11.10	41	3679	0.23	ppb	#	84
38) 1,4-dioxane	11.16	88	2908	0.33	ppb		94
39) 2,2,4-trimethylpentane	10.21	57	60691	0.86	ppb		97
40) Heptane	10.63	43	19906	0.82	ppb		95
41) Trichloroethene	10.72	130	36443	0.90	ppb		99
42) 1,2-dichloropropane	10.84	63	19790	0.91	ppb		99
43) Bromodichloromethane	11.22	83	66371	1.00	ppb		99
44) cis-1,3-dichloropropene	12.14	75	21523	0.75	ppb		95
45) trans-1,3-dichloropropene	12.94	75	14028	0.67	ppb		97
46) 1,1,2-trichloroethane	13.24	97	28669	0.85	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102120.D Vial: 21
Acq On : 21 Oct 2011 5:49 pm Operator: RJP
Sample : ALCS1UGD-10211 Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 18:10:47 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

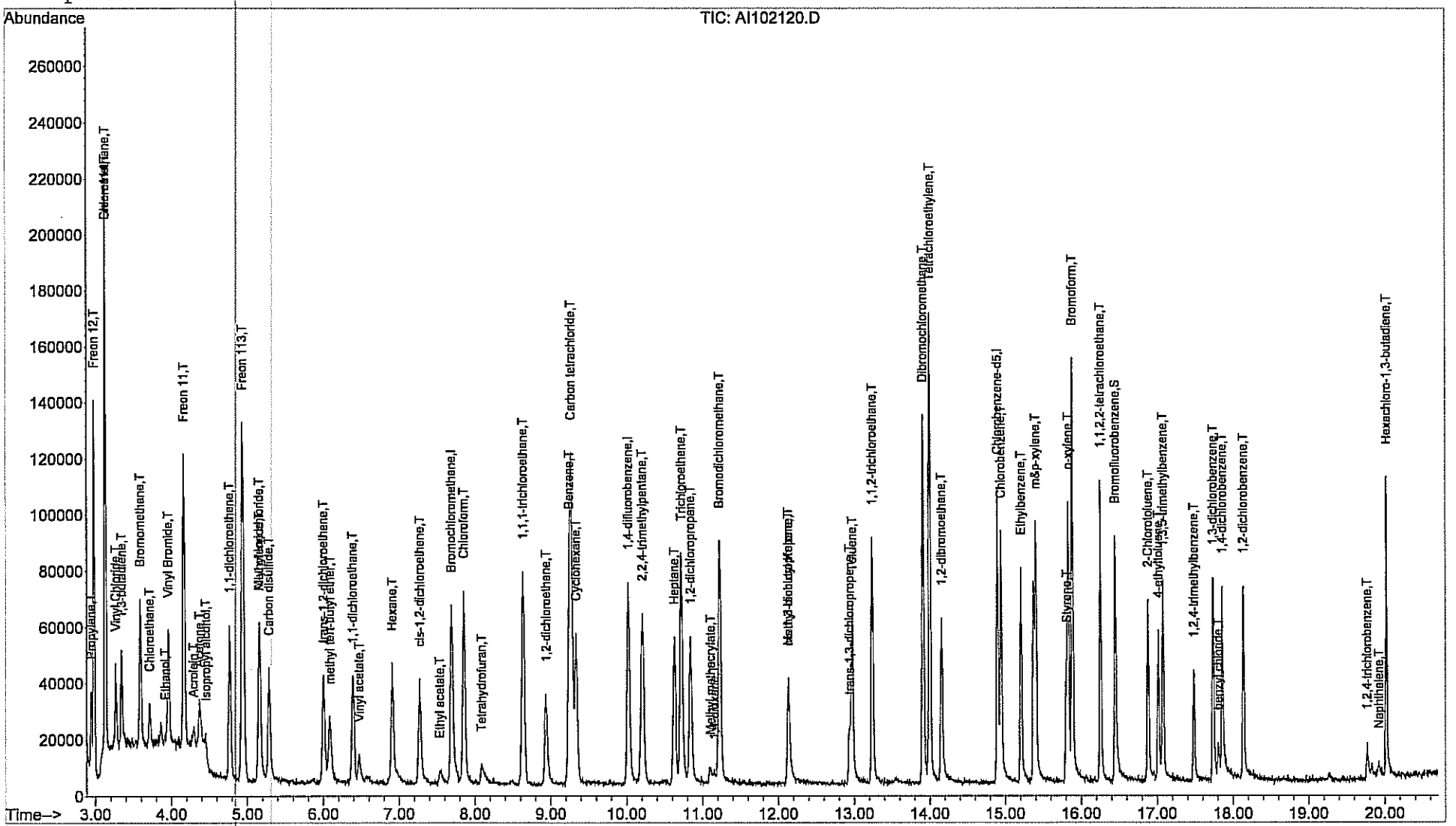
	Compound	R.T.	QIon	Response	Conc	Unit		Qvalue
48)	Toluene	12.97	92	26769	0.68	ppb		97
49)	Methyl Isobutyl Ketone	12.13	43	8164	0.44	ppb		95
50)	Dibromochloromethane	13.91	129	71955	1.06	ppb		100
52)	1,2-dibromoethane	14.15	107	42337	0.92	ppb		100
53)	Tetrachloroethylene	14.00	164	36676	0.88	ppb		100
54)	Chlorobenzene	14.94	112	49058	0.78	ppb		97
55)	Ethylbenzene	15.21	91	52146	0.65	ppb		99
56)	m&p-xylene	15.40	91	91842	1.40	ppb		99
57)	Styrene	15.80	104	22605	0.57	ppb		94
58)	Bromoform	15.88	173	66882	0.97	ppb		99
59)	o-xylene	15.83	91	50093	0.66	ppb		100
61)	1,1,2,2-tetrachloroethane	16.25	83	43708	0.81	ppb		99
62)	2-Chlorotoluene	16.88	91	34438	0.70	ppb		98
63)	4-ethyltoluene	17.02	105	29795	0.47	ppb		96
64)	1,3,5-trimethylbenzene	17.07	105	38722	0.56	ppb		100
65)	1,2,4-trimethylbenzene	17.48	105	22123	0.40	ppb		99
66)	1,3-dichlorobenzene	17.74	146	33353	0.65	ppb		99
67)	benzyl chloride	17.80	91	8186	0.32	ppb		100
68)	1,4-dichlorobenzene	17.86	146	28438	0.59	ppb		94
69)	1,2-dichlorobenzene	18.14	146	30100	0.60	ppb		96
70)	1,2,4-trichlorobenzene	19.77	180	4149	0.17	ppb	#	73
71)	Naphthalene	19.92	128	4938	0.15	ppb		92
72)	Hexachloro-1,3-butadiene	20.02	225	15704	0.37	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI102120.D A826_1UG.M Tue Nov 08 09:17:35 2011 MSD1 Page 2

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102120.D Vial: 21
Acq On : 21 Oct 2011 5:49 pm Operator: RJP
Sample : ALCS1UGD-10211 Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 17:10 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102225.D Vial: 63
Acq On : 23 Oct 2011 12:42 am Operator: RJP
Sample : ALCS1UGD-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 01:03:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.69	128	21899	1.00	ppb		0.00
32) 1,4-difluorobenzene	10.02	114	48217	1.00	ppb		0.00
47) Chlorobenzene-d5	14.89	117	45803	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.45	95	20995	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.94	41	11798	0.81	ppb		91
3) Freon 12	2.98	85	92596	0.99	ppb		98
4) Chloromethane	3.12	50	22444	0.96	ppb		95
5) Freon 114	3.12	85	78222	1.11	ppb		94
6) Vinyl Chloride	3.26	62	22083	1.06	ppb		100
7) 1,3-butadiene	3.33	39	12731	0.83	ppb		83
8) Bromomethane	3.58	94	30118	1.12	ppb		95
9) Ethanol	3.86	45	2998	0.48	ppb	#	84
10) Acrolein	4.28	56	5444	0.94	ppb		88
11) Chloroethane	3.71	64	9023	1.01	ppb		97
12) Vinyl Bromide	3.95	106	30163	1.21	ppb		98
13) Freon 11	4.16	101	83974	1.16	ppb		99
14) Acetone	4.36	58	4572	0.59	ppb	#	65
16) 1,1-dichloroethene	4.76	96	26084	1.14	ppb	#	86
17) Freon 113	4.94	101	60129	1.18	ppb		95
18) Methylene chloride	5.15	84	22257	1.13	ppb		92
19) Allyl chloride	5.14	41	16572	0.85	ppb		85
20) Carbon disulfide	5.28	76	66419	1.07	ppb		99
21) trans-1,2-dichloroethene	6.00	61	29536	0.86	ppb		93
22) methyl tert-butyl ether	6.08	73	14758	0.54	ppb		89
23) 1,1-dichloroethane	6.38	63	39555	0.91	ppb		97
24) Vinyl acetate	6.46	43	21869	0.66	ppb		98
26) cis-1,2-dichloroethene	7.27	61	27557	0.86	ppb		96
27) Hexane	6.91	57	18711	0.70	ppb		96
28) Ethyl acetate	7.52	43	5663	0.18	ppb		92
29) Chloroform	7.85	83	65581	0.97	ppb		99
30) Tetrahydrofuran	8.07	42	4721	0.35	ppb		90
31) 1,2-dichloroethane	8.93	62	36482	0.87	ppb		100
33) 1,1,1-trichloroethane	8.63	97	59443	1.67	ppb		99
34) Cyclohexane	9.33	56	19884	1.26	ppb	#	88
35) Carbon tetrachloride	9.27	117	84372	1.76	ppb		99
36) Benzene	9.23	78	55479	1.34	ppb		94
37) Methyl methacrylate	11.10	41	1547	0.16	ppb	#	73
38) 1,4-dioxane	11.14	88	2967	0.54	ppb	#	32
39) 2,2,4-trimethylpentane	10.20	57	57927	1.32	ppb		99
40) Heptane	10.62	43	20217	1.34	ppb		94
41) Trichloroethene	10.72	130	36752	1.46	ppb		99
42) 1,2-dichloropropane	10.84	63	21048	1.55	ppb		99
43) Bromodichloromethane	11.22	83	69373	1.68	ppb		98
44) cis-1,3-dichloropropene	12.13	75	23010	1.29	ppb		96
45) trans-1,3-dichloropropene	12.93	75	17547	1.33	ppb		94
46) 1,1,2-trichloroethane	13.23	97	32790	1.55	ppb		97
48) Toluene	12.97	92	31033	1.04	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102225.D Vial: 63
Acq On : 23 Oct 2011 12:42 am Operator: RJP
Sample : ALCS1UGD-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 01:03:37 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

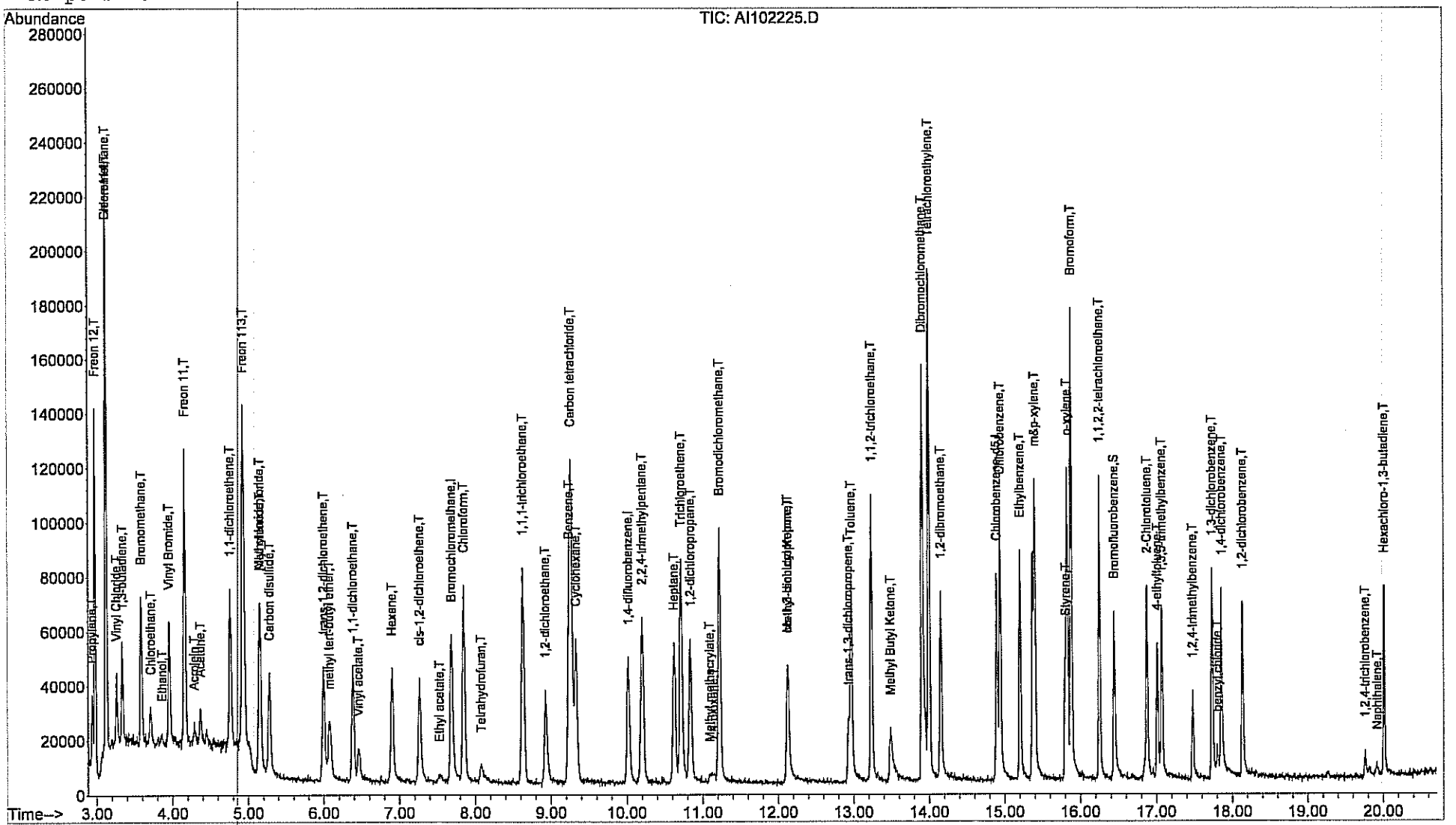
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
49)	Methyl Isobutyl Ketone	12.12	43	11662	0.83	ppb	92
50)	Dibromochloromethane	13.91	129	81510	1.57	ppb	99
51)	Methyl Butyl Ketone	13.48	43	18740	2.28	ppb	92
52)	1,2-dibromoethane	14.15	107	49145	1.40	ppb	98
53)	Tetrachloroethylene	13.99	164	41965	1.32	ppb	100
54)	Chlorobenzene	14.94	112	55427	1.15	ppb	97
55)	Ethylbenzene	15.20	91	57715	0.94	ppb	99
56)	m&p-xylene	15.40	91	106953	2.14	ppb	100
57)	Styrene	15.80	104	25769	0.86	ppb	97
58)	Bromoform	15.88	173	78810	1.50	ppb	100
59)	o-xylene	15.82	91	58409	1.00	ppb	99
61)	1,1,2,2-tetrachloroethane	16.25	83	46488	1.13	ppb	100
62)	2-Chlorotoluene	16.88	91	37972	1.02	ppb	98
63)	4-ethyltoluene	17.01	105	28086	0.59	ppb	100
64)	1,3,5-trimethylbenzene	17.07	105	33002	0.63	ppb	99
65)	1,2,4-trimethylbenzene	17.48	105	17142	0.40	ppb	99
66)	1,3-dichlorobenzene	17.73	146	32907	0.85	ppb	96
67)	benzyl chloride	17.80	91	7522	0.39	ppb	99
68)	1,4-dichlorobenzene	17.85	146	31128	0.84	ppb	97
69)	1,2-dichlorobenzene	18.13	146	28376	0.74	ppb	95
70)	1,2,4-trichlorobenzene	19.76	180	3145	0.17	ppb	93
71)	Naphthalene	19.91	128	3806	0.15	ppb	95
72)	Hexachloro-1,3-butadiene	20.01	225	11375	0.36	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI102225.D Vial: 63
Acq On : 23 Oct 2011 12:42 am Operator: RJP
Sample : ALCS1UGD-102211 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 23 0:03 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 08 09:14:54 2011
Response via : Initial Calibration



AI102225.D A826_1UG.M Tue Nov 08 09:17:44 2011 MSD1 Page 3

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8648
Standard Stock #(s) 8648
LCS Stock #(s) 8647
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	DFBLUG	AI082601	-		A826-106		8/26/11	0713		
	A1UG-1.0	02	-							
	2.0	03	-							
	1.5	04	-							
	1.0	06	-	200						
	0.50	07	-							
	0.30	09	-							
	0.15	10	-							
	0.04	12	-							
	0.04	13	-							
	BLK	14	-					0746		

Analyzed by: _____

Page No: 105

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8734
Standard Stock #(s) 8735
LCS Stock #(s) 8736
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1110031-003	AZ102125	-	200	A828-10L		10/21/11	2235		
	C1110030-001	30	-	↓	↓		↓			
	002	31	-				10/22/11	0011		
	003	32	-							
	C1110036-001	33	-							
	002	34	-							
	003	35	-							
	004	36	-							
	005	37	-					0323		
	006	38	-				-	-		
	BLK	39	-	-						
	BFB10G	AZ102201	-	-	A828-10G		10/22/11	1035		
	AUG-10	03	-	200						
	ALCS10G-102211	04	-							
	AMB10G	05	-	↓						
	C1110035-001AL	06	10	20						
	C1110032-001	07	5	40						
	002	08	10	20						
	003	09	↓	↓						
	C1110031-001	10	5	40						
	002	11	↓	↓						
	003	12	10	20						
	C1110030-001	13	↓	↓						
	002	15	↓	↓						
	↓	16	40	5						
	↓	17	50	2						
	C1110036-001	19	20	10	↓		6	2123		

Analyzed by: [signature]

Page No: 137

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8734 8748
Standard Stock #(s) 8735 8749
LCS Stock #(s) 8736 8750
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1110036-002 DL	AI102220	5	40	A828.10L		10/22/11	2156		
	003	21								
	004	22								
	005	23								
	006	24					10/23/11	0026		
	ALCS10GD-102211	25	-	200				0042		
	BLK	26	-	-			-	-		
	BEB10L	AI102409	-	-	A828.10L		10/24/11	0839		
	A10G-1.0	02	-	200						
	ALCS10G-102411	03	-							
	AMB10L	04	-							
	C1110030-001 DL	06	150	10(5)				1359		
	BLK	07	-	-						
	BEB10L	AI102601	-	-	A828.10L		10/26/11	0911	**	
	A10G-1.0	03	-	200						
	ALCS10G-102611	04	-							
	AMB10L	05	-							
	C1110041-001	07	-							
	002	08	-							
	C1110045-001	09	-							
	DL	10	10	20						
	C1110041-001	11								
		13	90	20(5)						
	002	14	10	20						
		15	40	5						
	ALCS10GD-102611	17		200				1950		

Analyzed by:

Page No: 135

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/2446	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	%VARIES	10L	MATHESON TRI-GAS		MD	
7620	1/25/10	2/1/10	TO15 IUT IS(A)	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
7621	↓	↓	↓ STD(A)	7617/7618 7384						
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624			↓ STD(A)	7621						
7625			↓ LCS	7622	↓					
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓	

RECERT. ON 3/11 EXP 3/12

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743AHB	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336			4PCH	7384	↓	↓	↓	↓		
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8333	50 ppb	0.9 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD D	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 PSIG	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348			STD	8345/46	↓	↓	↓	↓		
8349			LCS	~~8346~~ 2617/15						
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SIL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.9 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8647	8/26/11	8/29/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8649	8/29/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8650			STD	8345/8346						
8651			LCS	7617/7618						
8652			4PCH	7384						
8653			SULF/SILX	8615/6194						
8654			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8655			FORM50	8643	10ppm	0.23psig	45psia	50ppb		
8656			TO15UG IS (CA)	8649	50ppb	0.9psig	45psia	1ppb		
8657			STD (CA)	8650						
8658			LCS	8651						
8659	8/30/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
8660	9/1/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	I.L.	
* 8661	9/5/11	9/12/11	IS MIX	CUSTOM GAS		LOT # 080311-002			MD	
8662	9/5/11	9/12/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb		
8663			STD	8345/8346						
8663A			LCS	7617/7618						
8664			4-PCH	7384						
8665			SUL/SIL	8615/6554						
8666			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8667			FORM50	8666	10ppm	0.23psig	45psia	50ppb		

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8731	10/17/11	10/24/11	TO15 FORM	7068	36.5%	1.1ul	50psig	10ppm	L.L.	
8732	10/17/11	10/24/11	FORM 5D	8731	10ppm	0.23psig	45psia	50ppb		
8733	↓	↓	↓ SILX/SULF	6194/8614	1ppm	1.5psig	30psia	50ppb	↓	
8734	10/17/11	10/24/11	TO15UG IS(A)	8727	50ppb	0.9psig	45psia	1ppb	M	
8735	↓	↓	↓ STD(A)	8728	↓	↓	↓	↓	↓	
8736	↓	↓	↓ LCS	8729	↓	↓	↓	↓	↓	
8737	10/19/11	10/24/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb	L.L.	
8738	↓	↓	TO15UG IS(B)	8737	50ppb	0.9psig	45psia	1ppb	↓	
8739	↓	↓	↓ STD(B)	8728	↓	↓	↓	↓	↓	
8740	10/21/11	10/24/11	TO15UG IS(B)	8737	50ppb	0.9psig	45psia	1ppb	L.L.	
8741	10/24/11	10/31/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb	M	
8742	↓	↓	↓ STD	8345/8346	↓	↓	↓	↓	↓	
8743	↓	↓	↓ LCS	7617/7618	↓	↓	↓	↓	↓	
8744	↓	↓	↓ 4RCH	7384	↓	↓	↓	↓	↓	
8745	↓	↓	↓ FORM	7068	36.5%	1.1ul	50psig	10ppm	MP	
8746	↓	↓	↓ FORM 5D	8745	10ppm	0.23psig	45psia	50ppb	↓	
8747	↓	↓	↓ SILX/SULF	6194/8615	1ppm	1.5psig	30psia	50ppb	↓	
8748	10/26/11	10/31/11	TO15UG IS(A)	8741	50ppb	0.5psig	45psia	1ppb	M	
8749	↓	↓	↓ STD(A)	8742	↓	↓	↓	↓	↓	
8750	↓	↓	↓ LCS	8743	↓	↓	↓	↓	↓	

Page # 22

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
334	284	30	10-5-11	WAC100511A	1ug/m3 +0.25	+ 30	+ 30
86	↓	↓	↓	↓	TCE, CT, VNCL	+	+
370					↓	+	+
163						+	+
284	↓			↓		+	+
333	107			WAC100511B		+	+
316	↓			↓		+	+
568						+	+
245						+	+
107	↓			↓		+	+
225	552			WAC100511E		+	+
564	↓			↓		+	+
234						+	+
203						+	+
552	↓	↓	↓	↓	↓	+ ↓	+ ↓
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L

Page # 70

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100508.D Vial: 21
Acq On : 5 Oct 2011 3:49 pm Operator: RJP
Sample : WAC100511A Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 16:12:07 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

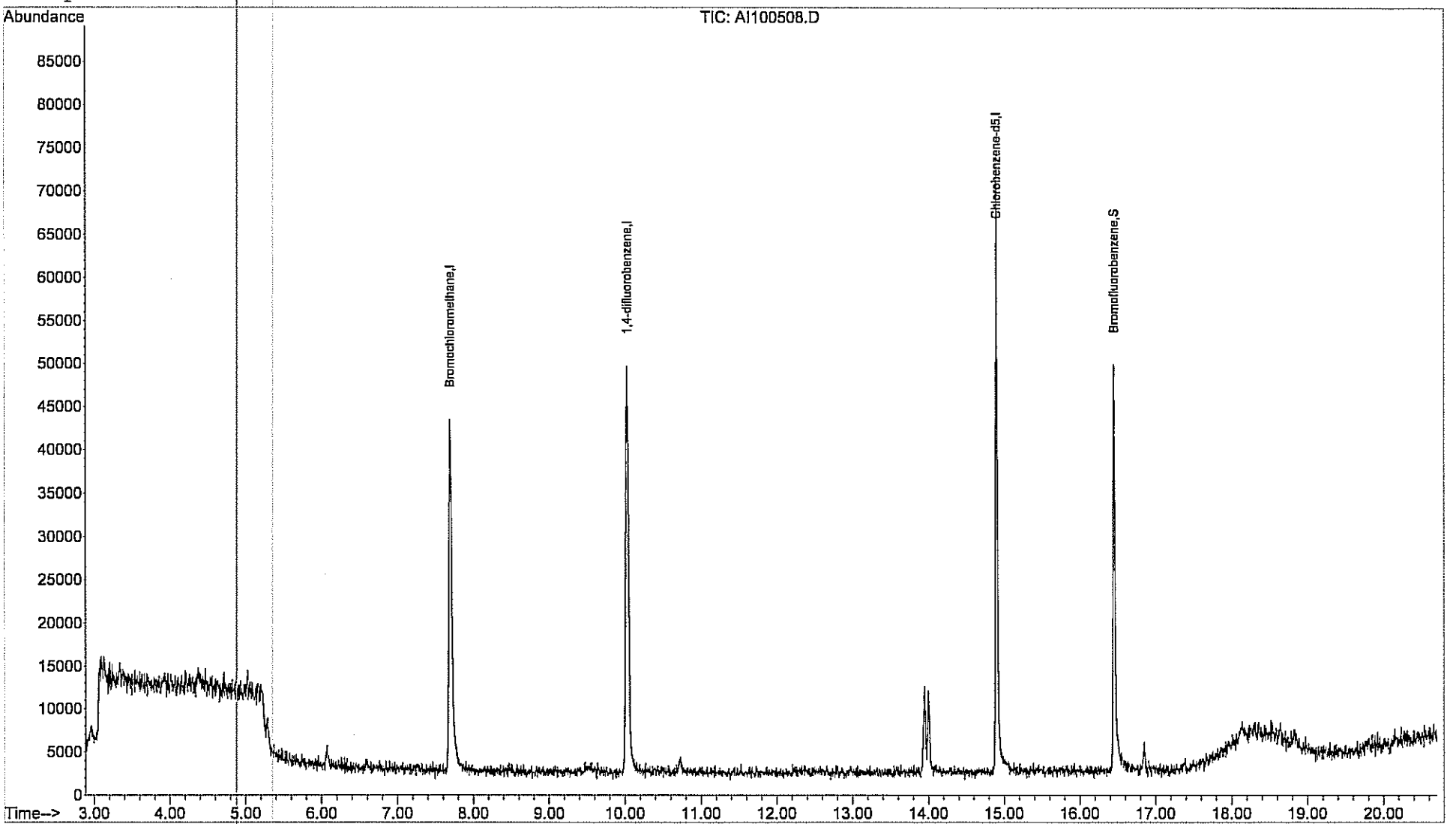
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.69	128	17349	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	54188	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	45093	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16865	0.74	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 74.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100508.D AO30_1UG.M Tue Nov 15 10:55:29 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100508.D Vial: 21
Acq On : 5 Oct 2011 3:49 pm Operator: RJP
Sample : WAC100511A Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 7 9:01 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100508.D AO30_1UG.M Tue Nov 15 10:55:30 2011 MSD1 Page 2

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100509.D Vial: 22
Acq On : 5 Oct 2011 4:23 pm Operator: RJP
Sample : WAC100511B Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 16:44:22 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

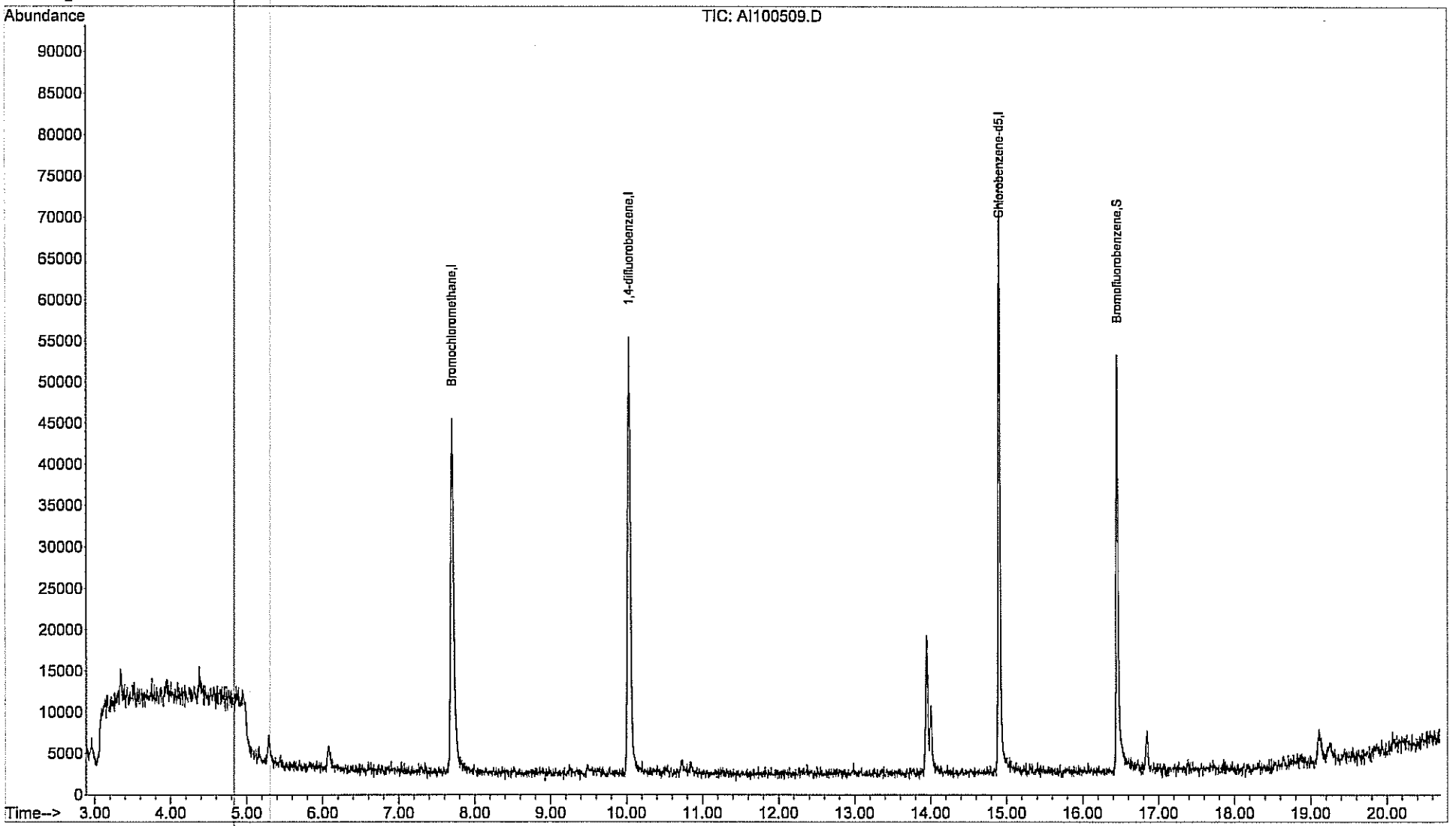
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	18912	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	60212	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	48277	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	18091	0.74	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 74.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100509.D AO30_1UG.M Tue Nov 15 10:55:32 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100509.D Vial: 22
Acq On : 5 Oct 2011 4:23 pm Operator: RJP
Sample : WAC100511B Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 7 9:01 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100509.D AO30_1UG.M Tue Nov 15 10:55:32 2011 MSD1 Page 2

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100512.D Vial: 25
Acq On : 5 Oct 2011 6:04 pm Operator: RJP
Sample : WAC100511E Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 05 18:24:58 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

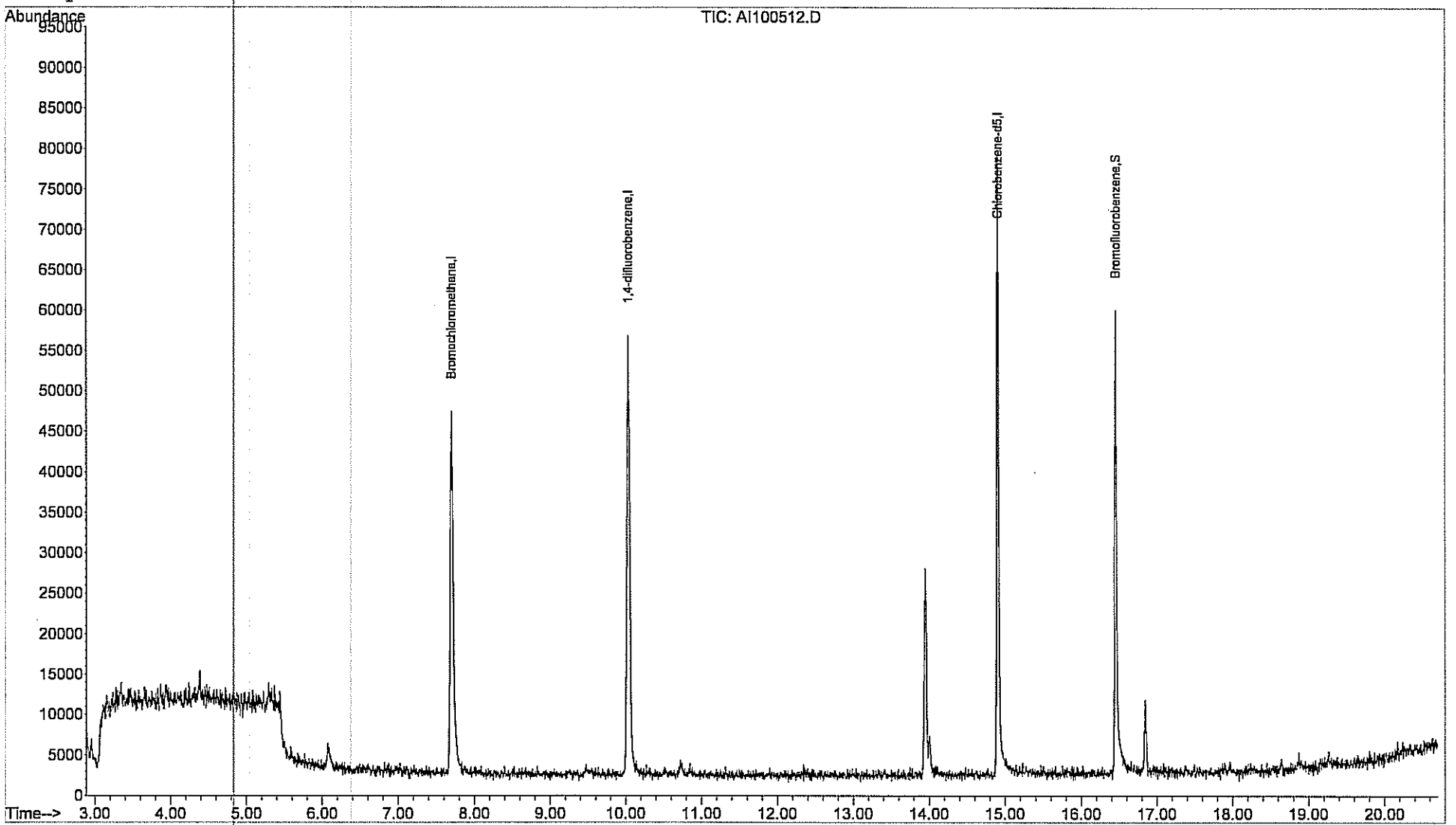
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	19575	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	61440	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	50207	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	19447	0.77	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 77.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100512.D AO30_1UG.M Tue Nov 15 10:55:34 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100512.D Vial: 25
Acq On : 5 Oct 2011 6:04 pm Operator: RJP
Sample : WAC100511E Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 7 9:02 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100512.D AO30_1UG.M Tue Nov 15 10:55:35 2011 MSD1 Page 2

Centek Laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Project: 1000-08-17 SDG: C1110054

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: * SEE CASE NARRATIVE
NO MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: FPM Project: 1000-08-17 SDG: C1110054

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete			✓

Comments:

Logbooks				
Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 11/22/11

QC Supervisor: [signature] Date: 11/22/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM
584 Phoenix Drive
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Thursday, November 03, 2011
Order No.: C1110054

RE: 1000-08-17

Dear Katrina Mattice:

Centek Laboratories, LLC received 23 sample(s) on 10/26/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,



Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quaut Report
   b. Continuing Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *22-Nov-11*

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110054

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2331] Continuing calibration did not meet criteria
See Corrective Action: [2332] LCS and LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 01-Nov-11 **Corrective Action Report ID:** 2332

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCS and LCSD did not meet criteria.

Description of Nonconformance: ALCS1UG-110111 did not meet criteria for RPD and % recoveries for several compounds. The results were high. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 02-Nov-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits then perfom a new LCS stock standard. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 03-Nov-11

QA Officer Approval: Nick Scala QA Date: 03-Nov-11

Last Updated BY russ2 Updated: 21-Nov-2011 12:09 PM Reported: 22-Nov-2011 10:16 A

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 01-Nov-11 **Corrective Action Report ID:** 2331

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Continuing calibration did not meet criteria

Description of Nonconformance: Continuing calibration did not meet criteria on 11/1/11 for MIBK & MBK. The compounds are more sensitive and were not detected for the associated samples.

Description of Corrective Action: Since the compound is more sensitive and is not detected for the associated samples than continue with analysis

Performed By: Russell Pellegrino **Completion Date:** 02-Nov-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 03-Nov-11

QA Officer Approval: Nick Scala QA Date: 03-Nov-11

Last Updated BY russ2 Updated: 21-Nov-2011 12:07 PM Reported: 22-Nov-2011 10:17 A

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Janice Scala Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: 1000-08-17 Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: KMattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
774VMP0101AC	774VMP-1	10.21	1015	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 362, Regulator # 82
774VMP0201AC	774VMP-2	10.21	1025	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 286, Regulator # 58
774VMP0301AC	774VMP-3	10.21	1035	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 406, Regulator # 66
776VMP0101AC	776VMP-1	10.21	1325	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 371, Regulator # 126
776VMP0201AC	776VMP-2	10.21	1310	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 367, Regulator # 144
776VMP0301AC	776VMP-3	10.21	1335	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 358, Regulator # 44
774IA1AF	774-IA	10.21	1040	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 174, Regulator # 174
774776OA1FA	774776-OA	10.21	1045	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 474, Regulator # 310
776IA1EA	776-IA	10.21	1415	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 165, Regulator # 394
785VMP0202AF	785VMP-2	10.24	1040	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 325, Regulator #48
785VMP0401AC	785VMP-4	10.24	1045	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 201, Regulator # 404
785VMP0501AB	785VMP-5	10.24	1055	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 206, Regulator # 51
786VMP0102AC	786VMP-1	10.24	1005	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 420, Regulator # 67
786VMP0202AC	786VMP-2	10.24	1025	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 431, Regulator # 78
786VMP0302AC	786VMP-3	10.24	1010	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 494, Regulator # 60
785IA06	785-IA	10.24	1100	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 335, Regulator # 143
785786OA02	785786-OA	10.24	1105	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 496, Regulator # 438
786IA05	786-IA	10.24	1030	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 161, Regulator # 452
774776CA01AE	774776-Influent	10.25	1231	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 324
774776CA02AC	774776-Effluent	10.25	1235	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 136

785786CA01AC	785786-Influent	10.25	1501	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 457
785786CA02AC	785786-Effluent	10.25	1506	GS	AC	0/0	N	-	Unf.	1	1	1	Container # 471
Trip Blank	102411TB	10.24	1600	GS	AC	0/0	TB	-	Unf.	1	1	1	Container # 215

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:
Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0
Note 1: VOC: Method TO-15 Full List
ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) [signature]	Date: 10/25/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1400	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 10/20/11	#2 Received by: (Sig) [signature]	Date: 10/26/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1155	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *22-Nov-11*

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110054

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1110054-001A	774VMP0101AC	362,82	10/21/2011	10/26/2011
C1110054-002A	774VMP0201AC	286,58	10/21/2011	10/26/2011
C1110054-003A	774VMP0301AC	406,66	10/21/2011	10/26/2011
C1110054-004A	776VMP0101AC	371,126	10/21/2011	10/26/2011
C1110054-005A	776VMP0201AC	367,144	10/21/2011	10/26/2011
C1110054-006A	776VMP0301AC	358,44	10/21/2011	10/26/2011
C1110054-007A	774IA1AF	174,174	10/21/2011	10/26/2011

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110054

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1110054-008A	774776OA1FA	474,310	10/21/2011	10/26/2011
C1110054-009A	776IA1EA	165,394	10/21/2011	10/26/2011
C1110054-010A	785VMP0202AF	325,48	10/24/2011	10/26/2011
C1110054-011A	785VMP0401AC	201,404	10/24/2011	10/26/2011
C1110054-012A	785VMP0501AB	206,51	10/24/2011	10/26/2011
C1110054-013A	786VMP0102AC	420,67	10/24/2011	10/26/2011
C1110054-014A	786VMP0202AC	431,78	10/24/2011	10/26/2011
C1110054-015A	786VMP0302AC	494,60	10/24/2011	10/26/2011

CLIENT: FPM
Project: 1000-08-17
Lab Order: C1110054

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1110054-016A	785IA06	335,143	10/24/2011	10/26/2011
C1110054-017A	785786OA02	496,438	10/24/2011	10/26/2011
C1110054-018A	786IA05	161,452	10/24/2011	10/26/2011
C1110054-019A	774776CA01AE	324	10/25/2011	10/26/2011
C1110054-020A	774776CA02AC	136	10/25/2011	10/26/2011
C1110054-021A	785786CA01AC	457	10/25/2011	10/26/2011
C1110054-022A	785786CA02AC	471	10/25/2011	10/26/2011
C1110054-023A	Trip Blank	215	10/24/2011	10/26/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: **FPM-ROME** Date and Time Received: **10/26/2011**

Work Order Number **C1110054** Received by: JDS

Checklist completed by: 10/26/11 (Signature / Date) Reviewed by: (Initials) 10/26/11 (Date)

Matrix: Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody egrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☒	Yes ☒	No ☒
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action: _____

Centek Laboratories, LLC

22-Nov-11

Lab Order: C1110054
Client: FPM
Project: 1000-08-17

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1110054-001A	774VMP0101AC	10/21/2011	Air	1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-002A	774VMP0201AC			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-003A	774VMP0301AC			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-004A	776VMP0101AC			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-005A	776VMP0201AC			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-006A	776VMP0301AC			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-007A	774IA1AF			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-008A	774776OA1FA			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-009A	776IA1EA			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-010A	785VMP0202AF	10/24/2011		1ug/M3 by Method TO15			10/31/2011
C1110054-011A	785VMP0401AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-012A	785VMP0501AB			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-013A	786VMP0102AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-014A	786VMP0202AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011

Centek Laboratories, LLC

22-Nov-11

Lab Order: C1110054
Client: FPM
Project: 1000-08-17

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1110054-015A	786VMP0302AC	10/24/2011	Air	1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-016A	785IA06			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-017A	785786OA02			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-018A	786IA05			1ug/M3 by Method TO15			10/31/2011
				1ug/M3 by Method TO15			10/31/2011
C1110054-019A	774776CA01AE	10/25/2011		1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-020A	774776CA02AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-021A	785786CA01AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-022A	785786CA02AC			1ug/M3 by Method TO15			11/1/2011
				1ug/M3 by Method TO15			11/1/2011
C1110054-023A	Trip Blank	10/24/2011	Air	1ug/M3 by Method TO15			10/31/2011

SampleTrackingHistory 11/22/2011

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1110054-001A	Login	10/26/2011 1:46:14 PM	jans	Sample Log In
C1110054-007A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-002A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-003A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-004A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-023A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-006A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-008A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-009A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-010A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-011A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-019A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-005A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-012A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-020A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-022A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-018A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-017A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-016A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-015A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-014A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-013A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-021A	Login	10/26/2011 2:01:52 PM	jans	Sample Log In
C1110054-008A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-023A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-011A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-010A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-009A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-007A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-006A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-005A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-004A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-002A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-003A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-012A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-013A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-014A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-015A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-016A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-017A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-018A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-019A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-020A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-001A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-022A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-021A	Transfer	10/31/2011 10:19:29 AM	ADM	GC/MS Lab
C1110054-011A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-012A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-001A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-002A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-003A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-004A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-005A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-006A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-007A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-008A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1110054-013A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-010A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-023A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-014A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-015A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-016A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-017A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-018A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-019A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-020A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-021A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-022A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed
C1110054-009A	Mark as Consumed	11/6/2011 1:11:51 PM	ADM	Consumed

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2641

22-Nov-11

SHIPPED TO:

Company: FPM
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 10/19/2011
VIA: FedEx
Due Date: 10/21/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	23

Can / Reg ID	Description
78	1L Mini-Can
44	Time-Set Reg
48	Time-Set Reg - 545
51	Time-Set Reg - 837R
457	1L Mini-Can - 1360
471	1L Mini-Can - 1368
474	1L Mini-Can - 1376
496	1L Mini-Can - 1388
394	Time-Set Reg - 773
404	Time-Set Reg - 783
438	Time-Set Reg - 817
452	Time-Set Reg - 831
325	1L Mini-Can - 1288
335	1L Mini-Can - 1298
358	1L Mini-Can - 1307
367	1L Mini-Can - 1316
371	1L Mini-Can - 1320
310	Time-Set Reg - 733
324	1L Mini-Can - 1287
143	Time-Set Reg - 638
144	Time-Set Reg - 639
161	1L Mini-Can - 1131
165	1L Mini-Can - 1135
174	Time-Set Reg - 659
199	1L Mini-Can - 1154
67	Time-Set Reg - 546
126	Time-Set Reg - 630
136	1L Mini-Can - 1110
60	Time-Set Reg - 541 x
215	1.4L Mini-Can - 1121
286	1L Mini-Can - 1262
66	Time-Set Reg - 526
200	1L Mini-Can - 1155

SHIPPED TO:

Company:	FPM	Submitted By:	
Contact:	Katrina Mattice		
Address:	584 Phoenix Drive Rome, NY 13441		
Phone:	(315) 336-7721	Ship Date:	10/19/2011
		VIA:	FedEx
Quote ID:	0	Due Date:	10/21/2011
Project:			

Bottle Code	Bottle Type	TEST(s)	QTY
201	1L Mini-Can - 1156		
362	1L Mini-Can - 1311		
420	1L Mini-Can - 1344		
431	1L Mini-Can - 1358		
494	1L Mini-Can - 1386		
58	Time-Set Reg - 539		
82	Time-Set Reg		
106	1L Mini-Can - 1056		

Comments: (23) 1L as follows: (12) @ 5mins, (6) @ 12hours, (4) w/ quick grabs, (1) trip blank WAC 101811A-E, 100611A-D, 092811 K-L

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Acetone	7.6	3.0		ppbV	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Cyclohexane	0.70	0.15		ppbV	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.21	0.25	J	ppbV	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 11	0.35	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 8:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	1.1	0.15		ppbV	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Toluene	0.56	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Trichloroethene	0.67	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/31/2011 8:24:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Acetone	18	7.2		ug/m3	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Cyclohexane	2.4	0.52		ug/m3	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.77	0.92	J	ug/m3	1	10/31/2011 8:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Freon 11	2.0	0.86		ug/m3	1	10/31/2011 8:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	2.8	0.37		ug/m3	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:24:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:24:00 PM
Toluene	2.1	0.57		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Acetone	4.6	1.5		ppbV	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroform	0.14	0.15	J	ppbV	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Cyclohexane	1.0	0.15		ppbV	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 11	0.39	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 12	0.41	0.15		ppbV	1	10/31/2011 8:56:00 PM
Heptane	1.5	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	0.97	0.15		ppbV	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Toluene	0.36	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Trichloroethene	2.1	0.75		ppbV	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Acetone	11	3.6		ug/m3	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:56:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:56:00 PM
Chloroform	0.69	0.74	J	ug/m3	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Freon 11	2.2	0.86		ug/m3	1	10/31/2011 8:56:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 12	2.1	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Heptane	6.2	0.62		ug/m3	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	2.4	0.37		ug/m3	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.53	1.3	J	ug/m3	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:56:00 PM
Toluene	1.4	0.57		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Trichloroethene	11	4.1		ug/m3	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Acetone	4.8	3.0		ppbV	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Benzene	0.12	0.15	J	ppbV	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 11	1.7	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 9:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
m&p-Xylene	0.27	0.30	J	ppbV	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Toluene	0.57	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Trichloroethene	0.55	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Acetone	12	7.2		ug/m3	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 9:29:00 PM
Benzene	0.39	0.49	J	ug/m3	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 9:29:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Freon 11	9.5	0.86		ug/m3	1	10/31/2011 9:29:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 9:29:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 9:29:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 9:29:00 PM
Toluene	2.2	0.57		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Trichloroethene	3.0	0.82		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Acetone	16	3.0		ppbV	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzene	0.40	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.14	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Cyclohexane	0.87	0.15		ppbV	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Ethylbenzene	0.36	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 11	0.22	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 12	0.43	0.15		ppbV	1	10/31/2011 10:02:00 PM
Heptane	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexane	0.54	0.15		ppbV	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	8.6	1.5		ppbV	10	11/1/2011 6:33:00 AM
m&p-Xylene	0.91	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	0.65	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
o-Xylene	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Styrene	0.13	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 10:02:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Acetone	39	7.2		ug/m3	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:02:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.44	0.47	J	ug/m3	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Cyclohexane	3.0	0.52		ug/m3	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 10:02:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Heptane	1.0	0.62		ug/m3	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Hexane	1.9	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 6:33:00 AM
m&p-Xylene	4.0	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	1.9	0.90		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:02:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	10/31/2011 10:02:00 PM
o-Xylene	1.1	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:02:00 PM
Styrene	0.56	0.65	J	ug/m3	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:02:00 PM
Toluene	6.1	0.57		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Acetone	19	3.0		ppbV	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzene	0.45	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Cyclohexane	2.4	0.15		ppbV	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.32	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 11	0.28	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 12	0.52	0.15		ppbV	1	10/31/2011 10:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	11/1/2011 7:04:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 10:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Styrene	0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Toluene	1.8	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Trichloroethene	0.68	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	10/31/2011 10:35:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Acetone	45	7.2		ug/m3	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:35:00 PM
Benzene	1.5	0.49		ug/m3	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Cyclohexane	8.5	0.52		ug/m3	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Freon 11	1.6	0.86		ug/m3	1	10/31/2011 10:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	31	3.7		ug/m3	10	11/1/2011 7:04:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	3.9	0.90		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 10:35:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:35:00 PM
Styrene	0.65	0.65		ug/m3	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	7.4	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:35:00 PM
Toluene	6.9	0.57		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Acetone	24	3.0		ppbV	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzene	0.32	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroform	0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 11	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:08:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	11/1/2011 7:37:00 AM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	0.74	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Styrene	0.13	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Toluene	0.66	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Trichloroethene	1.3	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Acetone	58	7.2		ug/m3	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:08:00 PM
Benzene	1.0	0.49		ug/m3	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:08:00 PM
Chloroform	0.74	0.74		ug/m3	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
Ethylbenzene	1.2	0.66		ug/m3	1	10/31/2011 11:08:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:08:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 7:37:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	2.2	0.90		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:08:00 PM
o-Xylene	0.71	0.66		ug/m3	1	10/31/2011 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:08:00 PM
Styrene	0.56	0.65	J	ug/m3	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:08:00 PM
Toluene	2.5	0.57		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Trichloroethene	7.3	0.82		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Acetone	7.8	1.5		ppbV	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 11	0.74	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 1:04:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	4.0	0.75		ppbV	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Toluene	0.34	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Trichloroethene	0.16	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Acetone	19	3.6		ug/m3	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:04:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:04:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Freon 11	4.2	0.86		ug/m3	1	10/31/2011 1:04:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	9.9	1.9		ug/m3	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:04:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:04:00 PM
Toluene	1.3	0.57		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Trichloroethene	0.87	0.82		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Acetone	2.8	1.5		ppbV	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloromethane	0.36	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.24	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 1:38:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	0.48	0.15		ppbV	1	10/31/2011 1:38:00 PM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Methylene chloride	0.16	0.15		ppbV	1	10/31/2011 1:38:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 1:38:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Toluene	0.92	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	10/31/2011 1:38:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Acetone	6.8	3.6		ug/m3	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:38:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:38:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:38:00 PM
Chloromethane	0.76	0.31		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 1:38:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	10/31/2011 1:38:00 PM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:38:00 PM
Methylene chloride	0.56	0.53		ug/m3	1	10/31/2011 1:38:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:38:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:38:00 PM
Toluene	3.5	0.57		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Trichloroethene	0.60	0.82	J	ug/m3	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Acetone	12	1.5		ppbV	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzene	0.42	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroform	0.11	0.15	J	ppbV	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:11:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 2:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	14	0.75		ppbV	5	10/31/2011 5:43:00 PM
m&p-Xylene	0.66	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
o-Xylene	0.20	0.15		ppbV	1	10/31/2011 2:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Styrene	0.19	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Trichloroethene	0.18	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.85	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Acetone	30	3.6		ug/m3	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:11:00 PM
Benzene	1.4	0.49		ug/m3	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:11:00 PM
Chloroform	0.55	0.74	J	ug/m3	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:11:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	35	1.9		ug/m3	5	10/31/2011 5:43:00 PM
m&p-Xylene	2.9	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:11:00 PM
o-Xylene	0.88	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:11:00 PM
Styrene	0.82	0.65		ug/m3	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:11:00 PM
Toluene	3.9	0.57		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Trichloroethene	0.98	0.82		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Acetone	1.3	0.30		ppbV	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzene	0.67	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Cyclohexane	0.55	0.15		ppbV	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 11	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:40:00 PM
Heptane	0.43	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexane	1.7	0.15		ppbV	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Trichloroethene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	1.2	0.71		ug/m3	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Acetone	3.2	0.72		ug/m3	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:40:00 PM
Benzene	2.2	0.49		ug/m3	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:40:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Heptane	1.8	0.62		ug/m3	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Hexane	6.1	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 11:40:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:40:00 PM
o-Xylene	0.71	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:40:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:40:00 PM
Toluene	6.2	0.57		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Trichloroethene	8.9	0.82		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	0.37	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	0.82	0.15		ppbV	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.17	0.15		ppbV	1	11/1/2011 12:12:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Benzene	2.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon disulfide	2.9	1.5		ppbV	10	11/1/2011 4:02:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Cyclohexane	2.3	1.5		ppbV	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:12:00 AM
Ethylbenzene	1.1	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 11	0.23	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 12	0.49	0.15		ppbV	1	11/1/2011 12:12:00 AM
Heptane	2.0	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexane	3.7	1.5		ppbV	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.25	0.15		ppbV	1	11/1/2011 12:12:00 AM
m&p-Xylene	3.1	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
o-Xylene	0.64	0.15		ppbV	1	11/1/2011 12:12:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	11	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	8.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Trichloroethene	6.0	1.5		ppbV	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	1.8	0.75		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.50	0.75	J	ug/m3	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	3.9	0.71		ug/m3	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.85	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:12:00 AM
Benzene	8.4	4.9		ug/m3	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:12:00 AM
Carbon disulfide	9.2	4.7		ug/m3	10	11/1/2011 4:02:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:12:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Cyclohexane	8.0	5.2		ug/m3	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
Ethylbenzene	4.9	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Freon 11	1.3	0.86		ug/m3	1	11/1/2011 12:12:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Heptane	8.2	0.62		ug/m3	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Hexane	13	5.4		ug/m3	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.62	0.37		ug/m3	1	11/1/2011 12:12:00 AM
m&p-Xylene	14	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:12:00 AM
o-Xylene	2.8	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:12:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	42	0.57		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	33	5.7		ug/m3	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Trichloroethene	33	8.2		ug/m3	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	0.30	0.15		ppbV	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzene	0.79	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroform	0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Cyclohexane	0.82	0.15		ppbV	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.36	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 11	0.40	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 12	0.50	0.15		ppbV	1	11/1/2011 12:44:00 AM
Heptane	0.45	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
o-Xylene	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Toluene	1.9	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Surr: Bromofluorobenzene	88.0	70-130		%REC	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:44:00 AM
Benzene	2.6	0.49		ug/m3	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:44:00 AM
Chloroform	0.74	0.74		ug/m3	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Cyclohexane	2.9	0.52		ug/m3	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
Ethylbenzene	1.6	0.66		ug/m3	1	11/1/2011 12:44:00 AM
Freon 11	2.3	0.86		ug/m3	1	11/1/2011 12:44:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 12:44:00 AM
m&p-Xylene	5.8	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:44:00 AM
o-Xylene	1.5	0.66		ug/m3	1	11/1/2011 12:44:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:44:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:44:00 AM
Toluene	7.4	0.57		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	0.25	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	0.81	0.15		ppbV	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.13	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Benzene	2.8	1.5		ppbV	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Cyclohexane	1.6	0.15		ppbV	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.71	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 11	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 113	0.10	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Heptane	1.9	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexane	4.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
m&p-Xylene	2.4	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
o-Xylene	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	0.29	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Toluene	7.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Trichloroethene	9.0	1.5		ppbV	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Surr: Bromofluorobenzene	83.0	70-130		%REC	1	11/1/2011 1:16:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	3.8	0.71		ug/m3	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	11/1/2011 1:16:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:16:00 AM
Benzene	9.1	4.9		ug/m3	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:16:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Cyclohexane	5.7	0.52		ug/m3	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
Ethylbenzene	3.1	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Freon 11	2.6	0.86		ug/m3	1	11/1/2011 1:16:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	11/1/2011 1:16:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
Heptane	8.1	0.62		ug/m3	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Hexane	16	5.4		ug/m3	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:16:00 AM
m&p-Xylene	11	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 1:16:00 AM
o-Xylene	2.0	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:16:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:16:00 AM
Toluene	29	5.7		ug/m3	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Trichloroethene	49	8.2		ug/m3	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.66	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	0.28	0.15		ppbV	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.11	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzene	0.69	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromodichloromethane	0.25	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.13	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroform	15	1.5		ppbV	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.62	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 11	0.24	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 113	0.14	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 12	0.45	0.15		ppbV	1	11/1/2011 1:48:00 AM
Heptane	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
m&p-Xylene	2.2	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Methylene chloride	0.71	0.15		ppbV	1	11/1/2011 1:48:00 AM
o-Xylene	0.47	0.15		ppbV	1	11/1/2011 1:48:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Toluene	2.9	1.5		ppbV	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Surr: Bromofluorobenzene	104	70-130		%REC	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	3.7	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	1.3	0.71		ug/m3	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.55	0.75	J	ug/m3	1	11/1/2011 1:48:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:48:00 AM
Benzene	2.2	0.49		ug/m3	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:48:00 AM
Bromodichloromethane	1.7	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.41	0.47	J	ug/m3	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:48:00 AM
Chloroform	72	7.4		ug/m3	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
Ethylbenzene	2.7	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Freon 11	1.4	0.86		ug/m3	1	11/1/2011 1:48:00 AM
Freon 113	1.1	1.2	J	ug/m3	1	11/1/2011 1:48:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.75		ug/m3	1	11/1/2011 1:48:00 AM
Heptane	1.7	0.62		ug/m3	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:48:00 AM
m&p-Xylene	9.9	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:48:00 AM
Methylene chloride	2.5	0.53		ug/m3	1	11/1/2011 1:48:00 AM
o-Xylene	2.1	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:48:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:48:00 AM
Toluene	11	5.7		ug/m3	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.16	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzene	1.3	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.10	0.15	J	ppbV	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.25	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 12	0.51	0.15		ppbV	1	11/1/2011 2:21:00 AM
Heptane	0.46	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexane	1.9	0.15		ppbV	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
o-Xylene	0.19	0.15		ppbV	1	11/1/2011 2:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	0.22	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Toluene	2.0	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Trichloroethene	4.3	1.5		ppbV	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	11/1/2011 2:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.80	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:21:00 AM
Benzene	4.2	0.49		ug/m3	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.64	0.96	J	ug/m3	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:21:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 2:21:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Hexane	6.8	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:21:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:21:00 AM
o-Xylene	0.84	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:21:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	1.5	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 2:21:00 AM
Toluene	7.7	0.57		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Trichloroethene	23	8.2		ug/m3	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.11	0.15	J	ppbV	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Acetone	4.6	1.5		ppbV	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroform	0.95	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 12	0.45	0.15		ppbV	1	10/31/2011 2:43:00 PM
Heptane	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexane	0.65	0.15		ppbV	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
m&p-Xylene	0.55	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
o-Xylene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	3.1	0.75		ppbV	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.52	0.71	J	ug/m3	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Acetone	11	3.6		ug/m3	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:43:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:43:00 PM
Chloroform	4.7	0.74		ug/m3	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:43:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.3	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Heptane	0.71	0.62		ug/m3	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Hexane	2.3	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 2:43:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:43:00 PM
o-Xylene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	21	5.2		ug/m3	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:43:00 PM
Toluene	4.0	0.57		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	0.52	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.16	0.15		ppbV	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.13	0.15	J	ppbV	1	10/31/2011 3:16:00 PM
Acetone	5.1	1.5		ppbV	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzene	0.55	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 11	0.24	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 3:16:00 PM
Heptane	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexane	1.1	0.15		ppbV	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	0.89	0.15		ppbV	1	10/31/2011 3:16:00 PM
m&p-Xylene	0.98	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Methylene chloride	0.36	0.15		ppbV	1	10/31/2011 3:16:00 PM
o-Xylene	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Toluene	1.9	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Trichloroethene	0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	2.6	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.76	0.71		ug/m3	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	10/31/2011 3:16:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:16:00 PM
Benzene	1.8	0.49		ug/m3	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Freon 11	1.4	0.86		ug/m3	1	10/31/2011 3:16:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 3:16:00 PM
Heptane	1.2	0.62		ug/m3	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Hexane	3.8	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	2.2	0.37		ug/m3	1	10/31/2011 3:16:00 PM
m&p-Xylene	4.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:16:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	10/31/2011 3:16:00 PM
o-Xylene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:16:00 PM
Toluene	7.2	0.57		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-018A

Client Sample ID: 786IA05
Tag Number: 161,452
Collection Date: 10/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.12	0.15	J	ppbV	1	10/31/2011 3:49:00 PM
Acetone	5.2	1.5		ppbV	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Cyclohexane	0.50	0.15		ppbV	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.41	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 11	0.20	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 12	0.40	0.15		ppbV	1	10/31/2011 3:49:00 PM
Heptane	0.23	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexane	0.73	0.15		ppbV	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	1.2	0.15		ppbV	1	10/31/2011 3:49:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
o-Xylene	0.38	0.15		ppbV	1	10/31/2011 3:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Toluene	2.4	0.75		ppbV	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	1.9	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	10/31/2011 3:49:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:49:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:49:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Cyclohexane	1.7	0.52		ug/m3	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
Ethylbenzene	1.8	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Freon 11	1.1	0.86		ug/m3	1	10/31/2011 3:49:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.0	0.75		ug/m3	1	10/31/2011 3:49:00 PM
Heptane	0.96	0.62		ug/m3	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Hexane	2.6	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	3.0	0.37		ug/m3	1	10/31/2011 3:49:00 PM
m&p-Xylene	6.2	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 3:49:00 PM
o-Xylene	1.7	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:49:00 PM
Toluene	9.4	2.9		ug/m3	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Acetone	11	3.0		ppbV	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzene	0.30	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroform	0.93	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 11	8.5	1.5		ppbV	10	11/1/2011 8:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 12	1.3	0.15		ppbV	1	11/1/2011 2:53:00 AM
Heptane	0.21	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	5.1	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
o-Xylene	0.23	0.15		ppbV	1	11/1/2011 2:53:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	0.51	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	1.7	0.15		ppbV	1	11/1/2011 2:53:00 AM
Toluene	0.58	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Trichloroethene	120	14		ppbV	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	11/1/2011 2:53:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.5	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Acetone	27	7.2		ug/m3	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:53:00 AM
Benzene	0.97	0.49		ug/m3	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.96	0.96		ug/m3	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:53:00 AM
Chloroform	4.6	0.74		ug/m3	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Freon 11	49	8.6		ug/m3	10	11/1/2011 8:10:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.4	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Heptane	0.87	0.62		ug/m3	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:53:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	15	0.90		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:53:00 AM
o-Xylene	1.0	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:53:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	3.5	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	5.2	0.45		ug/m3	1	11/1/2011 2:53:00 AM
Toluene	2.2	0.57		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Trichloroethene	650	76		ug/m3	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Acetone	4.5	1.5		ppbV	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 11	4.5	0.75		ppbV	5	11/1/2011 9:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 12	1.5	0.15		ppbV	1	11/1/2011 3:25:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
m&p-Xylene	0.23	0.30	J	ppbV	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	4.3	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Toluene	0.27	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Surr: Bromofluorobenzene	102	70-130		%REC	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Acetone	11	3.6		ug/m3	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:25:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:25:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Freon 11	26	4.3		ug/m3	5	11/1/2011 9:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	7.3	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:25:00 AM
m&p-Xylene	1.0	1.3	J	ug/m3	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	13	0.90		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:25:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:25:00 AM
Toluene	1.0	0.57		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:25:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	0.57	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	6.9	1.5		ppbV	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroform	1.6	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	0.74	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.38	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Heptane	6.3	1.5		ppbV	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
m&p-Xylene	1.4	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
o-Xylene	0.42	0.15		ppbV	1	11/1/2011 3:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	10	1.5		ppbV	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Toluene	1.0	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Trichloroethene	140	40		ppbV	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 3:56:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.6	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	2.8	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	33	7.1		ug/m3	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:56:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:56:00 AM
Chloroform	7.8	0.74		ug/m3	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	3.0	0.60		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
Ethylbenzene	1.7	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 3:56:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Heptane	26	6.2		ug/m3	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:56:00 AM
m&p-Xylene	6.0	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:56:00 AM
o-Xylene	1.9	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	72	10		ug/m3	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:56:00 AM
Toluene	3.8	0.57		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Trichloroethene	740	220		ug/m3	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 11	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
m&p-Xylene	0.58	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
o-Xylene	0.17	0.15		ppbV	1	11/1/2011 4:27:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Toluene	0.50	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Trichloroethene	0.12	0.15	J	ppbV	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 4:27:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 4:27:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Freon 11	1.0	0.86		ug/m3	1	11/1/2011 4:27:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 4:27:00 AM
m&p-Xylene	2.6	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 4:27:00 AM
o-Xylene	0.75	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 4:27:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 4:27:00 AM
Toluene	1.9	0.57		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Trichloroethene	0.66	0.82	J	ug/m3	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-023A

Client Sample ID: Trip Blank
Tag Number: 215
Collection Date: 10/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 12:27:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 12:27:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/31/2011 12:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-023A

Client Sample ID: Trip Blank
Tag Number: 215
Collection Date: 10/24/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 12:27:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 12:27:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Tune File : C:\HPCHEM\1\DATA\AI103102.D
Tune Time : 31 Oct 2011 10:27 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI103102.D

			(BFB)	(IS1)	(IS2)	(IS3)
				20531	57419	56959
File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI103103.D	ALCS1UG-103111		102	20888	58680	57212
AI103104.D	AMB1UG-103111		83	20236	51918	45642
AI103105.D	C1110054-023A		87	19741	54144	45399
AI103106.D	C1110054-007A		98	20893	55496	54504
AI103107.D	C1110054-008A		103	20771	57096	55642
AI103108.D	C1110054-009A		99	21536	59662	61805
AI103109.D	C1110054-016A		102	21352	59863	56115
AI103110.D	C1110054-017A		107	21078	60679	56819
AI103111.D	C1110054-018A		104	22932	65774	64200
AI103112.D	C1110054-007A	5X	86	20060	51231	46803
AI103113.D	C1110054-008A	5X	91	20790	53525	50972
AI103114.D	C1110054-009A	5X	86	20715	53201	51217
AI103115.D	C1110054-016A	5X	87	20237	50577	47942
AI103116.D	C1110054-017A	5X	92	20869	52639	49386
AI103117.D	C1110054-018A	5X	94	20318	50594	47281
AI103118.D	ALCS1UGD-103111		105	20857	55924	55806
AI103119.D	C1110054-001A		95	20971	55126	52989
AI103120.D	C1110054-002A		102	23304	63530	65927
AI103121.D	C1110054-003A		100	21293	60769	59982
AI103122.D	C1110054-004A		98	23562	64721	62059
AI103123.D	C1110054-005A		105	20922	57234	56564
AI103124.D	C1110054-006A		97	20042	55118	53210
AI103125.D	C1110054-010A		97	19779	52951	48858
AI103126.D	C1110054-011A		107	21087	56980	58532
AI103127.D	C1110054-012A		88	19589	53346	48312
AI103128.D	C1110054-013A		83	18722	53460	47726
AI103129.D	C1110054-014A		104	20959	55780	57136
AI103130.D	C1110054-015A		99	19852	54032	51524
AI103131.D	C1110054-019A		98	19116	52619	52411
AI103132.D	C1110054-020A		102	19611	47847	49527
AI103133.D	C1110054-021A		105	19329	56711	69666
AI103134.D	C1110054-022A		105	18934	43634	46788

AI103135.D	C1110054-001A	10x	87	19248	45039	41002
AI103136.D	C1110054-002A	5x	95	19069	44179	43241
AI103137.D	C1110054-003A	10x	73	18202	45323	39371
AI103138.D	C1110054-004A	10x	82	18619	40937	37548
AI103139.D	C1110054-005A	10x	84	19180	40784	37624
AI103140.D	C1110054-006A	10x	83	18121	37405	33832*
AI103141.D	C1110054-019A	10x	87	17329	41812	35679
AI103143.D	C1110054-020A	5x	81	17110	38155	31802*

t - fails 24hr time check * - fails criteria

Created: Mon Nov 21 10:03:50 2011 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI110104.D
Tune Time : 1 Nov 2011 1:49 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AI110104.D

	(BFB)	(IS1)	(IS2)	(IS3)
		19074	47779	49531

File	Sample	DL	Surrogate Recovery %	Internal Standard Responses		
AI110105.D	ALCS1UG-110111	100	18601	45459	44239	
AI110106.D	AMB1UG-110111	88	18320	40919	35720	
AI110107.D	C1110054-021A 10X	111	18720	47648	51033	
AI110108.D	C1110054-011A 10X	90	18927	43957	41189	
AI110109.D	C1110054-012A 10X	91	18476	42806	40355	
AI110110.D	C1110054-013A 10X	90	17774	42529	40685	
AI110111.D	C1110054-014A 10X	88	17399	40114	36939	
AI110112.D	C1110054-015A 10X	85	17713	37569	35426	
AI110113.D	C1110054-022A 10X	90	18575	40024	37593	
AI110114.D	C1110054-012A 40X	85	18528	36600	35220	
AI110115.D	C1110054-021A 270X	84	17830	38129	33570	
AI110116.D	C1110054-019A 90X	82	17478	36814	34510	
AI110117.D	ALCS1UGD-110111	107	18317	41860	42939	

t - fails 24hr time check * - fails criteria

Created: Mon Nov 21 10:06:57 2011 MSD #1/

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-103111** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5117**
Client ID: **ZZZZZ** Batch ID: **R5117** TestNo: **TO-15** Analysis Date: **10/31/2011** SeqNo: **60278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-103111	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	5117
Client ID:	ZZZZZ	Batch ID:	R5117	TestNo:	TO-15			Analysis Date:	10/31/2011	SeqNo:	60278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-103111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									
Surr: Bromofluorobenzene	0.8300	0	1	0	83.0	70	130				

Sample ID AMB1UG-110111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-110111	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	5119
Client ID:	ZZZZZ	Batch ID:	R5119	TestNo:	TO-15			Analysis Date:	11/1/2011	SeqNo:	60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-110111	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	5119
Client ID:	ZZZZZ	Batch ID:	R5119	TestNo:	TO-15			Analysis Date:	11/1/2011	SeqNo:	60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									
Surr: Bromofluorobenzene	0.8800	0	1	0	88.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-103111** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5117**
Client ID: **ZZZZZ** Batch ID: **R5117** TestNo: **TO-15** Analysis Date: **10/31/2011** SeqNo: **60279**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.050	0.15	1	0	105	70	130				
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130				
1,1,2-Trichloroethane	1.020	0.15	1	0	102	70	130				
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.8500	0.15	1	0	85.0	70	130				
1,2,4-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,2-Dibromoethane	1.020	0.15	1	0	102	70	130				
1,2-Dichlorobenzene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichloroethane	0.9800	0.15	1	0	98.0	70	130				
1,2-Dichloropropane	1.020	0.15	1	0	102	70	130				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,3-butadiene	0.8700	0.15	1	0	87.0	70	130				
1,3-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130				
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				
Acetone	1.180	0.30	1	0	118	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.020	0.15	1	0	102	70	130				
Benzyl chloride	0.9000	0.15	1	0	90.0	70	130				
Bromodichloromethane	1.030	0.15	1	0	103	70	130				
Bromoform	1.070	0.15	1	0	107	70	130				
Bromomethane	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-103111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130				
Carbon tetrachloride	1.000	0.15	1	0	100	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	0.9700	0.15	1	0	97.0	70	130				
Chloroform	0.9800	0.15	1	0	98.0	70	130				
Chloromethane	0.9900	0.15	1	0	99.0	70	130				
cis-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	0.9800	0.15	1	0	98.0	70	130				
Freon 113	1.110	0.15	1	0	111	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9700	0.15	1	0	97.0	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.9800	0.15	1	0	98.0	70	130				
Hexane	0.9800	0.15	1	0	98.0	70	130				
Isopropyl alcohol	1.050	0.15	1	0	105	70	130				
m&p-Xylene	2.020	0.30	2	0	101	70	130				
Methyl Butyl Ketone	0.9600	0.30	1	0	96.0	70	130				
Methyl Ethyl Ketone	0.9300	0.30	1	0	93.0	70	130				
Methyl Isobutyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	70	130				
Methylene chloride	1.000	0.15	1	0	100	70	130				
o-Xylene	0.9000	0.15	1	0	90.0	70	130				
Propylene	0.9400	0.15	1	0	94.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.9900	0.15	1	0	99.0	70	130				
Tetrahydrofuran	0.9900	0.15	1	0	99.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-103111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Trichloroethene	0.9400	0.15	1	0	94.0	70	130				
Vinyl acetate	0.9500	0.15	1	0	95.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	0.9800	0.15	1	0	98.0	70	130				
Surr: Bromofluorobenzene	1.020	0	1	0	102	70	130				

Sample ID ALCS1UG-110111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.260	0.15	1	0	126	70	130				
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130				
1,1,2-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trimethylbenzene	0.7500	0.15	1	0	75.0	70	130				
1,2-Dibromoethane	1.260	0.15	1	0	126	70	130				
1,2-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130				
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,2-Dichloropropane	1.190	0.15	1	0	119	70	130				
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.000	0.15	1	0	100	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	0.9400	0.15	1	0	94.0	70	130				
1,4-Dioxane	0.7600	0.30	1	0	76.0	70	130				
2,2,4-trimethylpentane	1.160	0.15	1	0	116	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-110111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.7600	0.15	1	0	76.0	70	130				
Acetone	1.030	0.30	1	0	103	70	130				
Allyl chloride	0.9800	0.15	1	0	98.0	70	130				
Benzene	1.180	0.15	1	0	118	70	130				
Benzyl chloride	1.190	0.15	1	0	119	70	130				
Bromodichloromethane	1.240	0.15	1	0	124	70	130				
Bromoform	1.500	0.15	1	0	150	70	130				S
Bromomethane	1.080	0.15	1	0	108	70	130				
Carbon disulfide	1.040	0.15	1	0	104	70	130				
Carbon tetrachloride	1.570	0.15	1	0	157	70	130				S
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.100	0.15	1	0	110	70	130				
Chloromethane	1.110	0.15	1	0	111	70	130				
cis-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130				
cis-1,3-Dichloropropene	1.290	0.15	1	0	129	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	1.400	0.15	1	0	140	70	130				S
Ethyl acetate	0.9300	0.25	1	0	93.0	70	130				
Ethylbenzene	1.060	0.15	1	0	106	70	130				
Freon 11	1.130	0.15	1	0	113	70	130				
Freon 113	1.210	0.15	1	0	121	70	130				
Freon 114	1.150	0.15	1	0	115	70	130				
Freon 12	1.050	0.15	1	0	105	70	130				
Heptane	1.150	0.15	1	0	115	70	130				
Hexachloro-1,3-butadiene	0.9300	0.15	1	0	93.0	70	130				
Hexane	0.9500	0.15	1	0	95.0	70	130				
Isopropyl alcohol	0.9700	0.15	1	0	97.0	70	130				
m&p-Xylene	2.170	0.30	2	0	108	70	130				
Methyl Butyl Ketone	1.560	0.30	1	0	156	70	130				S
Methyl Ethyl Ketone	0.7700	0.30	1	0	77.0	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-110111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl tert-butyl ether	0.8500	0.15	1	0	85.0	70	130				
Methylene chloride	1.140	0.15	1	0	114	70	130				
o-Xylene	0.9600	0.15	1	0	96.0	70	130				
Propylene	1.010	0.15	1	0	101	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	1.150	0.15	1	0	115	70	130				
Tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130				
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.150	0.15	1	0	115	70	130				
Vinyl acetate	0.9100	0.15	1	0	91.0	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.130	0.15	1	0	113	70	130				
Surr: Bromofluorobenzene	1.000	0	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-103111** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5117**
Client ID: **ZZZZZ** Batch ID: **R5117** TestNo: **TO-15** Analysis Date: **10/31/2011** SeqNo: **60280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130	1.05	3.74	30	
1,1,2,2-Tetrachloroethane	0.8500	0.15	1	0	85.0	70	130	0.97	13.2	30	
1,1,2-Trichloroethane	0.9800	0.15	1	0	98.0	70	130	1.02	4.00	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130	1.11	4.61	30	
1,2,4-Trichlorobenzene	0.4800	0.15	1	0	48.0	70	130	0.85	55.6	30	SR
1,2,4-Trimethylbenzene	0.6000	0.15	1	0	60.0	70	130	0.89	38.9	30	SR
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	1.02	2.99	30	
1,2-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130	0.94	2.15	30	
1,2-Dichloroethane	0.9700	0.15	1	0	97.0	70	130	0.98	1.03	30	
1,2-Dichloropropane	1.000	0.15	1	0	100	70	130	1.02	1.98	30	
1,3,5-Trimethylbenzene	0.5900	0.15	1	0	59.0	70	130	0.99	50.6	30	SR
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.87	4.49	30	
1,3-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130	0.99	25.0	30	
1,4-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.95	26.2	30	
1,4-Dioxane	0.6000	0.30	1	0	60.0	70	130	0.97	47.1	30	SR
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
4-ethyltoluene	0.4900	0.15	1	0	49.0	70	130	0.93	62.0	30	SR
Acetone	0.7900	0.30	1	0	79.0	70	130	1.18	39.6	30	R
Allyl chloride	0.9000	0.15	1	0	90.0	70	130	0.94	4.35	30	
Benzene	1.010	0.15	1	0	101	70	130	1.02	0.985	30	
Benzyl chloride	0.7400	0.15	1	0	74.0	70	130	0.9	19.5	30	
Bromodichloromethane	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
Bromoform	1.070	0.15	1	0	107	70	130	1.07	0	30	
Bromomethane	0.9300	0.15	1	0	93.0	70	130	0.86	7.82	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-103111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130	0.95	1.05	30	
Carbon tetrachloride	1.130	0.15	1	0	113	70	130	1	12.2	30	
Chlorobenzene	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Chloroethane	1.000	0.15	1	0	100	70	130	0.97	3.05	30	
Chloroform	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Chloromethane	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
cis-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	1	7.25	30	
cis-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.04	1.94	30	
Cyclohexane	0.9700	0.15	1	0	97.0	70	130	1.01	4.04	30	
Dibromochloromethane	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
Ethyl acetate	0.8500	0.25	1	0	85.0	70	130	0.97	13.2	30	
Ethylbenzene	0.8100	0.15	1	0	81.0	70	130	0.98	19.0	30	
Freon 11	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Freon 113	1.110	0.15	1	0	111	70	130	1.11	0	30	
Freon 114	1.030	0.15	1	0	103	70	130	0.97	6.00	30	
Freon 12	0.9800	0.15	1	0	98.0	70	130	0.97	1.03	30	
Heptane	0.9500	0.15	1	0	95.0	70	130	1	5.13	30	
Hexachloro-1,3-butadiene	0.4300	0.15	1	0	43.0	70	130	0.98	78.0	30	SR
Hexane	0.8900	0.15	1	0	89.0	70	130	0.98	9.63	30	
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130	1.05	33.3	30	R
m&p-Xylene	1.620	0.30	2	0	81.0	70	130	2.02	22.0	30	
Methyl Butyl Ketone	0.4900	0.30	1	0	49.0	70	130	0.96	64.8	30	SR
Methyl Ethyl Ketone	0.5600	0.30	1	0	56.0	70	130	0.93	49.7	30	SR
Methyl Isobutyl Ketone	1.010	0.30	1	0	101	70	130	0.99	2.00	30	
Methyl tert-butyl ether	0.7500	0.15	1	0	75.0	70	130	0.96	24.6	30	
Methylene chloride	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
o-Xylene	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Propylene	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
Styrene	0.7500	0.15	1	0	75.0	70	130	0.95	23.5	30	
Tetrachloroethylene	0.9400	0.15	1	0	94.0	70	130	0.99	5.18	30	
Tetrahydrofuran	0.9100	0.15	1	0	91.0	70	130	0.99	8.42	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-103111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8800	0.15	1	0	88.0	70	130	0.98	10.8	30	
trans-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	0.99	3.08	30	
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130	1.04	0.966	30	
Trichloroethene	0.9700	0.15	1	0	97.0	70	130	0.94	3.14	30	
Vinyl acetate	0.7900	0.15	1	0	79.0	70	130	0.95	18.4	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1	0.995	30	
Vinyl chloride	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Surr: Bromofluorobenzene	1.050	0	1	0	105	70	130	0	0	30	

Sample ID ALCS1UGD-110111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130	1.26	0.797	30	
1,1,2,2-Tetrachloroethane	1.000	0.15	1	0	100	70	130	1.14	13.1	30	
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130	1.28	3.17	30	
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130	1.07	5.77	30	
1,1-Dichloroethene	1.040	0.15	1	0	104	70	130	1.12	7.41	30	
1,2,4-Trichlorobenzene	0.4600	0.15	1	0	46.0	70	130	0.79	52.8	30	SR
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130	0.75	3.92	30	
1,2-Dibromoethane	1.130	0.15	1	0	113	70	130	1.26	10.9	30	
1,2-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.92	12.7	30	
1,2-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.07	7.77	30	
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,3,5-Trimethylbenzene	0.6900	0.15	1	0	69.0	70	130	0.83	18.4	30	S
1,3-butadiene	1.040	0.15	1	0	104	70	130	1	3.92	30	
1,3-Dichlorobenzene	0.8500	0.15	1	0	85.0	70	130	1	16.2	30	
1,4-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130	0.94	19.9	30	
1,4-Dioxane	0.2700	0.30	1	0	27.0	70	130	0.76	0	30	JS
2,2,4-trimethylpentane	1.090	0.15	1	0	109	70	130	1.16	6.22	30	

Qualifiers:

- . Results reported are not blank corrected
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-110111** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5119**
Client ID: **ZZZZZ** Batch ID: **R5119** TestNo: **TO-15** Analysis Date: **11/1/2011** SeqNo: **60322**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.6400	0.15	1	0	64.0	70	130	0.76	17.1	30	S
Acetone	1.220	0.30	1	0	122	70	130	1.03	16.9	30	
Allyl chloride	0.8900	0.15	1	0	89.0	70	130	0.98	9.63	30	
Benzene	1.150	0.15	1	0	115	70	130	1.18	2.58	30	
Benzyl chloride	1.080	0.15	1	0	108	70	130	1.19	9.69	30	
Bromodichloromethane	1.220	0.15	1	0	122	70	130	1.24	1.63	30	
Bromoform	1.370	0.15	1	0	137	70	130	1.5	9.06	30	S
Bromomethane	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130	1.04	5.94	30	
Carbon tetrachloride	1.600	0.15	1	0	160	70	130	1.57	1.89	30	S
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130	1.12	15.4	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.11	1.79	30	
Chloroform	1.030	0.15	1	0	103	70	130	1.1	6.57	30	
Chloromethane	1.040	0.15	1	0	104	70	130	1.11	6.51	30	
cis-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	1.01	6.12	30	
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130	1.29	14.1	30	
Cyclohexane	1.060	0.15	1	0	106	70	130	1.14	7.27	30	
Dibromochloromethane	1.320	0.15	1	0	132	70	130	1.4	5.88	30	S
Ethyl acetate	0.7600	0.25	1	0	76.0	70	130	0.93	20.1	30	
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.21	1.67	30	
Freon 114	1.120	0.15	1	0	112	70	130	1.15	2.64	30	
Freon 12	1.020	0.15	1	0	102	70	130	1.05	2.90	30	
Heptane	1.060	0.15	1	0	106	70	130	1.15	8.14	30	
Hexachloro-1,3-butadiene	0.4900	0.15	1	0	49.0	70	130	0.93	62.0	30	SR
Hexane	0.8100	0.15	1	0	81.0	70	130	0.95	15.9	30	
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130	0.97	18.0	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	2.17	11.7	30	
Methyl Butyl Ketone	1.070	0.30	1	0	107	70	130	1.56	37.3	30	R
Methyl Ethyl Ketone	0.3700	0.30	1	0	37.0	70	130	0.77	70.2	30	SR

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-110111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.8700	0.30	1	0	87.0	70	130	1.14	26.9	30	
Methyl tert-butyl ether	0.7400	0.15	1	0	74.0	70	130	0.85	13.8	30	
Methylene chloride	1.130	0.15	1	0	113	70	130	1.14	0.881	30	
o-Xylene	0.8500	0.15	1	0	85.0	70	130	0.96	12.2	30	
Propylene	0.9100	0.15	1	0	91.0	70	130	1.01	10.4	30	
Styrene	0.8200	0.15	1	0	82.0	70	130	0.97	16.8	30	
Tetrachloroethylene	1.030	0.15	1	0	103	70	130	1.15	11.0	30	
Tetrahydrofuran	0.9300	0.15	1	0	93.0	70	130	0.83	11.4	30	
Toluene	1.000	0.15	1	0	100	70	130	1.06	5.83	30	
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Trichloroethene	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
Vinyl acetate	0.7600	0.15	1	0	76.0	70	130	0.91	18.0	30	
Vinyl Bromide	1.070	0.15	1	0	107	70	130	1.09	1.85	30	
Vinyl chloride	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130	0	0	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Page 134 of 623

Centek laboratories, LLC

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Propylene	0.30	0.34	0.31	0.34	0.32	0.34	0.37	0.33	0.34	0.019	111.9	0.060
Freon 12	0.30	0.32	0.32	0.32	0.34	0.32	0.33	0.33	0.33	0.008	108.6	0.025
Chloromethane	0.30	0.36	0.34	0.35	0.37	0.36	0.36	0.37	0.36	0.011	119.5	0.034
Freon 114	0.30	0.33	0.36	0.35	0.35	0.35	0.36	0.36	0.35	0.011	117.1	0.034
Vinyl Chloride	0.30	0.3	0.3	0.31	0.31	0.32	0.32	0.33	0.31	0.011	104.3	0.035
1,3-butadiene	0.30	0.37	0.39	0.35	0.39	0.37	0.37	0.39	0.38	0.015	125.2	0.048
Bromomethane	0.30	0.35	0.35	0.37	0.36	0.36	0.37	0.38	0.36	0.011	121.0	0.035
Chloroethane	0.30	0.36	0.36	0.35	0.36	0.37	0.34	0.37	0.36	0.011	119.5	0.034
Vinyl Bromide	0.30	0.36	0.37	0.38	0.36	0.38	0.36	0.38	0.37	0.010	123.3	0.031
Freon 11	0.30	0.35	0.37	0.36	0.36	0.36	0.35	0.37	0.36	0.008	120.0	0.026
Acetone	0.30	0.38	0.38	0.36	0.38	0.39	0.38	0.41	0.38	0.015	127.6	0.047
Isopropyl alcohol	0.30	0.29	0.28	0.28	0.27	0.26	0.26	0.27	0.27	0.011	91.0	0.035
1,1-dichloroethene	0.30	0.31	0.34	0.34	0.37	0.35	0.34	0.37	0.35	0.021	115.2	0.065
Freon 113	0.30	0.35	0.36	0.37	0.38	0.36	0.35	0.36	0.36	0.011	120.5	0.034
Methylene chloride	0.30	0.35	0.37	0.36	0.36	0.33	0.35	0.38	0.36	0.016	119.0	0.050
Allyl chloride	0.30	0.39	0.34	0.4	0.37	0.37	0.35	0.4	0.37	0.024	124.8	0.075
Carbon disulfide	0.30	0.38	0.38	0.39	0.39	0.38	0.38	0.4	0.39	0.008	128.6	0.025
trans-1,2-dichloroethene	0.30	0.35	0.36	0.36	0.34	0.36	0.35	0.36	0.35	0.008	118.1	0.025
methyl tert-butyl ether	0.30	0.37	0.34	0.36	0.36	0.35	0.35	0.35	0.35	0.010	118.1	0.031
1,1-dichloroethane	0.30	0.36	0.34	0.35	0.31	0.35	0.38	0.36	0.35	0.022	116.7	0.068
Vinyl acetate	0.30	0.3	0.29	0.28	0.38	0.31	0.33	0.32	0.32	0.033	105.2	0.104
Methyl Ethyl Ketone	0.30	0.28	0.28	0.3	0.27	0.26	0.3	0.27	0.28	0.015	93.3	0.048
cis-1,2-dichloroethene	0.30	0.29	0.3	0.29	0.31	0.3	0.3	0.3	0.30	0.007	99.5	0.022
Hexane	0.30	0.29	0.28	0.29	0.33	0.29	0.29	0.28	0.29	0.017	97.6	0.054
Ethyl acetate	0.30	0.28	0.27	0.28	0.25	0.25	0.31	0.26	0.27	0.021	90.5	0.066
Chloroform	0.30	0.32	0.33	0.34	0.33	0.32	0.33	0.33	0.33	0.007	109.5	0.022
Tetrahydrofuran	0.30	0.34	0.31	0.32	0.29	0.25	0.28	0.32	0.30	0.030	100.5	0.095
1,2-dichloroethane	0.30	0.31	0.31	0.32	0.33	0.31	0.32	0.32	0.32	0.008	105.7	0.024
1,1,1-trichloroethane	0.30	0.34	0.33	0.36	0.33	0.34	0.32	0.35	0.34	0.013	112.9	0.042
Cyclohexane	0.30	0.28	0.3	0.29	0.32	0.3	0.23	0.3	0.29	0.029	96.2	0.090
Carbon tetrachloride	0.30	0.32	0.31	0.33	0.32	0.32	0.3	0.33	0.32	0.011	106.2	0.034
Benzene	0.30	0.29	0.28	0.3	0.29	0.28	0.29	0.3	0.29	0.008	96.7	0.026
1,4-dioxane	0.30	0.27	0.27	0.27	0.27	0.3	0.3	0.3	0.28	0.016	94.3	0.050
2,2,4-trimethylpentane	0.30	0.31	0.31	0.31	0.31	0.32	0.29	0.33	0.31	0.012	103.8	0.038

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Heptane	0.30	0.32	0.3	0.33	0.28	0.3	0.3	0.37	0.31	0.029	104.8	0.092
Trichloroethene	0.30	0.28	0.28	0.29	0.28	0.28	0.28	0.29	0.28	0.005	94.3	0.015
1,2-dichloropropane	0.30	0.31	0.3	0.33	0.31	0.31	0.29	0.31	0.31	0.012	102.9	0.038
Bromodichloromethane	0.30	0.36	0.36	0.38	0.37	0.36	0.35	0.37	0.36	0.010	121.4	0.031
cis-1,3-dichloropropene	0.30	0.27	0.29	0.28	0.26	0.26	0.27	0.28	0.27	0.011	91.0	0.035
trans-1,3-dichloropropen	0.30	0.32	0.29	0.31	0.32	0.32	0.29	0.31	0.31	0.013	102.9	0.042
1,1,2-trichloroethane	0.30	0.32	0.31	0.34	0.32	0.32	0.31	0.33	0.32	0.011	107.1	0.034
Toluene	0.30	0.29	0.31	0.29	0.28	0.28	0.29	0.28	0.29	0.011	96.2	0.034
Methyl Isobutyl Ketone	0.30	0.35	0.3	0.27	0.28	0.33	0.27	0.27	0.30	0.033	98.6	0.102
Dibromochloromethane	0.30	0.39	0.41	0.41	0.4	0.41	0.39	0.43	0.41	0.014	135.2	0.044
Methyl Butyl Ketone	0.30	0.3	0.26	0.28	0.26	0.27	0.3	0.27	0.28	0.017	92.4	0.054
1,2-dibromoethane	0.30	0.3	0.34	0.34	0.33	0.33	0.31	0.34	0.33	0.016	109.0	0.050
Tetrachloroethylene	0.30	0.33	0.36	0.35	0.33	0.34	0.32	0.34	0.34	0.013	112.9	0.042
Chlorobenzene	0.30	0.31	0.34	0.32	0.33	0.32	0.32	0.33	0.32	0.010	108.1	0.031
Ethylbenzene	0.30	0.28	0.31	0.3	0.29	0.3	0.29	0.29	0.29	0.010	98.1	0.031
m&p-xylene	0.60	0.48	0.54	0.52	0.51	0.5	0.51	0.52	0.51	0.019	85.2	0.059
Styrene	0.30	0.3	0.31	0.3	0.3	0.29	0.29	0.3	0.30	0.007	99.5	0.022
Bromoform	0.30	0.42	0.43	0.42	0.41	0.42	0.4	0.43	0.42	0.011	139.5	0.034
o-xylene	0.30	0.29	0.31	0.24	0.31	0.31	0.29	0.3	0.29	0.025	97.6	0.079
Bromofluorobenzene	1.00	0.86	0.89	0.85	0.87	0.82	0.87	0.85	0.86	0.022	85.9	0.069
1,1,2,2-tetrachloroethane	0.30	0.33	0.33	0.34	0.33	0.34	0.32	0.33	0.33	0.007	110.5	0.022
4-ethyltoluene	0.30	0.34	0.37	0.36	0.35	0.35	0.35	0.35	0.35	0.010	117.6	0.030
1,3,5-trimethylbenzene	0.30	0.25	0.26	0.26	0.26	0.26	0.25	0.24	0.25	0.008	84.8	0.025
1,2,4-trimethylbenzene	0.30	0.27	0.28	0.28	0.28	0.26	0.28	0.28	0.28	0.008	91.9	0.025
1,3-dichlorobenzene	0.30	0.27	0.28	0.29	0.26	0.27	0.26	0.27	0.27	0.011	90.5	0.034
benzyl chloride	0.30	0.31	0.32	0.33	0.32	0.31	0.33	0.34	0.32	0.011	107.6	0.035
1,4-dichlorobenzene	0.30	0.25	0.26	0.26	0.25	0.25	0.24	0.26	0.25	0.008	84.3	0.024
1,2-dichlorobenzene	0.30	0.25	0.26	0.27	0.26	0.25	0.26	0.28	0.26	0.011	87.1	0.034
1,2,4-trichlorobenzene	0.30	0.26	0.29	0.28	0.26	0.28	0.26	0.27	0.27	0.012	90.5	0.038
Naphthalene	0.30	0.22	0.23	0.23	0.23	0.21	0.22	0.22	0.22	0.008	74.3	0.024
Hexachloro-1,3-butadien	0.30	0.29	0.3	0.3	0.28	0.3	0.29	0.3	0.29	0.008	98.1	0.025

Page 136 of 623

Centek laboratories, LLC

Compound	Amount	IDL #1	IDL #2	IDL #3	IDL #4	IDL #5	IDL #6	IDL #7	Avg	Stdev	%Rec	IDL
Vinyl Chloride	0.10	0.12	0.11	0.12	0.11	0.11	0.12	0.12	0.12	0.005	115.7	0.017
1,1-dichloroethene	0.10	0.12	0.12	0.13	0.13	0.13	0.12	0.12	0.12	0.005	124.3	0.017
Methylene chloride	0.10	0.11	0.13	0.13	0.11	0.12	0.12	0.12	0.12	0.008	120.0	0.026
trans-1,2-dichloroethene	0.10	0.11	0.13	0.11	0.1	0.11	0.11	0.09	0.11	0.012	108.6	0.038
1,1-dichloroethane	0.10	0.11	0.13	0.11	0.12	0.11	0.12	0.12	0.12	0.008	117.1	0.024
cis-1,2-dichloroethene	0.10	0.09	0.11	0.11	0.09	0.09	0.09	0.1	0.10	0.010	97.1	0.030
1,2-dichloroethane	0.10	0.1	0.11	0.12	0.11	0.1	0.11	0.11	0.11	0.007	108.6	0.022
1,1,1-trichloroethane	0.10	0.11	0.11	0.11	0.12	0.11	0.09	0.1	0.11	0.010	107.1	0.030
Carbon tetrachloride	0.10	0.11	0.1	0.1	0.11	0.09	0.1	0.1	0.10	0.007	101.4	0.022
Benzene	0.10	0.09	0.11	0.09	0.09	0.1	0.09	0.09	0.09	0.008	94.3	0.025
Trichloroethene	0.10	0.09	0.09	0.09	0.1	0.1	0.09	0.1	0.09	0.005	94.3	0.017
1,1,2-trichloroethane	0.10	0.11	0.09	0.09	0.11	0.09	0.11	0.1	0.10	0.010	100.0	0.031
Tetrachloroethylene	0.10	0.12	0.12	0.13	0.12	0.11	0.11	0.11	0.12	0.008	117.1	0.024
Bromofluorobenzene	1.00	0.79	0.84	0.82	0.82	0.82	0.82	0.81	0.82	0.015	81.7	0.047

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-001A

Client Sample ID: 774VMP0101AC
Tag Number: 362,82
Collection Date: 10/21/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Acetone	7.6	3.0		ppbV	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Cyclohexane	0.70	0.15		ppbV	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.21	0.25	J	ppbV	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 11	0.35	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 8:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	1.1	0.15		ppbV	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Toluene	0.56	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Trichloroethene	0.67	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/31/2011 8:24:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-001A

Client Sample ID: 774VMP0101AC
Tag Number: 362,82
Collection Date: 10/21/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Acetone	18	7.2		ug/m3	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Cyclohexane	2.4	0.52		ug/m3	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.77	0.92	J	ug/m3	1	10/31/2011 8:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Freon 11	2.0	0.86		ug/m3	1	10/31/2011 8:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	2.8	0.37		ug/m3	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:24:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:24:00 PM
Toluene	2.1	0.57		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103119.D Vial: 27
Acq On : 31 Oct 2011 8:24 pm Operator: RJP
Sample : C1110054-001A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 20:44:53 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	20971	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.96	114	55126	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	52989	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24139	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
3) Freon 12	2.95	85	40668	0.50	ppb		100
13) Freon 11	4.13	101	16577	0.35	ppb		99
14) Acetone	4.28	58	37518	6.14	ppb	#	75
15) Isopropyl alcohol	4.40	45	18245	1.14	ppb	#	100
18) Methylene chloride	5.11	84	2853	0.13	ppb	#	76
25) Methyl Ethyl Ketone	6.88	72	3035	0.58	ppb		100
28) Ethyl acetate	7.48	43	3991	0.21	ppb		88
34) Cyclohexane	9.27	56	12222m	0.70	ppb		
35) Carbon tetrachloride	9.22	117	5373	0.10	ppb		100
41) Trichloroethene	10.66	130	24177	0.67	ppb		94
48) Toluene	12.93	92	18301	0.56	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

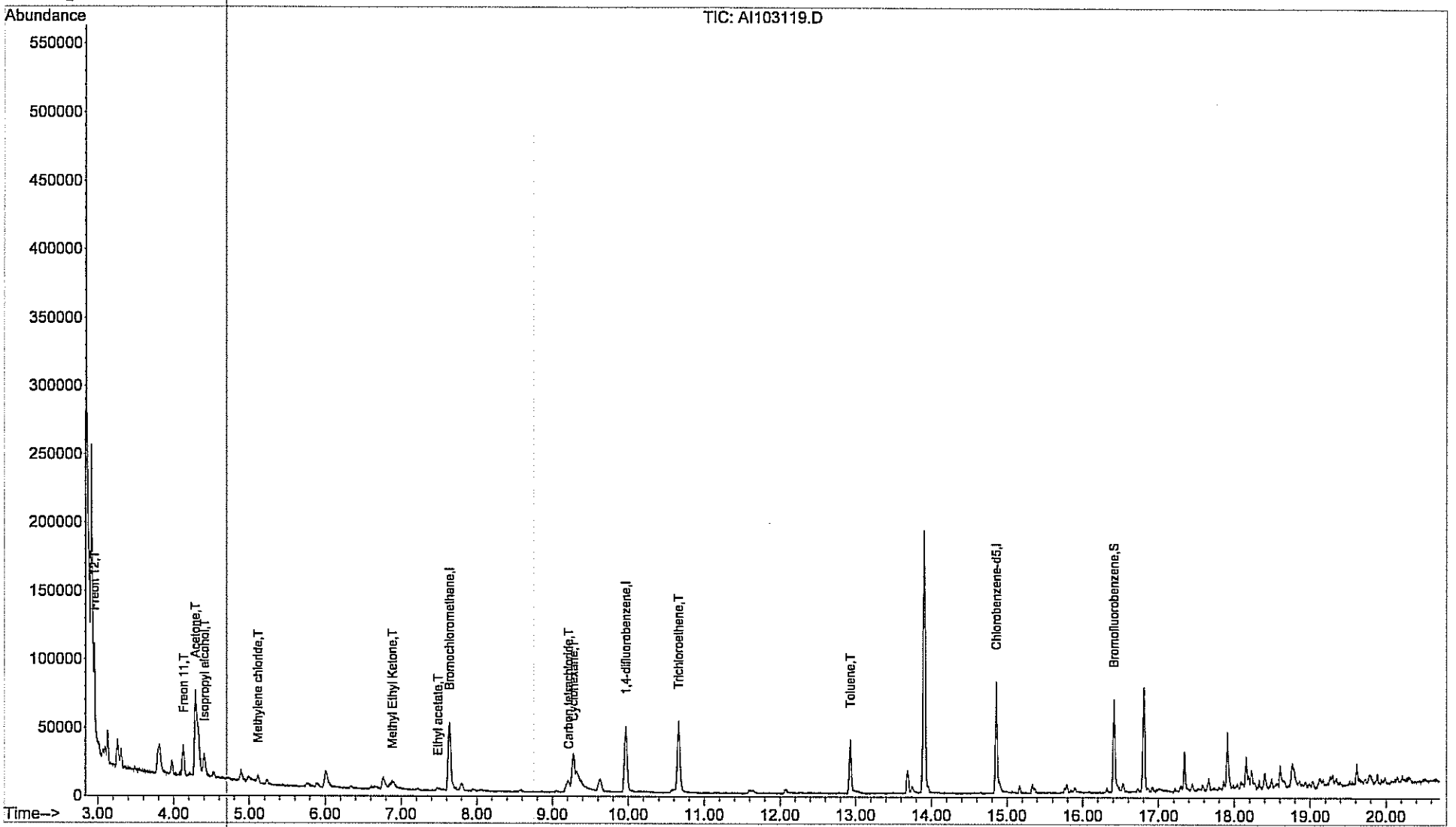
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103119.D
Acq On : 31 Oct 2011 8:24 pm
Sample : C1110054-001A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 8:55 2011

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

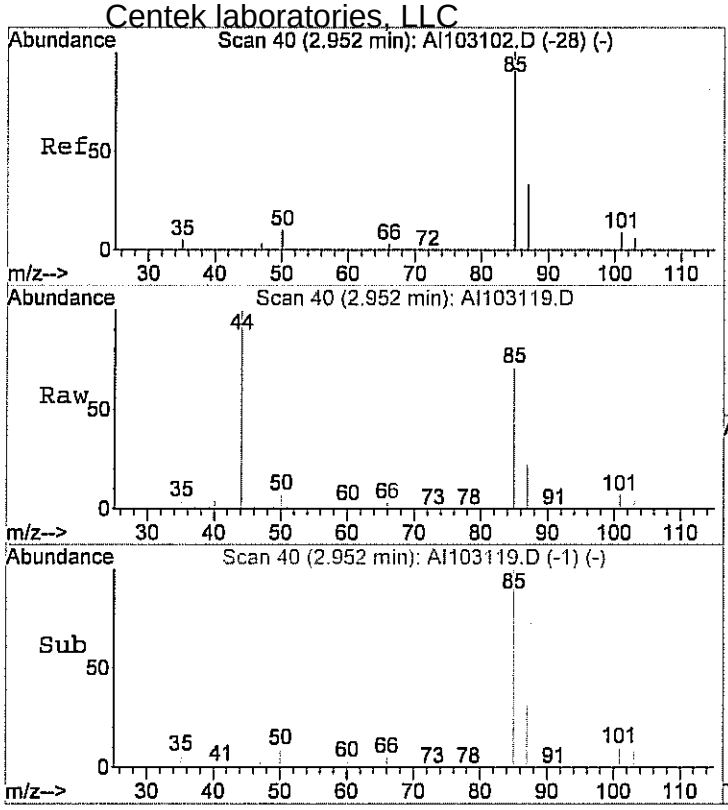
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI103119.D AO30_1UG.M Mon Nov 21 08:58:17 2011 MSD1

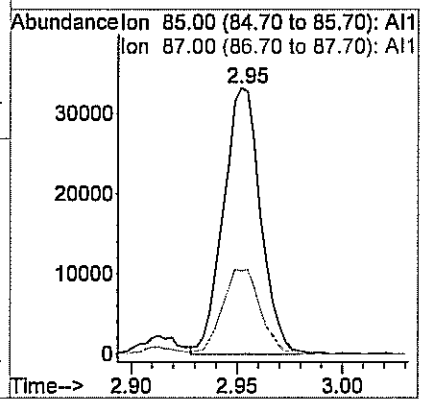
Centek laboratories, LLC

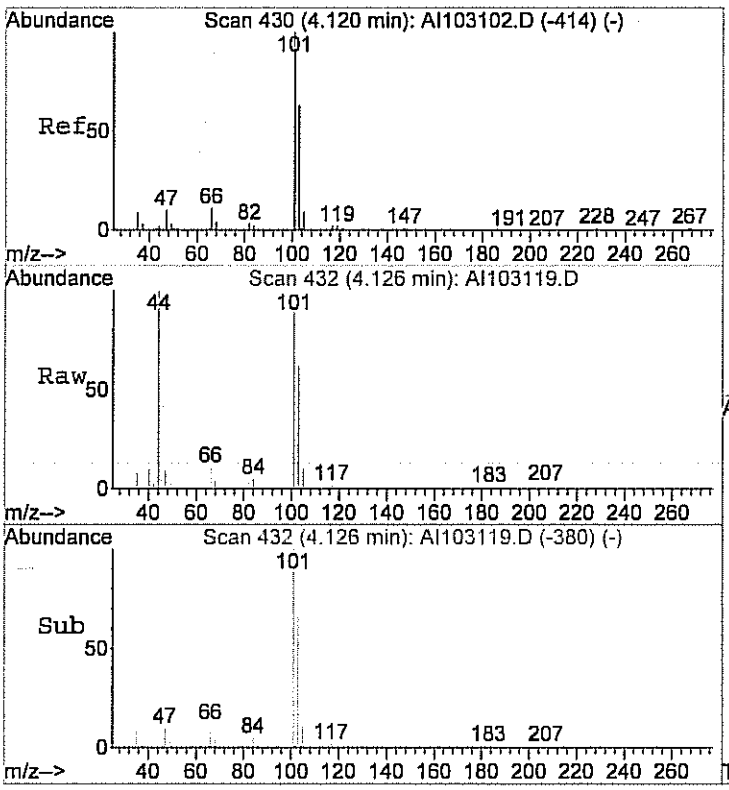


#3
Freon 12
Concen: 0.50 ppb
RT: 2.95 min Scan# 40
Delta R.T. 0.00 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 85 Resp: 40668

Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.2	52.2

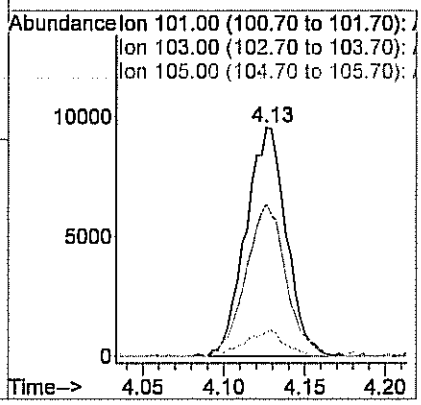


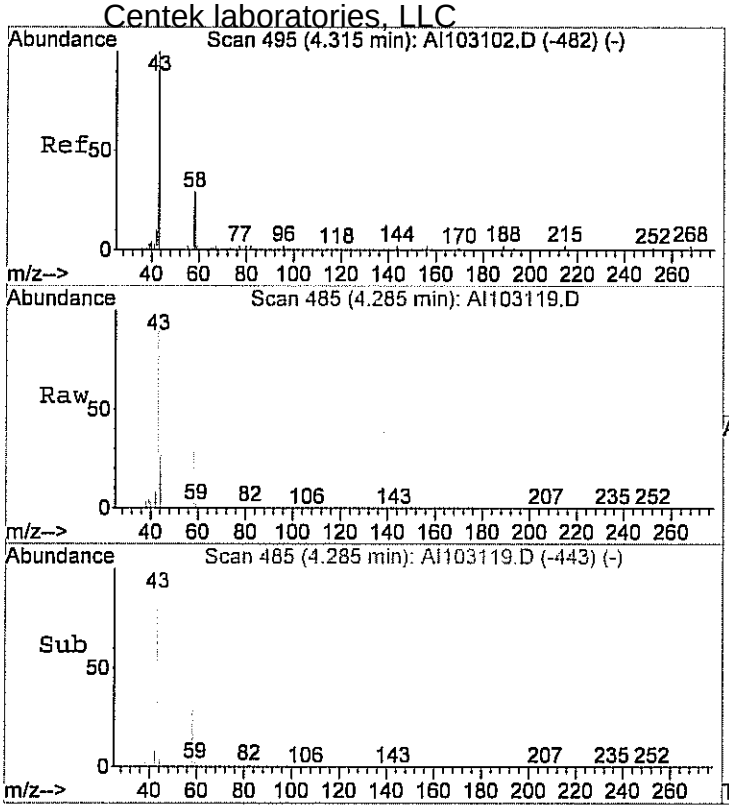


#13
Freon 11
Concen: 0.35 ppb
RT: 4.13 min Scan# 432
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion:101 Resp: 16577

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.9	84.9
105	11.1	0.0	30.9

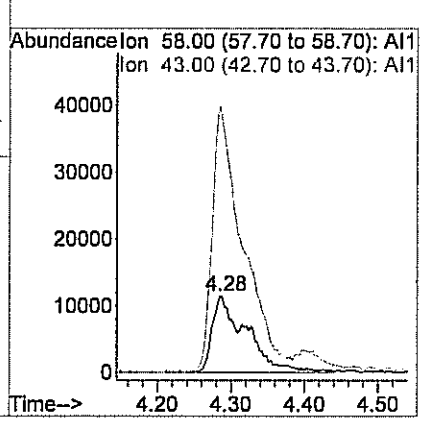


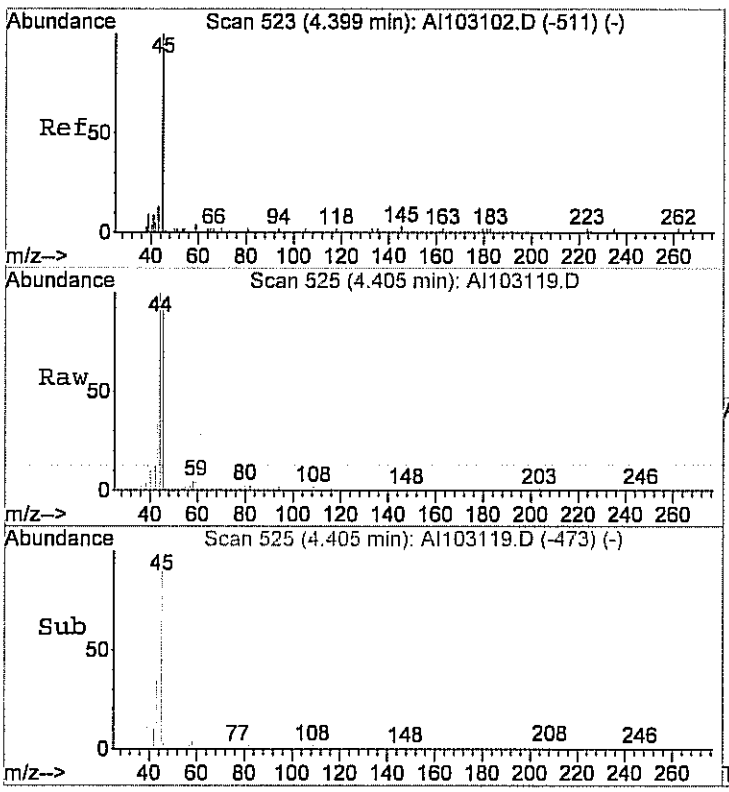


#14
Acetone
Concen: 6.14 ppb
RT: 4.28 min Scan# 485
Delta R.T. -0.02 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 58 Resp: 37518

Ion	Ratio	Lower	Upper
58	100		
43	333.4	360.8	420.8#

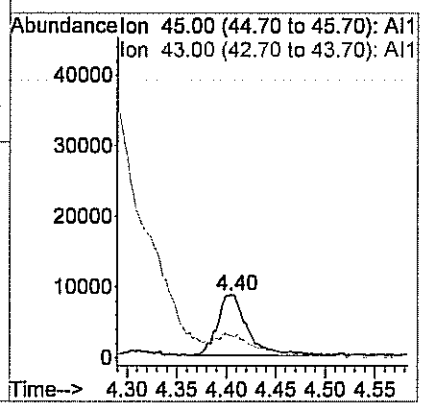


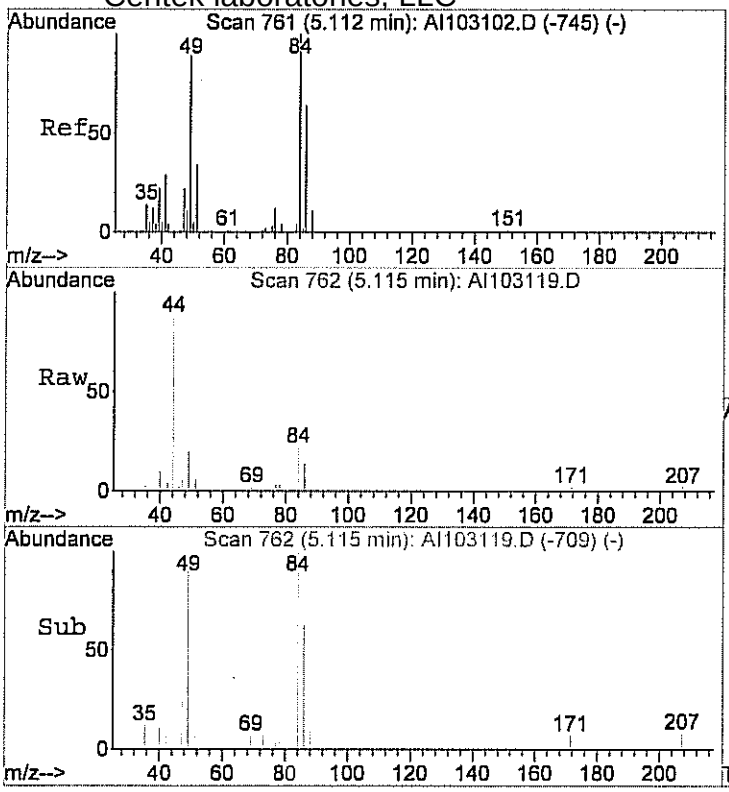


#15
Isopropyl alcohol
Concen: 1.14 ppb
RT: 4.40 min Scan# 525
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 45 Resp: 18245

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

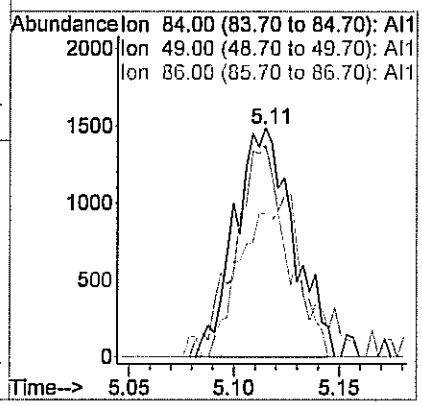


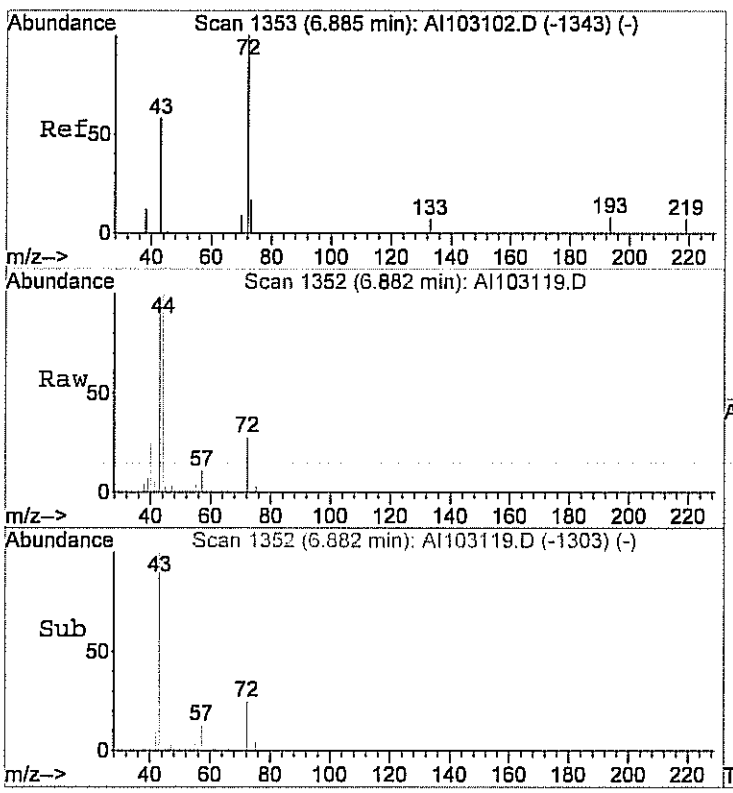


#18
Methylene chloride
Concen: 0.13 ppb
RT: 5.11 min Scan# 762
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 84 Resp: 2853

Ion	Ratio	Lower	Upper
84	100		
49	96.3	116.9	156.9#
86	63.4	46.7	86.7

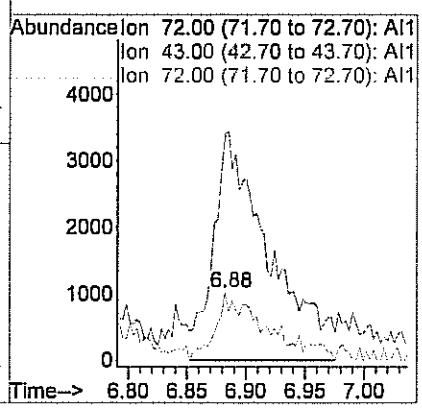


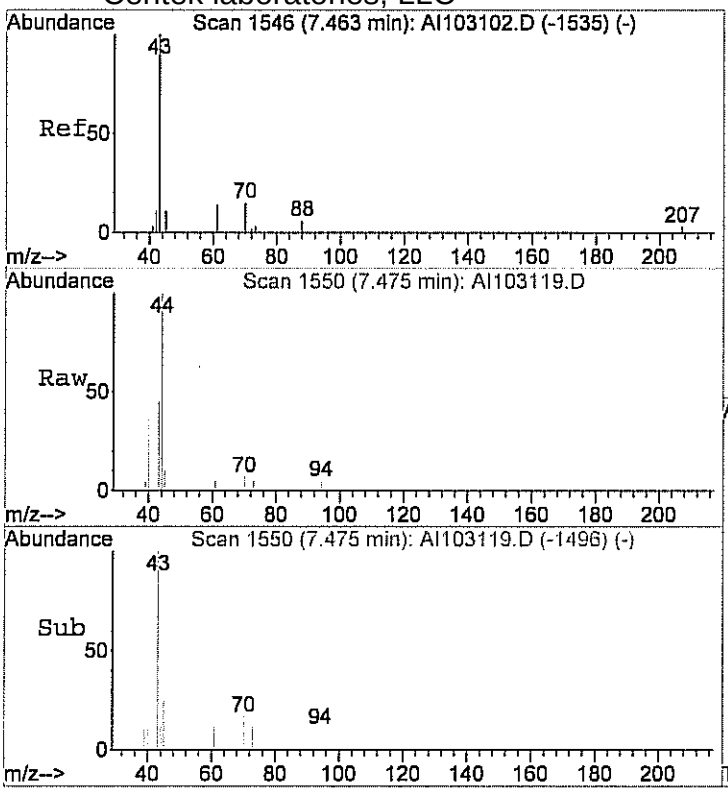


#25
Methyl Ethyl Ketone
Concen: 0.58 ppb
RT: 6.88 min Scan# 1352
Delta R.T. -0.00 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 72 Resp: 3035

Ion	Ratio	Lower	Upper
72	100		
43	16.4	0.0	20.0
72	100.0	80.0	120.0

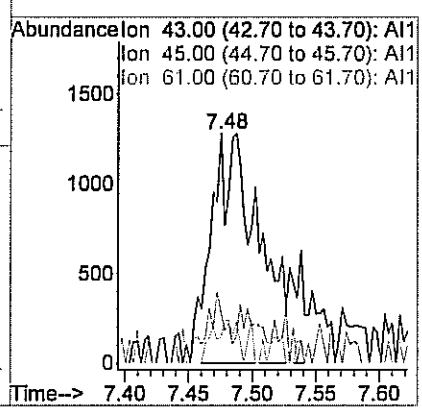


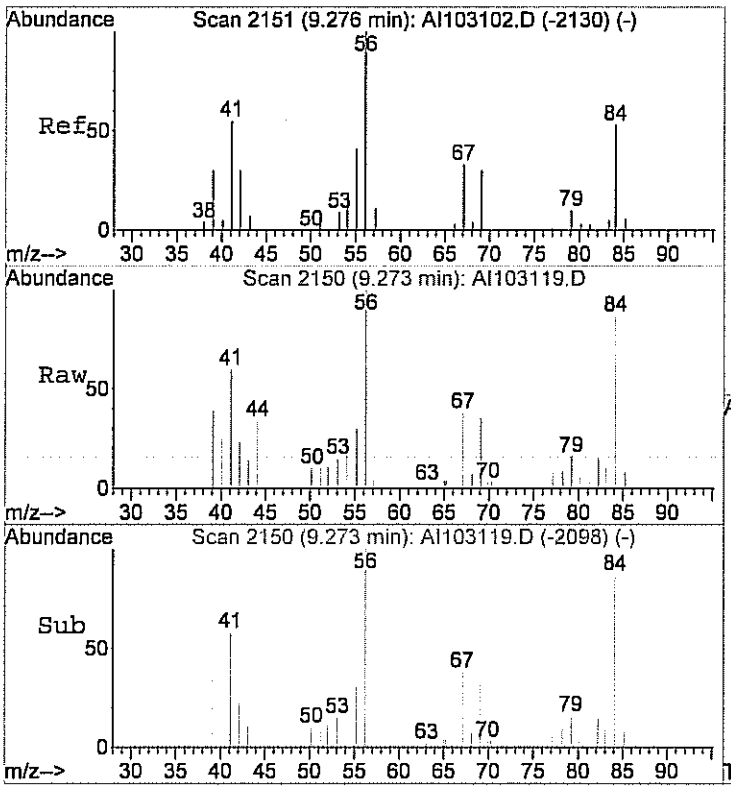


#28
Ethyl acetate
Concen: 0.21 ppb
RT: 7.48 min Scan# 1550
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 43 Resp: 3991

Ion	Ratio	Lower	Upper
43	100		
45	10.7	0.0	34.5
61	7.7	0.0	34.0

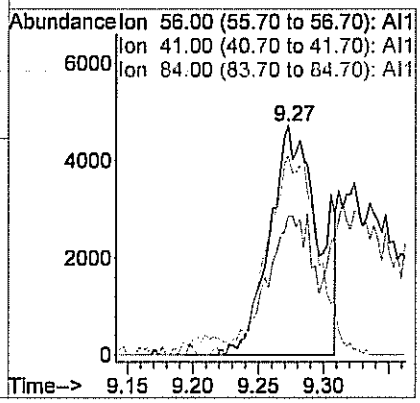


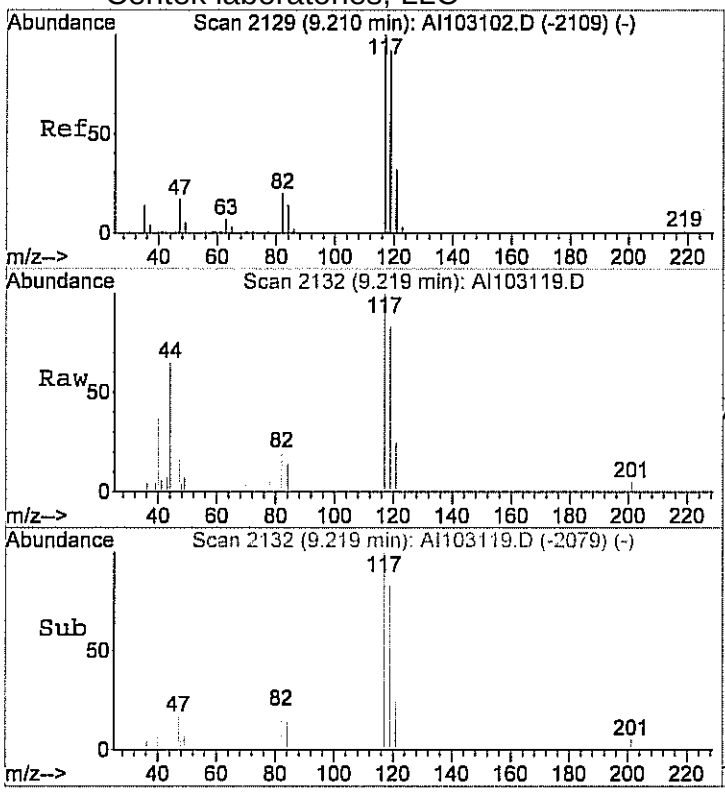


#34
Cyclohexane
Concen: 0.70 ppb m
RT: 9.27 min Scan# 2150
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 56 Resp: 12222

Ion	Ratio	Lower	Upper
56	100		
41	164.2	49.1	89.1#
84	87.8	114.6	154.6#

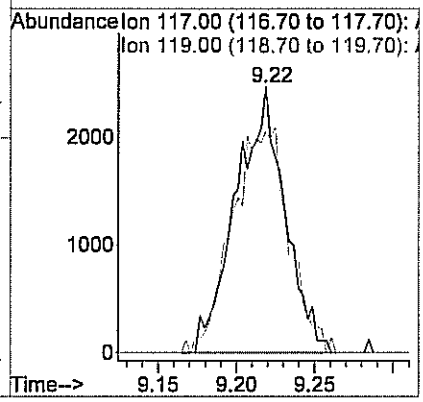


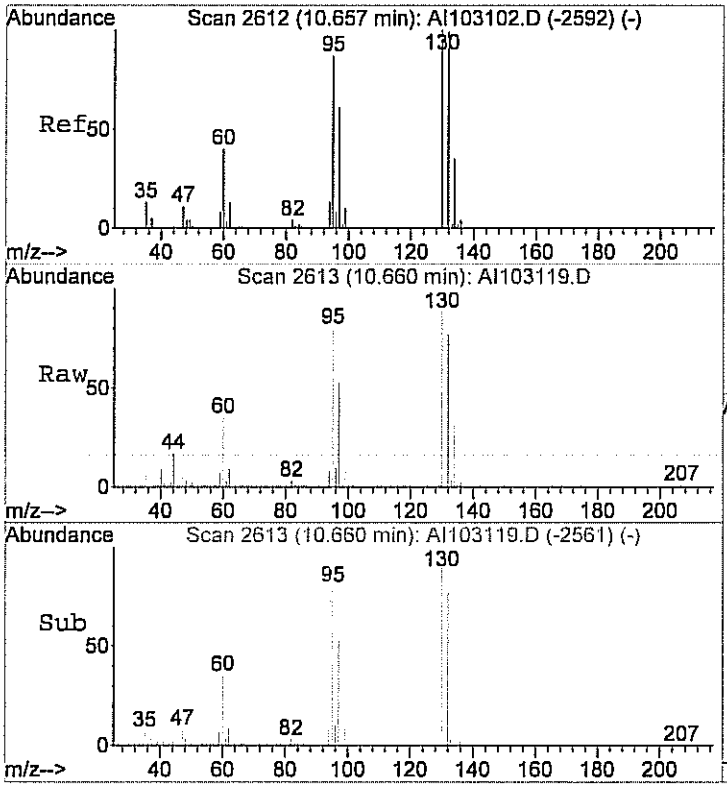


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.22 min Scan# 2132
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion:117 Resp: 5373

Ion	Ratio	Lower	Upper
117	100		
119	97.6	77.2	117.2

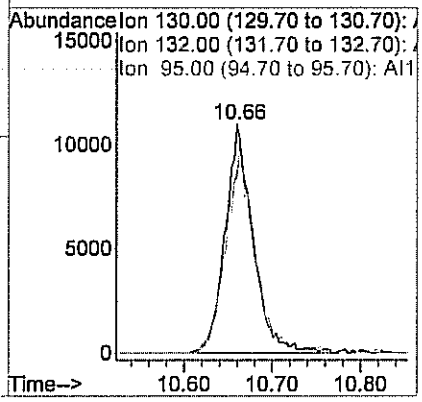


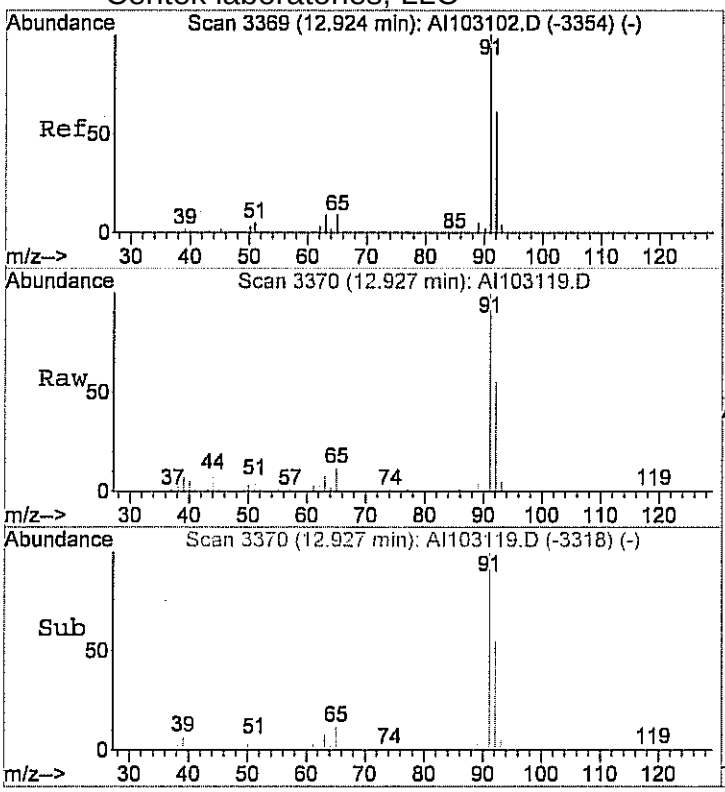


#41
Trichloroethene
Concen: 0.67 ppb
RT: 10.66 min Scan# 2613
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion:130 Resp: 24177

Ion	Ratio	Lower	Upper
130	100		
132	93.3	79.0	119.0
95	90.5	76.8	116.8

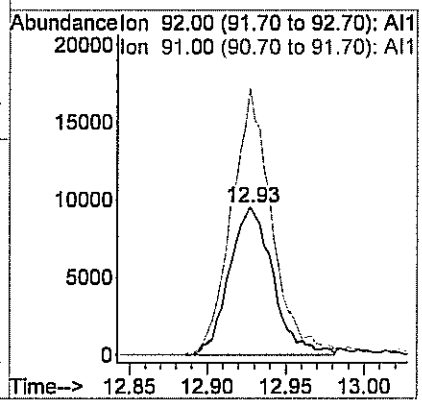




#48
Toluene
Concen: 0.56 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103119.D
Acq: 31 Oct 2011 8:24 pm

Tgt Ion: 92 Resp: 18301

Ion	Ratio	Lower	Upper
92	100		
91	174.0	159.8	199.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103135.D Vial: 42
Acq On : 1 Nov 2011 4:59 am Operator: RJP
Sample : C1110054-001A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 05:20:05 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	19248	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	45039	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	41002	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	16982	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
14) Acetone	4.33	58	4257	0.76	ppb	# 69

(#) = qualifier out of range (m) = manual integration (+) = signals summed

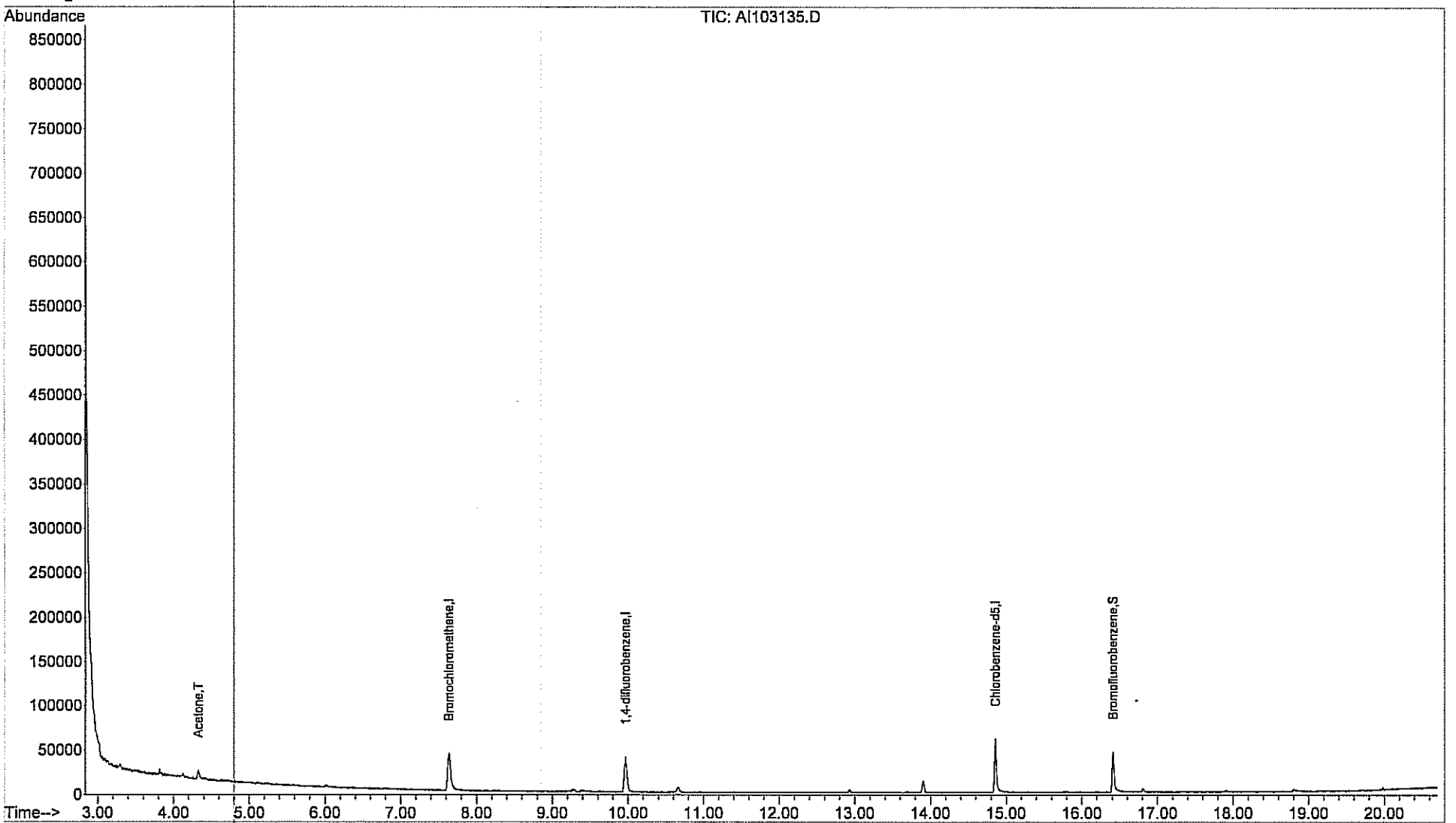
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103135.D
Acq On : 1 Nov 2011 4:59 am
Sample : C1110054-001A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:00 2011

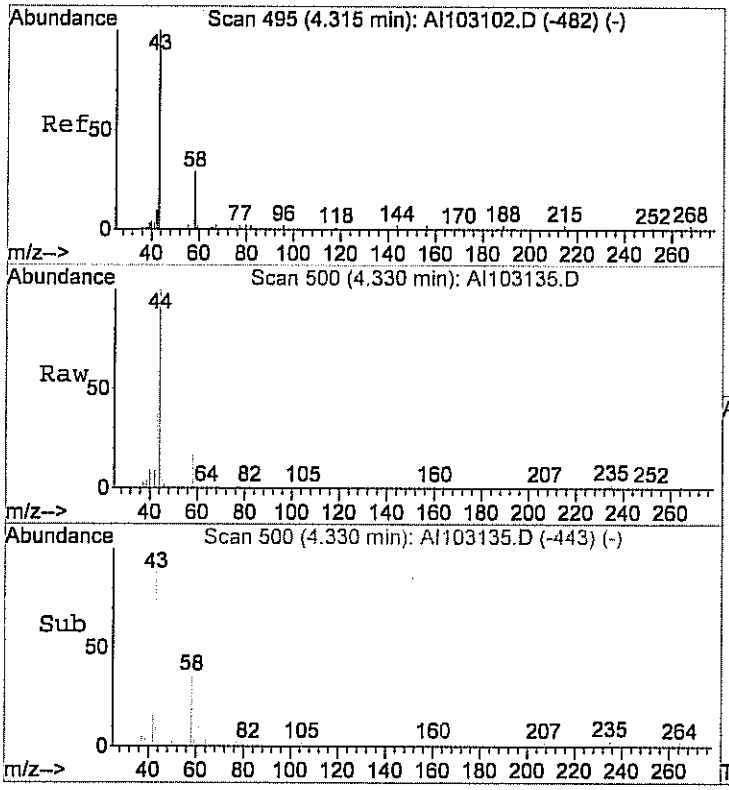
Vial: 42
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



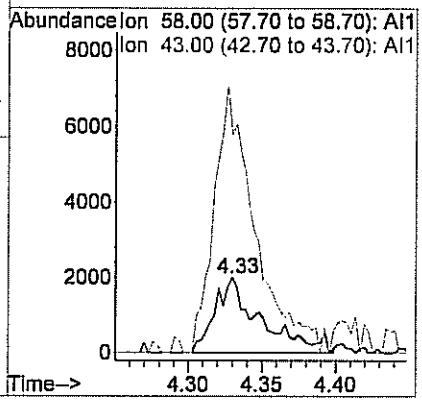
Centek laboratories, LLC



#14
Acetone
Concen: 0.76 ppb
RT: 4.33 min Scan# 500
Delta R.T. 0.02 min
Lab File: AI103135.D
Acq: 1 Nov 2011 4:59 am

Tgt Ion: 58 Resp: 4257

Ion	Ratio	Lower	Upper
58	100		
43	317.7	360.8	420.8#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Acetone	4.6	1.5		ppbV	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroform	0.14	0.15	J	ppbV	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Cyclohexane	1.0	0.15		ppbV	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 11	0.39	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 12	0.41	0.15		ppbV	1	10/31/2011 8:56:00 PM
Heptane	1.5	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	0.97	0.15		ppbV	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.12	0.30	J	ppbV	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Toluene	0.36	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Trichloroethene	2.1	0.75		ppbV	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 8:56:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Acetone	11	3.6		ug/m3	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:56:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:56:00 PM
Chloroform	0.69	0.74	J	ug/m3	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Freon 11	2.2	0.86		ug/m3	1	10/31/2011 8:56:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.1	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Heptane	6.2	0.62		ug/m3	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	2.4	0.37		ug/m3	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.53	1.3	J	ug/m3	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:56:00 PM
Toluene	1.4	0.57		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Trichloroethene	11	4.1		ug/m3	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103120.D Vial: 28
Acq On : 31 Oct 2011 8:56 pm Operator: RJP
Sample : C1110054-002A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 21:17:41 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	23304	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	63530	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	65927	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	32244	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
3) Freon 12	2.95	85	36969	0.41	ppb		99
13) Freon 11	4.12	101	20553	0.39	ppb		99
14) Acetone	4.32	58	36720	5.41	ppb	#	9
15) Isopropyl alcohol	4.40	45	17288	0.97	ppb		100
29) Chloroform	7.81	83	9113	0.14	ppb		99
34) Cyclohexane	9.28	56	20016	1.00	ppb	#	72
35) Carbon tetrachloride	9.22	117	6211	0.10	ppb		95
40) Heptane	10.57	43	28659	1.49	ppb	#	30
41) Trichloroethene	10.67	130	100528	2.43	ppb		98
48) Toluene	12.93	92	14429	0.36	ppb		93
56) m&p-xylene	15.33	91	7810	0.12	ppb		97
65) 1,2,4-trimethylbenzene	17.44	105	7799	0.13	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

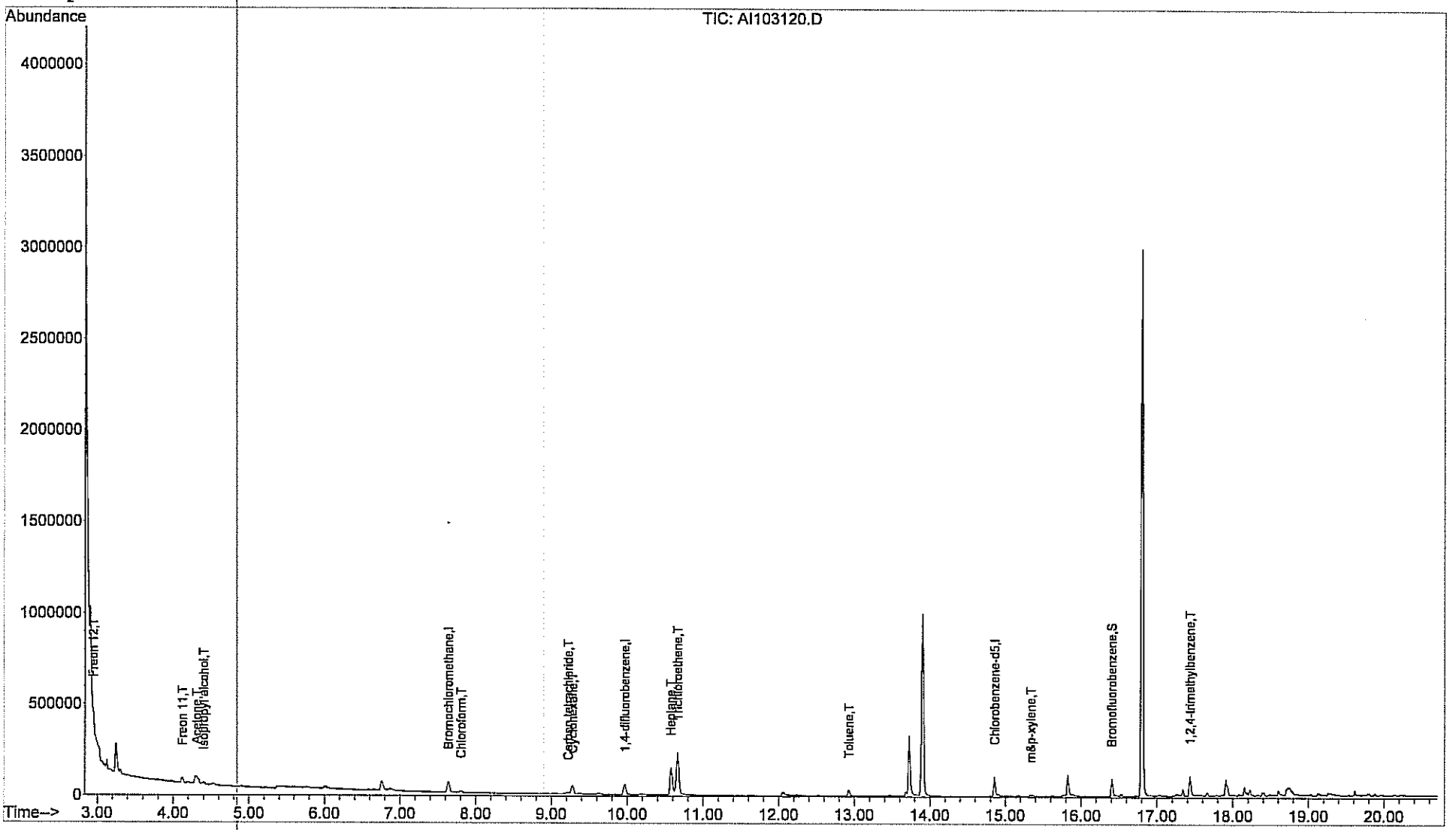
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103120.D
Acq On : 31 Oct 2011 8:56 pm
Sample : C1110054-002A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 8:56 2011

Vial: 28
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

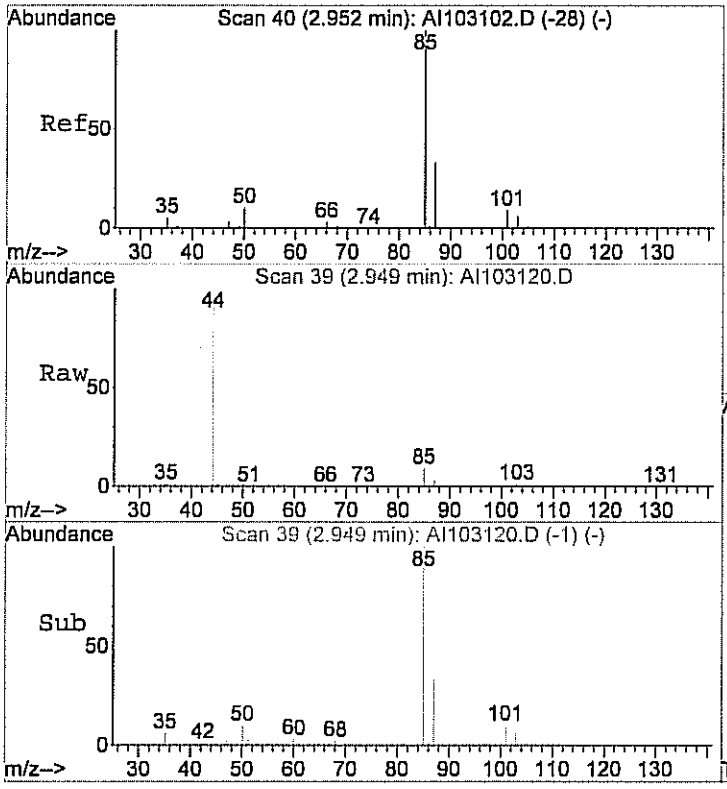
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI103120.D AO30_1UG.M Mon Nov 21 08:58:24 2011 MSD1

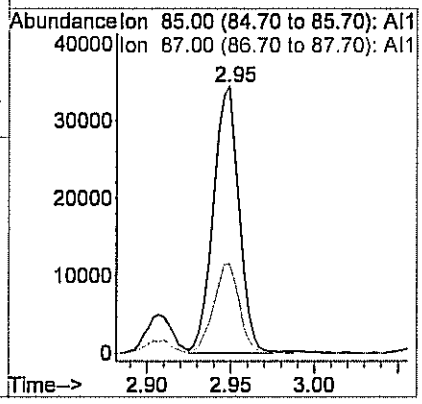
Centek laboratories, LLC

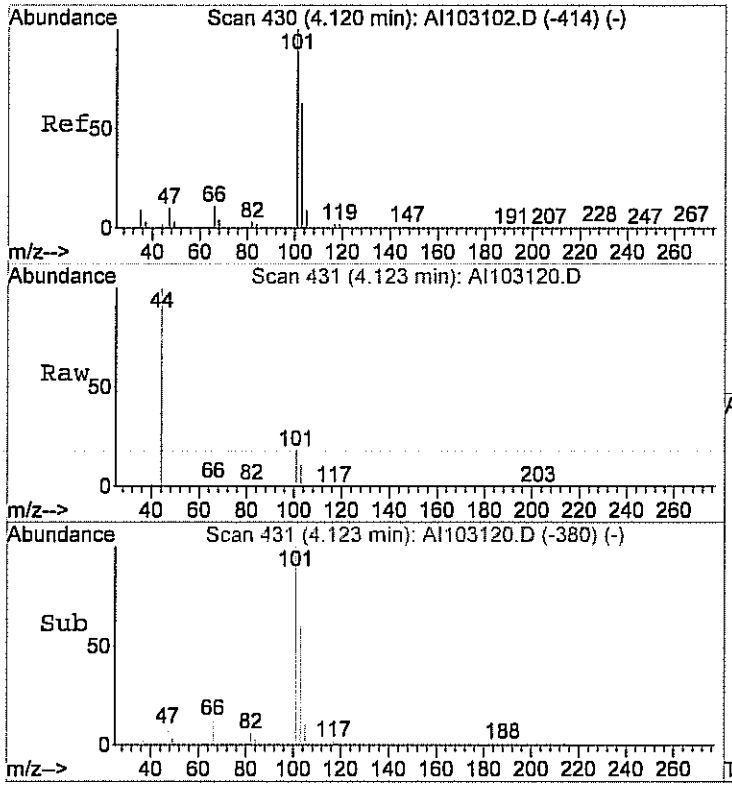


#3
Freon 12
Concen: 0.41 ppb
RT: 2.95 min Scan# 39
Delta R.T. -0.00 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 85 Resp: 36969

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

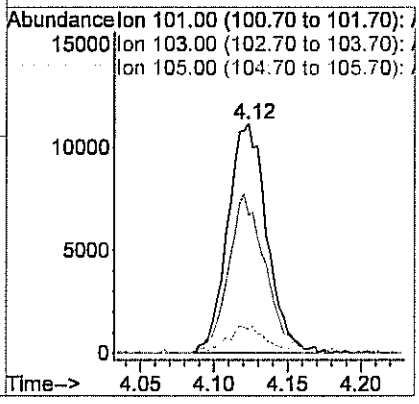


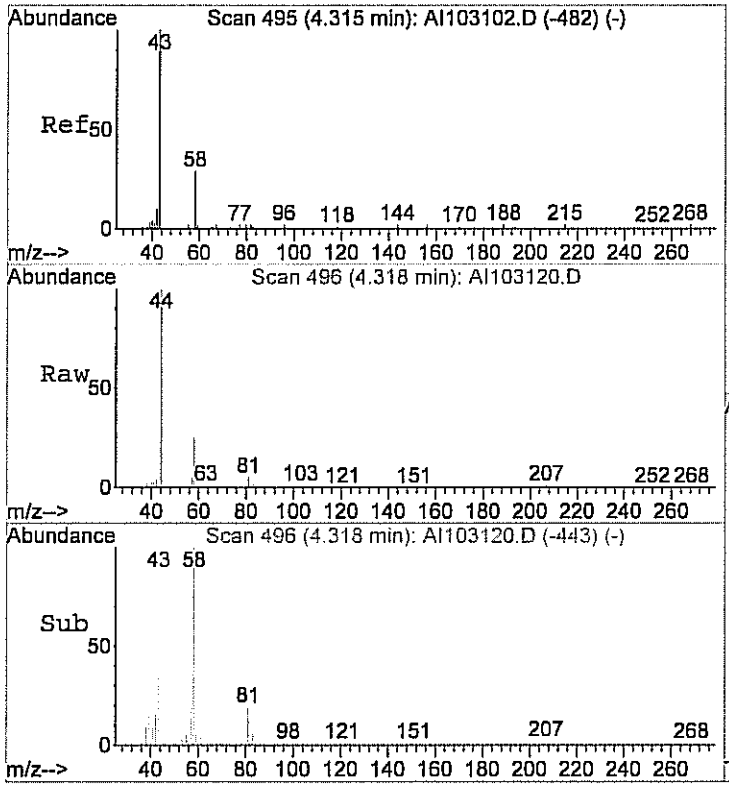


#13
Freon 11
Concen: 0.39 ppb
RT: 4.12 min Scan# 431
Delta R.T. 0.00 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion:101 Resp: 20553

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.9	84.9
105	11.9	0.0	30.9

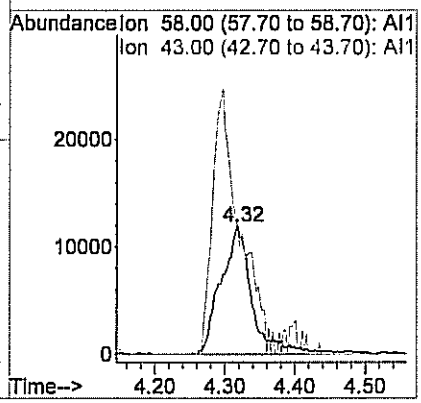


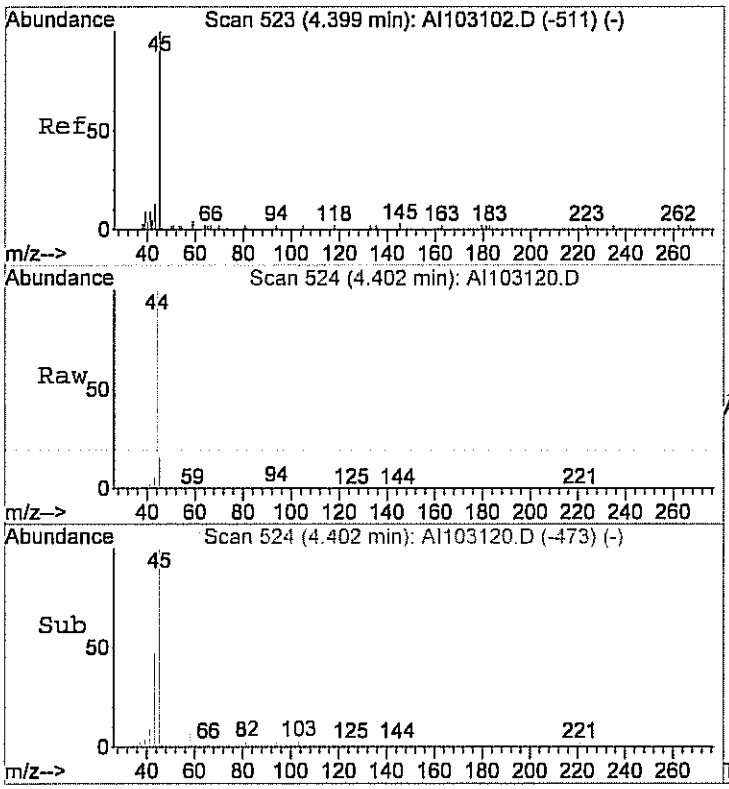


#14
Acetone
Concen: 5.41 ppb
RT: 4.32 min Scan# 496
Delta R.T. 0.01 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 58 Resp: 36720

Ion	Ratio	Lower	Upper
58	100		
43	179.3	360.8	420.8#

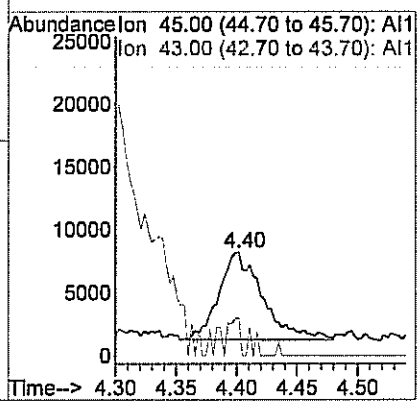


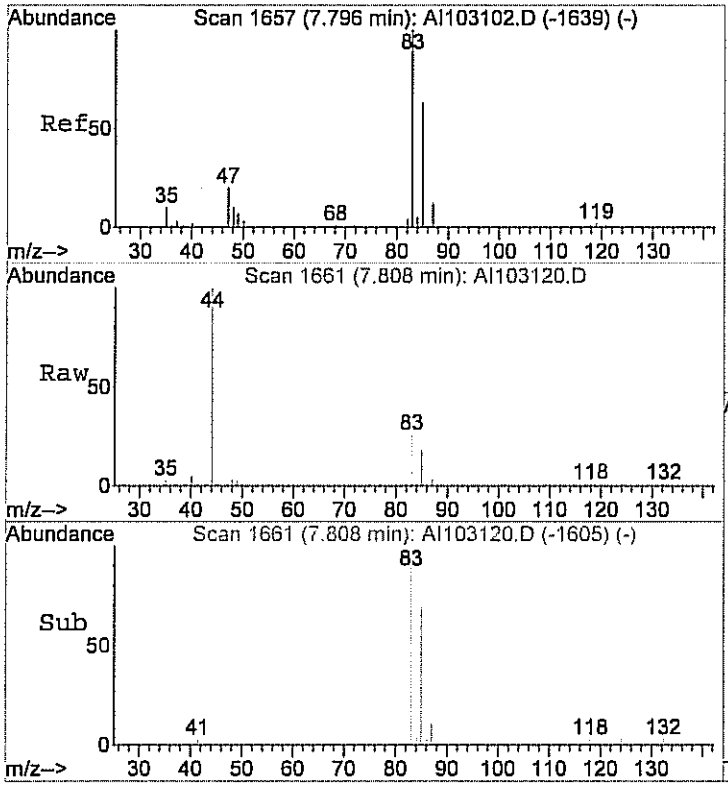


#15
Isopropyl alcohol
Concen: 0.97 ppb
RT: 4.40 min Scan# 524
Delta R.T. 0.00 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 45 Resp: 17288

Ion	Ratio	Lower	Upper
45	100		
43	11.5	0.0	20.0

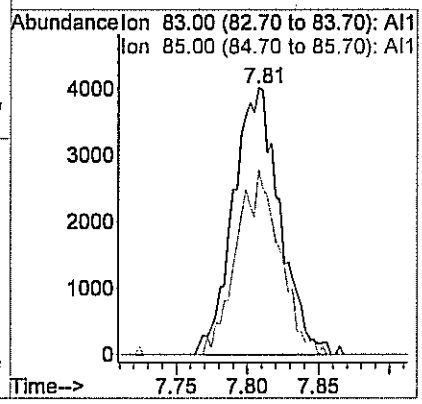


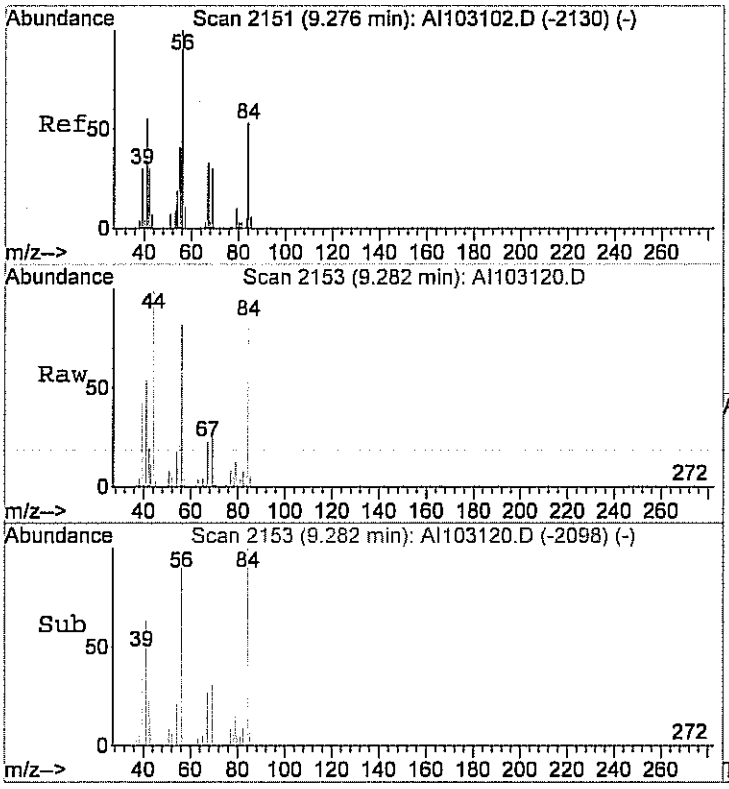


#29
Chloroform
Concen: 0.14 ppb
RT: 7.81 min Scan# 1661
Delta R.T. 0.02 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 83 Resp: 9113

Ion	Ratio	Lower	Upper
83	100		
85	64.2	45.0	85.0

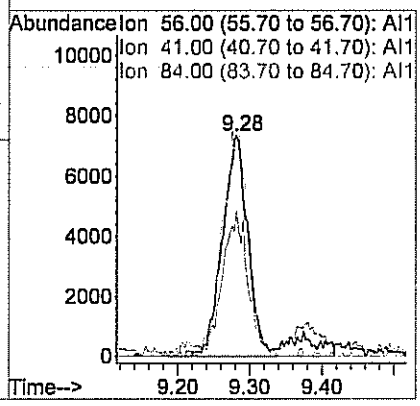


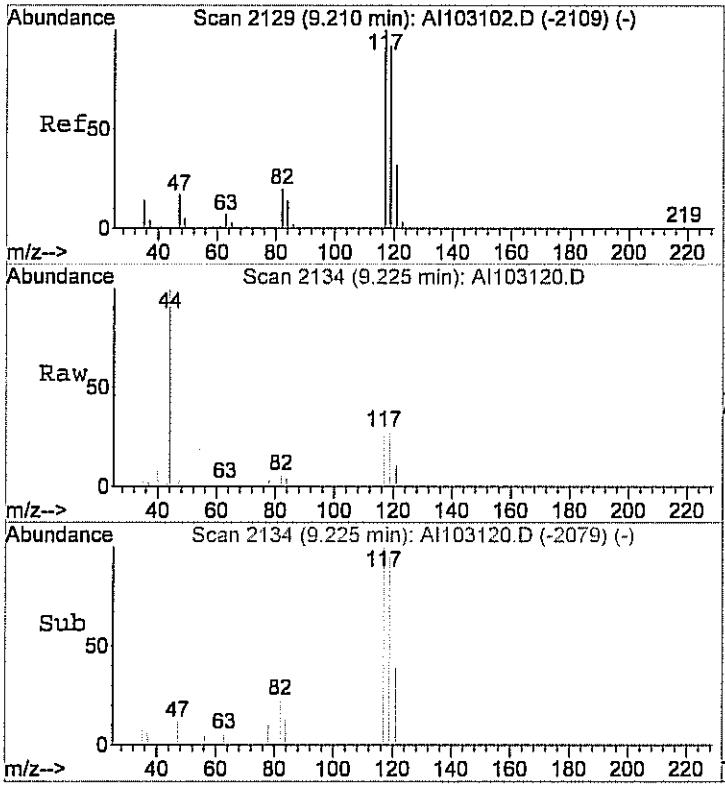


#34
Cyclohexane
Concen: 1.00 ppb
RT: 9.28 min Scan# 2153
Delta R.T. 0.01 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 56 Resp: 20016

Ion	Ratio	Lower	Upper
56	100		
41	76.5	49.1	89.1
84	89.9	114.6	154.6#

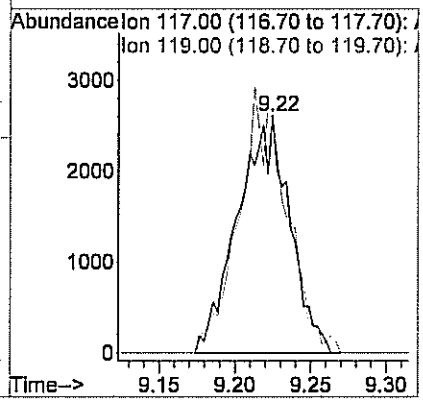


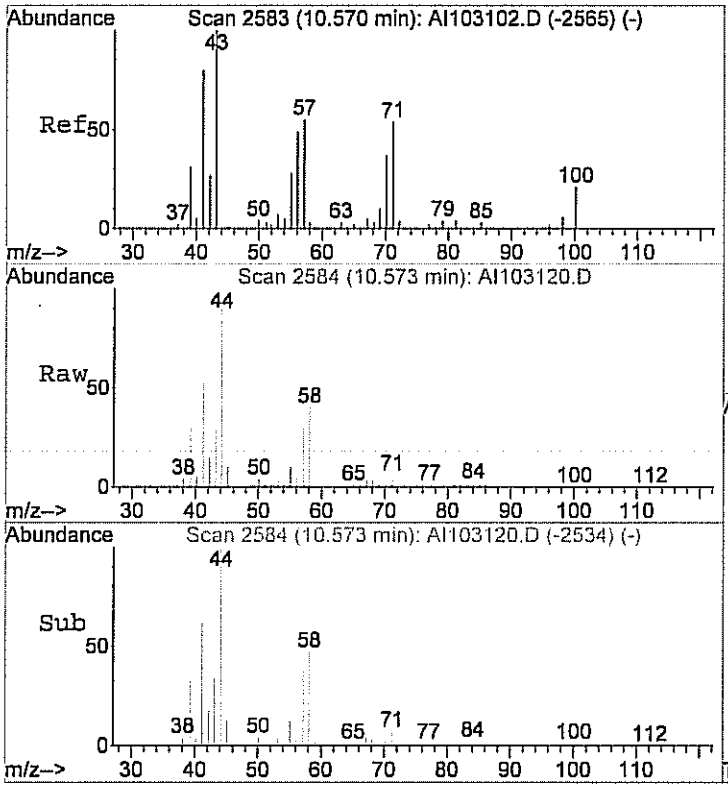


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.22 min Scan# 2134
Delta R.T. 0.01 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion:117 Resp: 6211

Ion	Ratio	Lower	Upper
117	100		
119	101.9	77.2	117.2

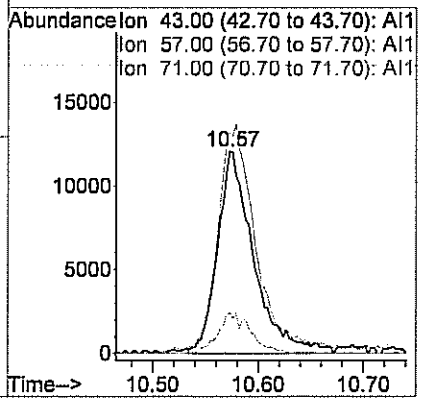


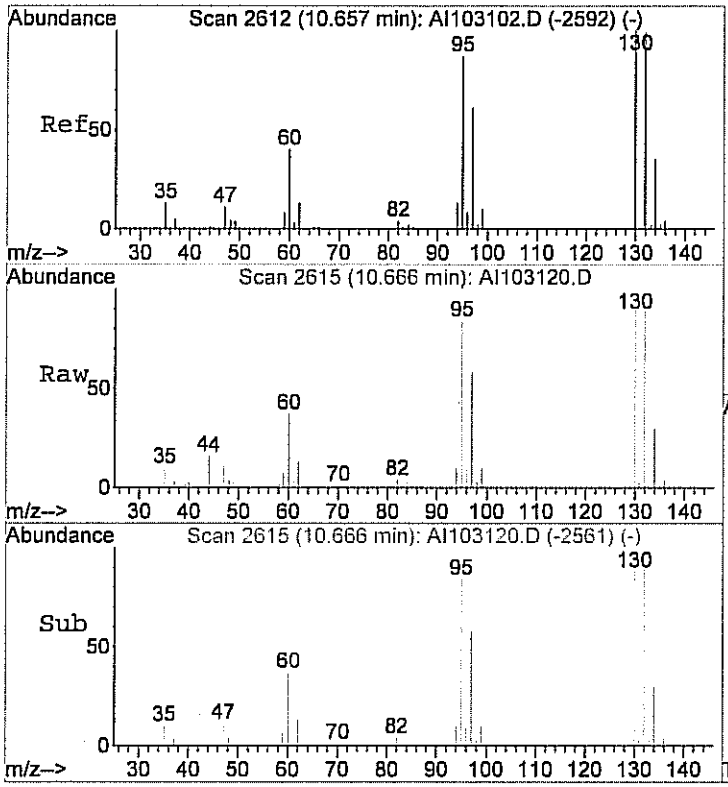


#40
Heptane
Concen: 1.49 ppb
RT: 10.57 min Scan# 2584
Delta R.T. 0.00 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 43 Resp: 28659

Ion	Ratio	Lower	Upper
43	100		
57	114.8	32.1	72.1#
71	18.2	35.5	75.5#

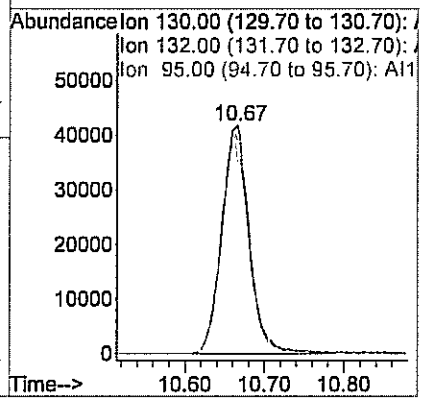


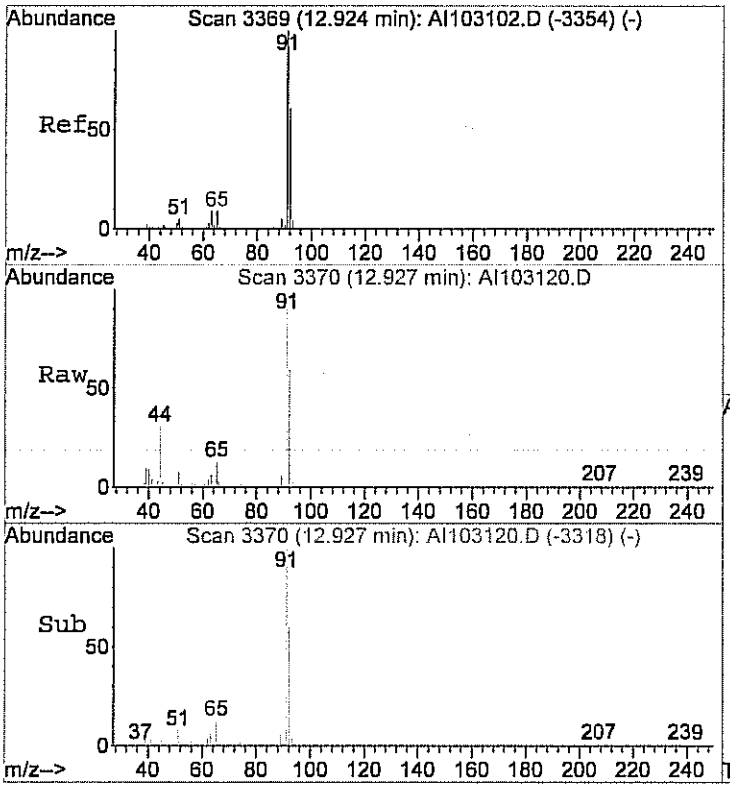


#41
Trichloroethene
Concen: 2.43 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion:130 Resp: 100528

Ion	Ratio	Lower	Upper
130	100		
132	98.2	79.0	119.0
95	93.7	76.8	116.8

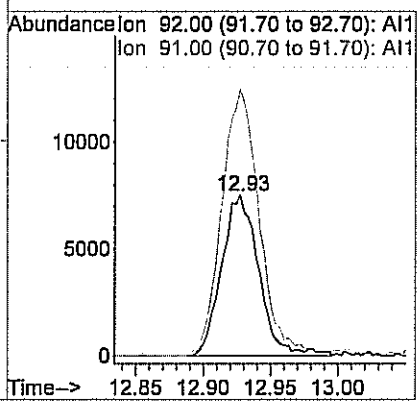


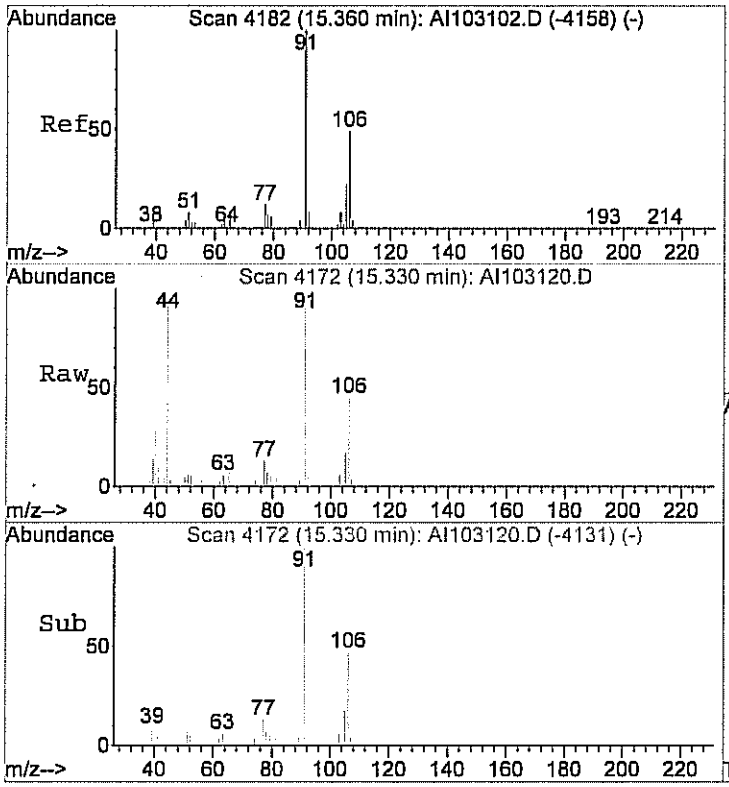


#48
Toluene
Concen: 0.36 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 92 Resp: 14429

Ion	Ratio	Lower	Upper
92	100		
91	169.9	159.8	199.8

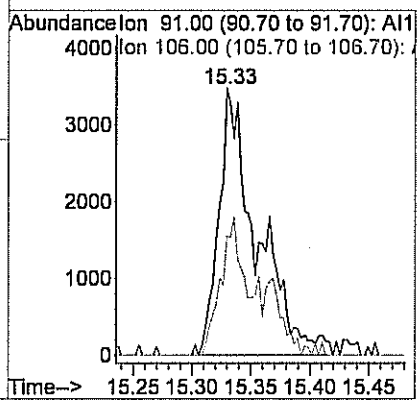


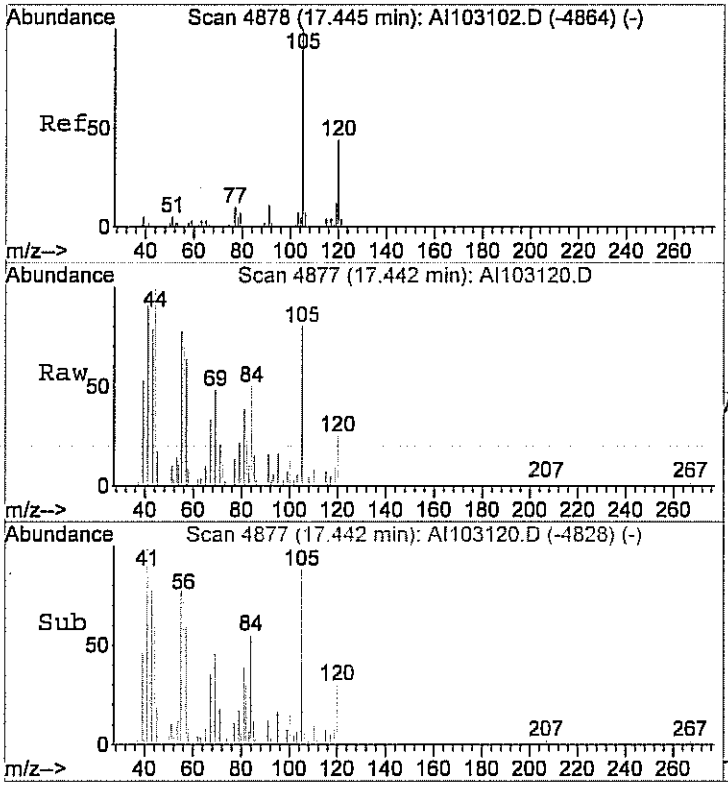


#56
m&p-xylene
Concen: 0.12 ppb
RT: 15.33 min Scan# 4172
Delta R.T. -0.03 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion: 91 Resp: 7810

Ion	Ratio	Lower	Upper
91	100		
106	49.5	27.5	67.5

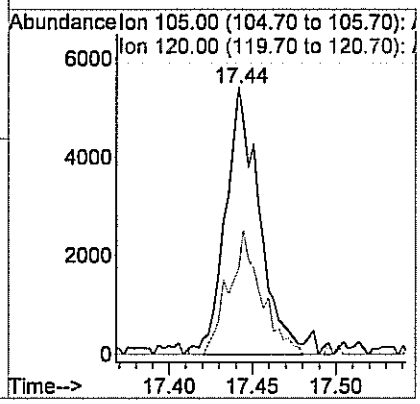




#65
1,2,4-trimethylbenzene
Concen: 0.13 ppb
RT: 17.44 min Scan# 4877
Delta R.T. -0.00 min
Lab File: AI103120.D
Acq: 31 Oct 2011 8:56 pm

Tgt Ion:105 Resp: 7799

Ion	Ratio	Lower	Upper
105	100		
120	43.1	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103136.D Vial: 43
Acq On : 1 Nov 2011 5:30 am Operator: RJP
Sample : C1110054-002A 5x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 05:51:45 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	19069	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	44179	1.00	ppb	0.01
47) Chlorobenzene-d5	14.85	117	43241	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	19517	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
14) Acetone	4.34	58	5087	0.92	ppb	# 17
41) Trichloroethene	10.66	130	11981	0.42	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

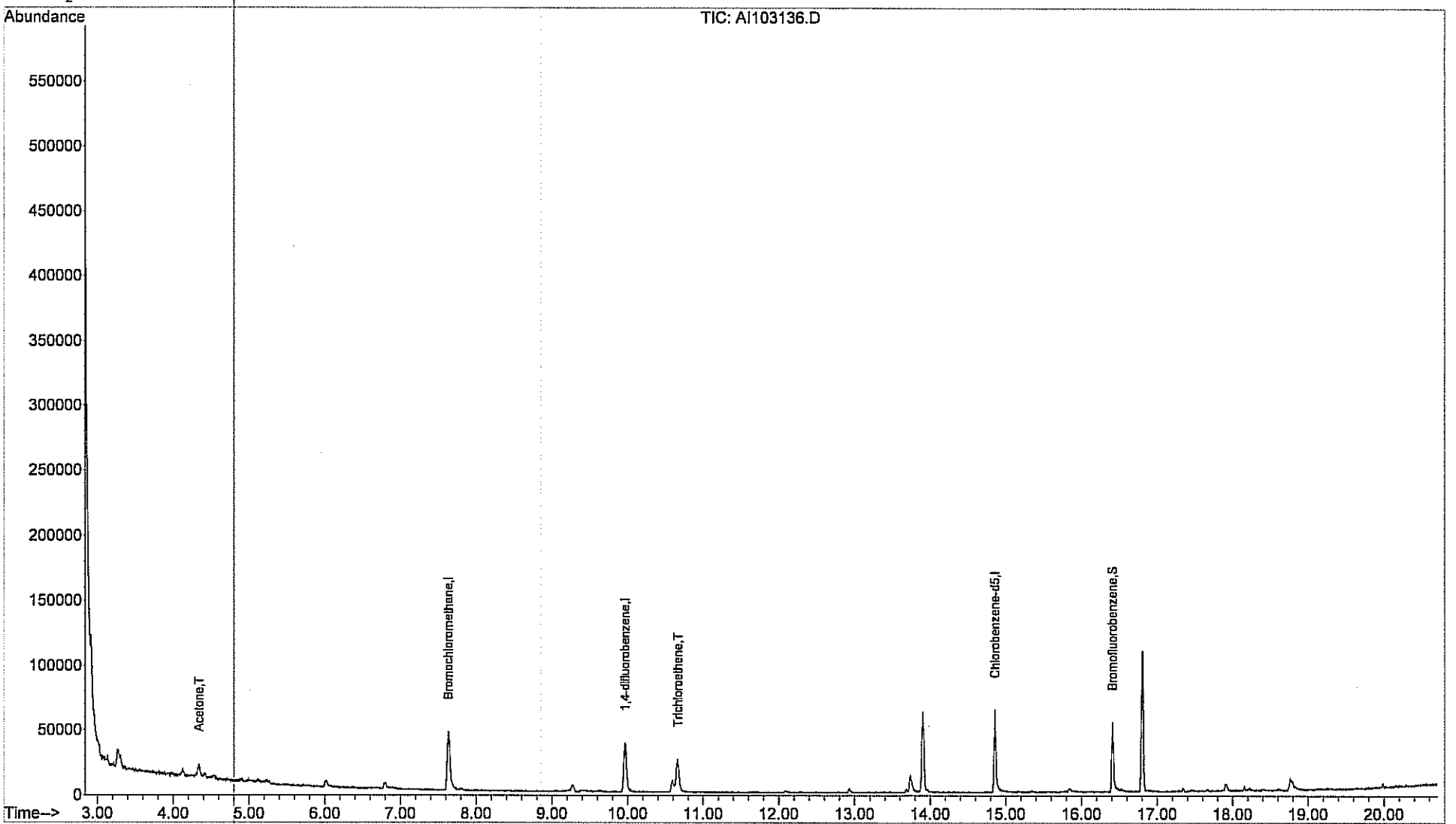
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103136.D
Acq On : 1 Nov 2011 5:30 am
Sample : C1110054-002A 5x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:01 2011

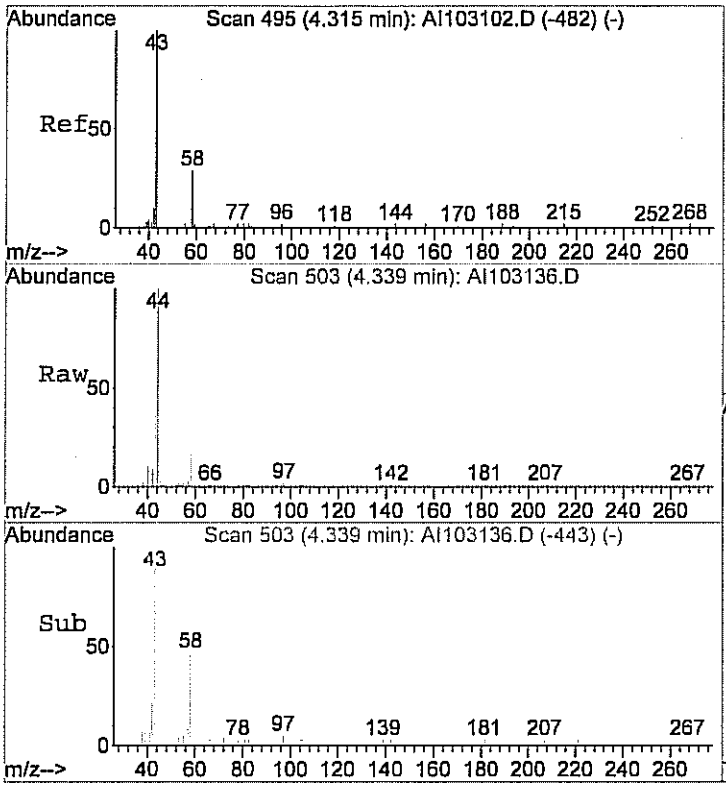
Vial: 43
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



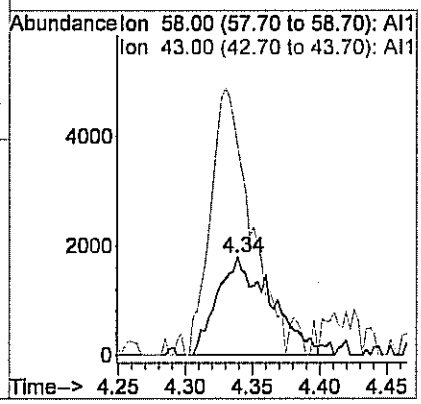
Centek laboratories, LLC

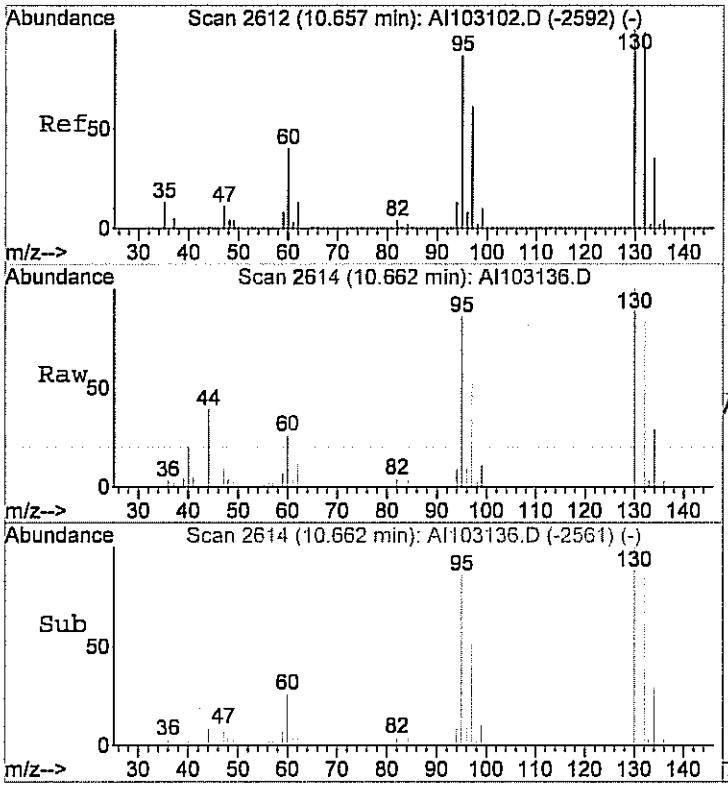


#14
Acetone
Concen: 0.92 ppb
RT: 4.34 min Scan# 503
Delta R.T. 0.03 min
Lab File: AI103136.D
Acq: 1 Nov 2011 5:30 am

Tgt Ion: 58 Resp: 5087

Ion	Ratio	Lower	Upper
58	100		
43	197.4	360.8	420.8#

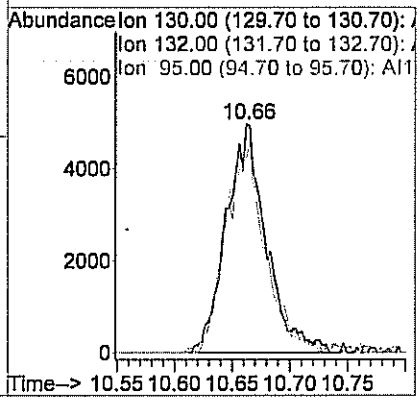




#41
Trichloroethene
Concen: 0.42 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI103136.D
Acq: 1 Nov 2011 5:30 am

Tgt Ion:130 Resp: 11981

Ion	Ratio	Lower	Upper
130	100		
132	95.1	79.0	119.0
95	90.8	76.8	116.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Acetone	4.8	3.0		ppbV	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Benzene	0.12	0.15	J	ppbV	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 11	1.7	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 9:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
m&p-Xylene	0.27	0.30	J	ppbV	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Toluene	0.57	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Trichloroethene	0.55	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/31/2011 9:29:00 PM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collectiou Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Acetone	12	7.2		ug/m3	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 9:29:00 PM
Benzene	0.39	0.49	J	ug/m3	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 9:29:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Freon 11	9.5	0.86		ug/m3	1	10/31/2011 9:29:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 9:29:00 PM
m&p-Xylene	1.2	1.3	J	ug/m3	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 9:29:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 9:29:00 PM
Toluene	2.2	0.57		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Trichloroethene	3.0	0.82		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 9:29:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103121.D Vial: 29
Acq On : 31 Oct 2011 9:29 pm Operator: RJP
Sample : C1110054-003A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 21:50:21 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	21293	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.97	114	60769	1.00	ppb		0.01
47) Chlorobenzene-d5	14.85	117	59982	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	28519	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
3) Freon 12	2.95	85	39542	0.48	ppb		99
13) Freon 11	4.12	101	80576	1.66	ppb		100
14) Acetone	4.28	58	14755	2.38	ppb	#	72
34) Cyclohexane	9.28	56	26582	1.38	ppb	#	63
36) Benzene	9.19	78	7132	0.12	ppb		97
41) Trichloroethene	10.66	130	21950	0.55	ppb		97
48) Toluene	12.93	92	20961	0.57	ppb		93
56) m&p-xylene	15.33	91	16587	0.27	ppb		97
65) 1,2,4-trimethylbenzene	17.44	105	10335	0.19	ppb		97

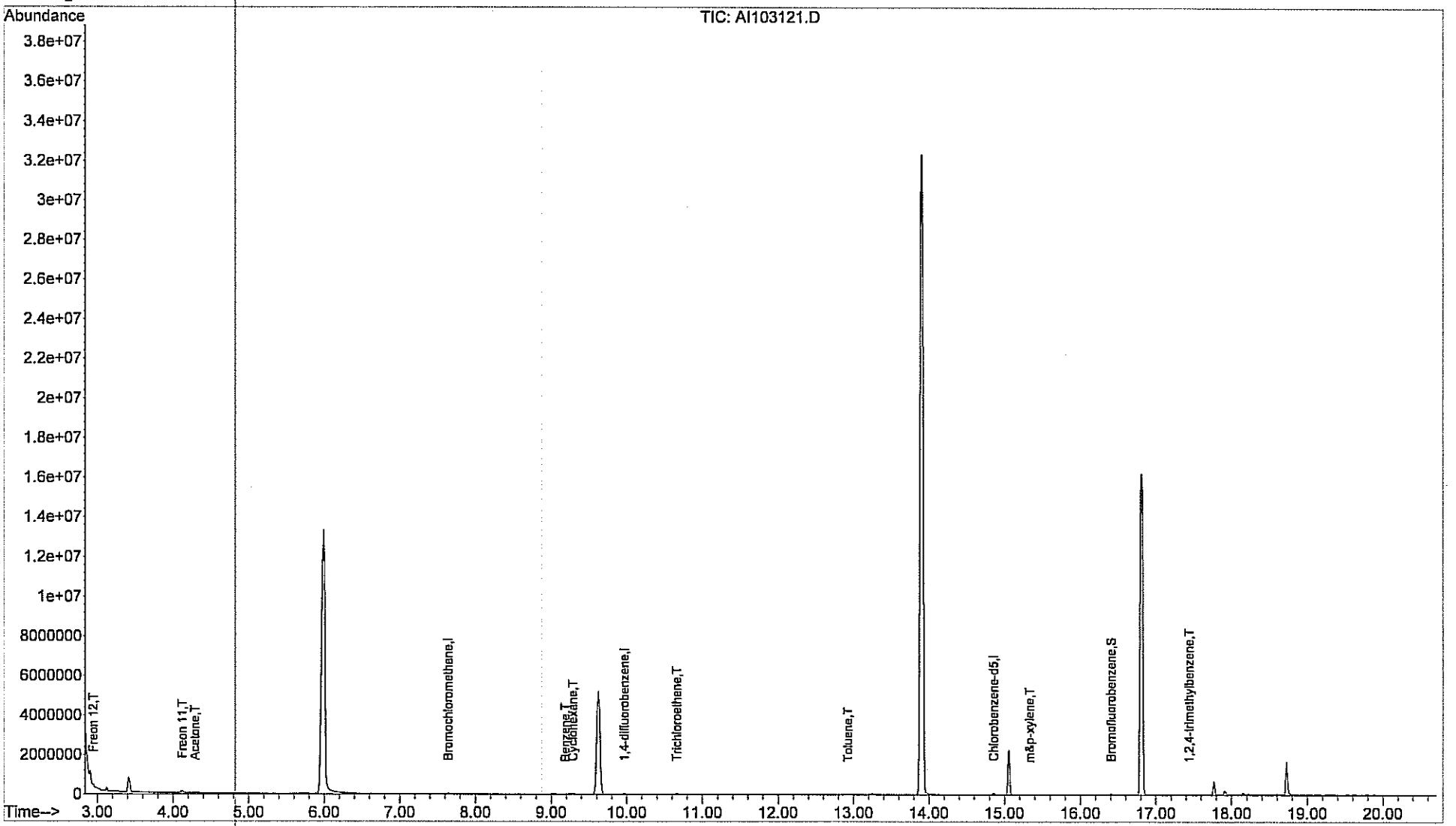
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103121.D
Acq On : 31 Oct 2011 9:29 pm
Sample : C1110054-003A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 9:00 2011

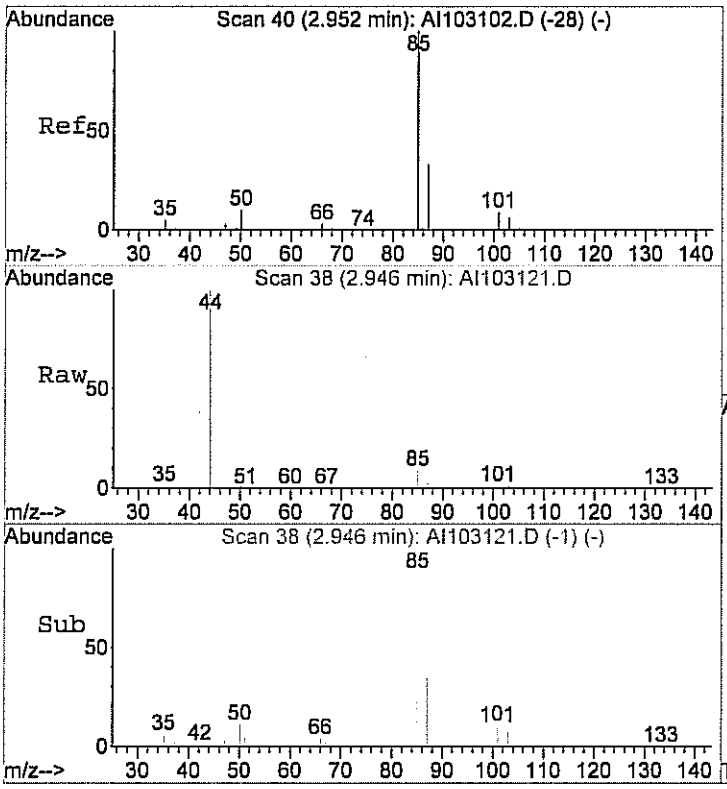
Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI103121.D AO30_1UG.M Mon Nov 21 08:58:31 2011 MSD1 Page 2

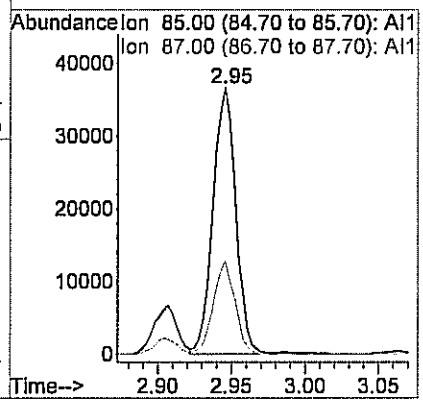
Centek laboratories, LLC

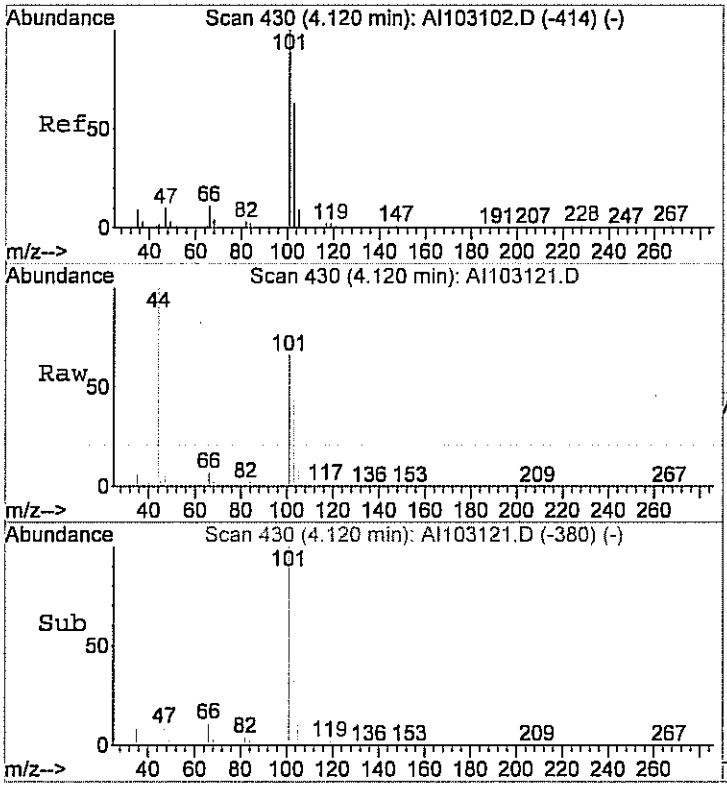


#3
Freon 12
Concen: 0.48 ppb
RT: 2.95 min Scan# 38
Delta R.T. -0.01 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 85 Resp: 39542

Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.2	52.2

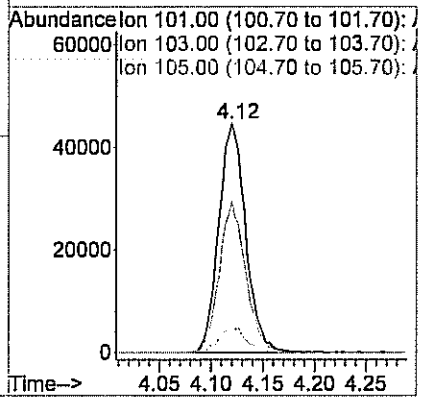


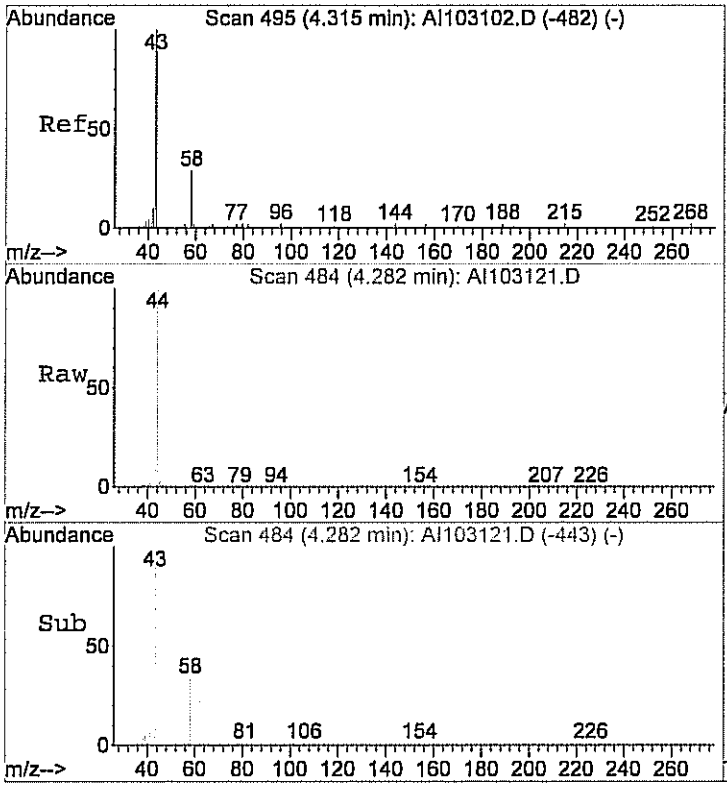


#13
Freon 11
Concen: 1.66 ppb
RT: 4.12 min Scan# 430
Delta R.T. -0.00 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion:101 Resp: 80576

Ion	Ratio	Lower	Upper
101	100		
103	64.8	44.9	84.9
105	11.0	0.0	30.9

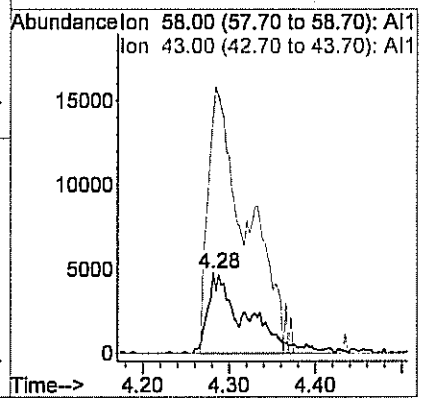


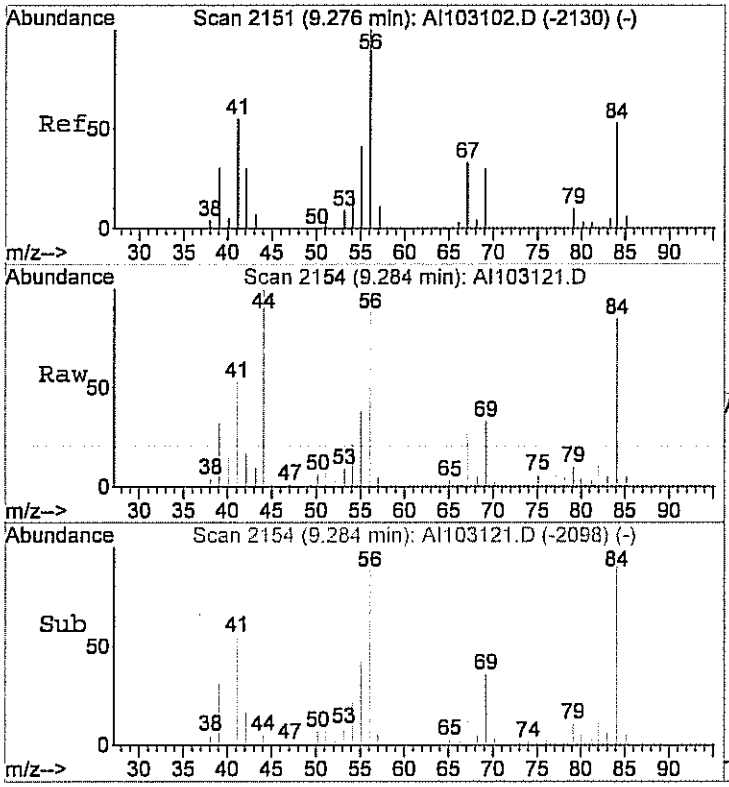


#14
Acetone
Concen: 2.38 ppb
RT: 4.28 min Scan# 484
Delta R.T. -0.03 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 58 Resp: 14755

Ion	Ratio	Lower	Upper
58	100		
43	325.8	360.8	420.8#

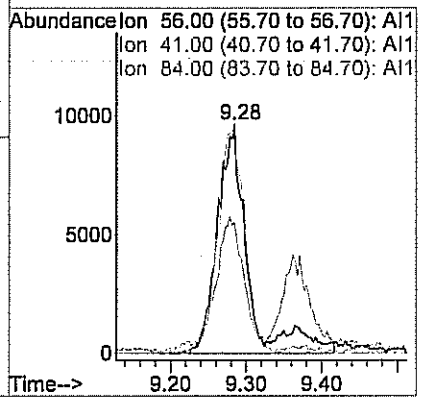


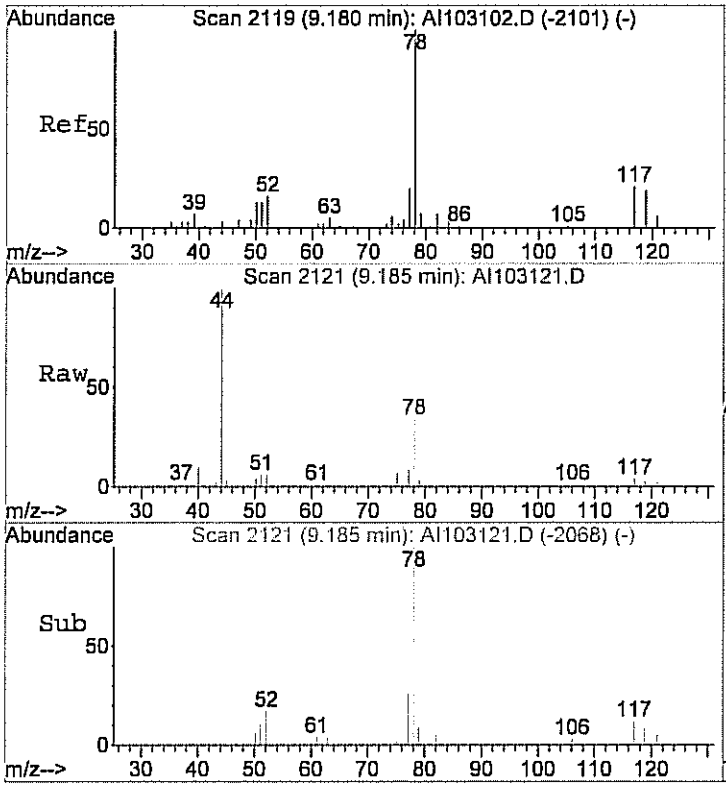


#34
Cyclohexane
Concen: 1.38 ppb
RT: 9.28 min Scan# 2154
Delta R.T. 0.02 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 56 Resp: 26582

Ion	Ratio	Lower	Upper
56	100		
41	96.1	49.1	89.1#
84	88.0	114.6	154.6#

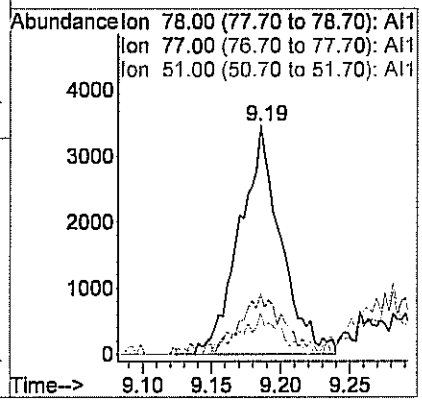


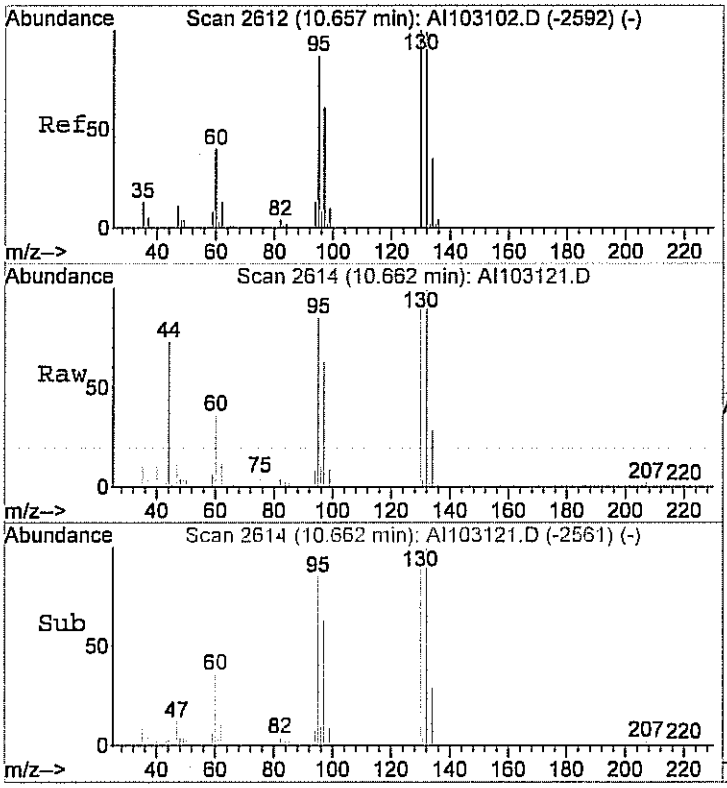


#36
Benzene
Concen: 0.12 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 78 Resp: 7132

Ion	Ratio	Lower	Upper
78	100		
77	27.1	5.2	45.2
51	16.7	0.0	37.6

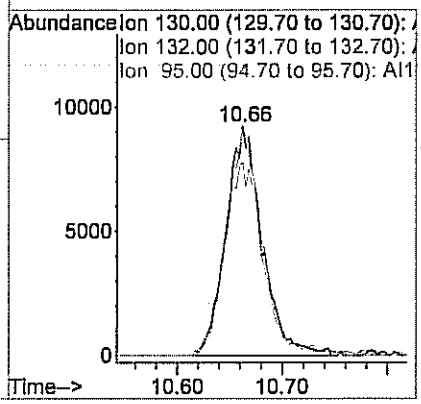


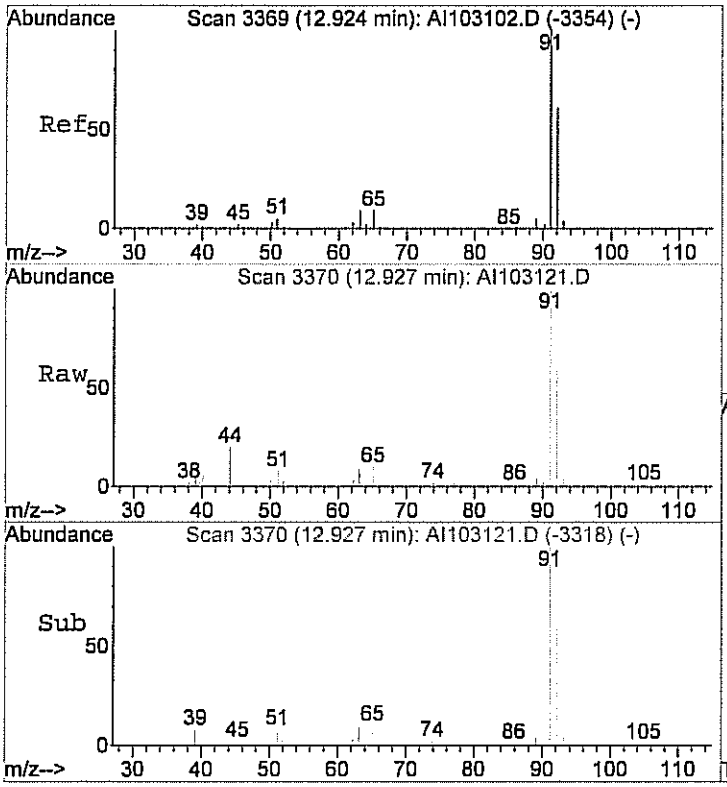


#41
Trichloroethene
Concen: 0.55 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion:130 Resp: 21950

Ion	Ratio	Lower	Upper
130	100		
132	98.8	79.0	119.0
95	91.3	76.8	116.8

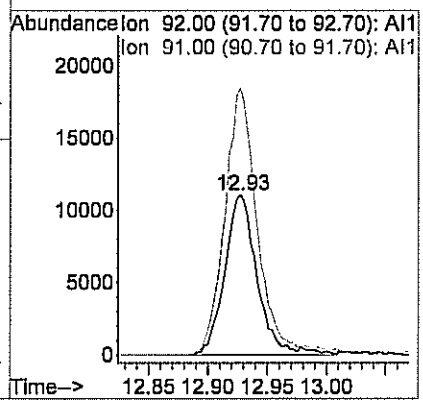


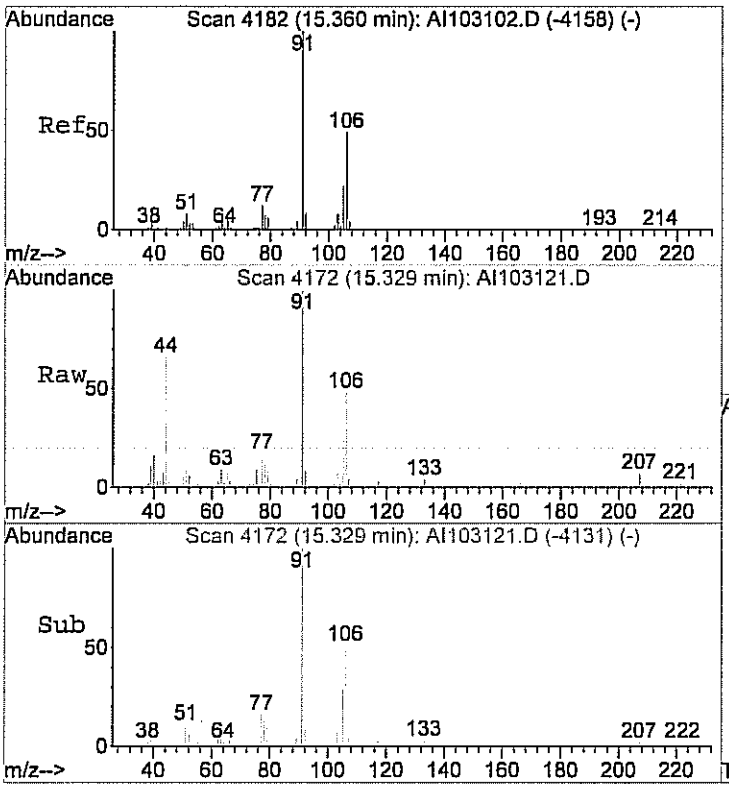


#48
Toluene
Concen: 0.57 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 92 Resp: 20961

Ion	Ratio	Lower	Upper
92	100		
91	170.3	159.8	199.8

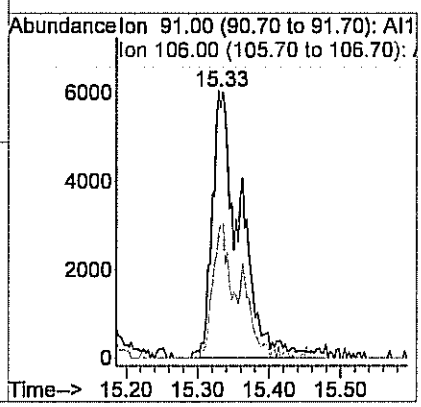


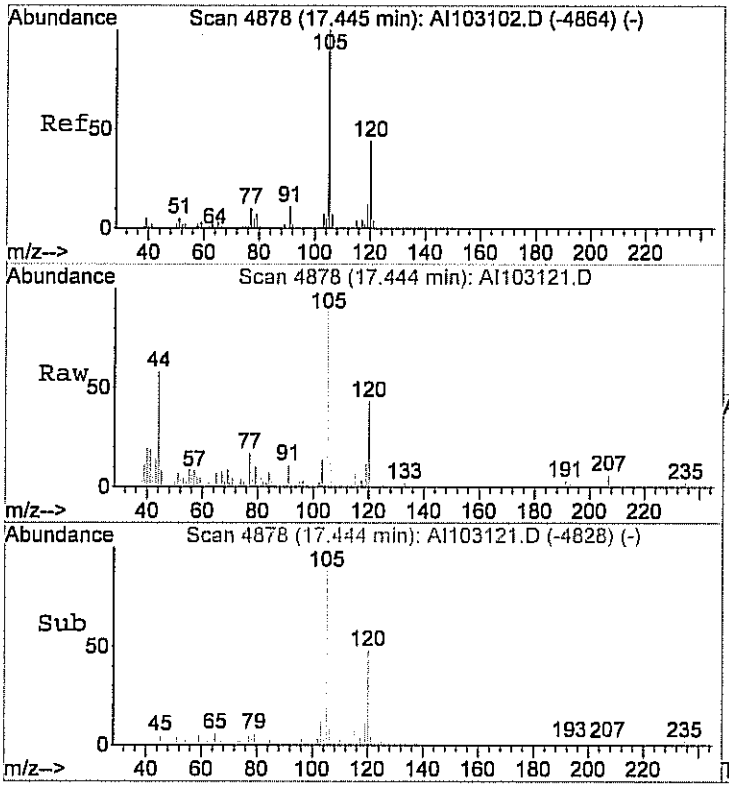


#56
m&p-xylene
Concen: 0.27 ppb
RT: 15.33 min Scan# 4172
Delta R.T. -0.03 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion: 91 Resp: 16587

Ion	Ratio	Lower	Upper
91	100		
106	45.3	27.5	67.5

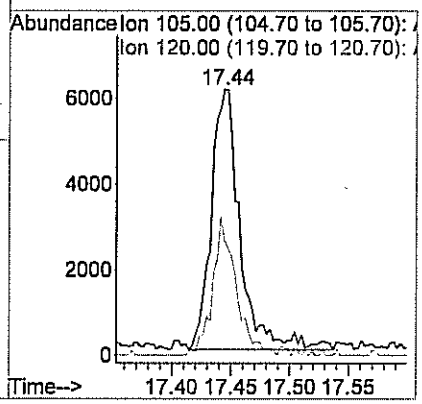




#65
1,2,4-trimethylbenzene
Concen: 0.19 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103121.D
Acq: 31 Oct 2011 9:29 pm

Tgt Ion:105 Resp: 10335

Ion	Ratio	Lower	Upper
105	100		
120	43.0	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103137.D
Acq On : 1 Nov 2011 6:02 am
Sample : C1110054-003A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 01 06:23:09 2011

Vial: 44
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

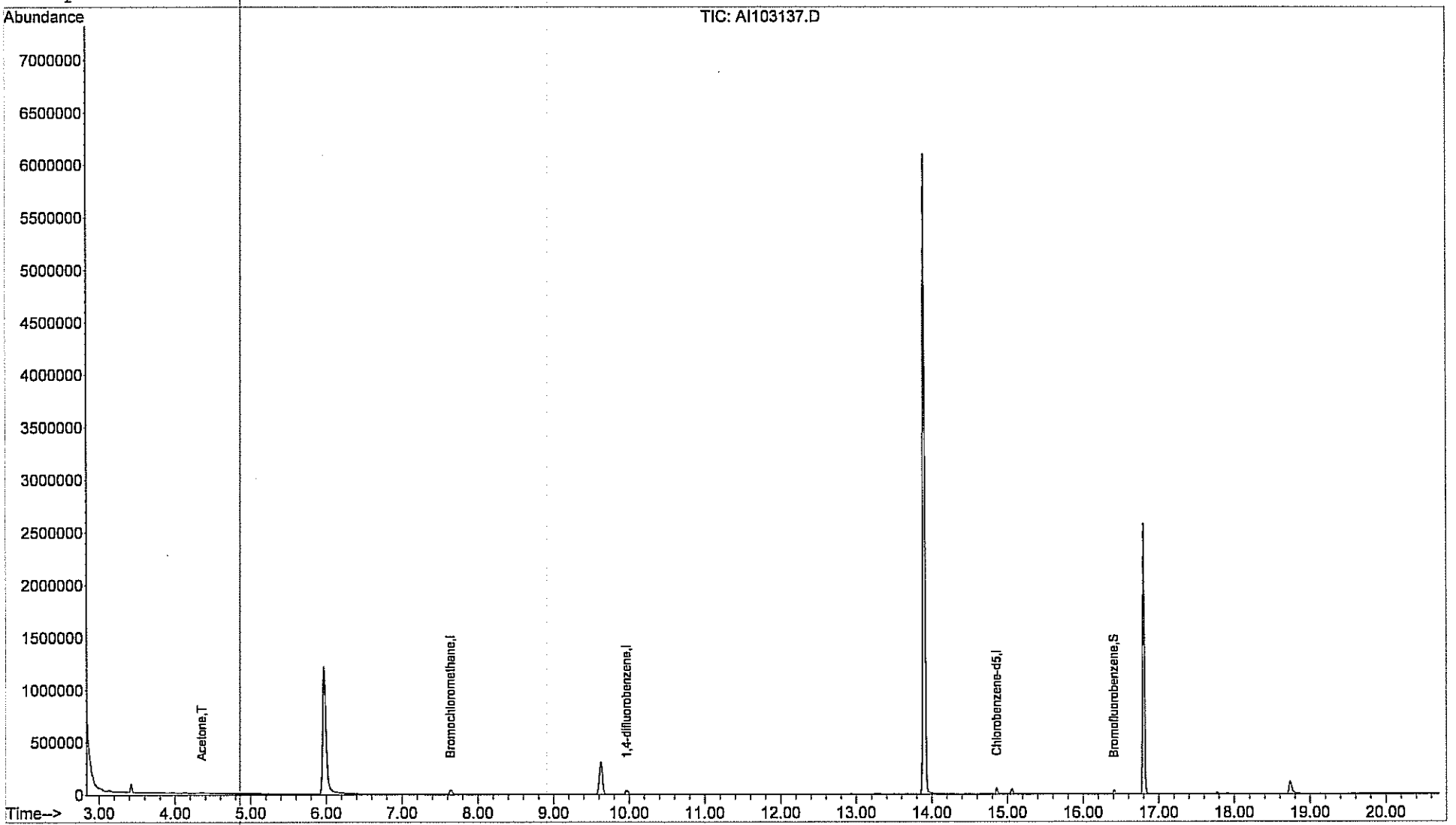
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	18202	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	45323	1.00	ppb	0.00
47) Chlorobenzene-d5	14.86	117	39371	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	13636	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue
14) Acetone	4.36	58	2554	0.48	ppb	# 73

(#) = qualifier out of range (m) = manual integration (+) = signals summed

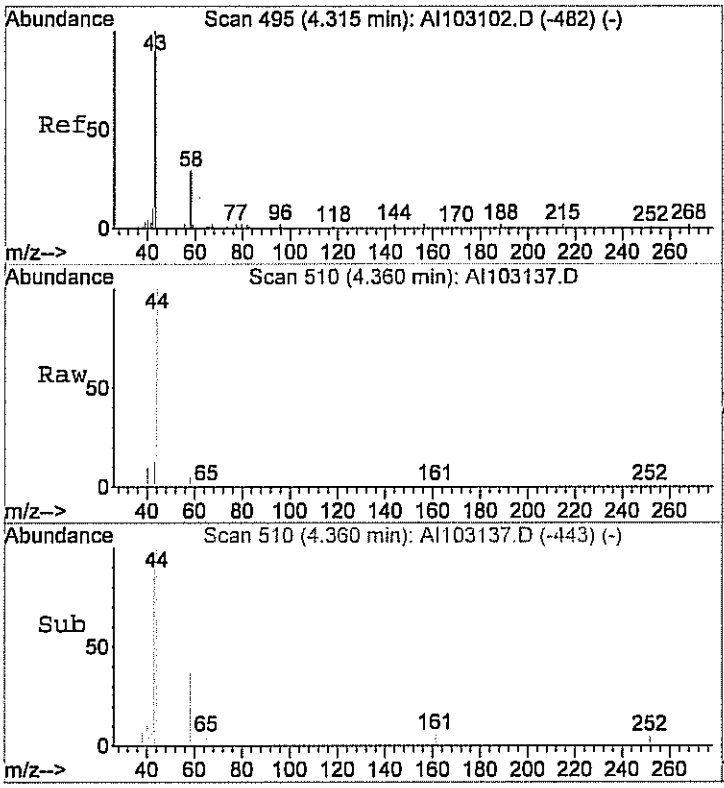
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103137.D Vial: 44
Acq On : 1 Nov 2011 6:02 am Operator: RJP
Sample : C1110054-003A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:02 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



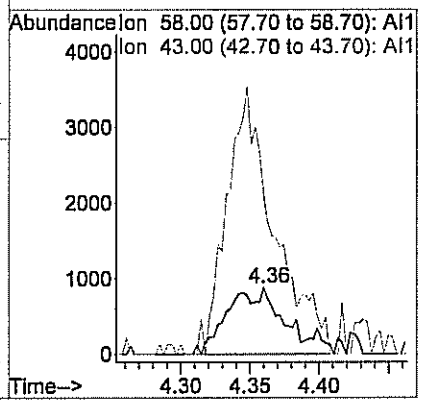
Centek laboratories, LLC



#14
Acetone
Concen: 0.48 ppb
RT: 4.36 min Scan# 510
Delta R.T. 0.05 min
Lab File: AI103137.D
Acq: 1 Nov 2011 6:02 am

Tgt Ion: 58 Resp: 2554

Ion	Ratio	Lower	Upper
58	100		
43	328.0	360.8	420.8#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.10	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Acetone	16	3.0		ppbV	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzene	0.40	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.14	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Cyclohexane	0.87	0.15		ppbV	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 11	0.22	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 12	0.43	0.15		ppbV	1	10/31/2011 10:02:00 PM
Heptane	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexane	0.54	0.15		ppbV	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	8.6	1.5		ppbV	10	11/1/2011 6:33:00 AM
m&p-Xylene	0.91	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	0.65	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
o-Xylene	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Styrene	0.13	0.15	J	ppbV	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 10:02:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.47	0.71	J	ug/m3	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Acetone	39	7.2		ug/m3	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:02:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.44	0.47	J	ug/m3	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Cyclohexane	3.0	0.52		ug/m3	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 10:02:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Heptane	1.0	0.62		ug/m3	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Hexane	1.9	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 6:33:00 AM
m&p-Xylene	4.0	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	1.9	0.90		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:02:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	10/31/2011 10:02:00 PM
o-Xylene	1.1	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:02:00 PM
Styrene	0.56	0.65	J	ug/m3	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:02:00 PM
Toluene	6.1	0.57		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103122.D Vial: 1
Acq On : 31 Oct 2011 10:02 pm Operator: RJP
Sample : C1110054-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 22:23:19 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

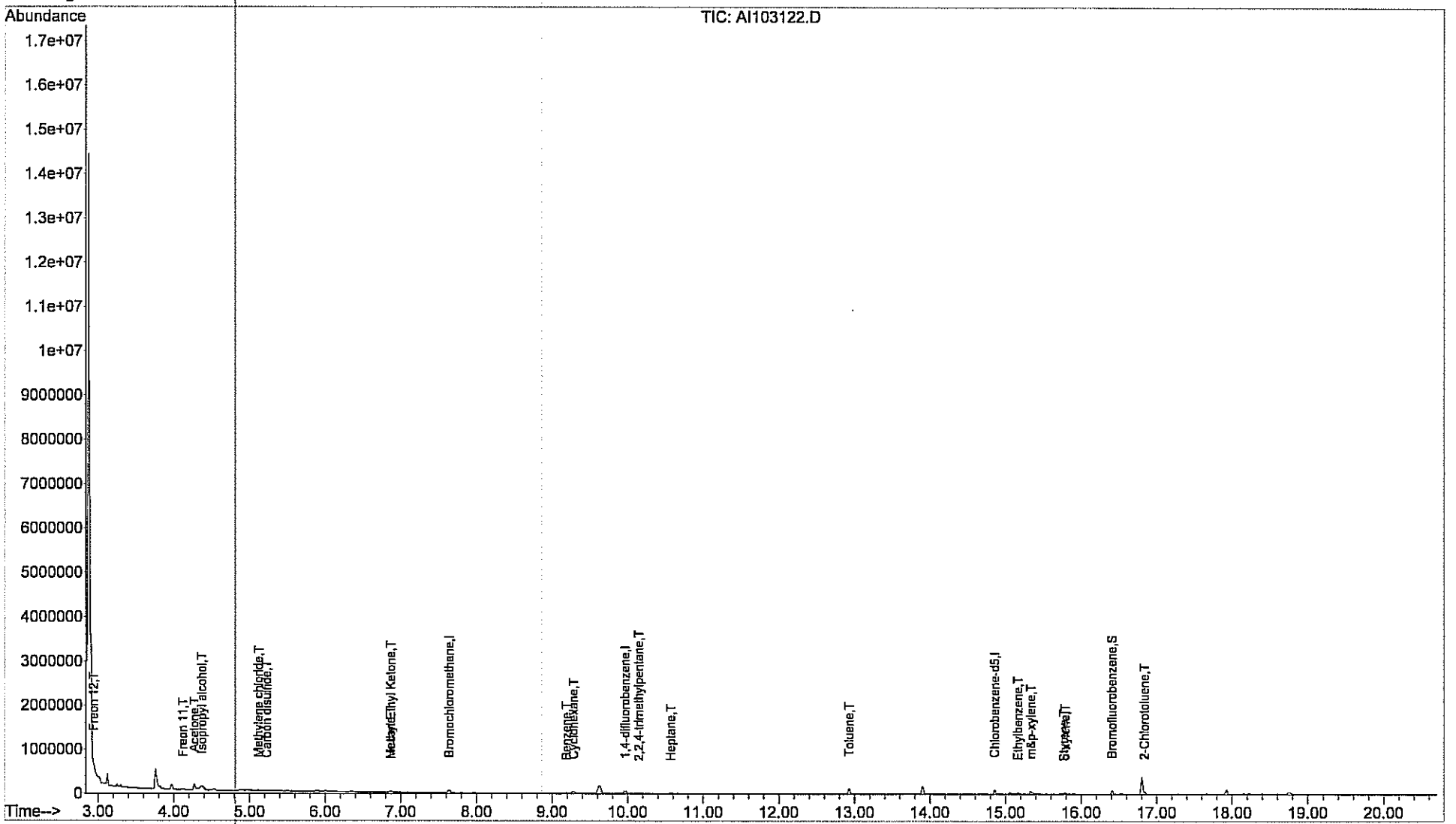
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	23562	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	64721	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	62059	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	29153	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	39210	0.43	ppb		97
13) Freon 11	4.12	101	11629	0.22	ppb		99
14) Acetone	4.27	58	57501	8.38	ppb	#	83
15) Isopropyl alcohol	4.37	45	195638	10.86	ppb	#	100
18) Methylene chloride	5.11	84	3237	0.13	ppb	#	76
20) Carbon disulfide	5.23	76	10468	0.14	ppb		98
25) Methyl Ethyl Ketone	6.88	72	3865	0.65	ppb	#	100
27) Hexane	6.86	57	11013m	0.54	ppb		
34) Cyclohexane	9.28	56	17848m	0.87	ppb		
36) Benzene	9.19	78	24207	0.40	ppb		95
39) 2,2,4-trimethylpentane	10.15	57	6811	0.10	ppb	#	52
40) Heptane	10.58	43	4806	0.24	ppb	#	79
48) Toluene	12.93	92	60626	1.59	ppb		91
55) Ethylbenzene	15.16	91	27295	0.36	ppb		97
56) m&p-xylene	15.33	91	57673	0.91	ppb		97
57) Styrene	15.76	104	5173	0.13	ppb		85
59) o-xylene	15.79	91	19563	0.24	ppb		98
62) 2-Chlorotoluene	16.84	91	30750	0.51	ppb		89

(#) = qualifier out of range (m) = manual integration (+) = signals summed

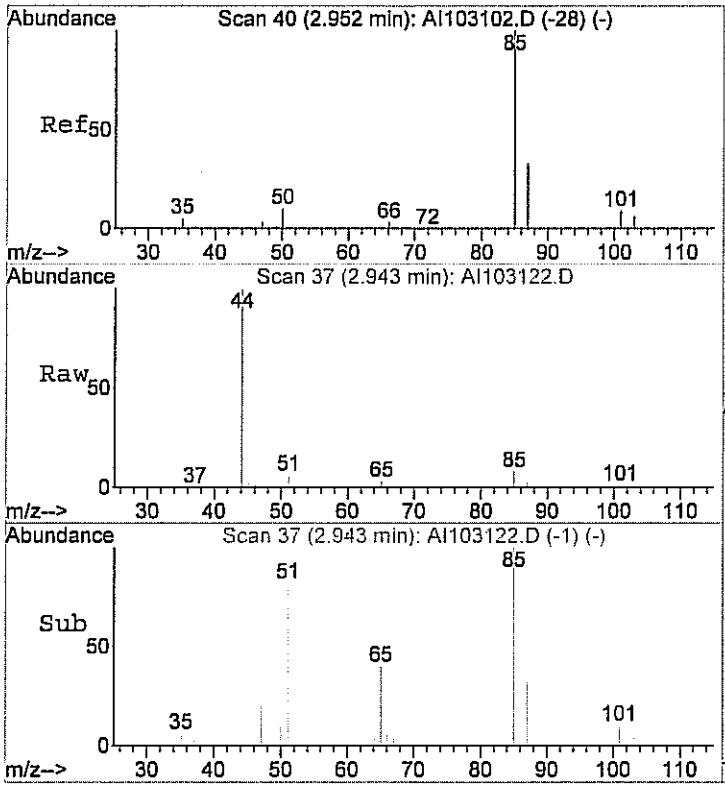
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103122.D Vial: 1
Acq On : 31 Oct 2011 10:02 pm Operator: RJP
Sample : C1110054-004A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 9:02 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



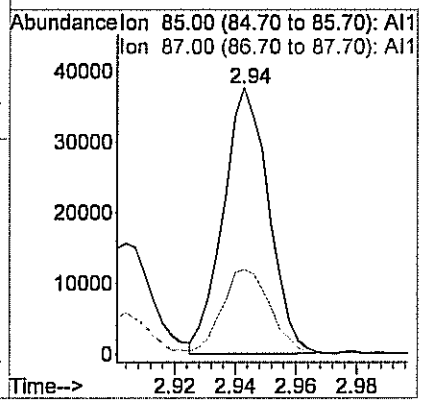
Centek laboratories, LLC

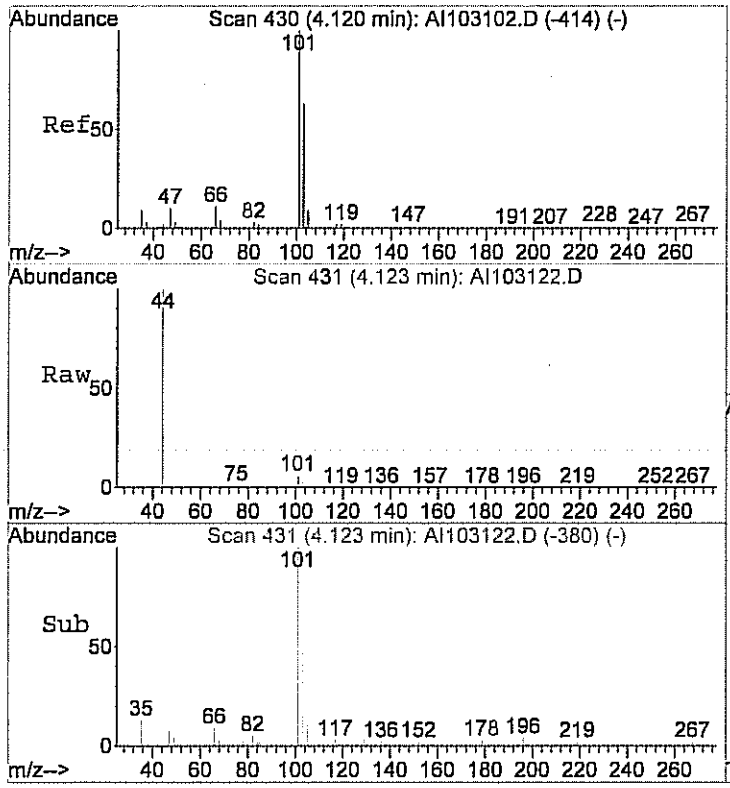


#3
Freon 12
Concen: 0.43 ppb
RT: 2.94 min Scan# 37
Delta R.T. -0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 85 Resp: 39210

Ion	Ratio	Lower	Upper
85	100		
87	34.0	12.2	52.2

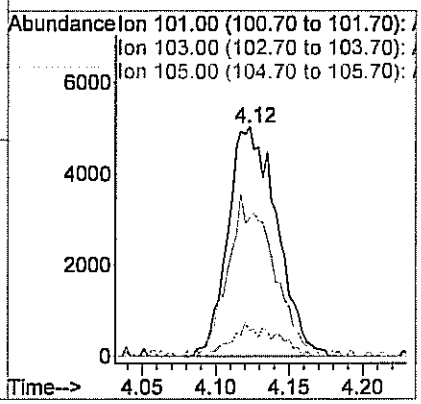


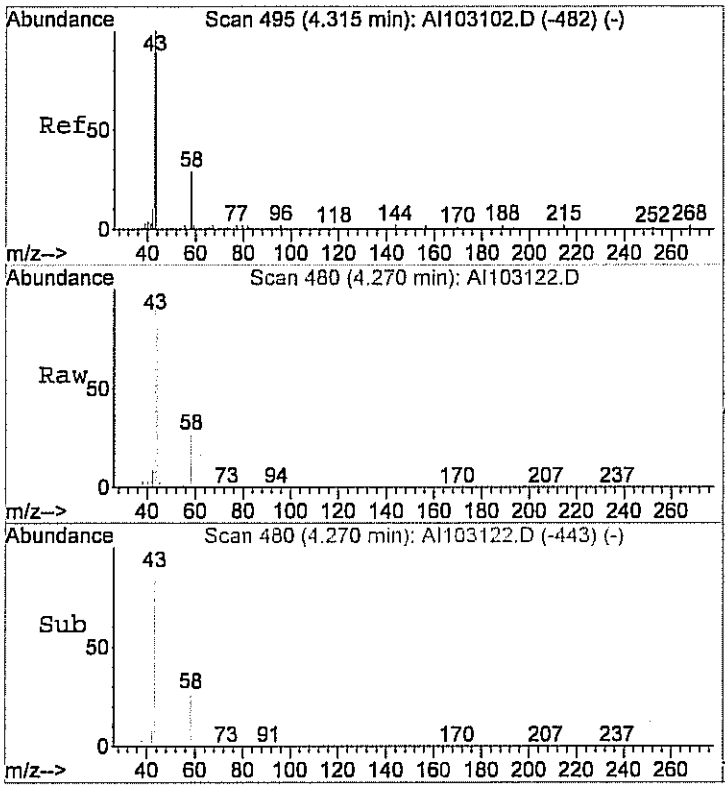


#13
Freon 11
Concen: 0.22 ppb
RT: 4.12 min Scan# 431
Delta R.T. 0.00 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion:101 Resp: 11629

Ion	Ratio	Lower	Upper
101	100		
103	65.0	44.9	84.9
105	12.8	0.0	30.9

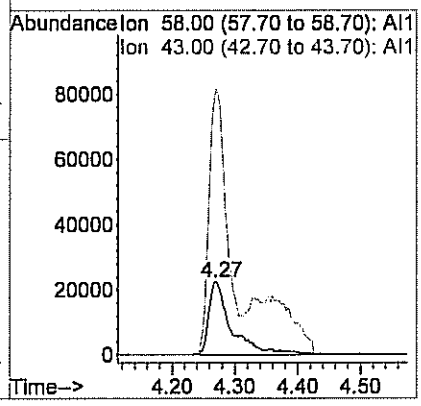


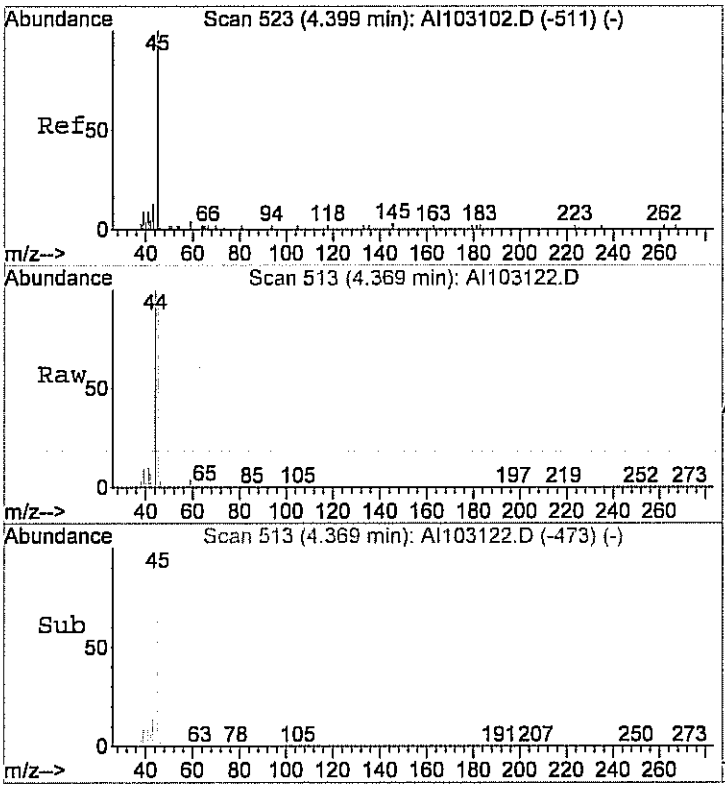


#14
Acetone
Concen: 8.38 ppb
RT: 4.27 min Scan# 480
Delta R.T. -0.04 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 58 Resp: 57501

Ion	Ratio	Lower	Upper
58	100		
43	430.1	360.8	420.8#

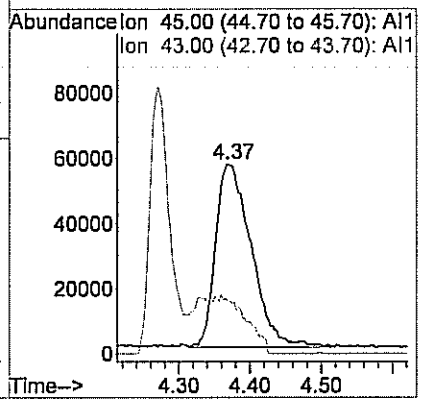


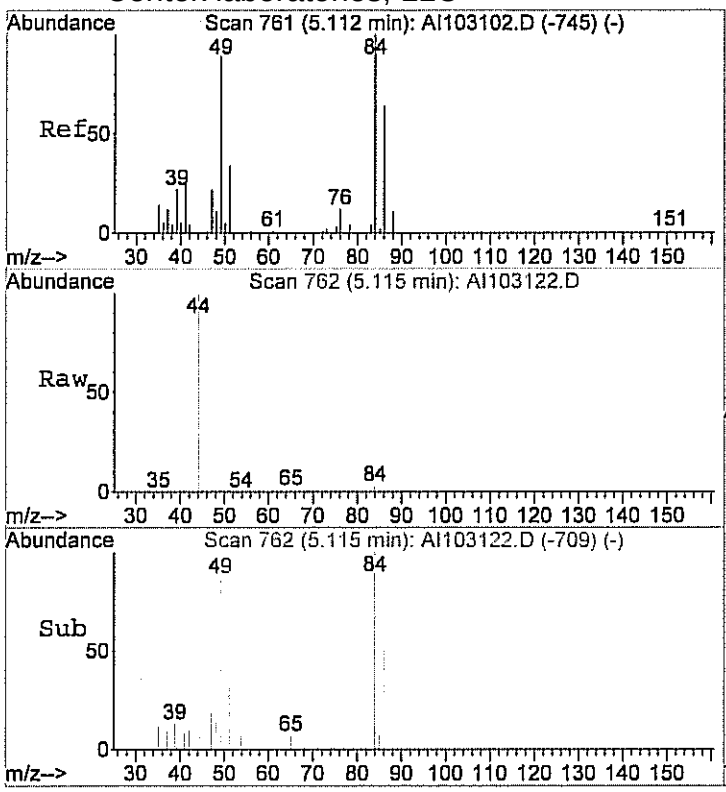


#15
Isopropyl alcohol
Concen: 10.86 ppb
RT: 4.37 min Scan# 513
Delta R.T. -0.03 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 45 Resp: 195638

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

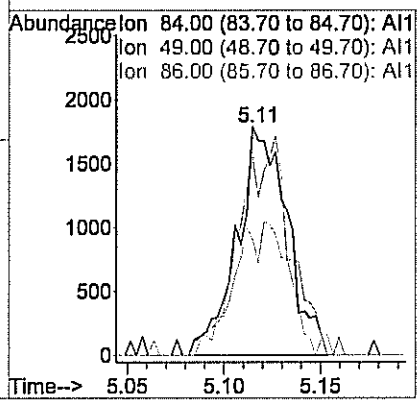


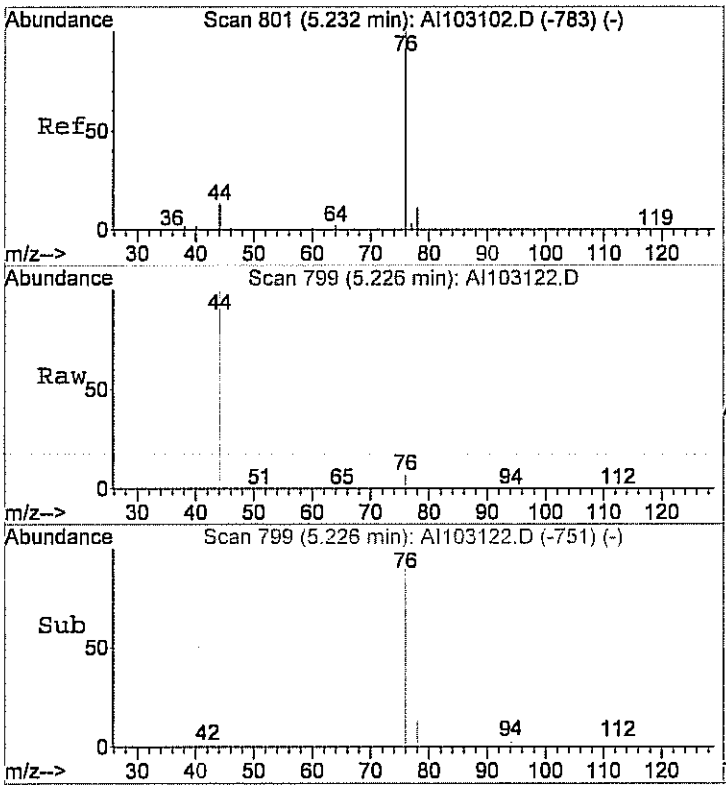


#18
Methylene chloride
Concen: 0.13 ppb
RT: 5.11 min Scan# 762
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 84 Resp: 3237

Ion	Ratio	Lower	Upper
84	100		
49	96.8	116.9	156.9#
86	62.5	46.7	86.7

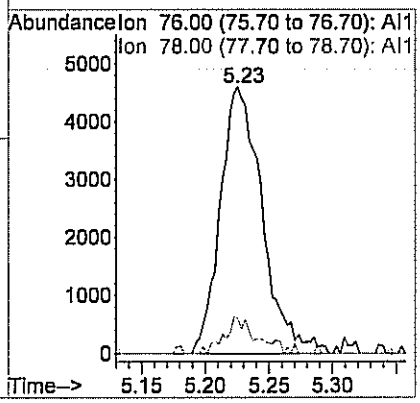


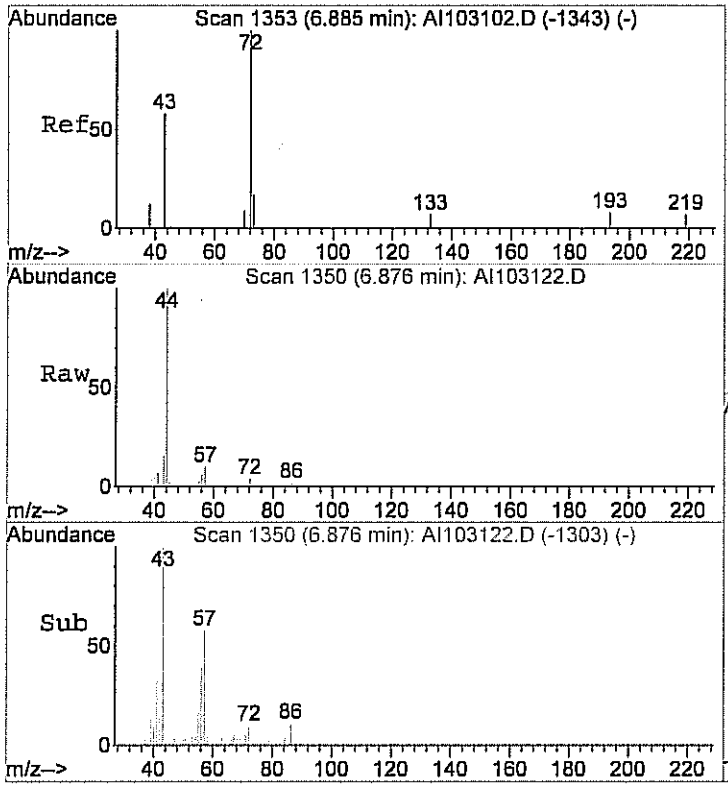


#20
Carbon disulfide
Concen: 0.14 ppb
RT: 5.23 min Scan# 799
Delta R.T. -0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 76 Resp: 10468

Ion	Ratio	Lower	Upper
76	100		
78	10.4	0.0	29.6

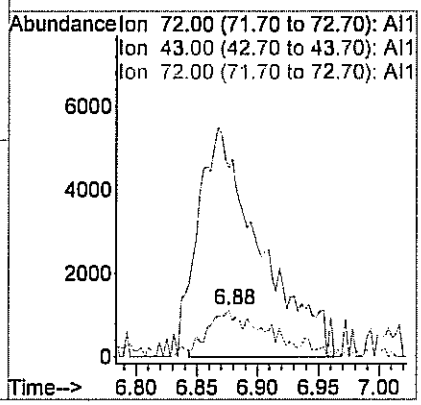


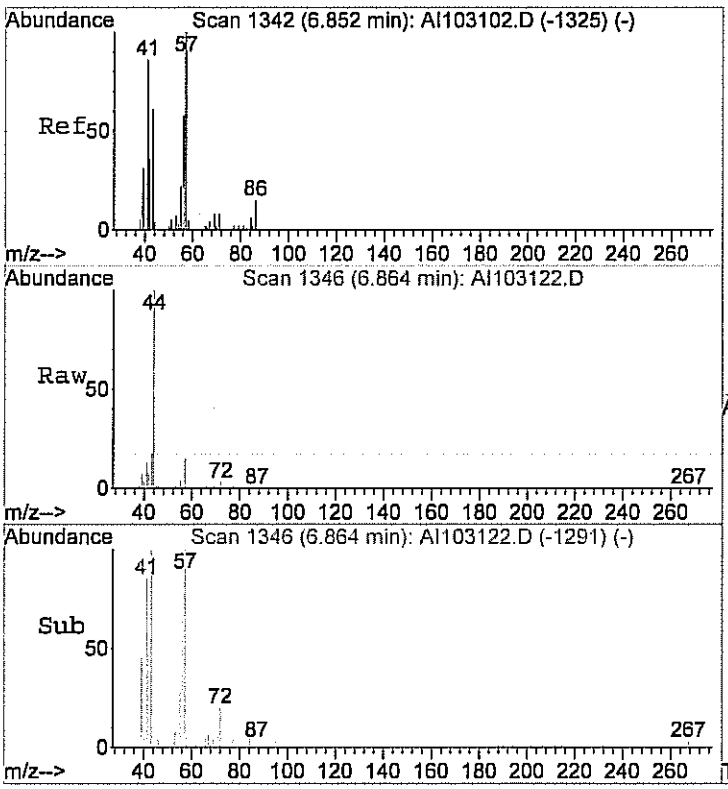


#25
Methyl Ethyl Ketone
Concen: 0.65 ppb
RT: 6.88 min Scan# 1350
Delta R.T. -0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 72 Resp: 3865

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

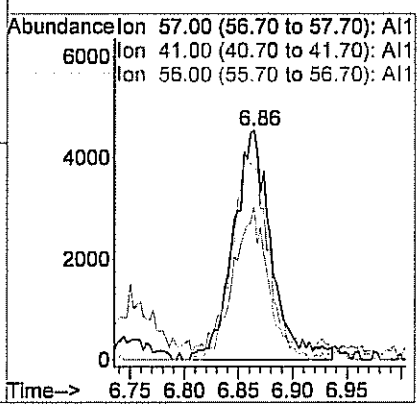


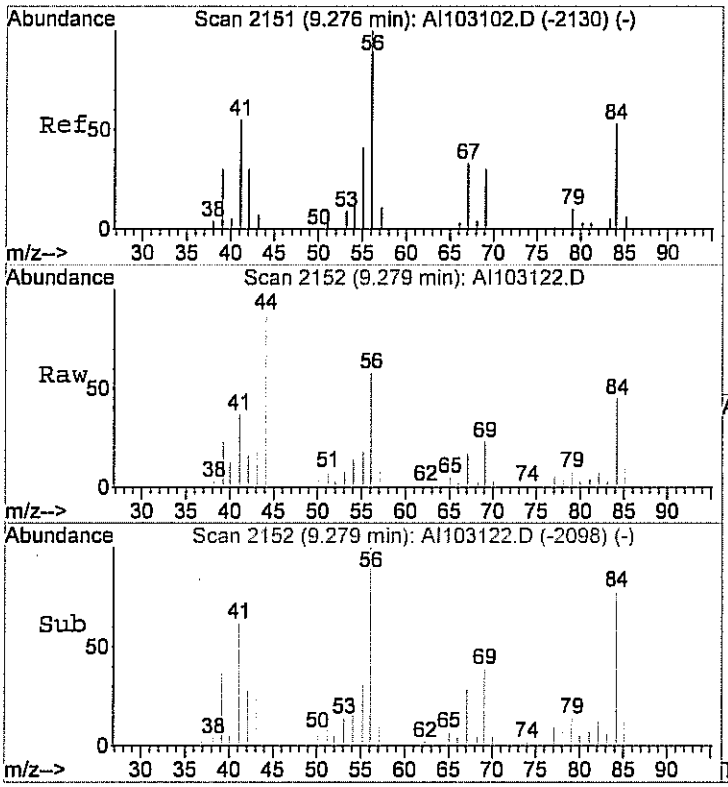


#27
Hexane
Concen: 0.54 ppb m
RT: 6.86 min Scan# 1346
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 57 Resp: 11013

Ion	Ratio	Lower	Upper
57	100		
41	0.0	75.5	115.5#
56	0.0	35.9	75.9#

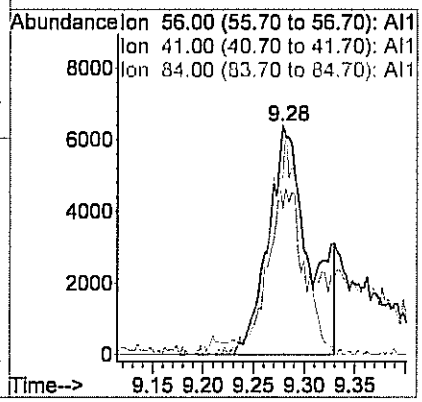


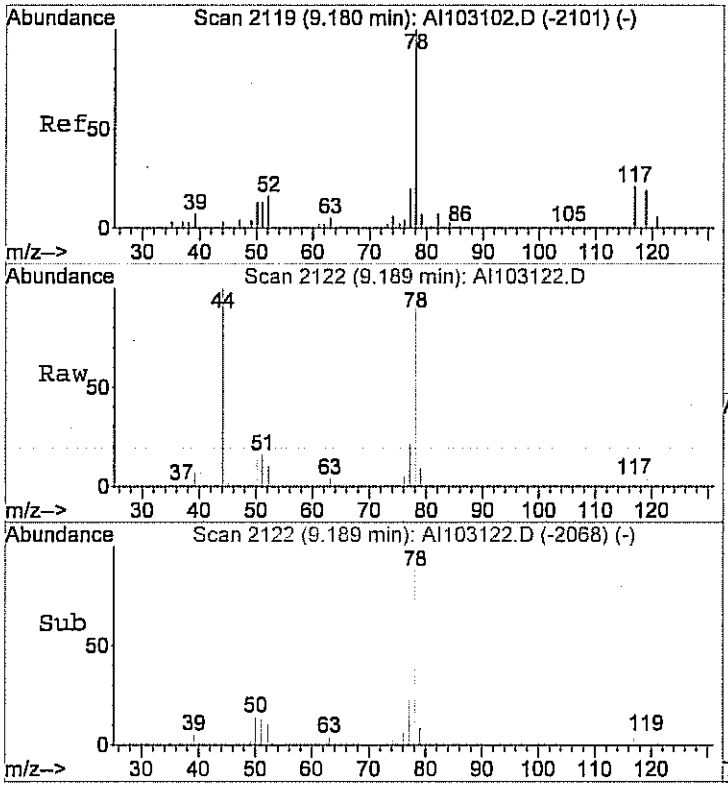


#34
Cyclohexane
Concen: 0.87 ppb m
RT: 9.28 min Scan# 2152
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 56 Resp: 17848

Ion	Ratio	Lower	Upper
56	100		
41	121.0	49.1	89.1#
84	79.3	114.6	154.6#

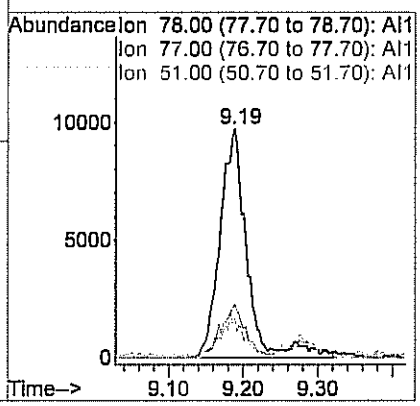


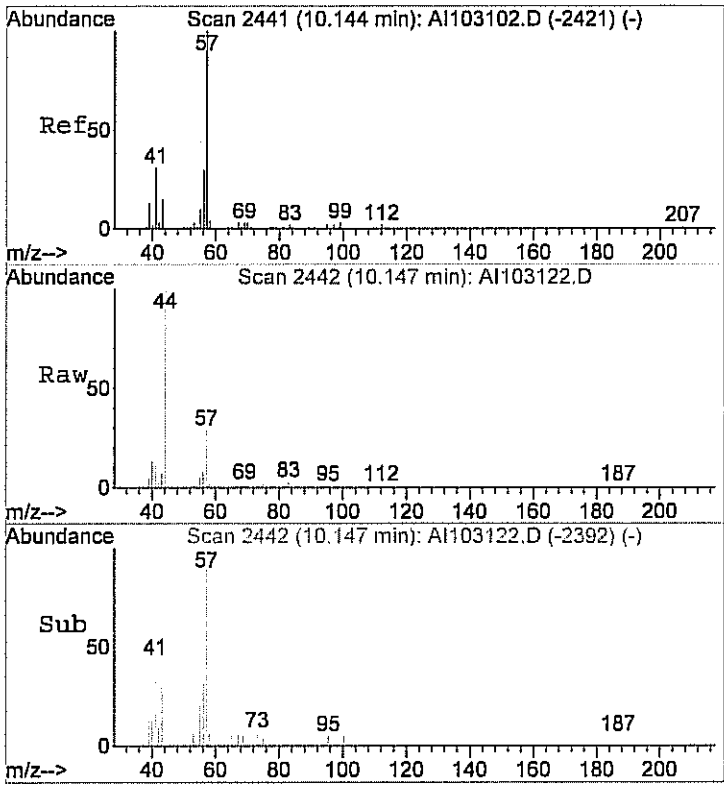


#36
Benzene
Concen: 0.40 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 78 Resp: 24207

Ion	Ratio	Lower	Upper
78	100		
77	21.2	5.2	45.2
51	17.1	0.0	37.6

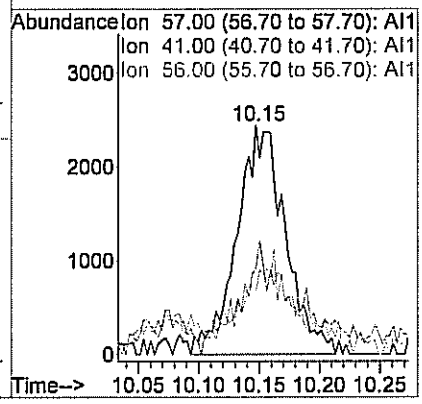


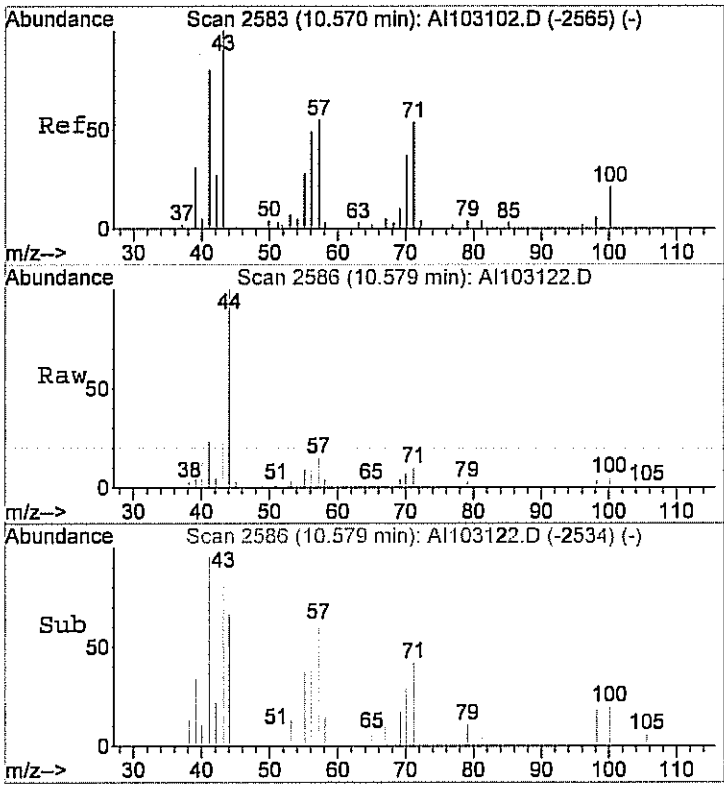


#39
2,2,4-trimethylpentane
Concen: 0.10 ppb
RT: 10.15 min Scan# 2442
Delta R.T. -0.00 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 57 Resp: 6811

Ion	Ratio	Lower	Upper
57	100		
41	68.4	17.9	57.9#
56	59.5	13.7	53.7#

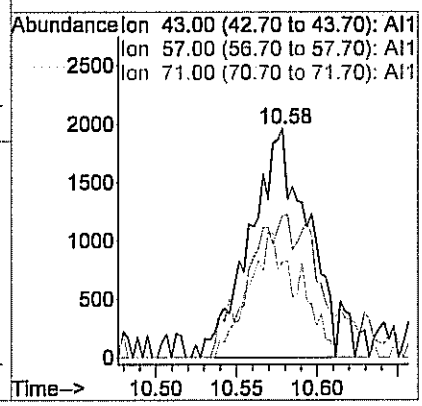


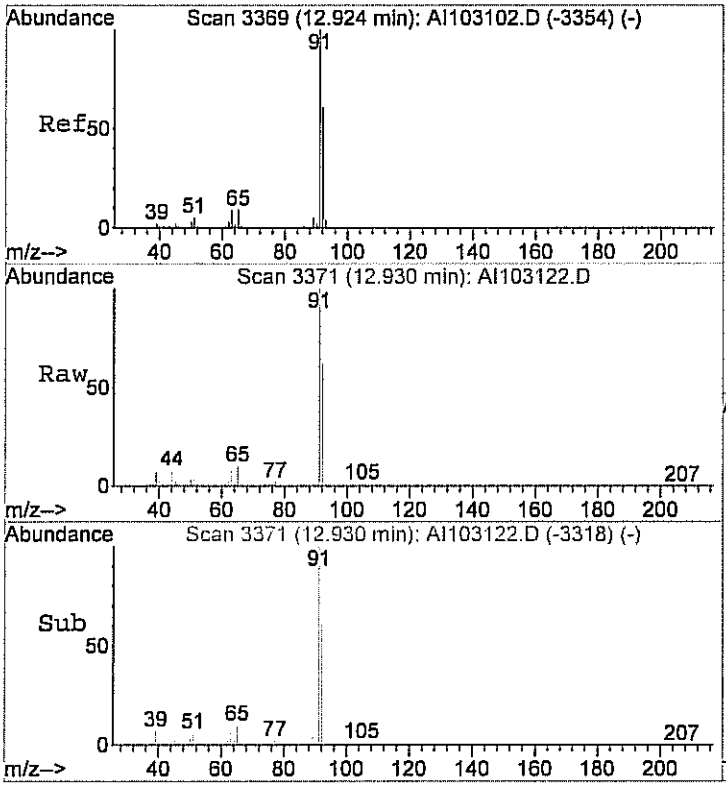


#40
Heptane
Concen: 0.24 ppb
RT: 10.58 min Scan# 2586
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 43 Resp: 4806

Ion	Ratio	Lower	Upper
43	100		
57	75.7	32.1	72.1#
71	48.1	35.5	75.5

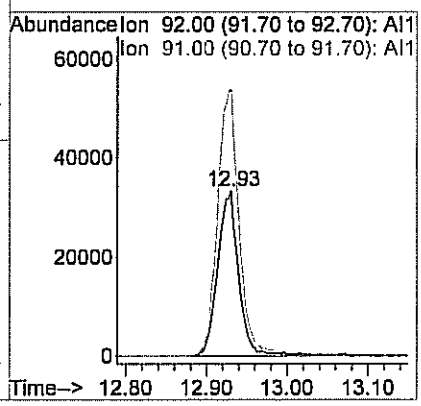


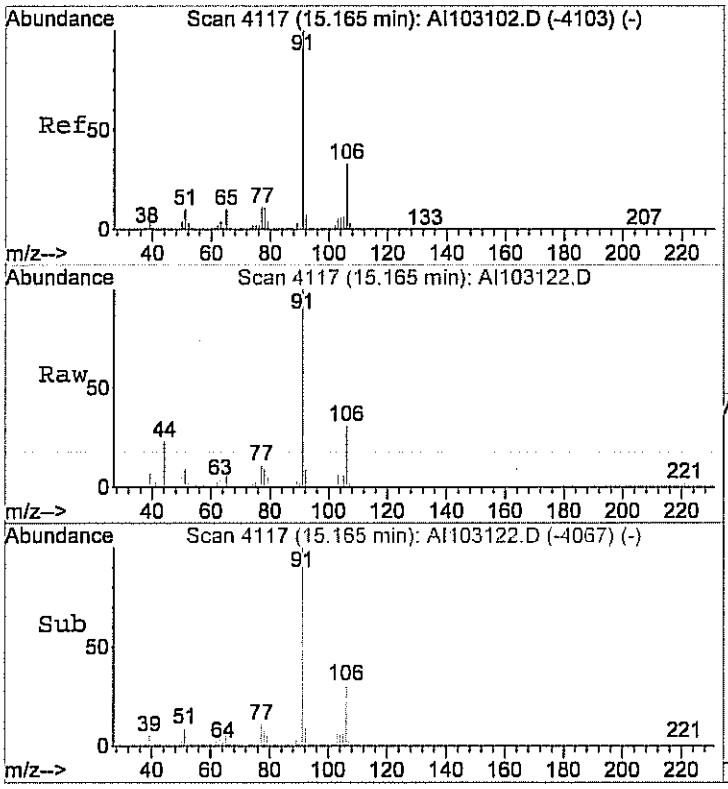


#48
Toluene
Concen: 1.59 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 92 Resp: 60626

Ion	Ratio	Lower	Upper
92	100		
91	167.0	159.8	199.8

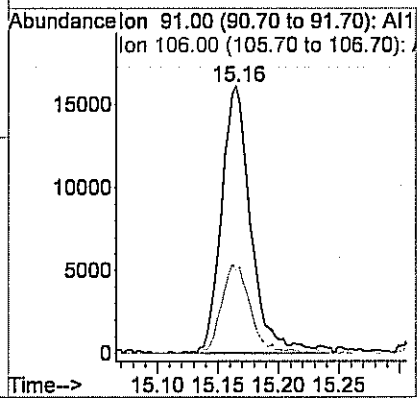


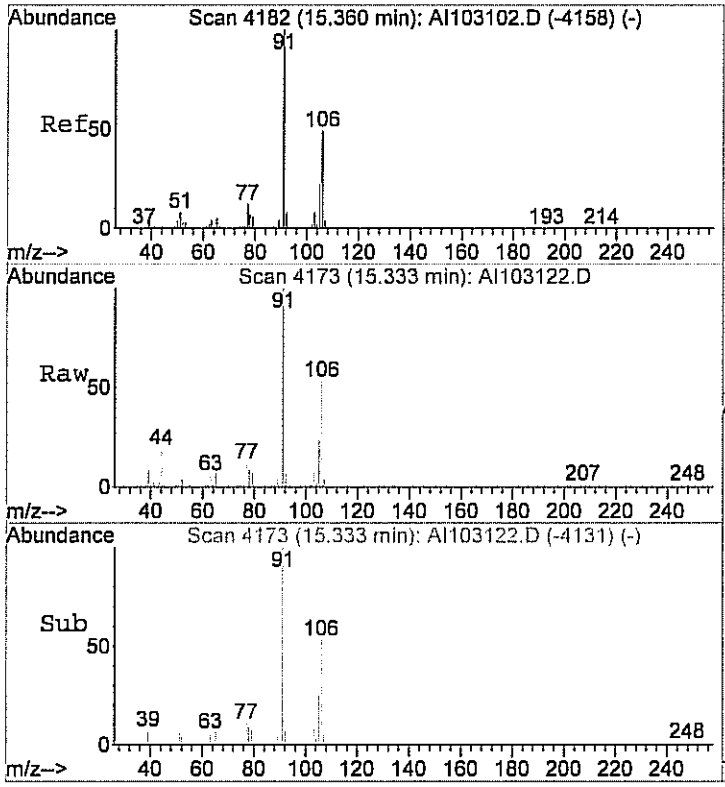


#55
Ethylbenzene
Concen: 0.36 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 91 Resp: 27295

Ion	Ratio	Lower	Upper
91	100		
106	32.1	10.7	50.7

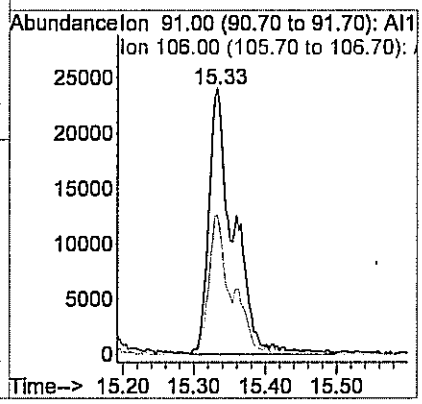


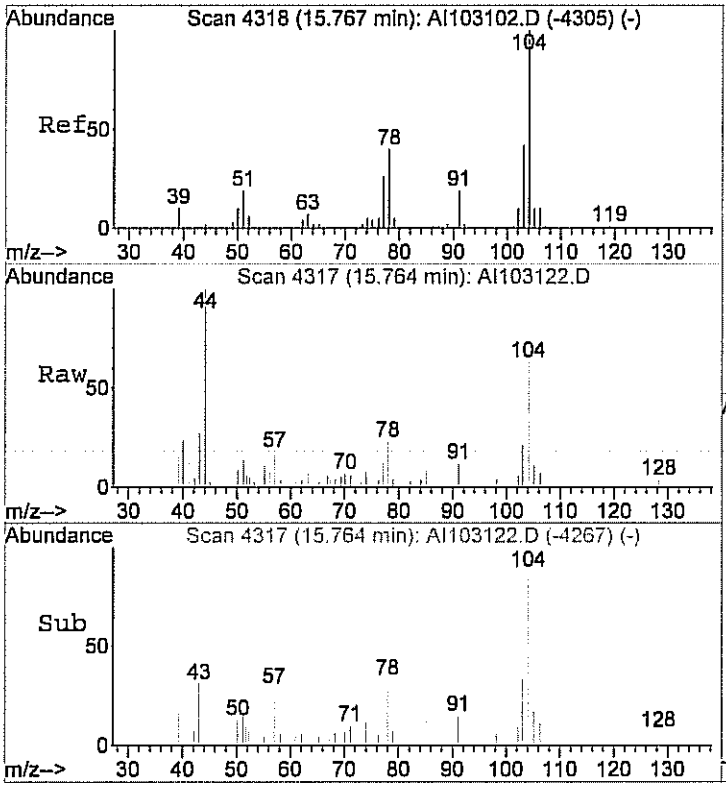


#56
m&p-xylene
Concen: 0.91 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 91 Resp: 57673

Ion	Ratio	Lower	Upper
91	100		
106	49.6	27.5	67.5

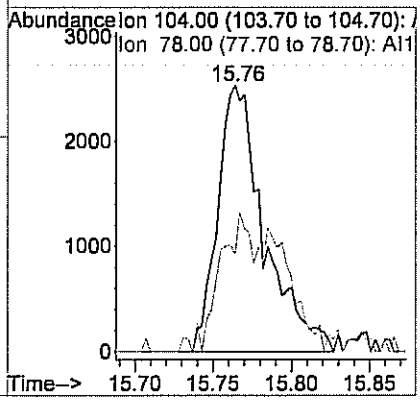


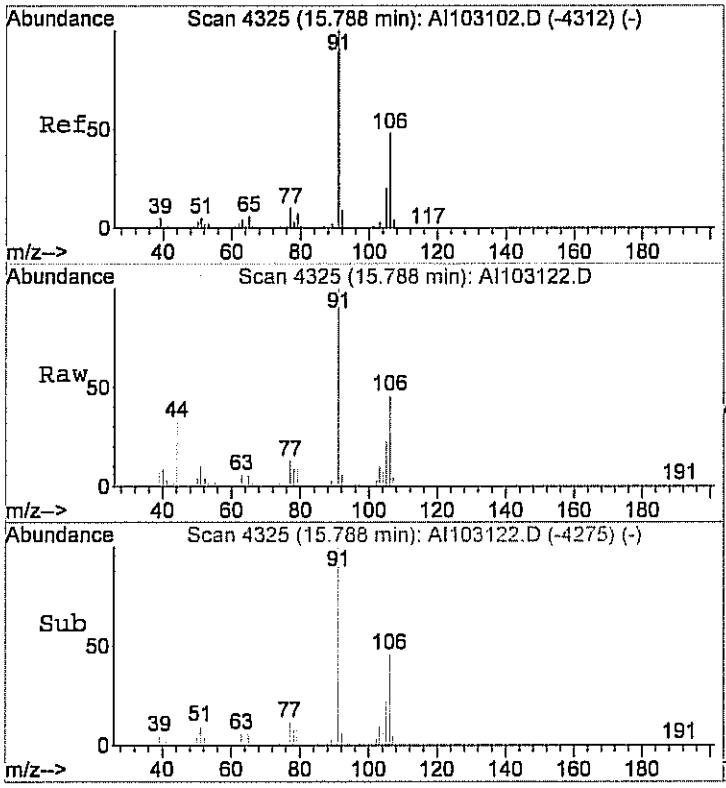


#57
Styrene
Concen: 0.13 ppb
RT: 15.76 min Scan# 4317
Delta R.T. -0.00 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion:104 Resp: 5173

Ion	Ratio	Lower	Upper
104	100		
78	67.6	36.7	76.7

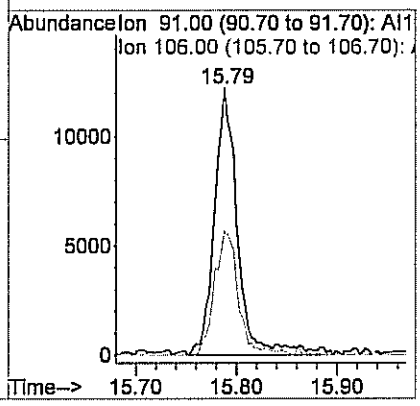


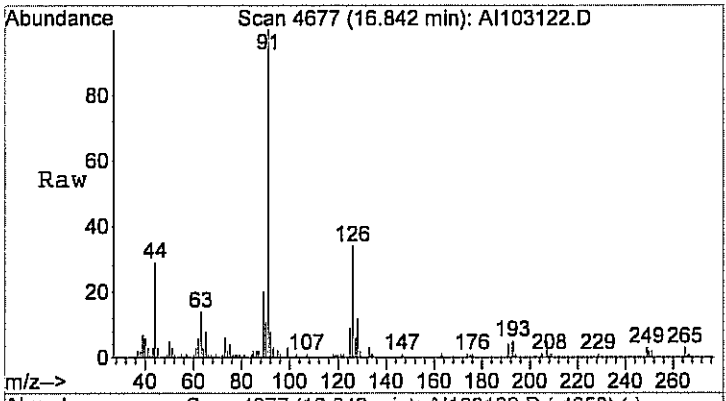


#59
o-xylene
Concen: 0.24 ppb
RT: 15.79 min Scan# 4325
Delta R.T. -0.00 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 91 Resp: 19563

Ion	Ratio	Lower	Upper
91	100		
106	47.8	26.2	66.2

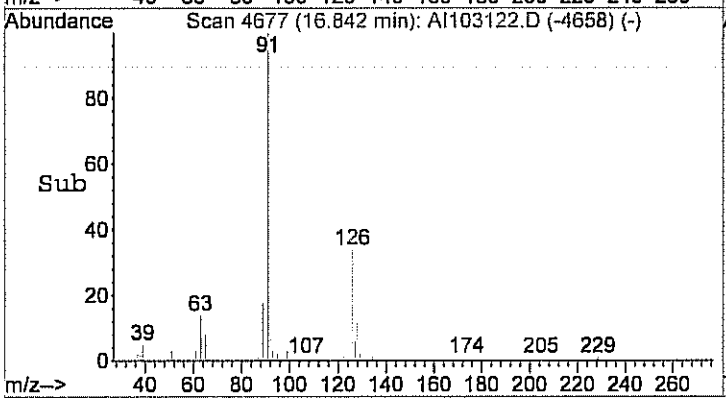


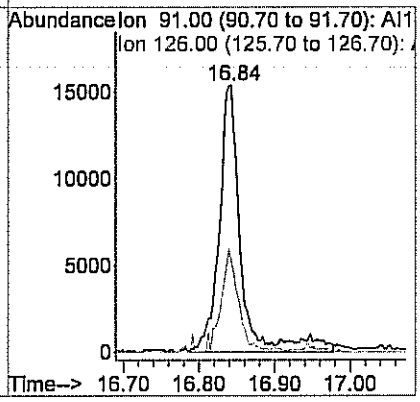


#62
2-Chlorotoluene
Concen: 0.51 ppb
RT: 16.84 min Scan# 4677
Delta R.T. 0.01 min
Lab File: AI103122.D
Acq: 31 Oct 2011 10:02 pm

Tgt Ion: 91 Resp: 30750

Ion	Ratio	Lower	Upper
91	100		
126	30.7	17.1	57.1





Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103138.D Vial: 45
Acq On : 1 Nov 2011 6:33 am Operator: RJP
Sample : C1110054-004A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 06:54:27 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	18619	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	40937	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	37548	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	14782	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue
14) Acetone	4.32	58	8830m	1.63	ppb	
15) Isopropyl alcohol	4.41	45	12172	0.86	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

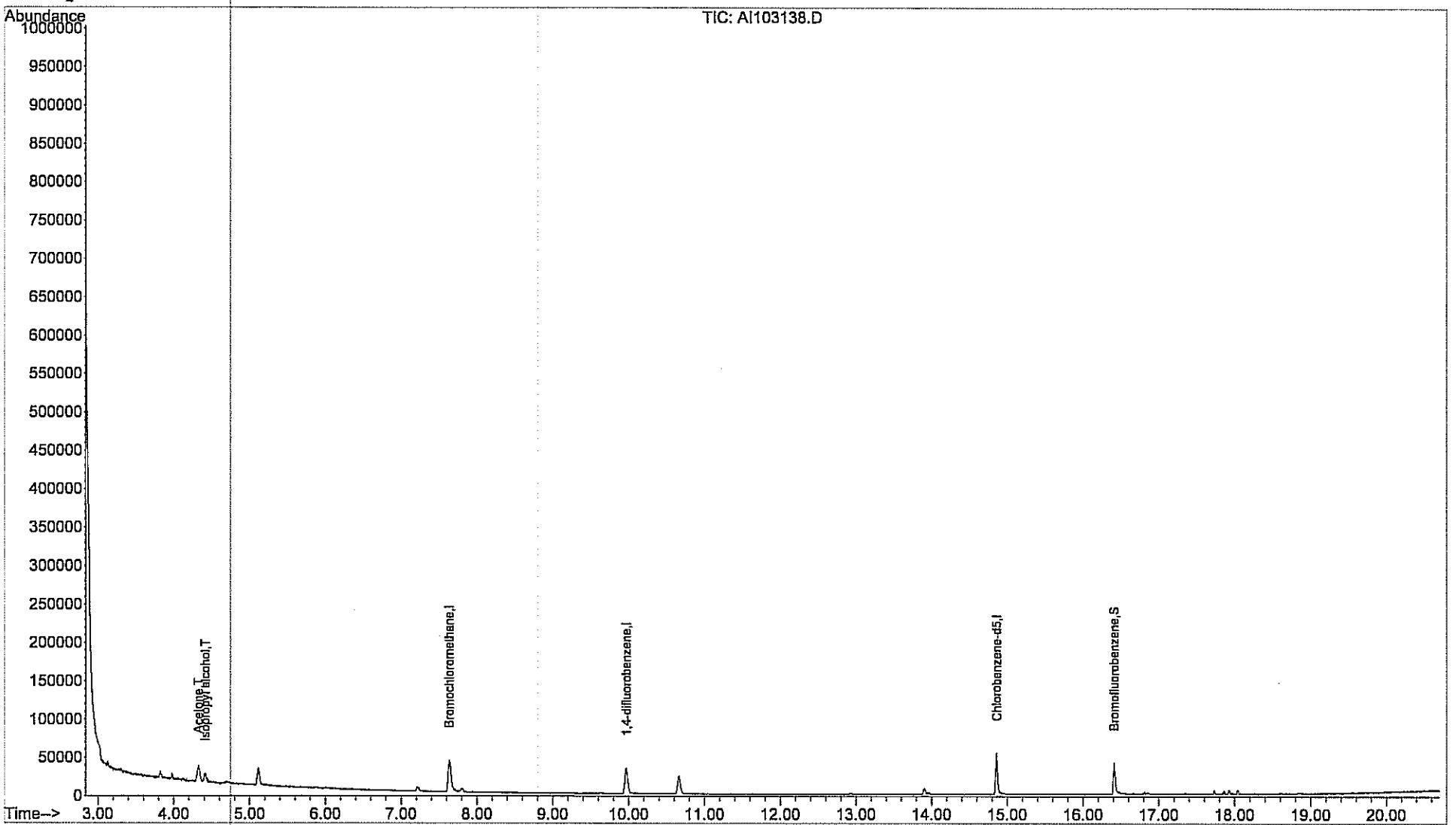
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103138.D
Acq On : 1 Nov 2011 6:33 am
Sample : C1110054-004A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:03 2011

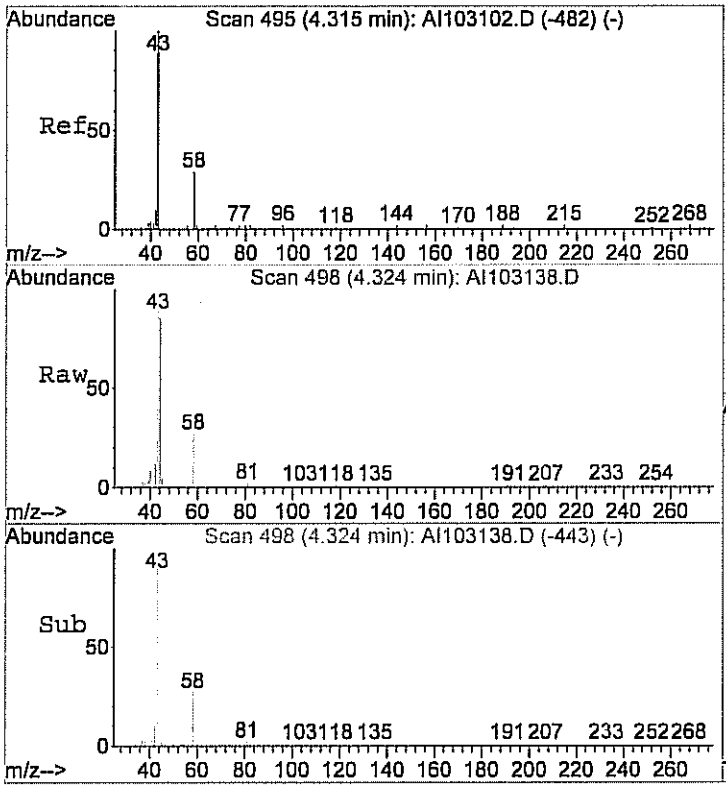
Vial: 45
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



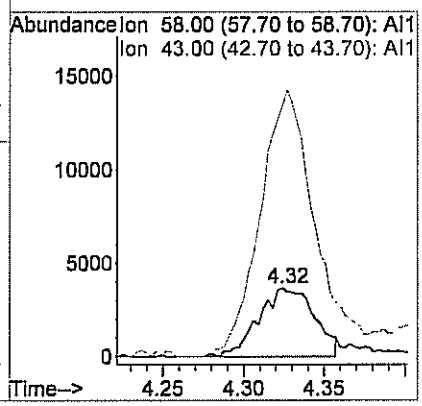
Centek laboratories, LLC

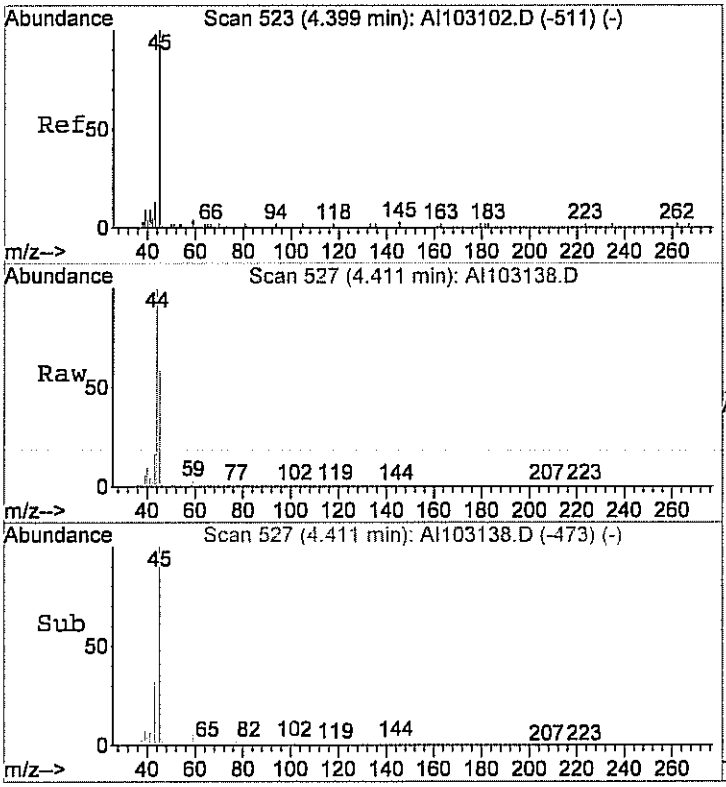


#14
Acetone
Concen: 1.63 ppb m
RT: 4.32 min Scan# 498
Delta R.T. 0.02 min
Lab File: AI103138.D
Acq: 1 Nov 2011 6:33 am

Tgt Ion: 58 Resp: 8830

Ion	Ratio	Lower	Upper
58	100		
43	447.1	360.8	420.8#

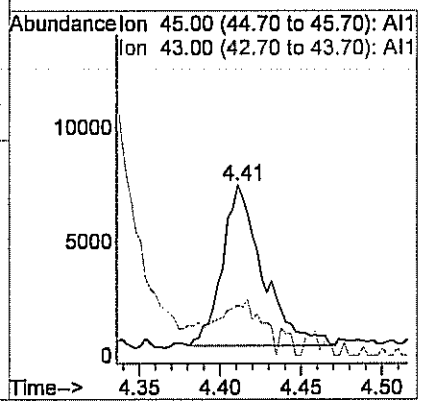




#15
Isopropyl alcohol
Concen: 0.86 ppb
RT: 4.41 min Scan# 527
Delta R.T. 0.01 min
Lab File: AI103138.D
Acq: 1 Nov 2011 6:33 am

Tgt Ion: 45 Resp: 12172

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Acetone	19	3.0		ppbV	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzene	0.45	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Cyclohexane	2.4	0.15		ppbV	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.32	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 11	0.28	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 12	0.52	0.15		ppbV	1	10/31/2011 10:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	11/1/2011 7:04:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 10:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Styrene	0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Toluene	1.8	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Trichloroethene	0.68	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Acetone	45	7.2		ug/m3	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:35:00 PM
Benzene	1.5	0.49		ug/m3	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Cyclohexane	8.5	0.52		ug/m3	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Freon 11	1.6	0.86		ug/m3	1	10/31/2011 10:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	31	3.7		ug/m3	10	11/1/2011 7:04:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	3.9	0.90		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 10:35:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:35:00 PM
Styrene	0.65	0.65		ug/m3	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	7.4	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:35:00 PM
Toluene	6.9	0.57		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103123.D Vial: 2
Acq On : 31 Oct 2011 10:35 pm Operator: RJP
Sample : C1110054-005A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 22:56:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	20922	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	57234	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	56564	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	28245	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
3) Freon 12	2.95	85	41978	0.52	ppb		99
13) Freon 11	4.13	101	13231	0.28	ppb		98
14) Acetone	4.26	58	73590	12.08	ppb	#	76
15) Isopropyl alcohol	4.36	45	361233	22.59	ppb	#	100
20) Carbon disulfide	5.22	76	7681	0.12	ppb		100
25) Methyl Ethyl Ketone	6.85	72	6760	1.29	ppb	#	100
34) Cyclohexane	9.28	56	43880	2.42	ppb	#	52
35) Carbon tetrachloride	9.22	117	5978	0.11	ppb		96
36) Benzene	9.19	78	24448	0.45	ppb		94
41) Trichloroethene	10.67	130	25421	0.68	ppb		98
48) Toluene	12.92	92	62963	1.81	ppb		92
53) Tetrachloroethylene	13.96	164	46721	1.08	ppb		99
55) Ethylbenzene	15.16	91	22490	0.32	ppb		99
56) m&p-xylene	15.33	91	44659	0.77	ppb		97
57) Styrene	15.77	104	5473	0.15	ppb		87
59) o-xylene	15.79	91	16209	0.22	ppb		96
65) 1,2,4-trimethylbenzene	17.44	105	6812	0.13	ppb		92

(#) = qualifier out of range (m) = manual integration (+) = signals summed

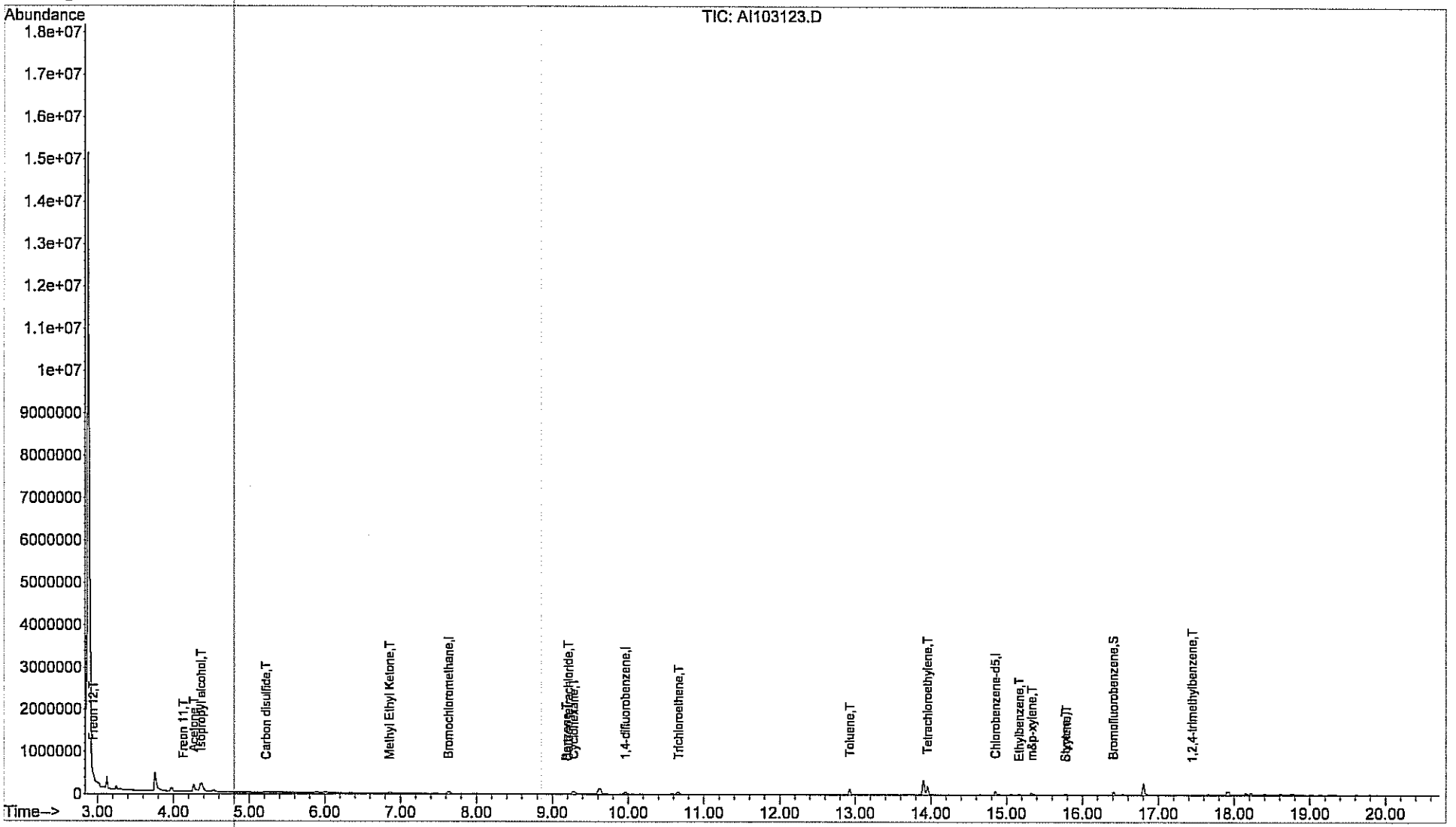
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103123.D
Acq On : 31 Oct 2011 10:35 pm
Sample : C1110054-005A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 9:04 2011

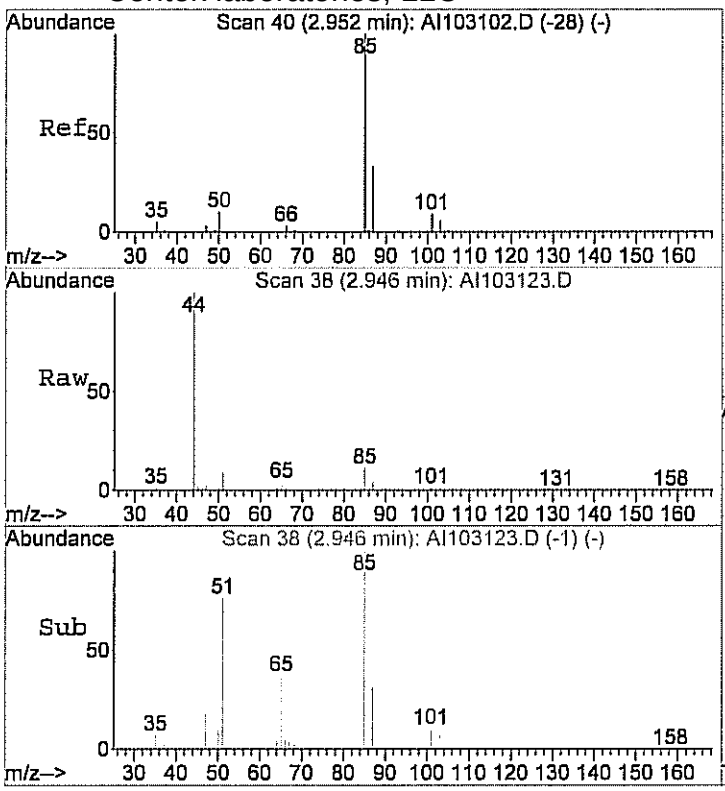
Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



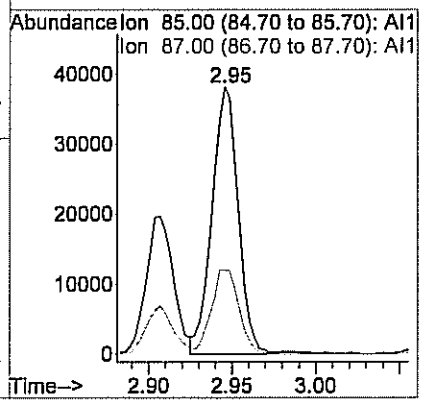
Centek laboratories, LLC

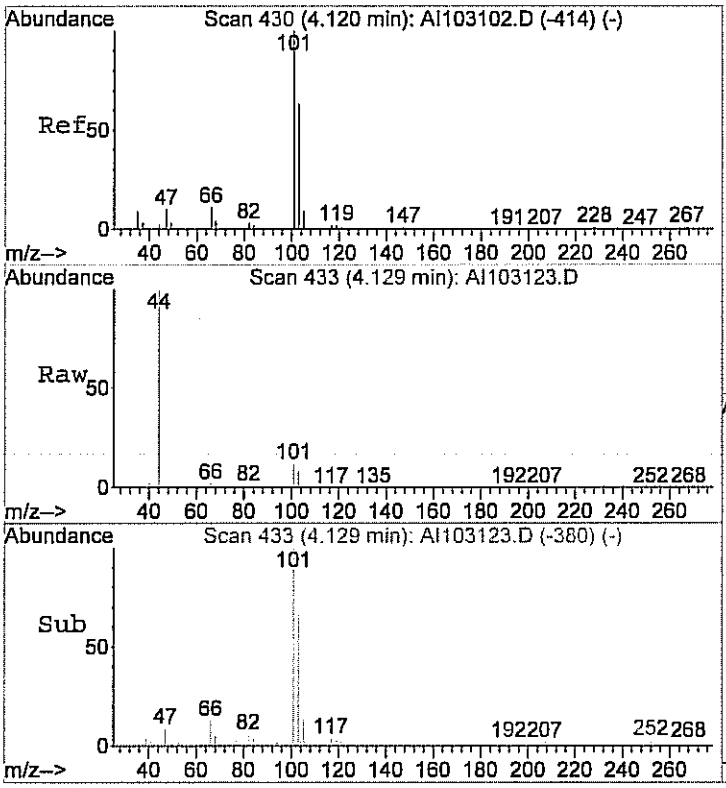


#3
Freon 12
Concen: 0.52 ppb
RT: 2.95 min Scan# 38
Delta R.T. -0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 85 Resp: 41978

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

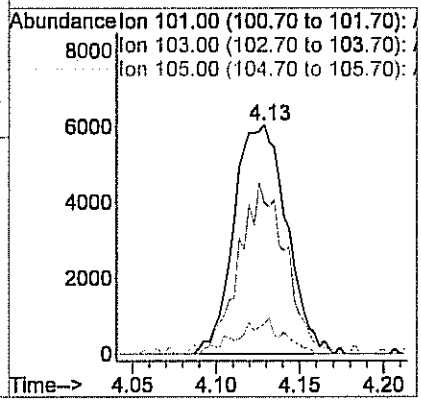


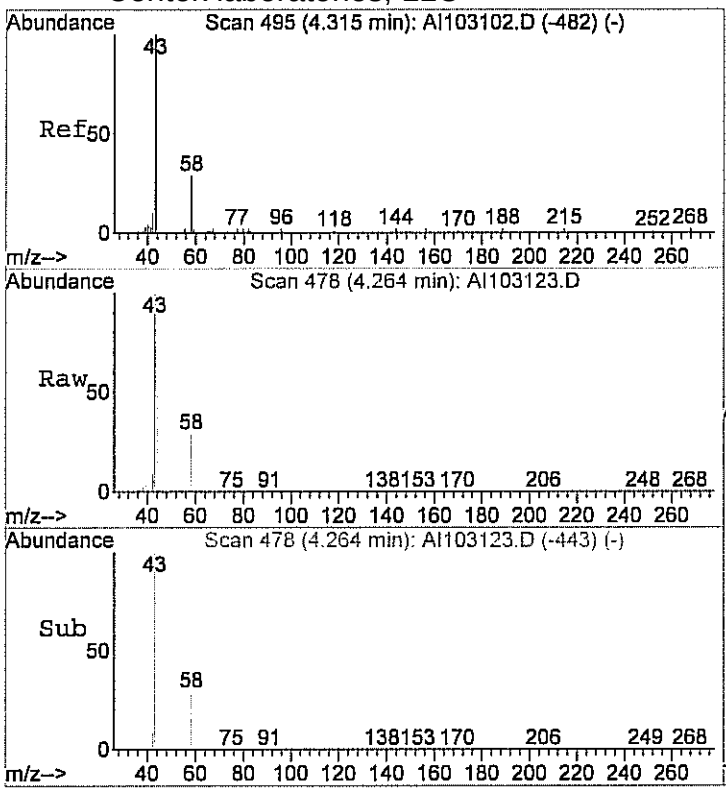


#13
Freon 11
Concen: 0.28 ppb
RT: 4.13 min Scan# 433
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:101 Resp: 13231

Ion	Ratio	Lower	Upper
101	100		
103	65.9	44.9	84.9
105	13.0	0.0	30.9

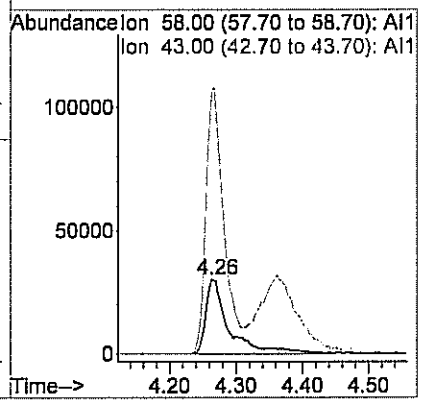


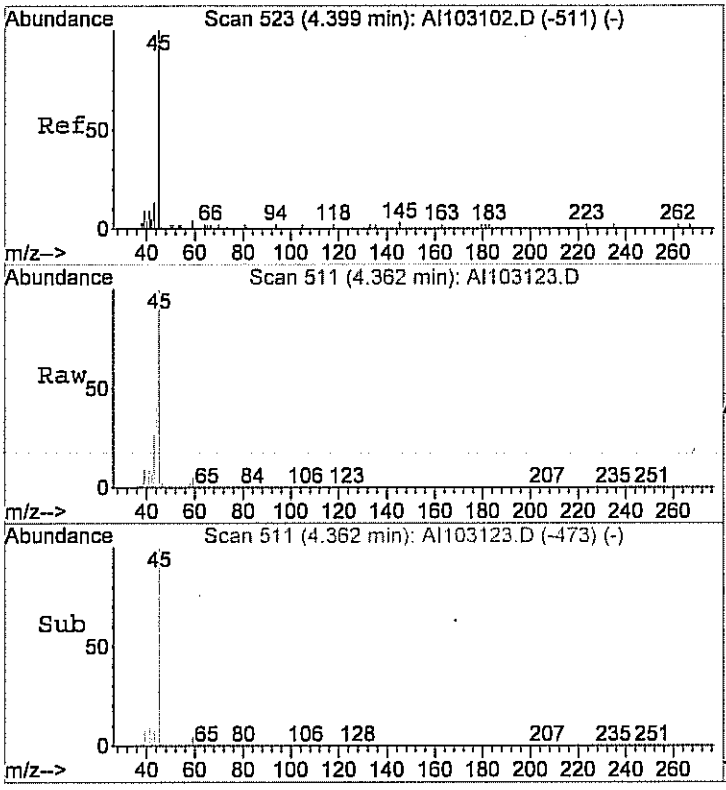


#14
Acetone
Concen: 12.08 ppb
RT: 4.26 min Scan# 478
Delta R.T. -0.05 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 58 Resp: 73590

Ion	Ratio	Lower	Upper
58	100		
43	447.0	360.8	420.8#

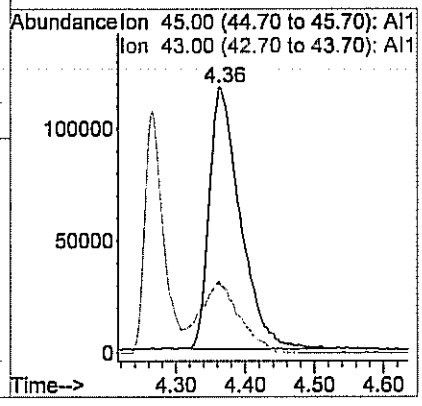


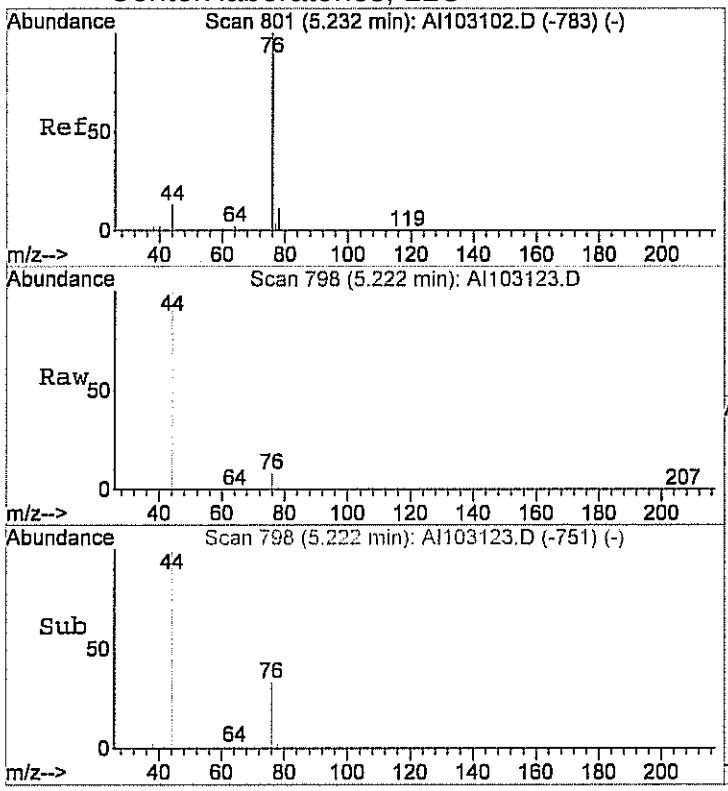


#15
Isopropyl alcohol
Concen: 22.59 ppb
RT: 4.36 min Scan# 511
Delta R.T. -0.04 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 45 Resp: 361233

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

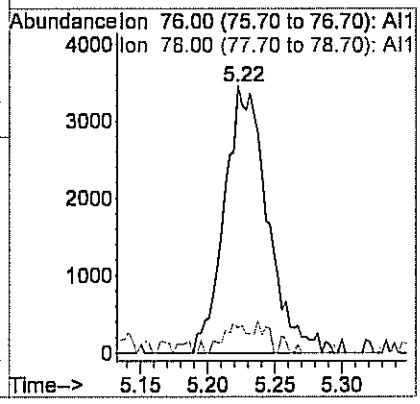


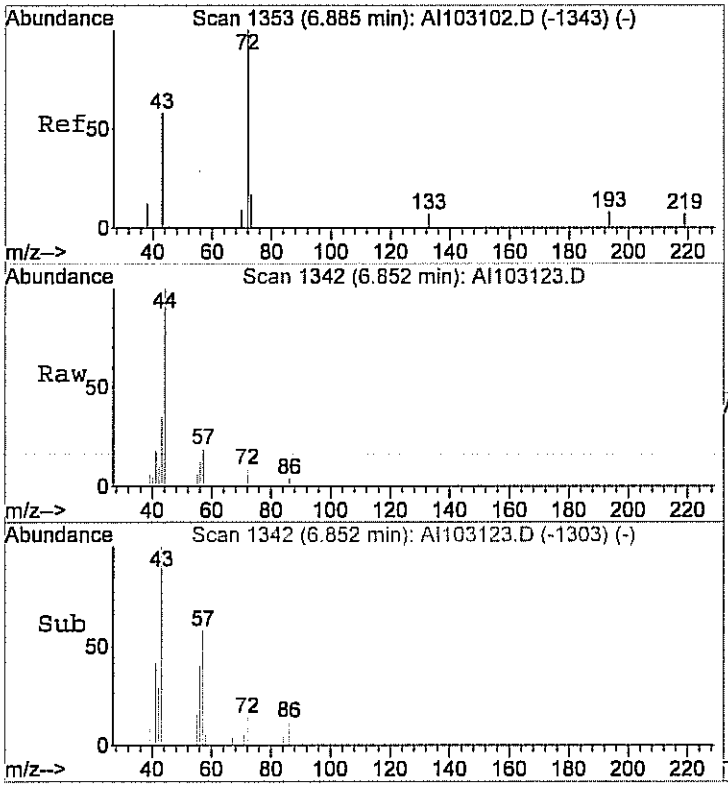


#20
Carbon disulfide
Concen: 0.12 ppb
RT: 5.22 min Scan# 798
Delta R.T. -0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 76 Resp: 7681

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	29.6

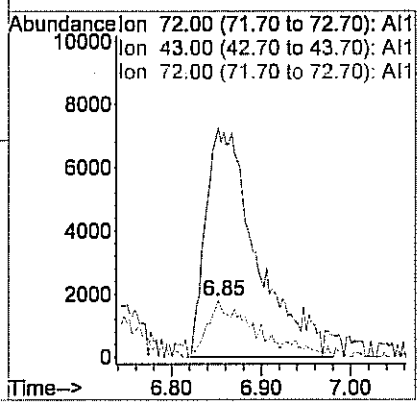


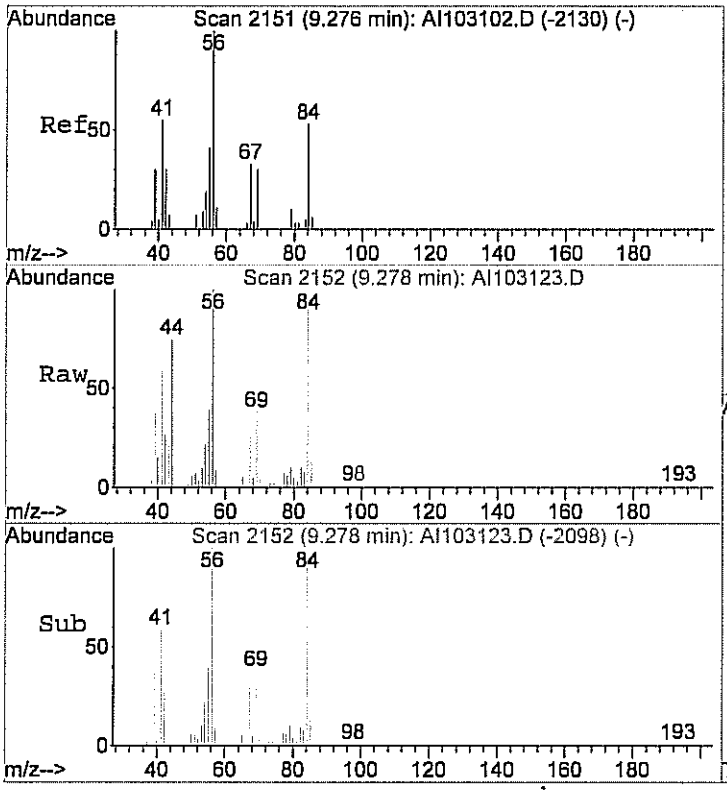


#25
Methyl Ethyl Ketone
Concen: 1.29 ppb
RT: 6.85 min Scan# 1342
Delta R.T. -0.03 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 72 Resp: 6760

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

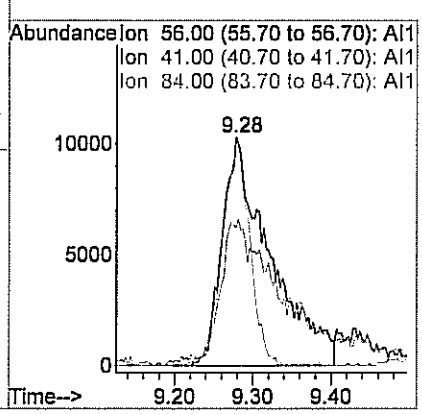


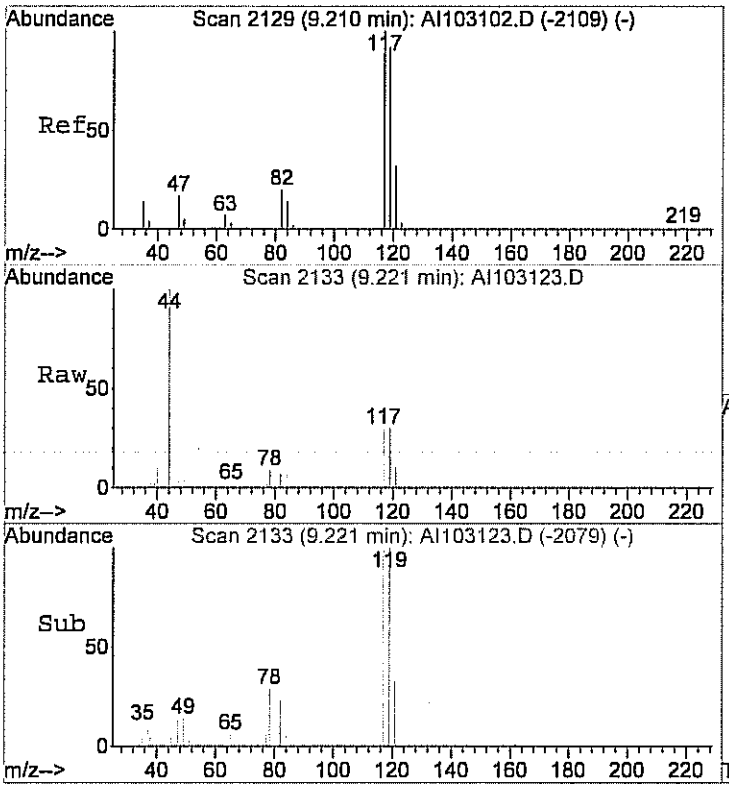


#34
Cyclohexane
Concen: 2.42 ppb
RT: 9.28 min Scan# 2152
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 56 Resp: 43880

Ion	Ratio	Lower	Upper
56	100		
41	78.5	49.1	89.1
84	55.7	114.6	154.6#

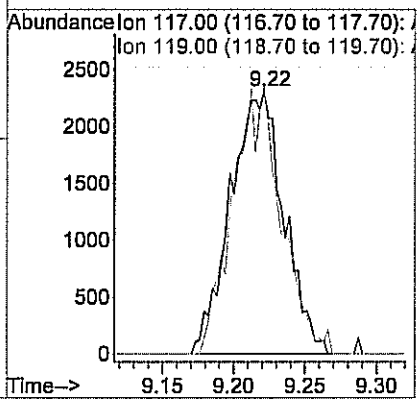


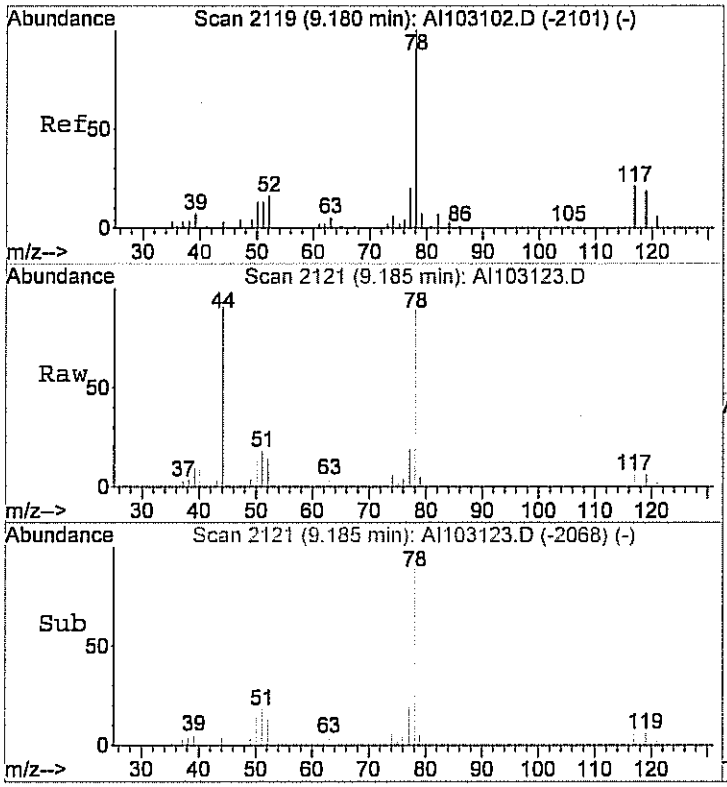


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.22 min Scan# 2133
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:117 Resp: 5978

Ion	Ratio	Lower	Upper
117	100		
119	93.7	77.2	117.2

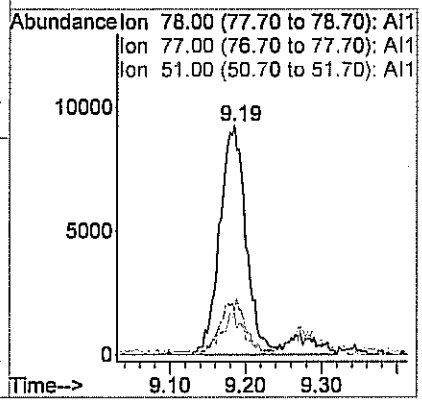


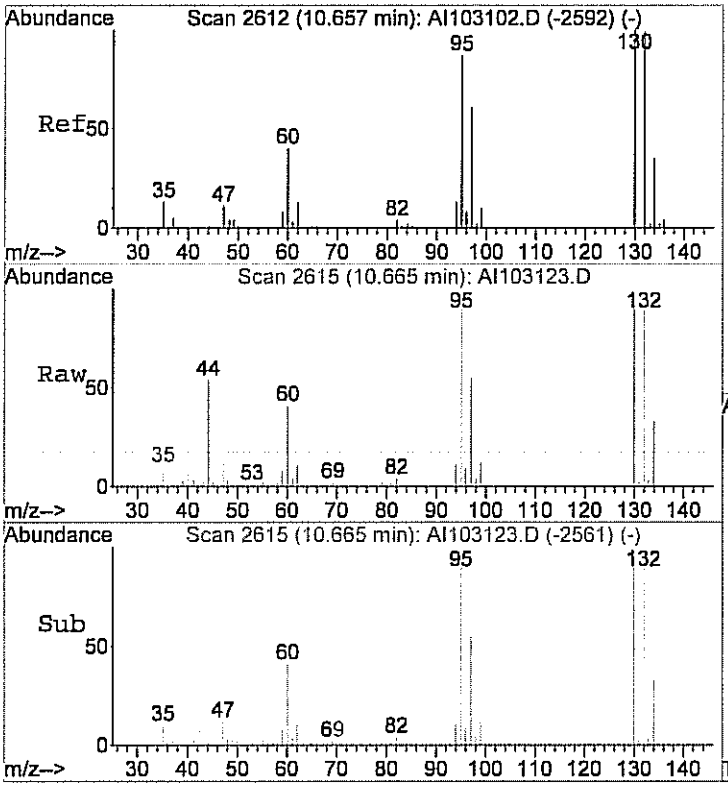


#36
Benzene
Concen: 0.45 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 78 Resp: 24448

Ion	Ratio	Lower	Upper
78	100		
77	20.9	5.2	45.2
51	16.3	0.0	37.6

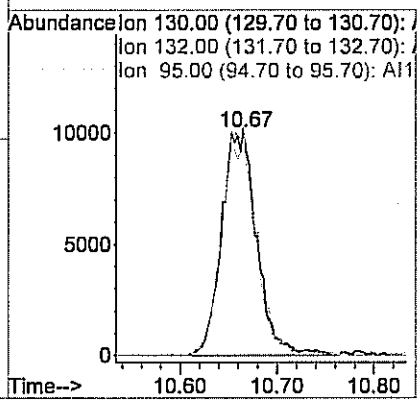


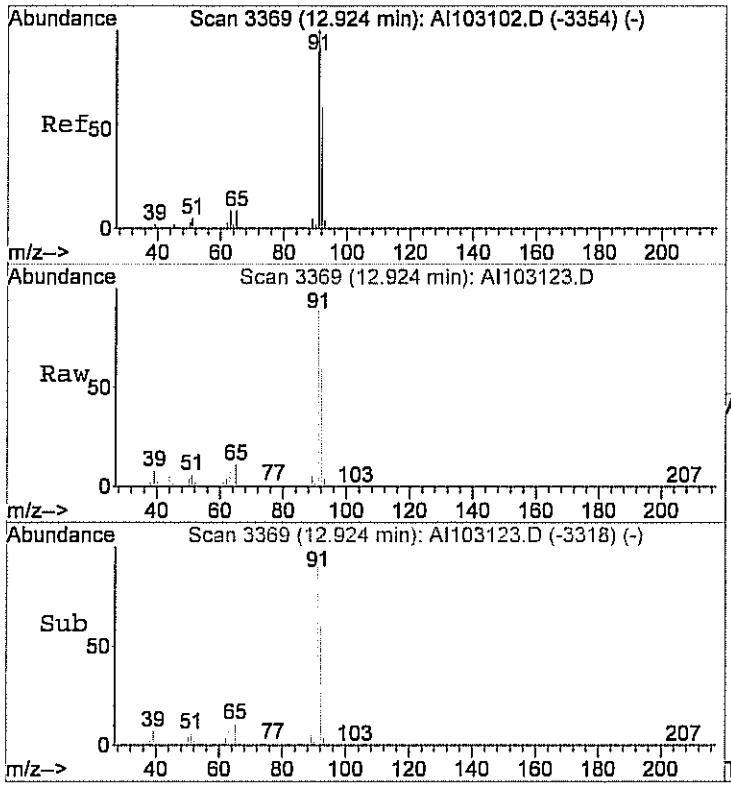


#41
Trichloroethene
Concen: 0.68 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:130 Resp: 25421

Ion	Ratio	Lower	Upper
130	100		
132	98.5	79.0	119.0
95	94.3	76.8	116.8

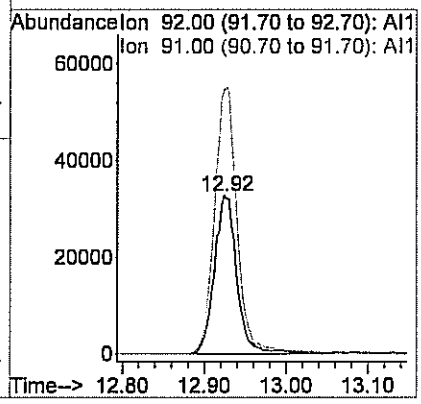


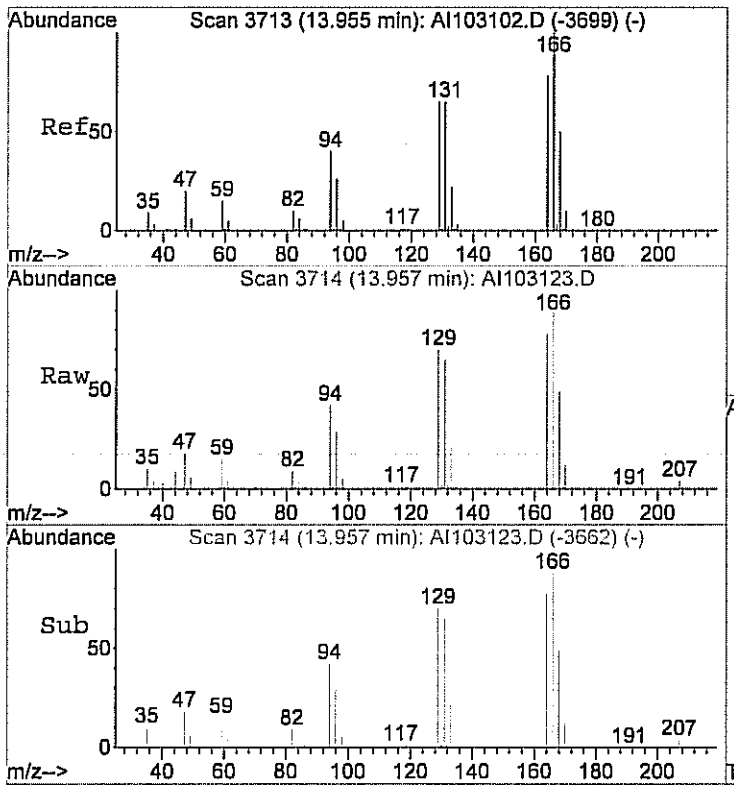


#48
Toluene
Concen: 1.81 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 92 Resp: 62963

Ion	Ratio	Lower	Upper
92	100		
91	168.6	159.8	199.8

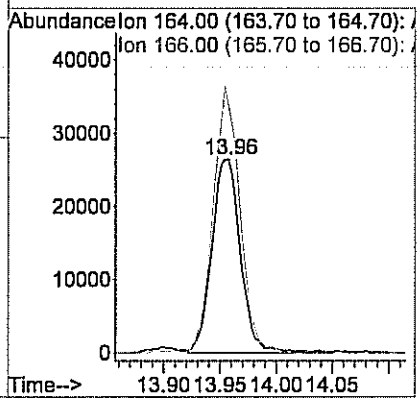


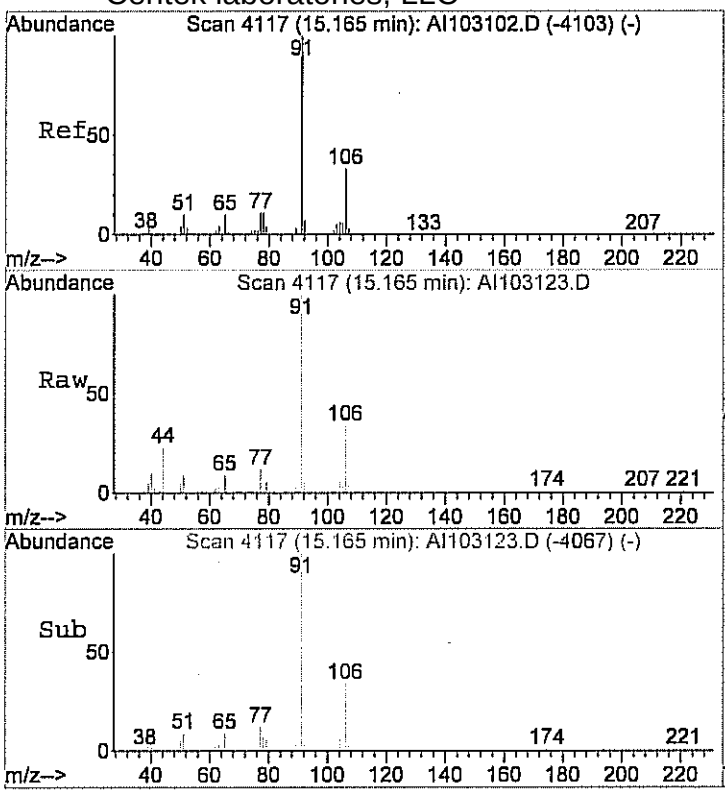


#53
Tetrachloroethylene
Concen: 1.08 ppb
RT: 13.96 min Scan# 3714
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:164 Resp: 46721

Ion	Ratio	Lower	Upper
164	100		
166	130.1	109.4	149.4

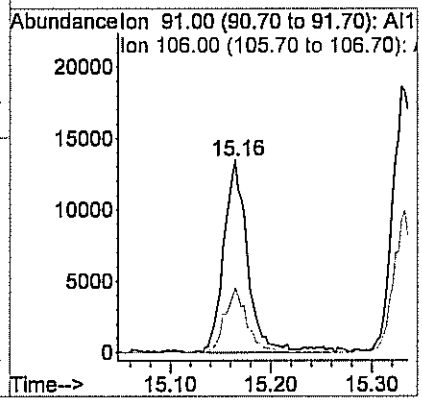


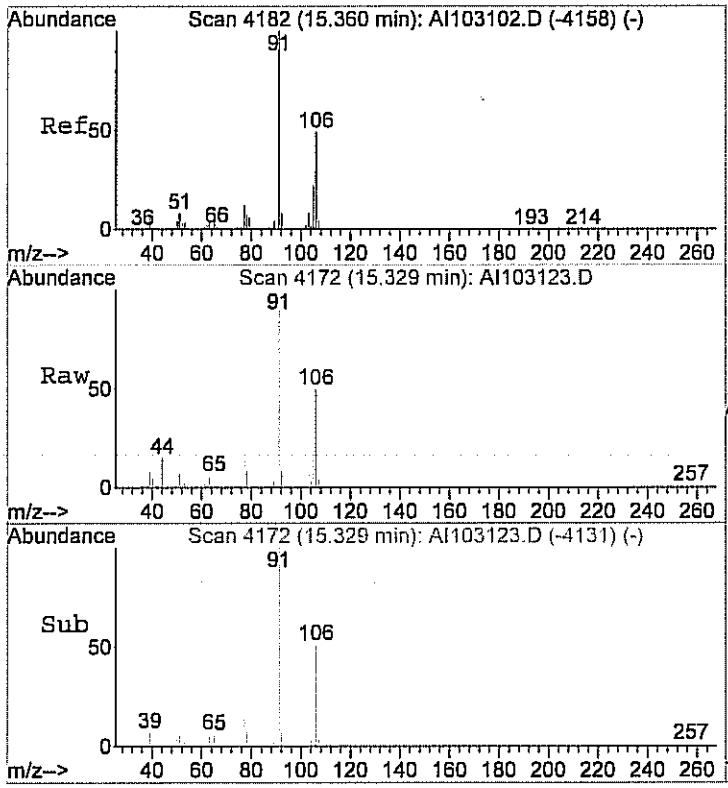


#55
Ethylbenzene
Concen: 0.32 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 91 Resp: 22490

Ion	Ratio	Lower	Upper
91	100		
106	30.3	10.7	50.7

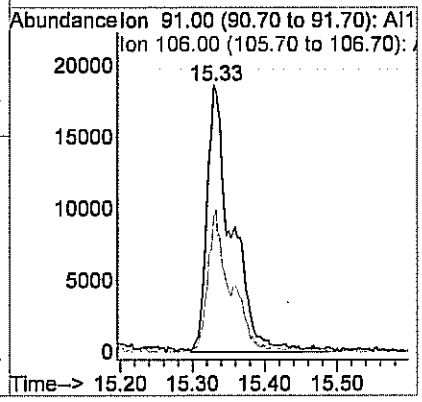


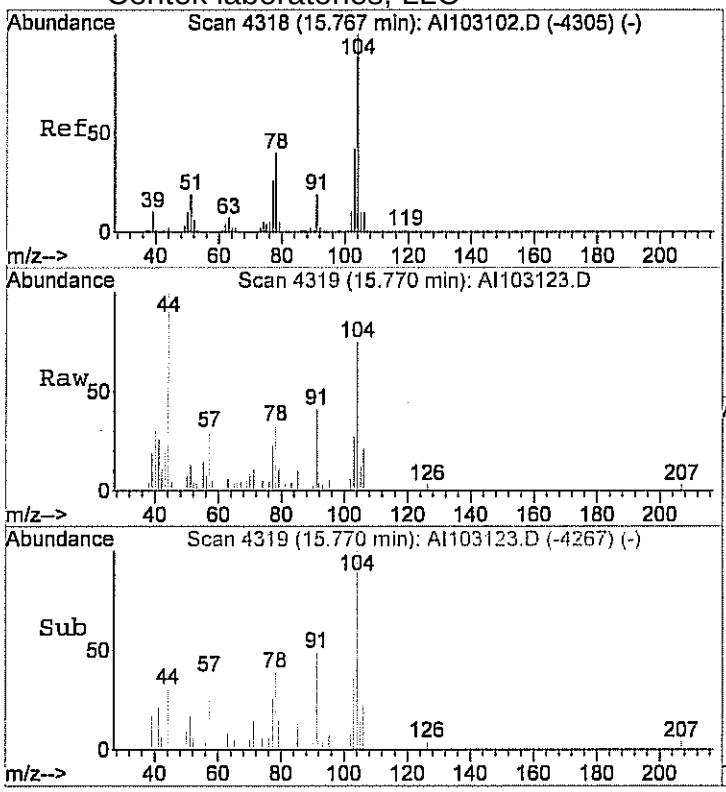


#56
m&p-xylene
Concen: 0.77 ppb
RT: 15.33 min Scan# 4172
Delta R.T. -0.03 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 91 Resp: 44659

Ion	Ratio	Lower	Upper
91	100		
106	49.3	27.5	67.5

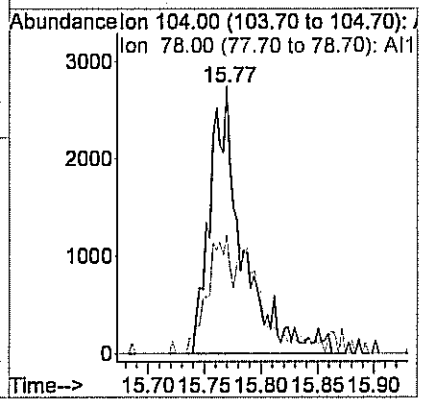


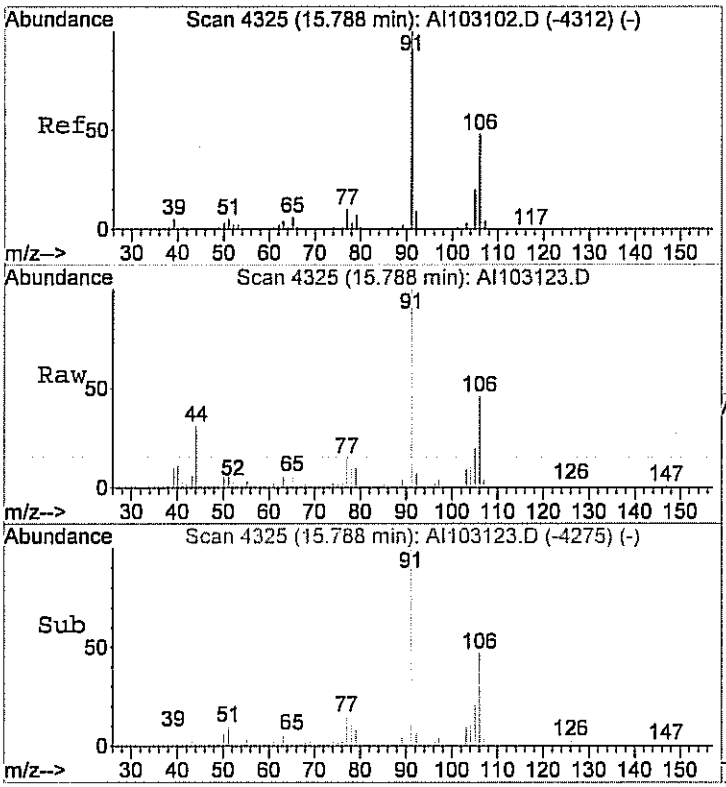


#57
Styrene
Concen: 0.15 ppb
RT: 15.77 min Scan# 4319
Delta R.T. 0.01 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:104 Resp: 5473

Ion	Ratio	Lower	Upper
104	100		
78	66.0	36.7	76.7

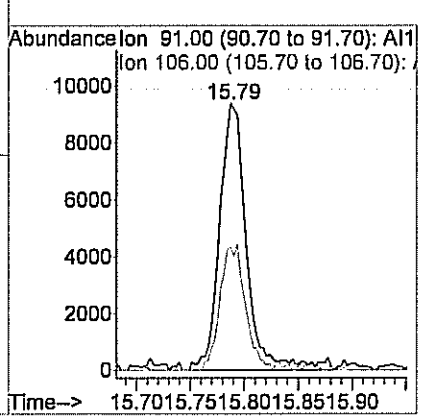


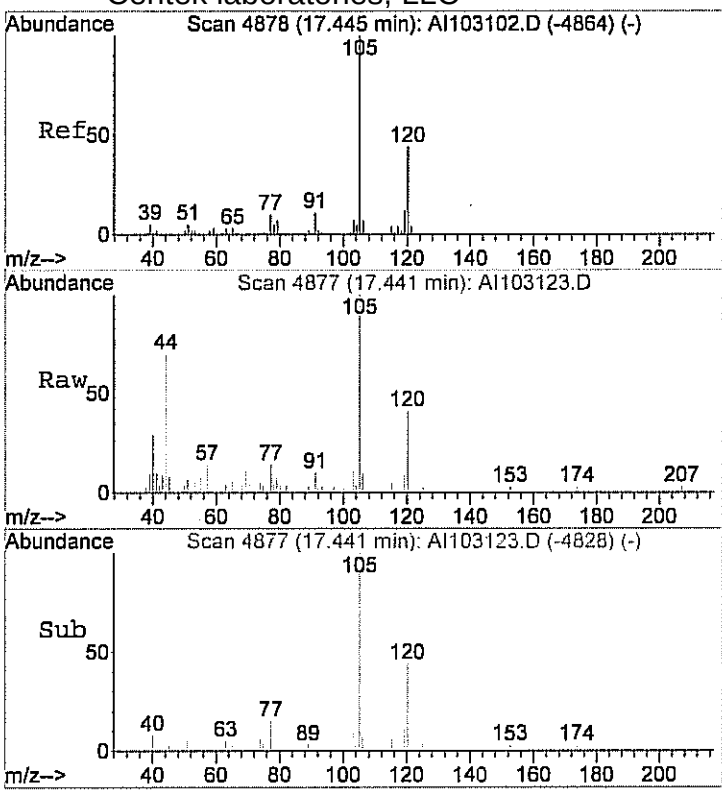


#59
o-xylene
Concen: 0.22 ppb
RT: 15.79 min Scan# 4325
Delta R.T. -0.00 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion: 91 Resp: 16209

Ion	Ratio	Lower	Upper
91	100		
106	43.7	26.2	66.2

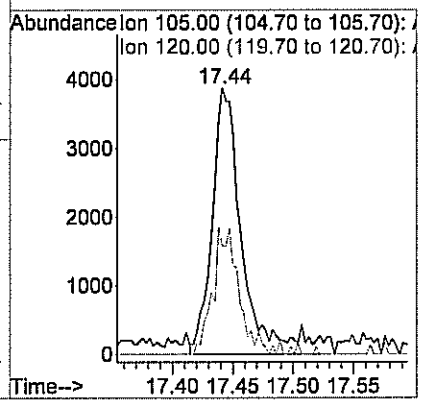




#65
1,2,4-trimethylbenzene
Concen: 0.13 ppb
RT: 17.44 min Scan# 4877
Delta R.T. -0.00 min
Lab File: AI103123.D
Acq: 31 Oct 2011 10:35 pm

Tgt Ion:105 Resp: 6812

Ion	Ratio	Lower	Upper
105	100		
120	39.8	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103139.D Vial: 46
Acq On : 1 Nov 2011 7:04 am Operator: RJP
Sample : C1110054-005A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 07:25:32 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	19180	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.96	114	40784	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	37624	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	15165	0.84	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%				
Target Compounds							Qvalue
14) Acetone	4.32	58	10423	1.87	ppb		98
15) Isopropyl alcohol	4.41	45	18428	1.26	ppb	#	100

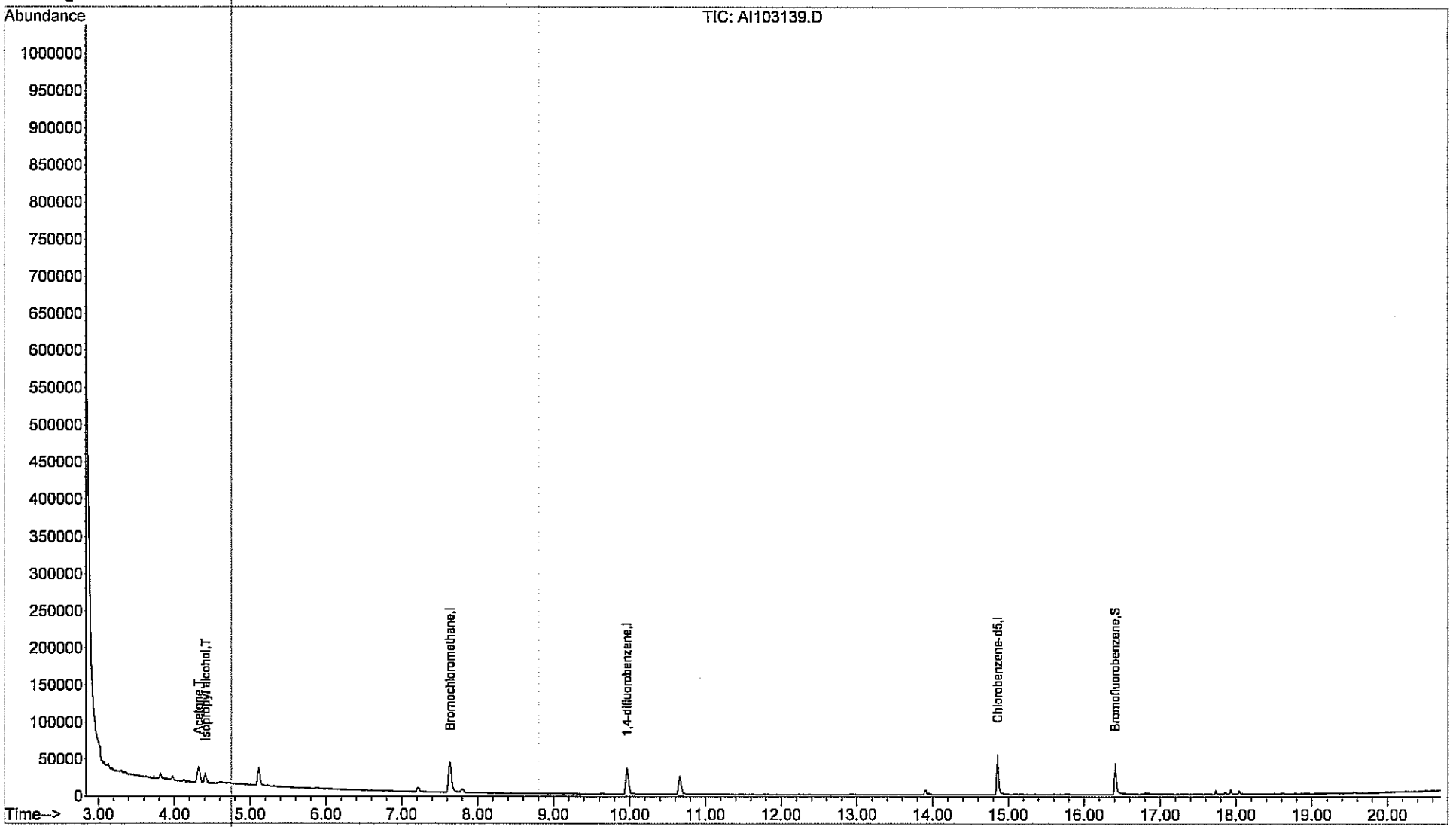
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

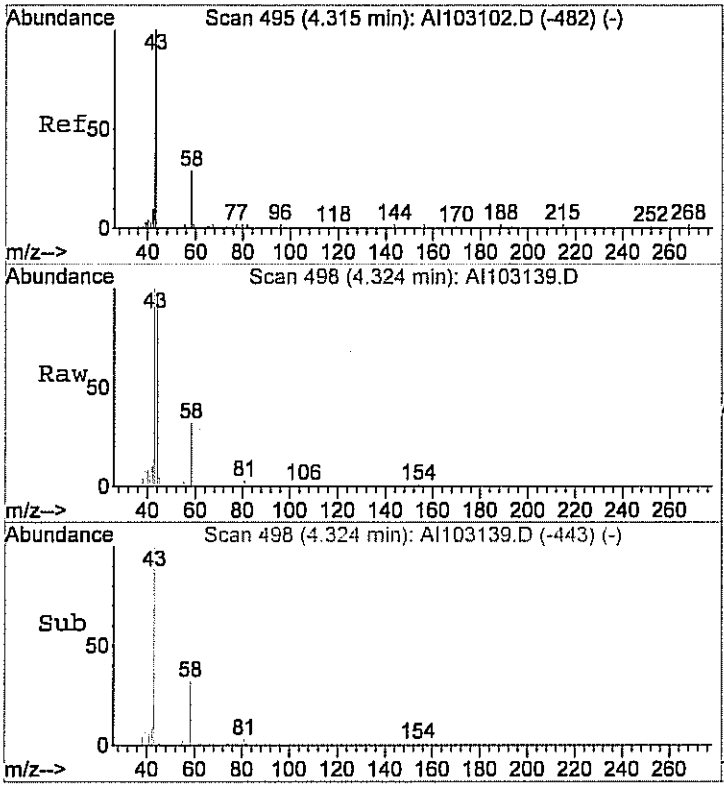
Data File : C:\HPCHEM\1\DATA\AI103139.D
Acq On : 1 Nov 2011 7:04 am
Sample : C1110054-005A 10x
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:04 2011

Vial: 46
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



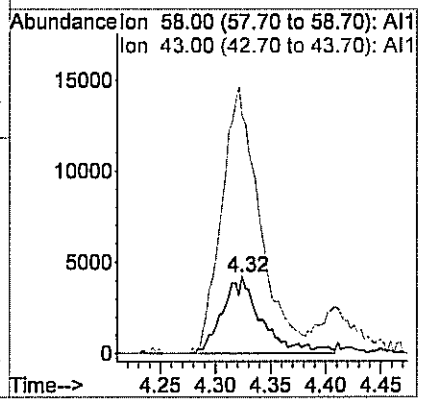
Centek laboratories, LLC

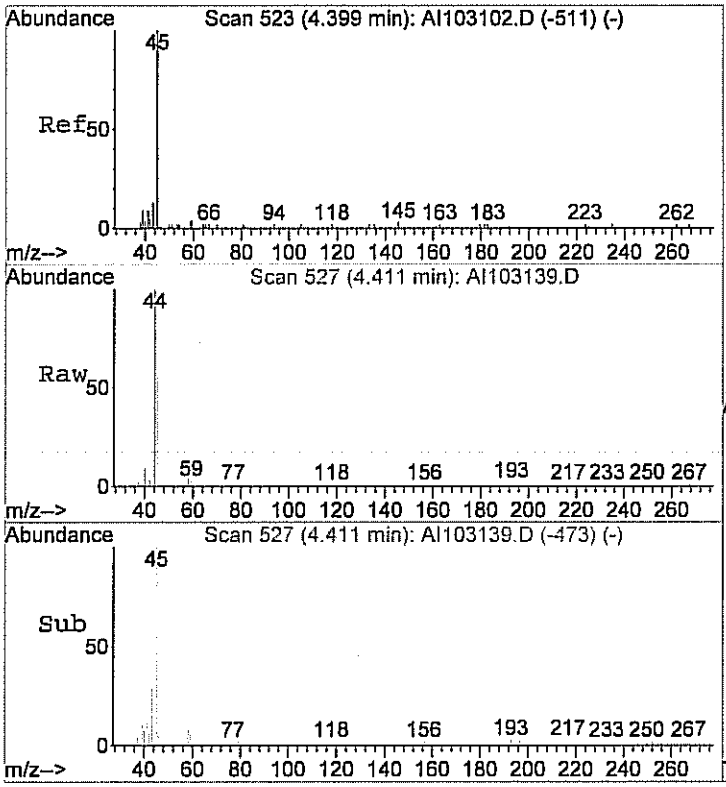


#14
Acetone
Concen: 1.87 ppb
RT: 4.32 min Scan# 498
Delta R.T. 0.02 min
Lab File: AI103139.D
Acq: 1 Nov 2011 7:04 am

Tgt Ion: 58 Resp: 10423

Ion	Ratio	Lower	Upper
58	100		
43	396.5	360.8	420.8

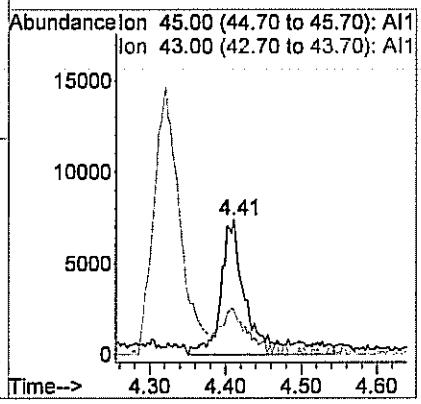




#15
Isopropyl alcohol
Concen: 1.26 ppb
RT: 4.41 min Scan# 527
Delta R.T. 0.01 min
Lab File: AI103139.D
Acq: 1 Nov 2011 7:04 am

Tgt Ion: 45 Resp: 18428

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Acetone	24	3.0		ppbV	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzene	0.32	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroform	0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 11	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:08:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	11/1/2011 7:37:00 AM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	0.74	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Styrene	0.13	0.15	J	ppbV	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Toluene	0.66	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Trichloroethene	1.3	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Acetone	58	7.2		ug/m3	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:08:00 PM
Benzene	1.0	0.49		ug/m3	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:08:00 PM
Chloroform	0.74	0.74		ug/m3	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
Ethylbenzene	1.2	0.66		ug/m3	1	10/31/2011 11:08:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:08:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 7:37:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	2.2	0.90		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:08:00 PM
o-Xylene	0.71	0.66		ug/m3	1	10/31/2011 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:08:00 PM
Styrene	0.56	0.65	J	ug/m3	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:08:00 PM
Toluene	2.5	0.57		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Trichloroethene	7.3	0.82		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103124.D Vial: 3
Acq On : 31 Oct 2011 11:08 pm Operator: RJP
Sample : C1110054-006A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 23:29:03 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	20042	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.97	114	55118	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	53210	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24706	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	39279	0.51	ppb		99
13) Freon 11	4.12	101	12378	0.27	ppb		99
14) Acetone	4.27	58	60448	10.36	ppb		90
15) Isopropyl alcohol	4.37	45	219284	14.31	ppb	#	100
20) Carbon disulfide	5.23	76	12622	0.20	ppb		99
25) Methyl Ethyl Ketone	6.88	72	3749	0.74	ppb	#	100
29) Chloroform	7.81	83	8355	0.15	ppb		97
34) Cyclohexane	9.28	56	24058	1.38	ppb	#	56
35) Carbon tetrachloride	9.22	117	6011	0.11	ppb		95
36) Benzene	9.19	78	16714	0.32	ppb		95
41) Trichloroethene	10.67	130	48105	1.34	ppb		97
48) Toluene	12.93	92	21783	0.66	ppb		90
55) Ethylbenzene	15.16	91	17832	0.27	ppb		96
56) m&p-xylene	15.33	91	33891	0.62	ppb		96
57) Styrene	15.77	104	4492	0.13	ppb		91
59) o-xylene	15.79	91	11174	0.16	ppb		98
65) 1,2,4-trimethylbenzene	17.45	105	4920	0.10	ppb		84

(#) = qualifier out of range (m) = manual integration (+) = signals summed

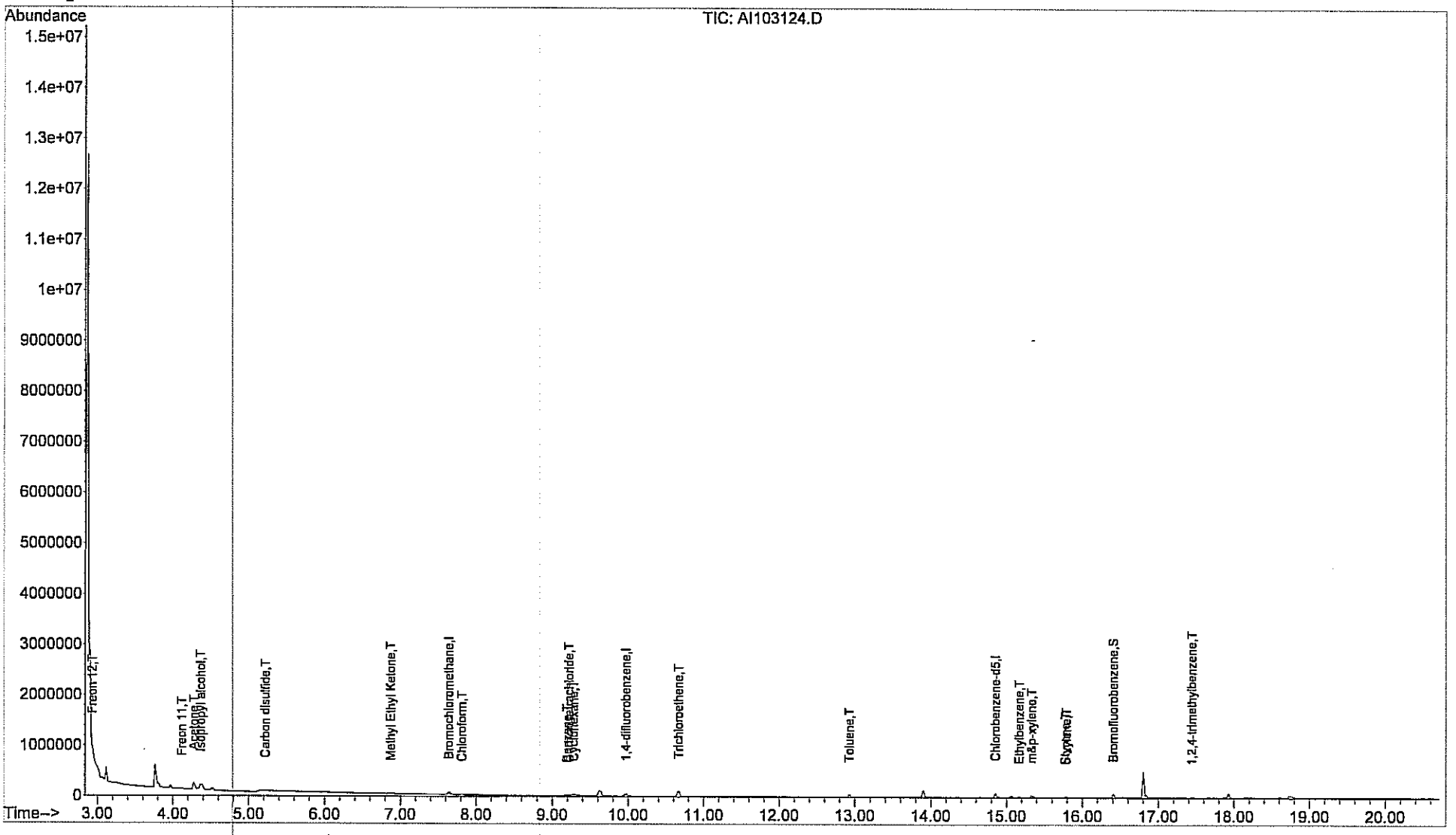
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103124.D
Acq On : 31 Oct 2011 11:08 pm
Sample : C1110054-006A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 9:05 2011

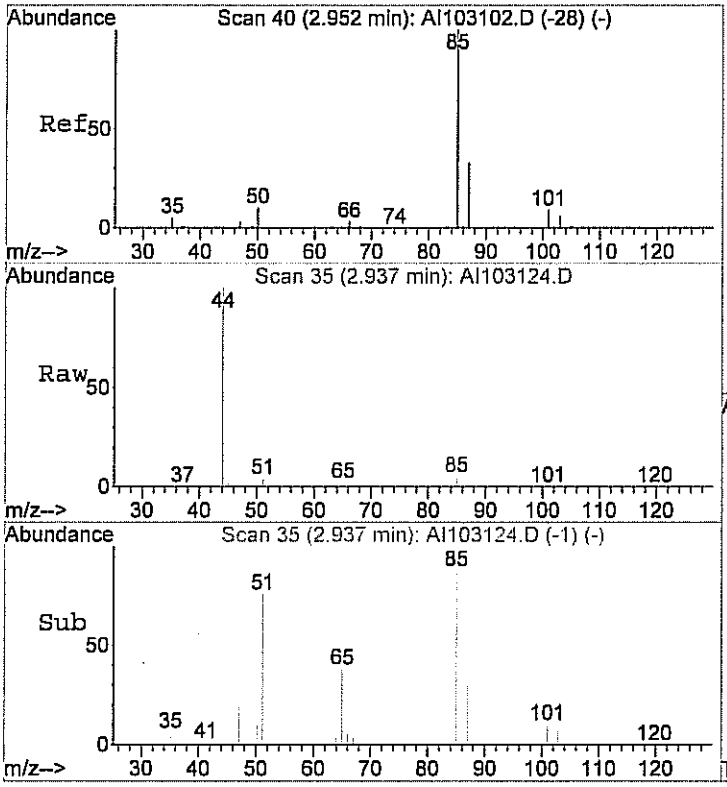
Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



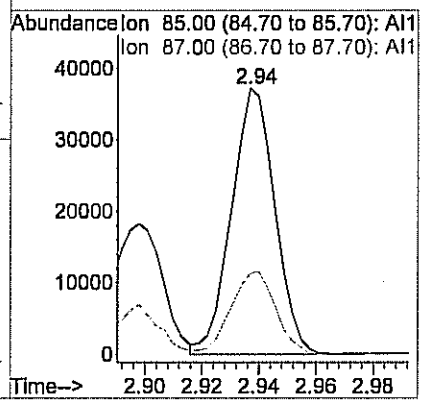
Centek laboratories, LLC

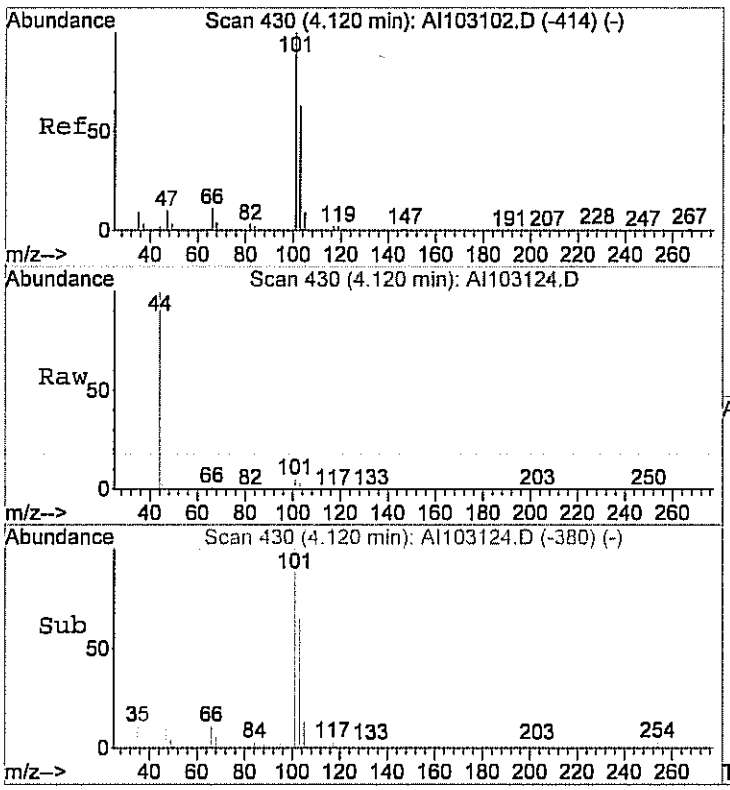


#3
Freon 12
Concen: 0.51 ppb
RT: 2.94 min Scan# 35
Delta R.T. -0.02 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 85 Resp: 39279

Ion	Ratio	Lower	Upper
85	100		
87	31.8	12.2	52.2

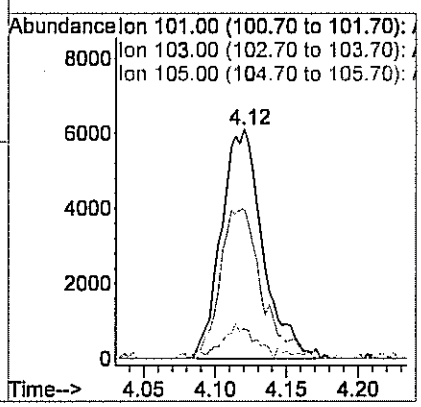


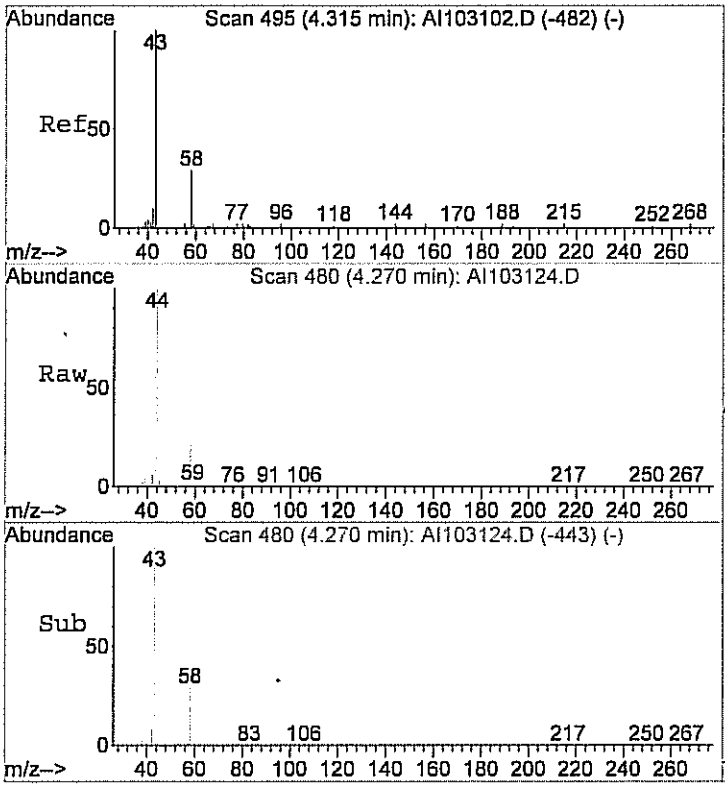


#13
Freon 11
Concen: 0.27 ppb
RT: 4.12 min Scan# 430
Delta R.T. -0.00 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion:101 Resp: 12378

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.9	84.9
105	11.6	0.0	30.9

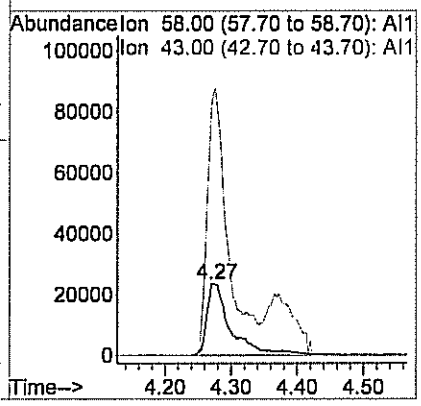


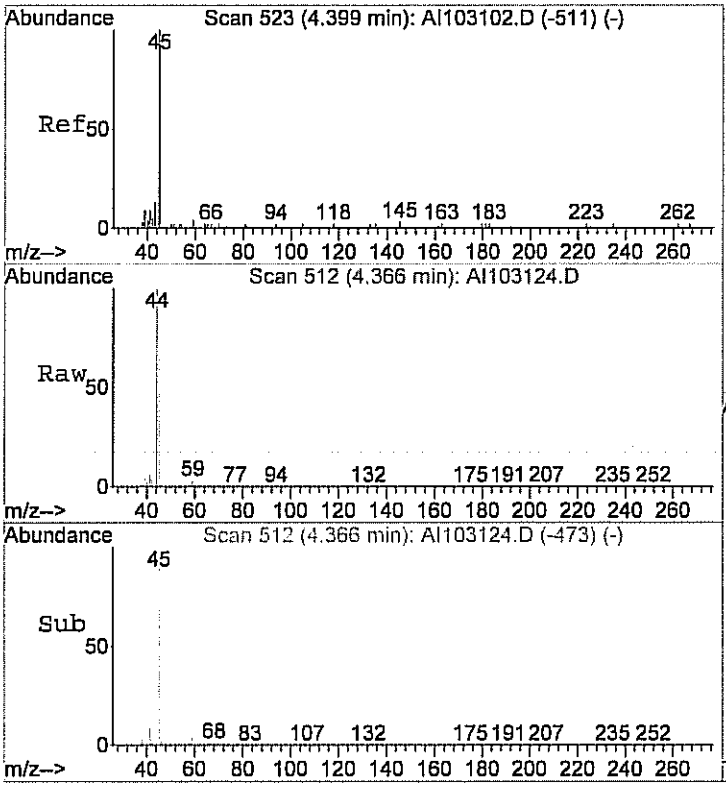


#14
Acetone
Concen: 10.36 ppb
RT: 4.27 min Scan# 480
Delta R.T. -0.04 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 58 Resp: 60448

Ion	Ratio	Lower	Upper
58	100		
43	413.1	360.8	420.8

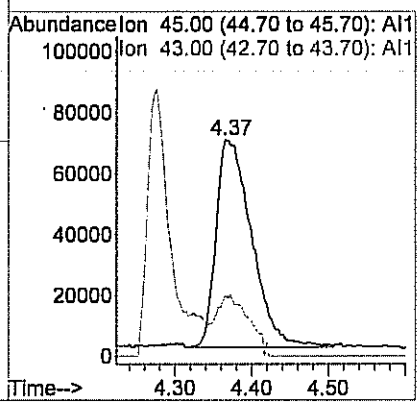


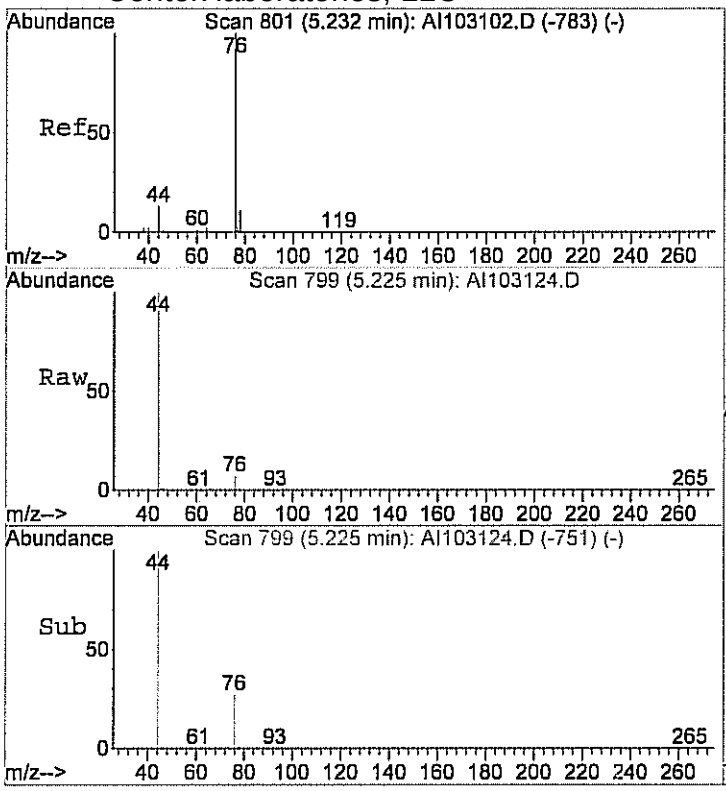


#15
Isopropyl alcohol
Concen: 14.31 ppb
RT: 4.37 min Scan# 512
Delta R.T. -0.03 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 45 Resp: 219284

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

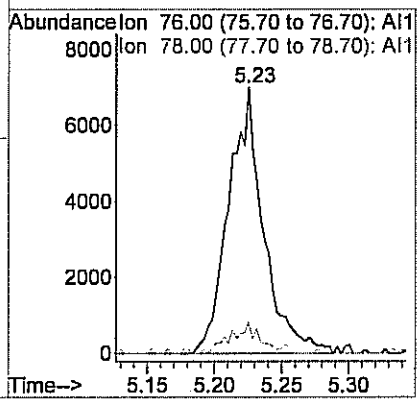


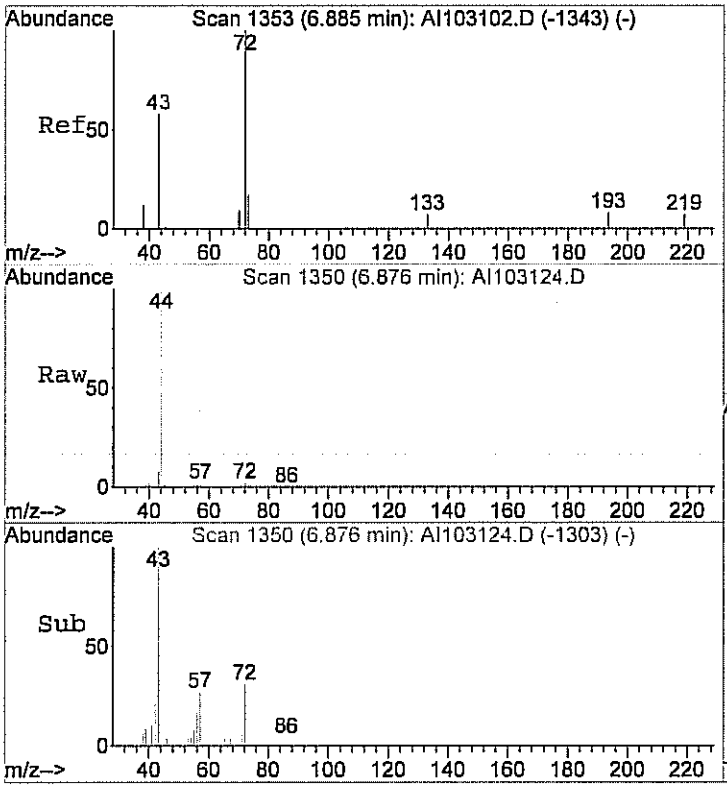


#20
Carbon disulfide
Concen: 0.20 ppb
RT: 5.23 min Scan# 799
Delta R.T. -0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 76 Resp: 12622

Ion	Ratio	Lower	Upper
76	100		
78	10.0	0.0	29.6

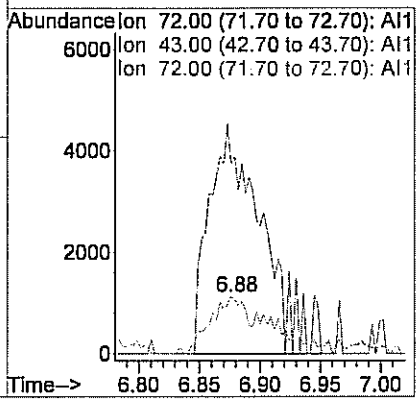


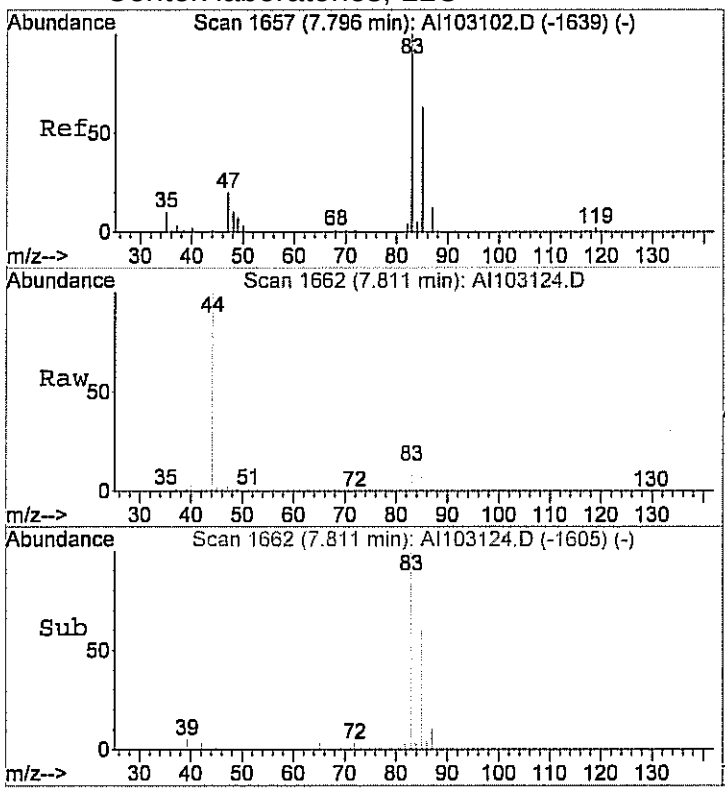


#25
Methyl Ethyl Ketone
Concen: 0.74 ppb
RT: 6.88 min Scan# 1350
Delta R.T. -0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 72 Resp: 3749

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

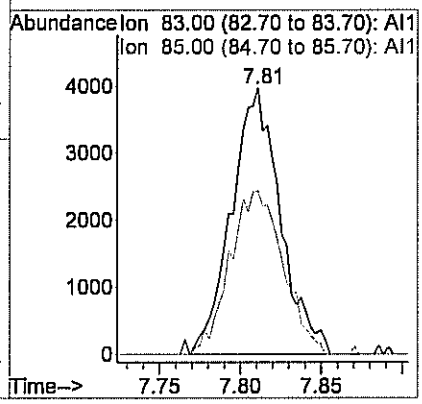


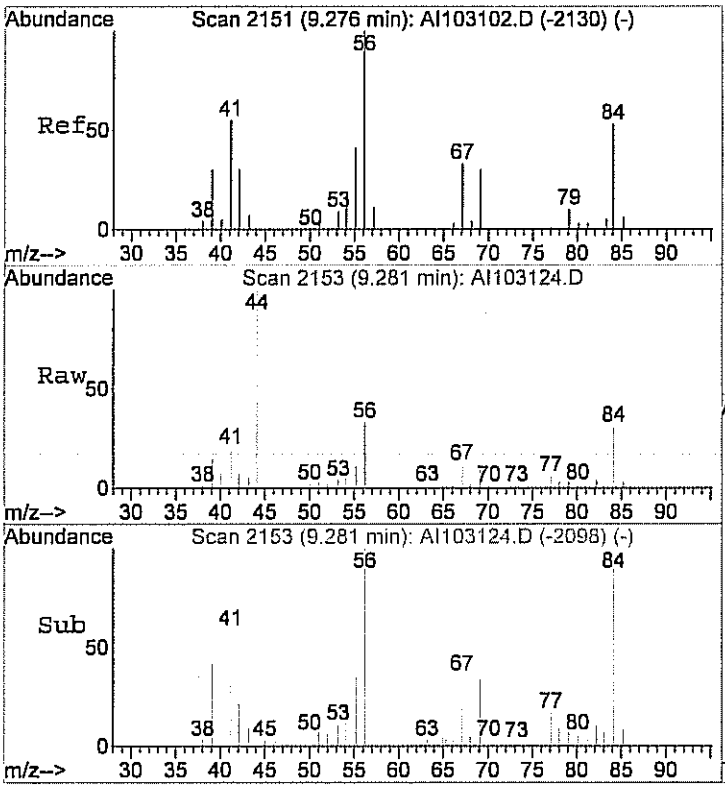


#29
Chloroform
Concen: 0.15 ppb
RT: 7.81 min Scan# 1662
Delta R.T. 0.02 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 83 Resp: 8355

Ion	Ratio	Lower	Upper
83	100		
85	67.1	45.0	85.0

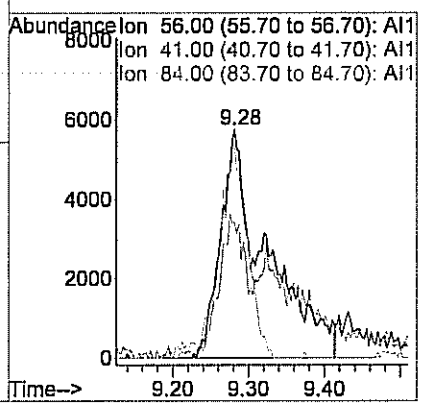


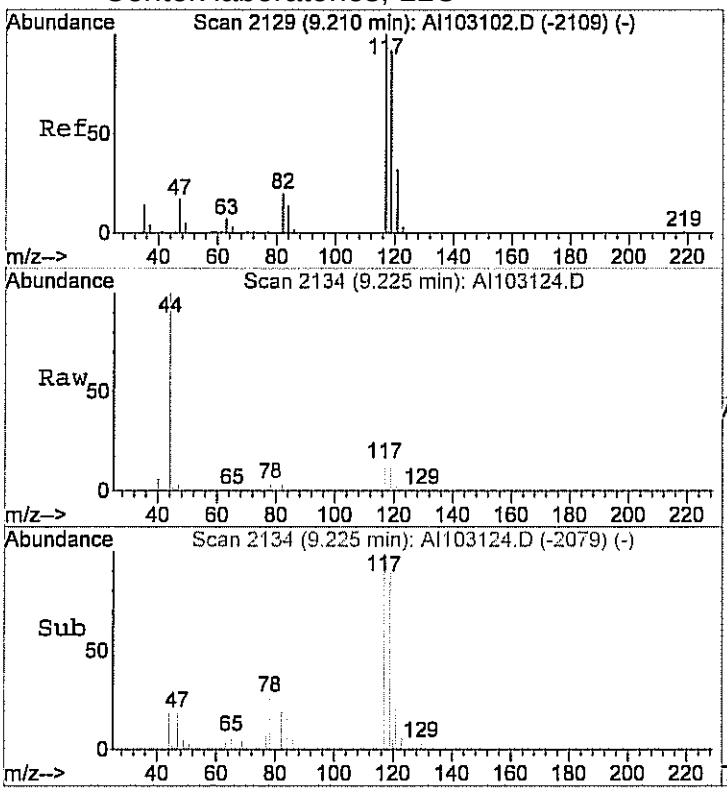


#34
Cyclohexane
Concen: 1.38 ppb
RT: 9.28 min Scan# 2153
Delta R.T. 0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 56 Resp: 24058

Ion	Ratio	Lower	Upper
56	100		
41	71.4	49.1	89.1
84	56.3	114.6	154.6#

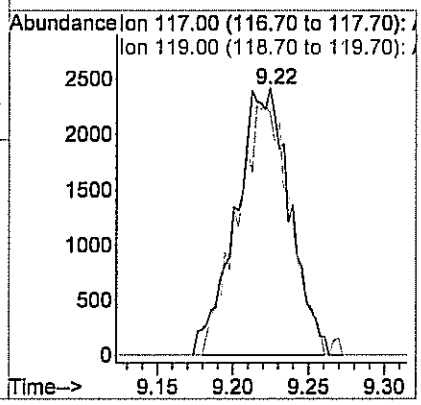


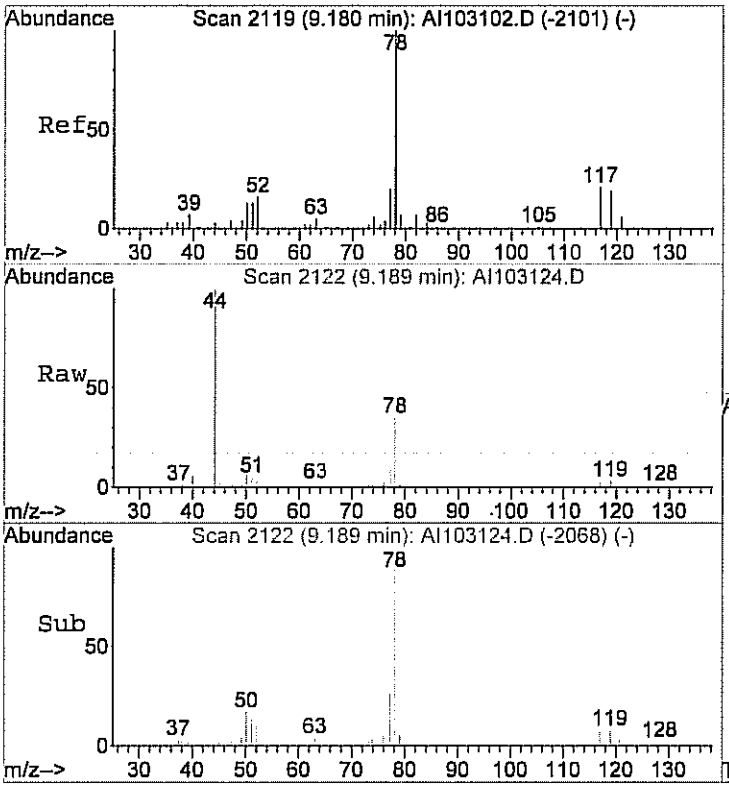


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.22 min Scan# 2134
Delta R.T. 0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion:117 Resp: 6011

Ion	Ratio	Lower	Upper
117	100		
119	92.3	77.2	117.2

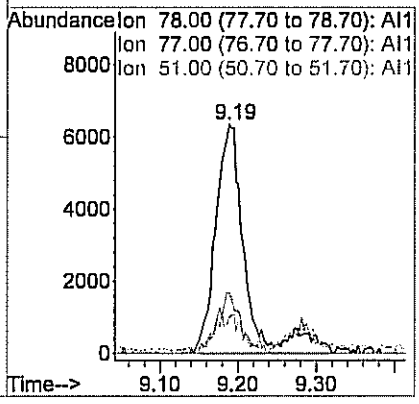


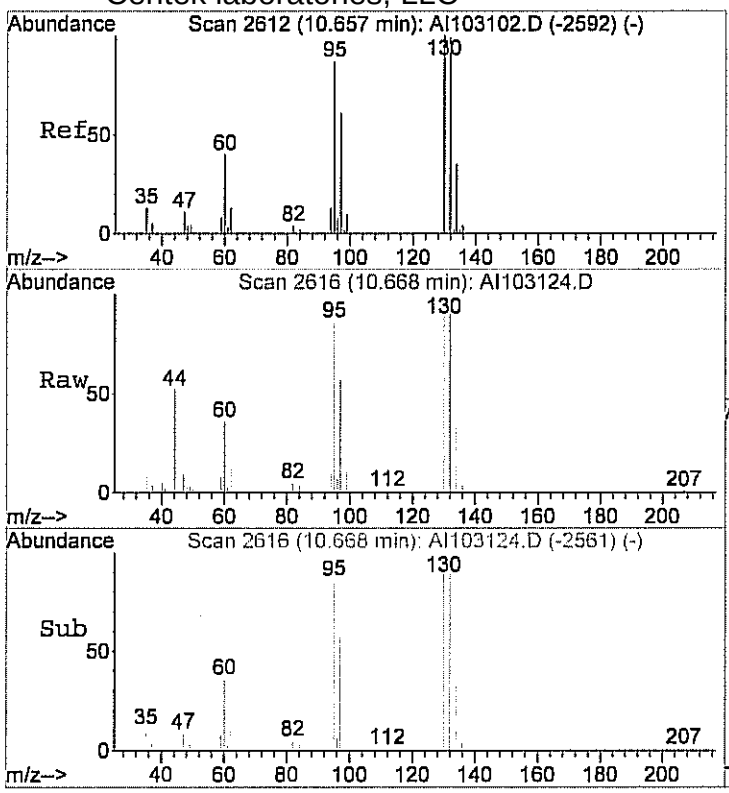


#36
Benzene
Concen: 0.32 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 78 Resp: 16714

Ion	Ratio	Lower	Upper
78	100		
77	21.2	5.2	45.2
51	17.1	0.0	37.6

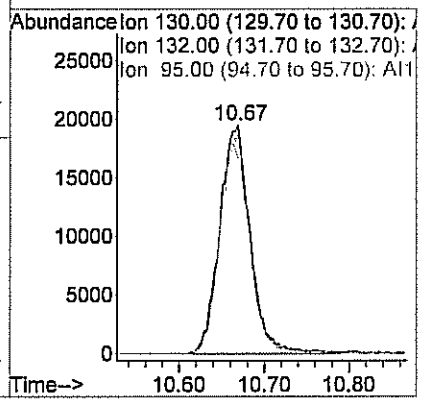


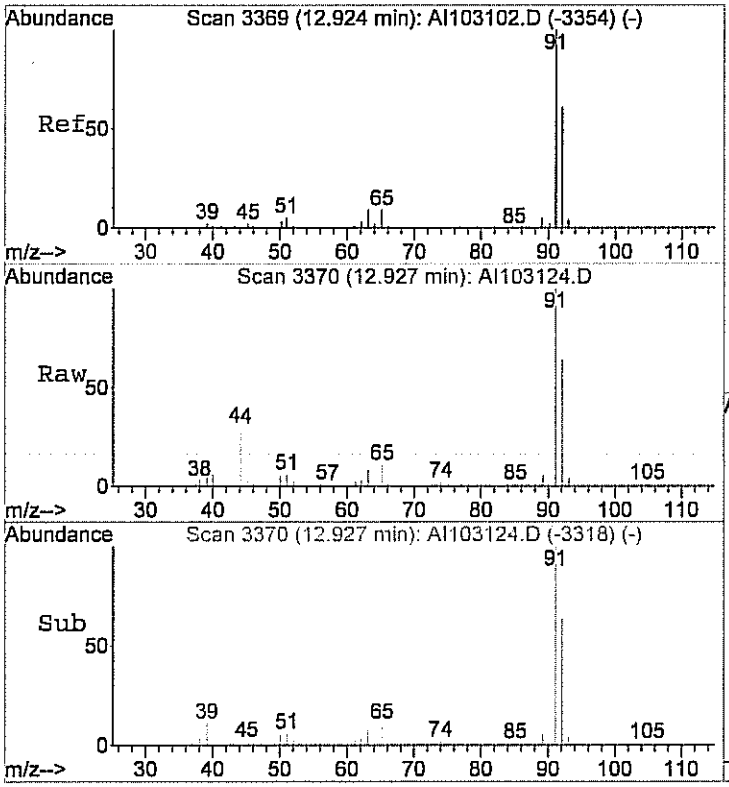


#41
Trichloroethene
Concen: 1.34 ppb
RT: 10.67 min Scan# 2616
Delta R.T. 0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion:130 Resp: 48105

Ion	Ratio	Lower	Upper
130	100		
132	97.8	79.0	119.0
95	91.7	76.8	116.8

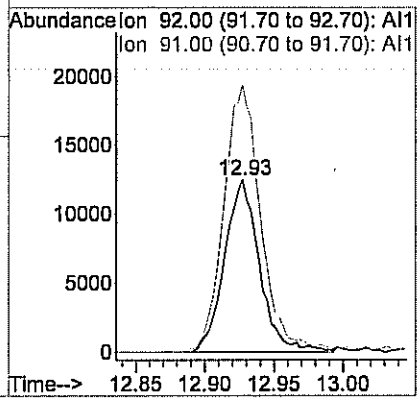


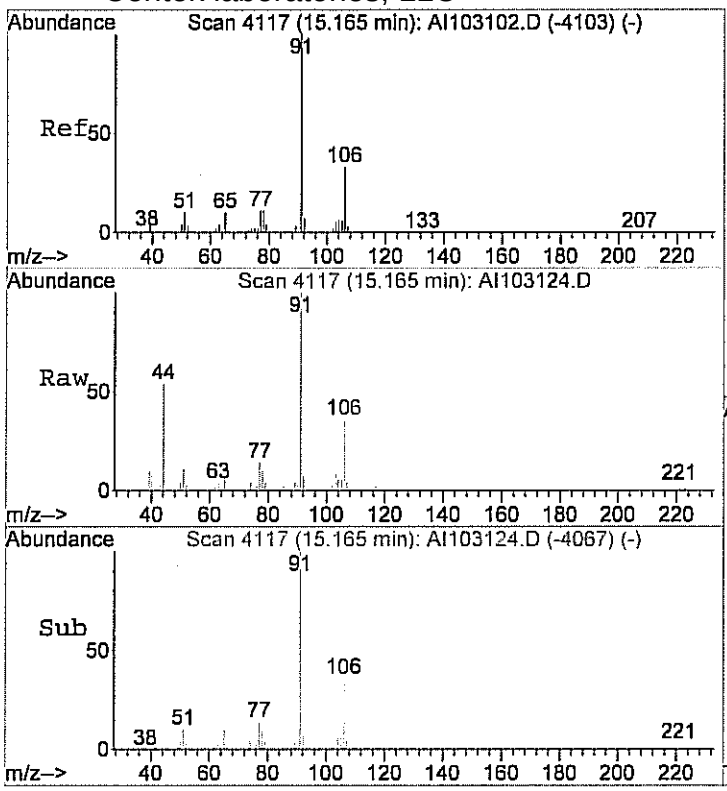


#48
Toluene
Concen: 0.66 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 92 Resp: 21783

Ion	Ratio	Lower	Upper
92	100		
91	165.1	159.8	199.8

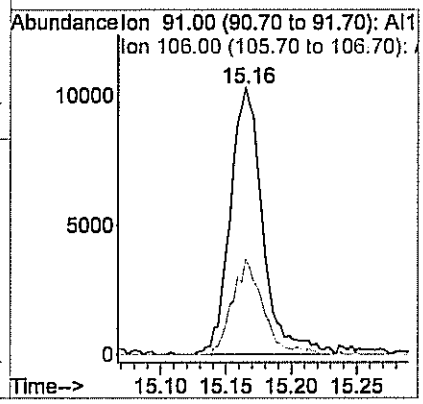


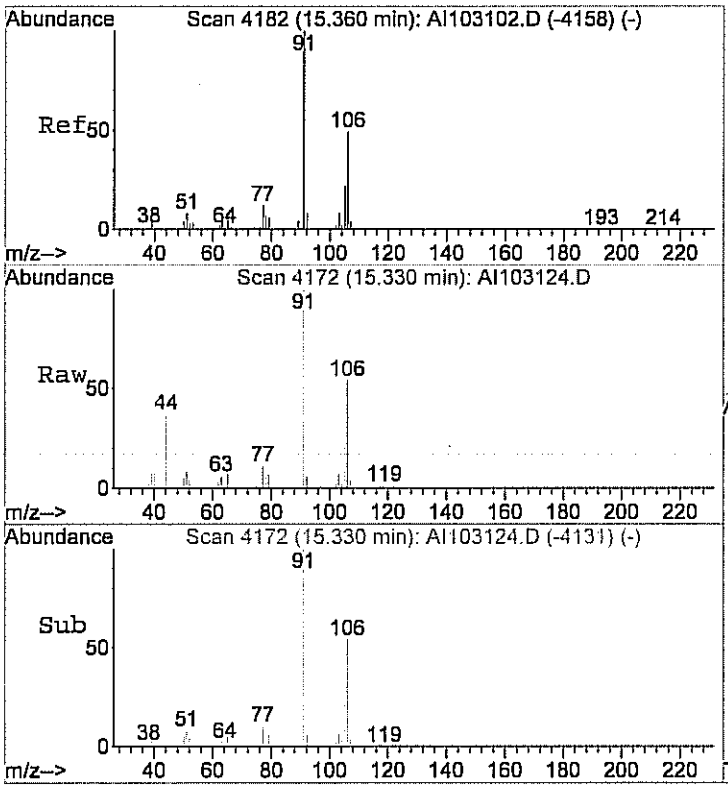


#55
Ethylbenzene
Concen: 0.27 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 91 Resp: 17832

Ion	Ratio	Lower	Upper
91	100		
106	33.1	10.7	50.7

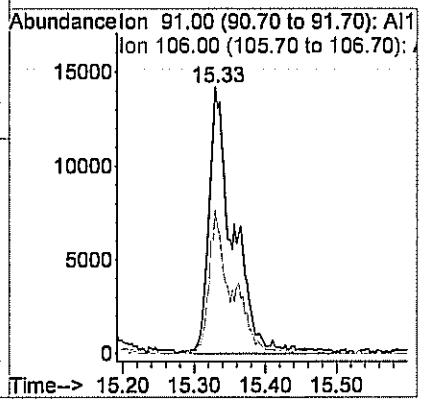


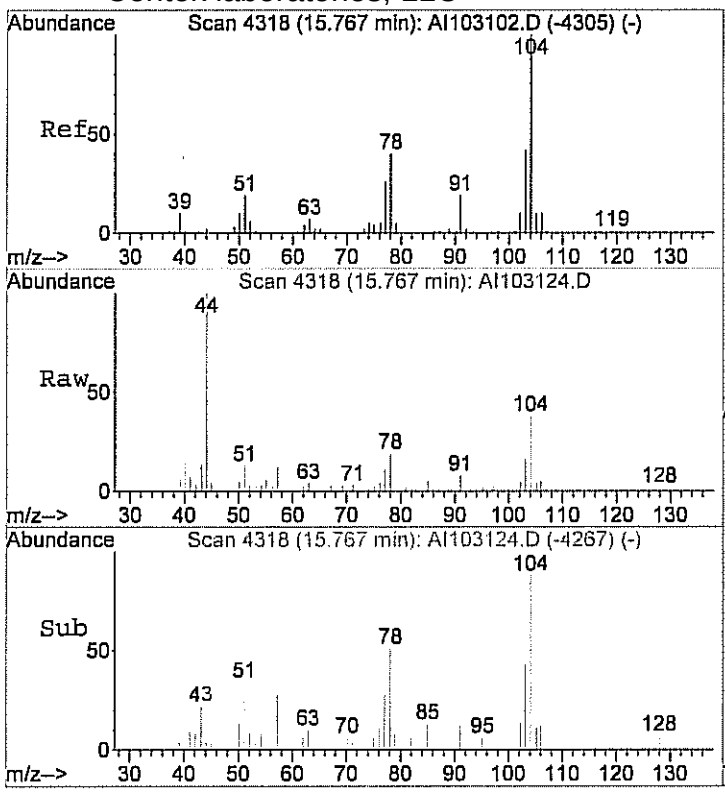


#56
m&p-xylene
Concen: 0.62 ppb
RT: 15.33 min Scan# 4172
Delta R.T. -0.03 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 91 Resp: 33891

Ion	Ratio	Lower	Upper
91	100		
106	50.1	27.5	67.5

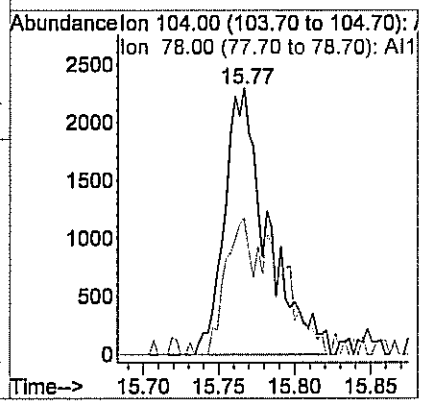


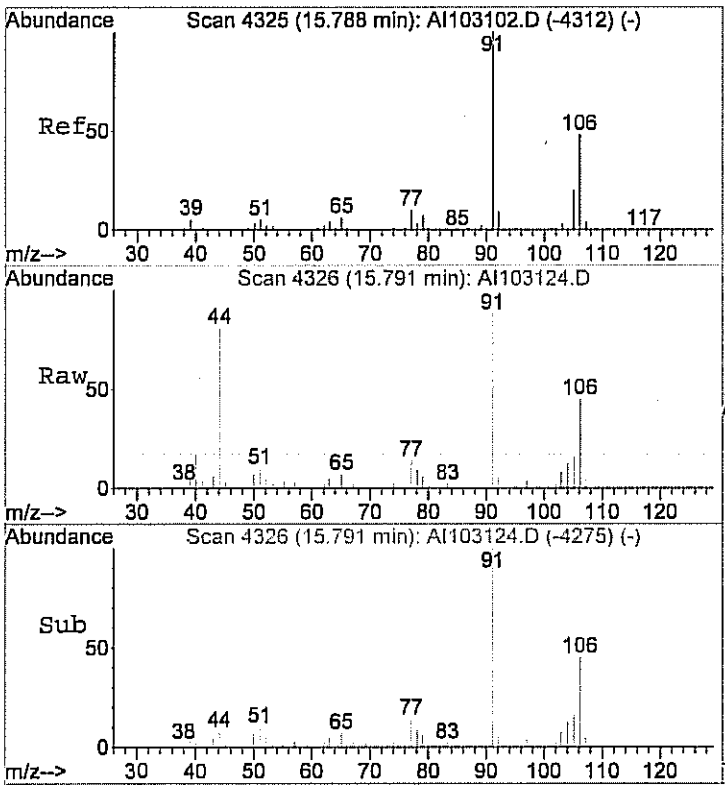


#57
Styrene
Concen: 0.13 ppb
RT: 15.77 min Scan# 4318
Delta R.T. 0.00 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion:104 Resp: 4492

Ion	Ratio	Lower	Upper
104	100		
78	63.0	36.7	76.7

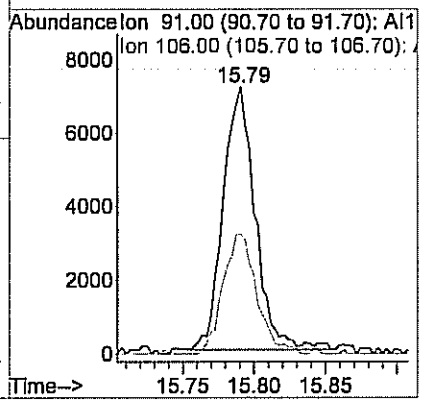


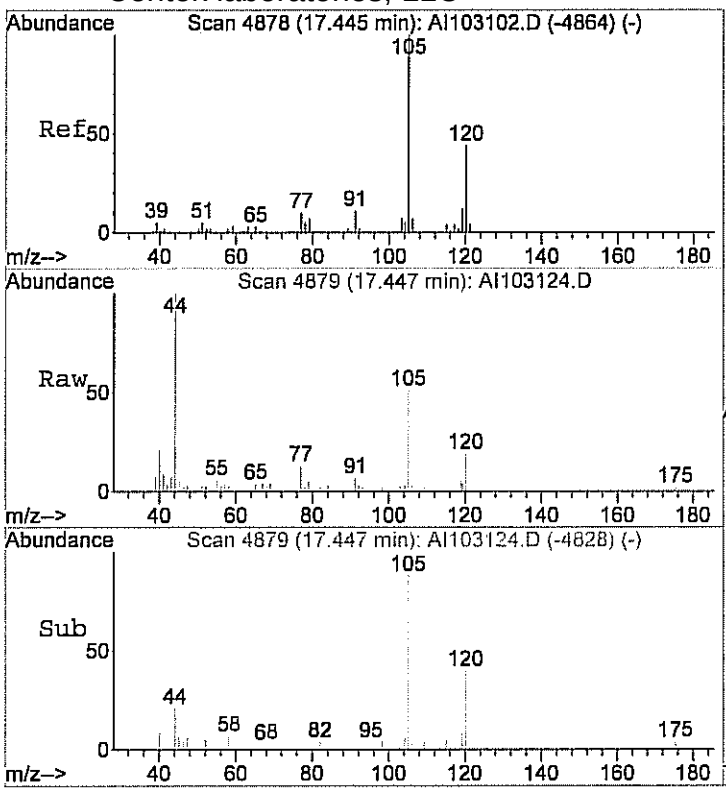


#59
o-xylene
Concen: 0.16 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion: 91 Resp: 11174

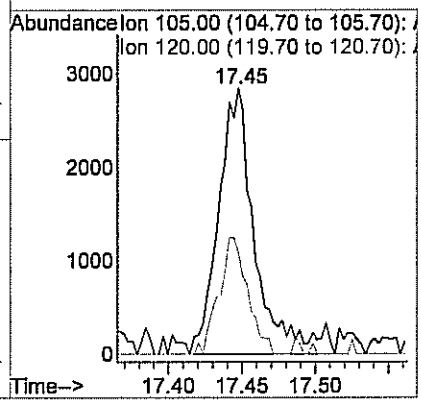
Ion	Ratio	Lower	Upper
91	100		
106	47.6	26.2	66.2





#65
1,2,4-trimethylbenzene
Concen: 0.10 ppb
RT: 17.45 min Scan# 4879
Delta R.T. 0.00 min
Lab File: AI103124.D
Acq: 31 Oct 2011 11:08 pm

Tgt Ion:105	Resp:	4920	
Ion	Ratio	Lower	Upper
105	100		
120	34.6	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103140.D Vial: 47
Acq On : 1 Nov 2011 7:37 am Operator: RJP
Sample : C1110054-006A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 07:58:43 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

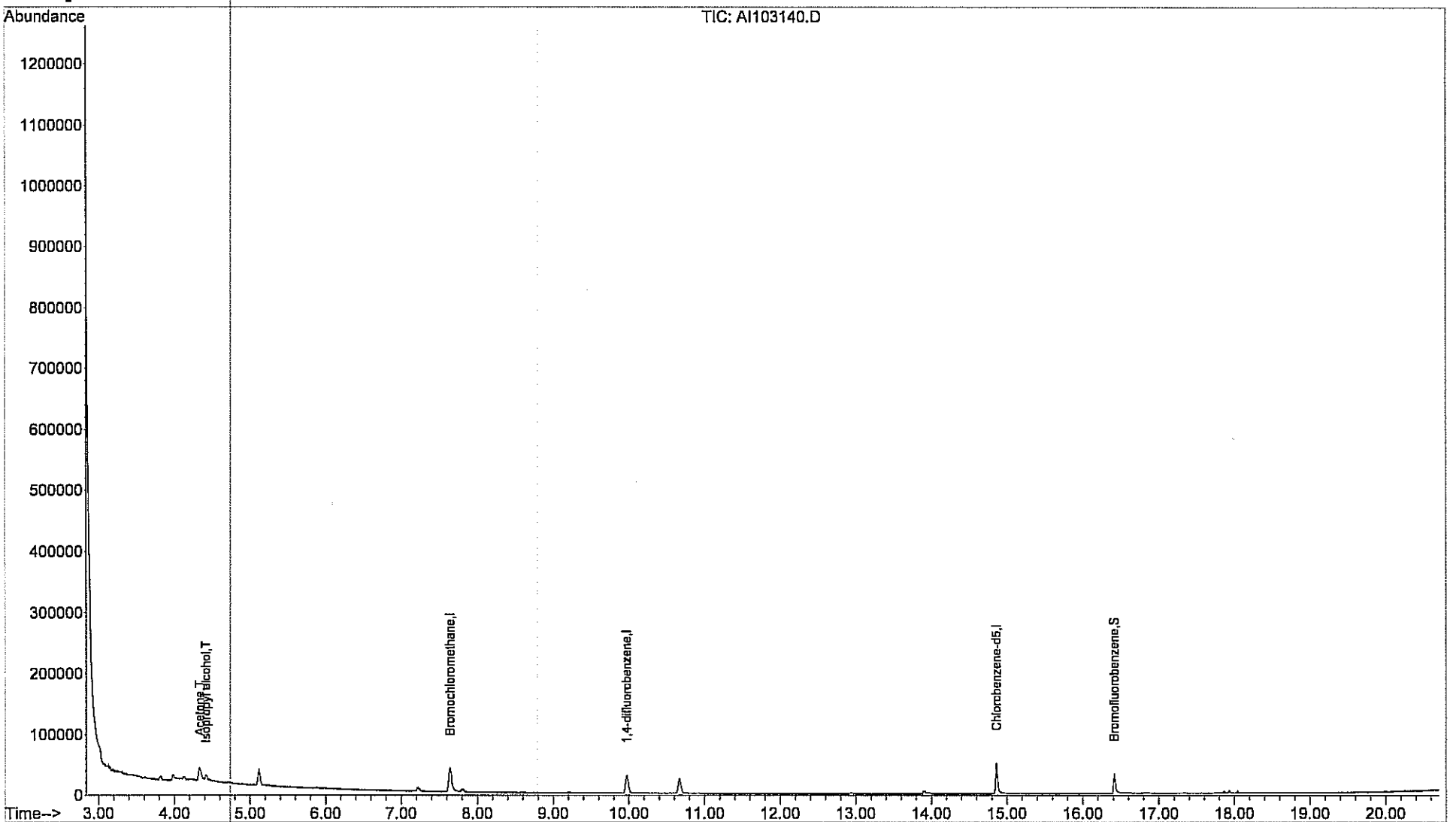
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	18121	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	37405	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	33832	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	13447	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue
14) Acetone	4.33	58	12609	2.39	ppb	# 87
15) Isopropyl alcohol	4.42	45	11683	0.84	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103140.D AO30_1UG.M Mon Nov 21 09:00:41 2011 MSD1 Page 1

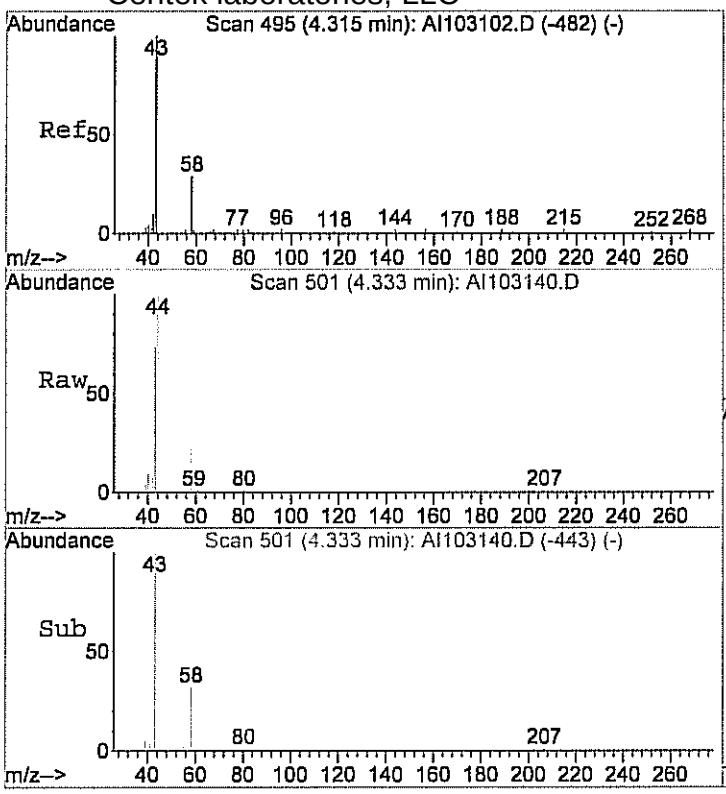
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103140.D Vial: 47
Acq On : 1 Nov 2011 7:37 am Operator: RJP
Sample : C1110054-006A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:05 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



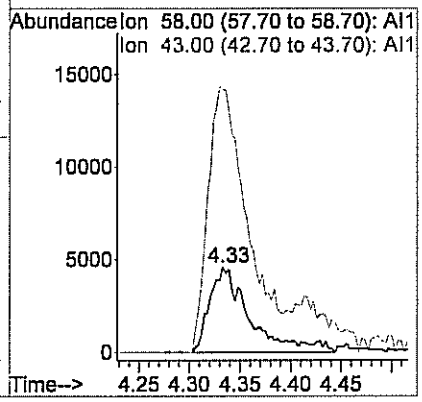
Centek laboratories, LLC

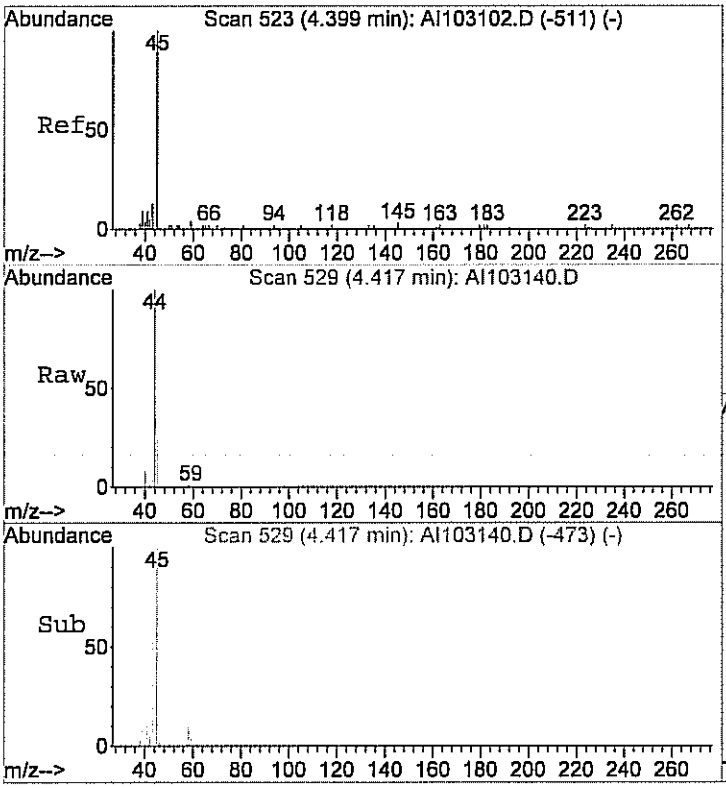


#14
Acetone
Concen: 2.39 ppb
RT: 4.33 min Scan# 501
Delta R.T. 0.02 min
Lab File: AI103140.D
Acq: 1 Nov 2011 7:37 am

Tgt Ion: 58 Resp: 12609

Ion	Ratio	Lower	Upper
58	100		
43	360.4	360.8	420.8#

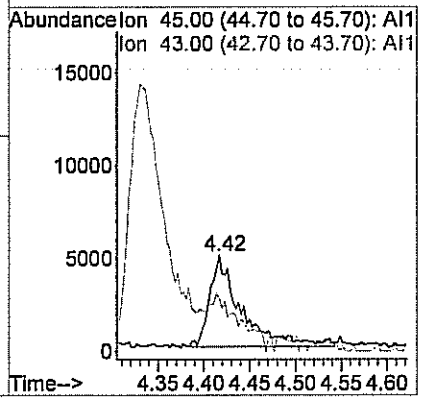




#15
Isopropyl alcohol
Concen: 0.84 ppb
RT: 4.42 min Scan# 529
Delta R.T. 0.02 min
Lab File: AI103140.D
Acq: 1 Nov 2011 7:37 am

Tgt Ion: 45 Resp: 11683

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Acetone	7.8	1.5		ppbV	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 11	0.74	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 1:04:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	4.0	0.75		ppbV	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Toluene	0.34	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Trichloroethene	0.16	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Acetone	19	3.6		ug/m3	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:04:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:04:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Freon 11	4.2	0.86		ug/m3	1	10/31/2011 1:04:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	9.9	1.9		ug/m3	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:04:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:04:00 PM
Toluene	1.3	0.57		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Trichloroethene	0.87	0.82		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103106.D Vial: 21
Acq On : 31 Oct 2011 1:04 pm Operator: RJP
Sample : C1110054-007A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 13:24:55 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	20893	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	55496	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	54504	1.00	ppb		0.01
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	25519	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	38312	0.48	ppb		99
13) Freon 11	4.12	101	35432	0.74	ppb		96
14) Acetone	4.30	58	42822	7.04	ppb	#	72
15) Isopropyl alcohol	4.41	45	52798	3.31	ppb		100
41) Trichloroethene	10.67	130	5935	0.16	ppb		97
48) Toluene	12.93	92	11516	0.34	ppb		92
56) m&p-xylene	15.34	91	7320	0.13	ppb		95
65) 1,2,4-trimethylbenzene	17.45	105	6420	0.13	ppb		92

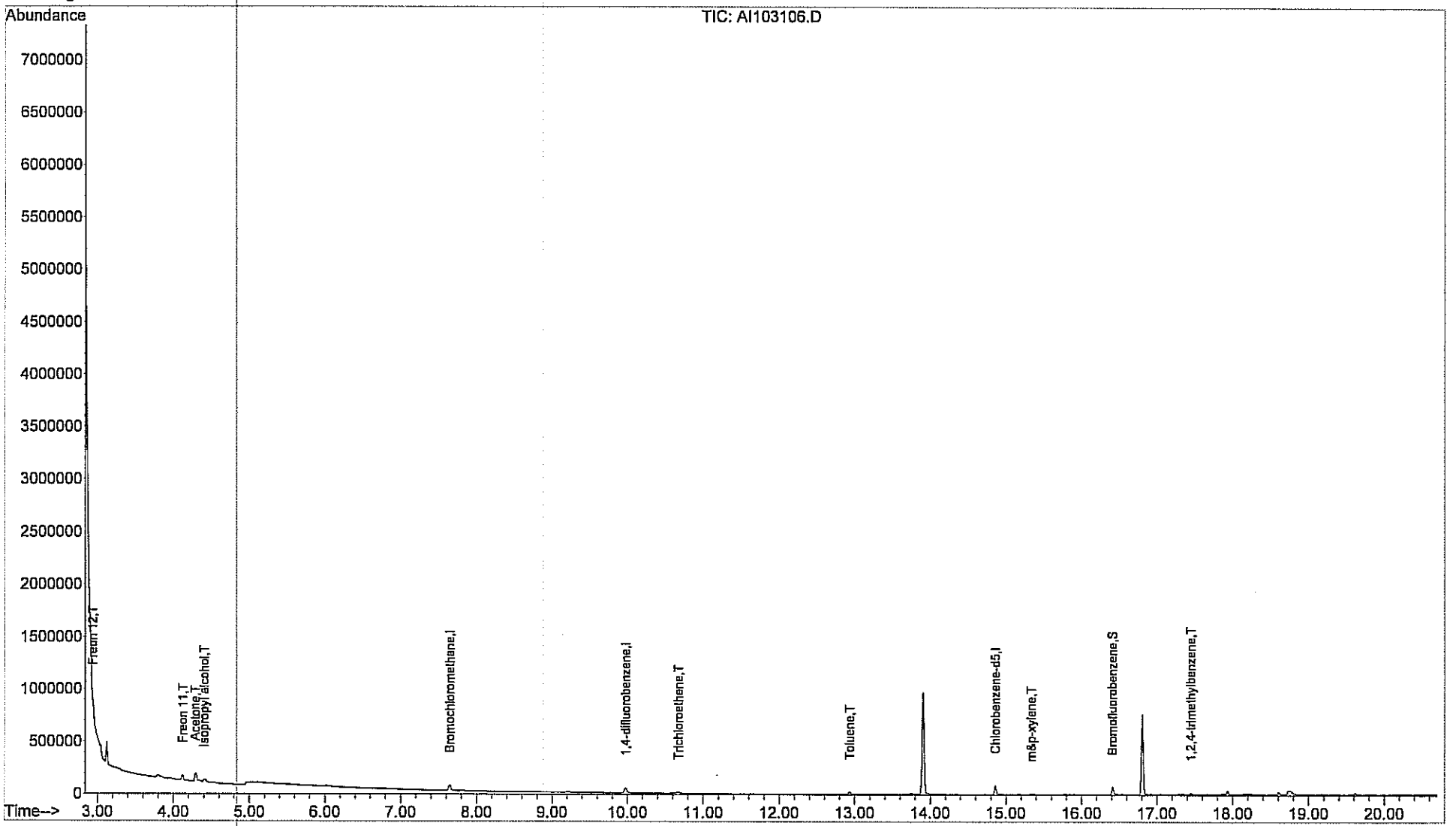
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103106.D
Acq On : 31 Oct 2011 1:04 pm
Sample : C1110054-007A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:07 2011

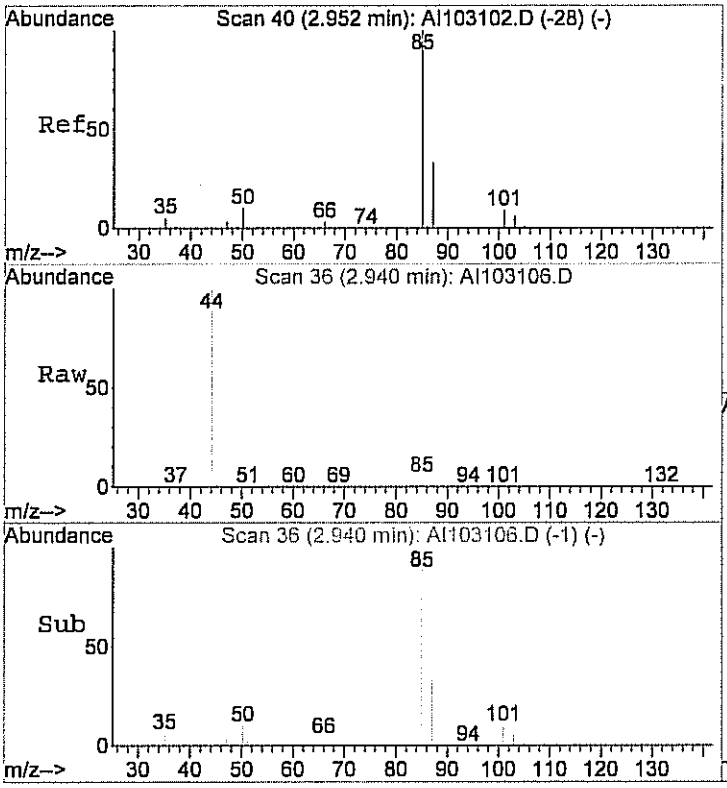
Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI103106.D AO30_1UG.M Mon Nov 21 08:57:09 2011 MSD1 Page 2

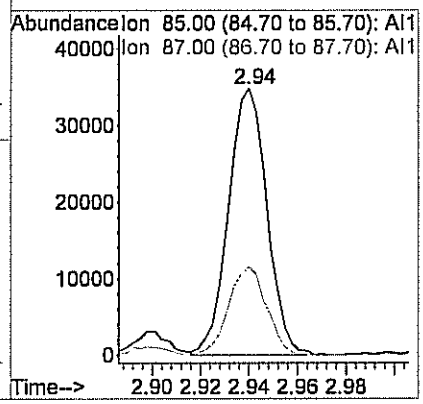
Centek laboratories, LLC

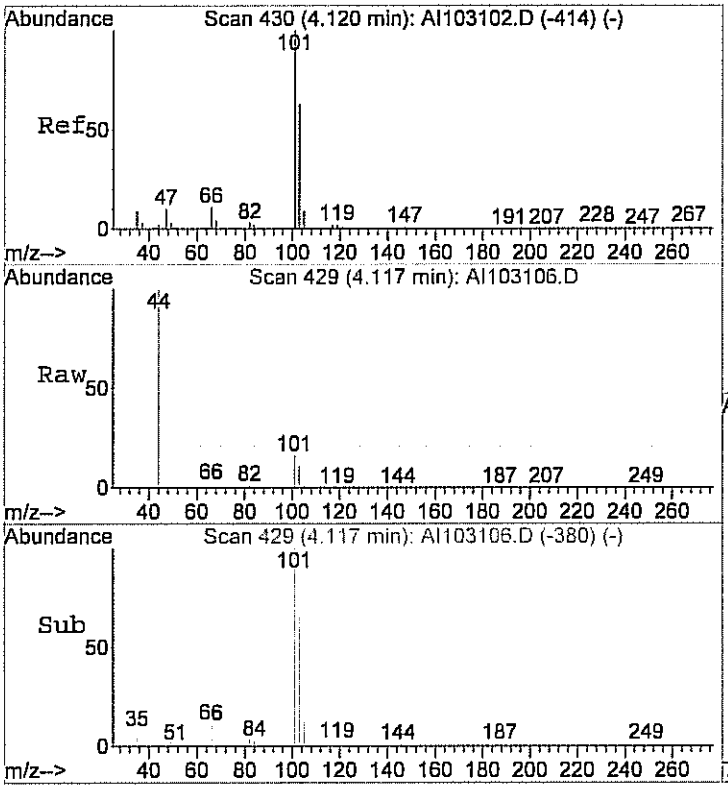


#3
Freon 12
Concen: 0.48 ppb
RT: 2.94 min Scan# 36
Delta R.T. -0.01 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion: 85 Resp: 38312

Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.2	52.2

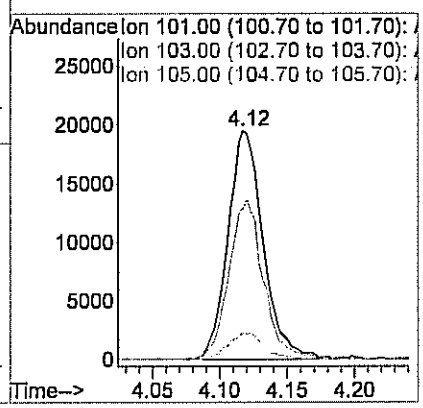


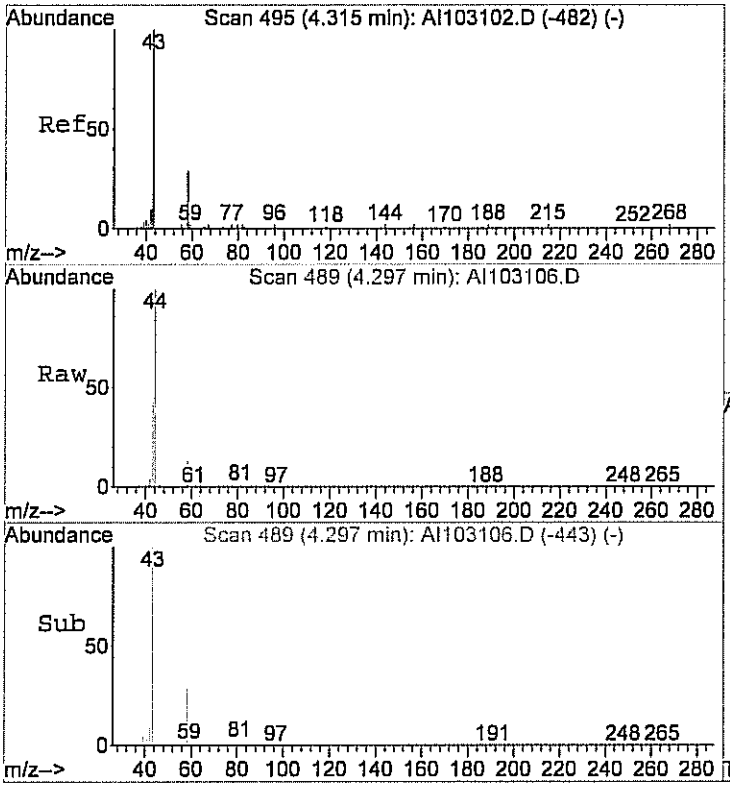


#13
Freon 11
Concen: 0.74 ppb
RT: 4.12 min Scan# 429
Delta R.T. -0.00 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion:101 Resp: 35432

Ion	Ratio	Lower	Upper
101	100		
103	68.6	44.9	84.9
105	11.8	0.0	30.9

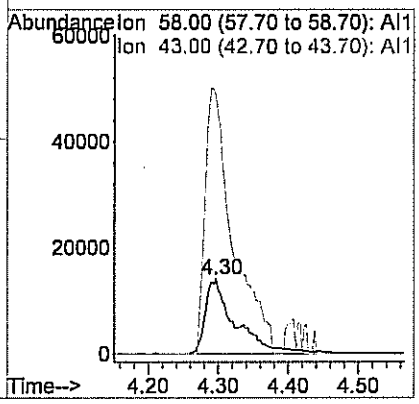


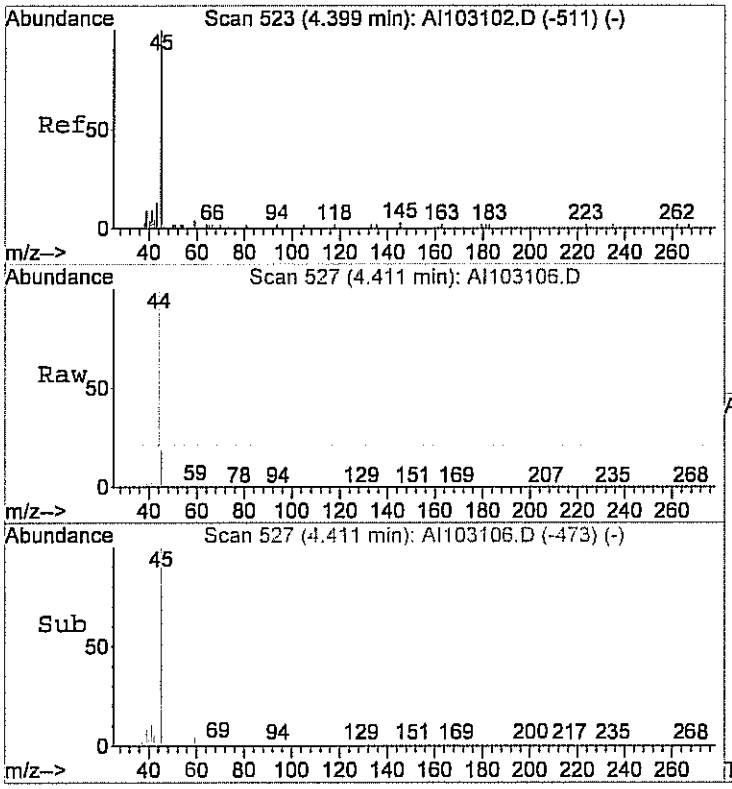


#14
Acetone
Concen: 7.04 ppb
RT: 4.30 min Scan# 489
Delta R.T. -0.01 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion: 58 Resp: 42822

Ion	Ratio	Lower	Upper
58	100		
43	324.9	360.8	420.8#

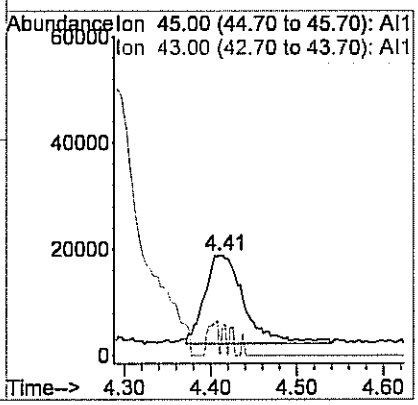


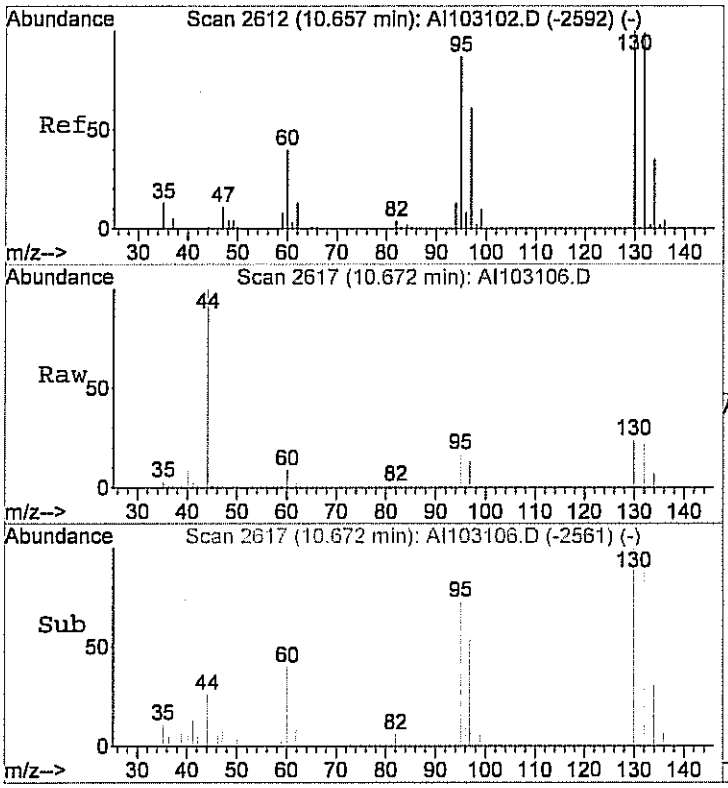


#15
Isopropyl alcohol
Concen: 3.31 ppb
RT: 4.41 min Scan# 527
Delta R.T. 0.01 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion: 45 Resp: 52798

Ion	Ratio	Lower	Upper
45	100		
43	9.7	0.0	20.0

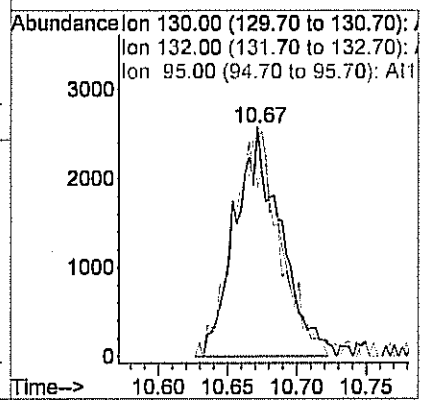


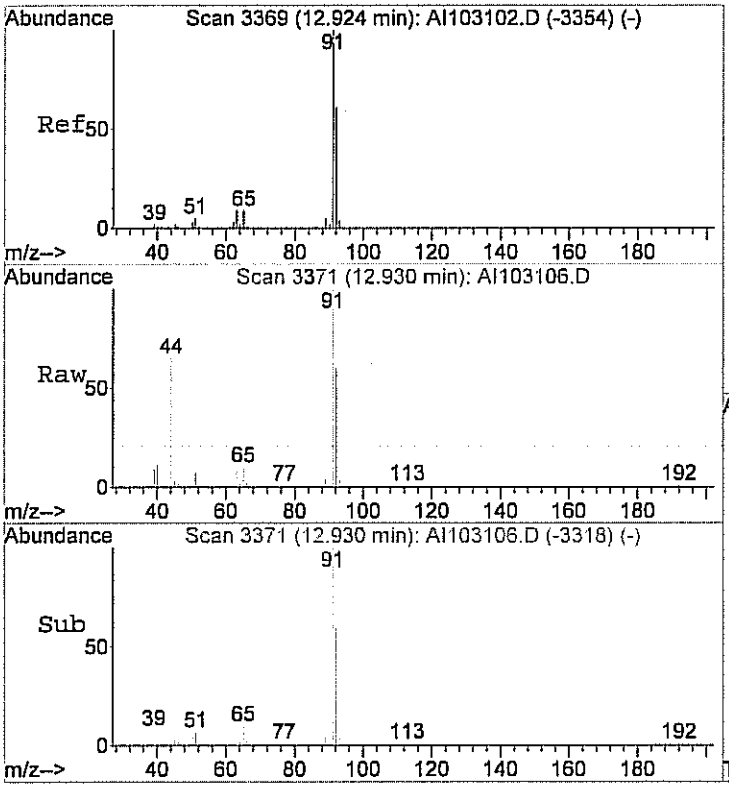


#41
Trichloroethene
Concen: 0.16 ppb
RT: 10.67 min Scan# 2617
Delta R.T. 0.02 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion:130 Resp: 5935

Ion	Ratio	Lower	Upper
130	100		
132	101.9	79.0	119.0
95	93.9	76.8	116.8

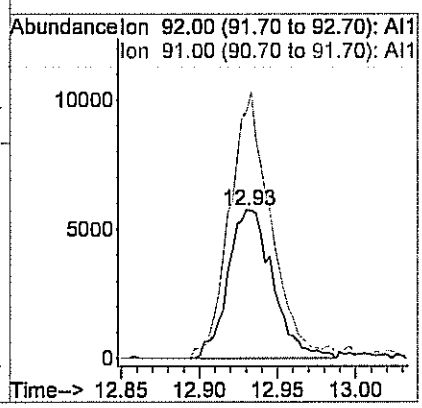


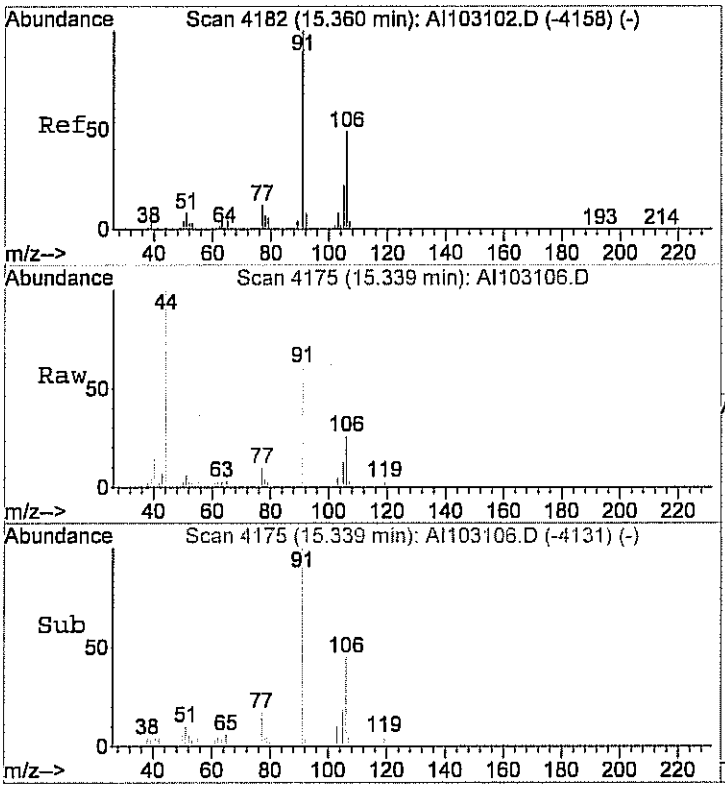


#48
Toluene
Concen: 0.34 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion: 92 Resp: 11516

Ion	Ratio	Lower	Upper
92	100		
91	168.5	159.8	199.8

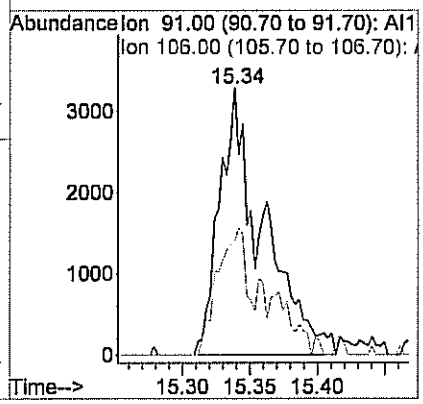


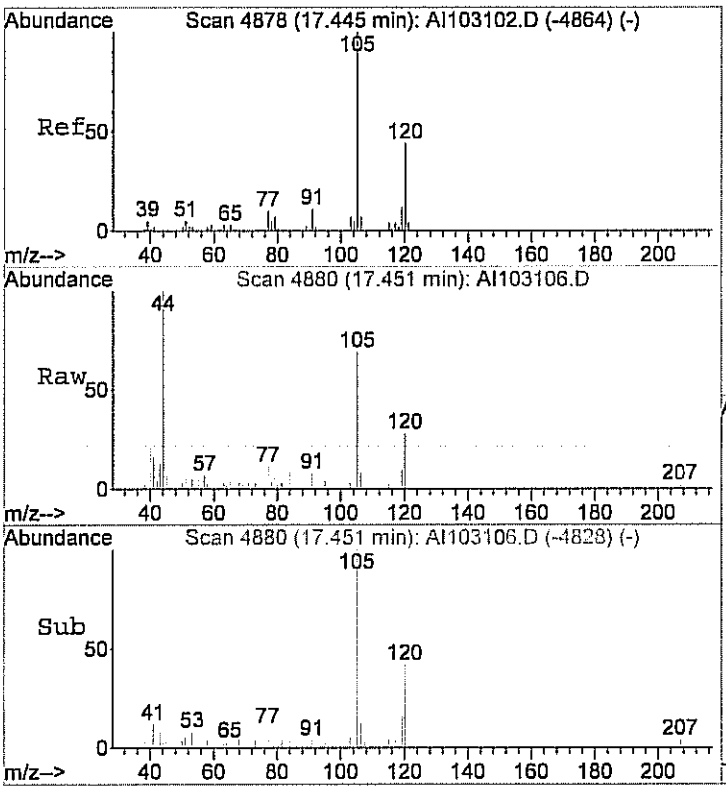


#56
m&p-xylene
Concen: 0.13 ppb
RT: 15.34 min Scan# 4175
Delta R.T. -0.02 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion: 91 Resp: 7320

Ion	Ratio	Lower	Upper
91	100		
106	50.5	27.5	67.5

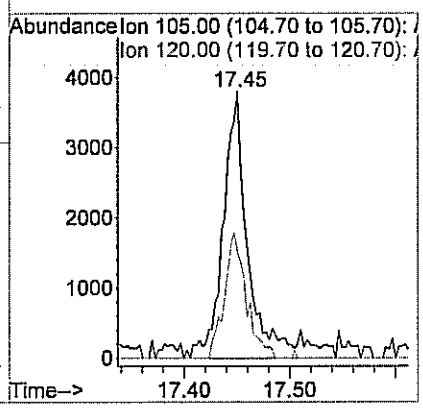




#65
1,2,4-trimethylbenzene
Concen: 0.13 ppb
RT: 17.45 min Scan# 4880
Delta R.T. 0.01 min
Lab File: AI103106.D
Acq: 31 Oct 2011 1:04 pm

Tgt Ion:105 Resp: 6420

Ion	Ratio	Lower	Upper
105	100		
120	39.8	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103112.D Vial: 21
Acq On : 31 Oct 2011 4:39 pm Operator: RJP
Sample : C1110054-007A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 17:00:18 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

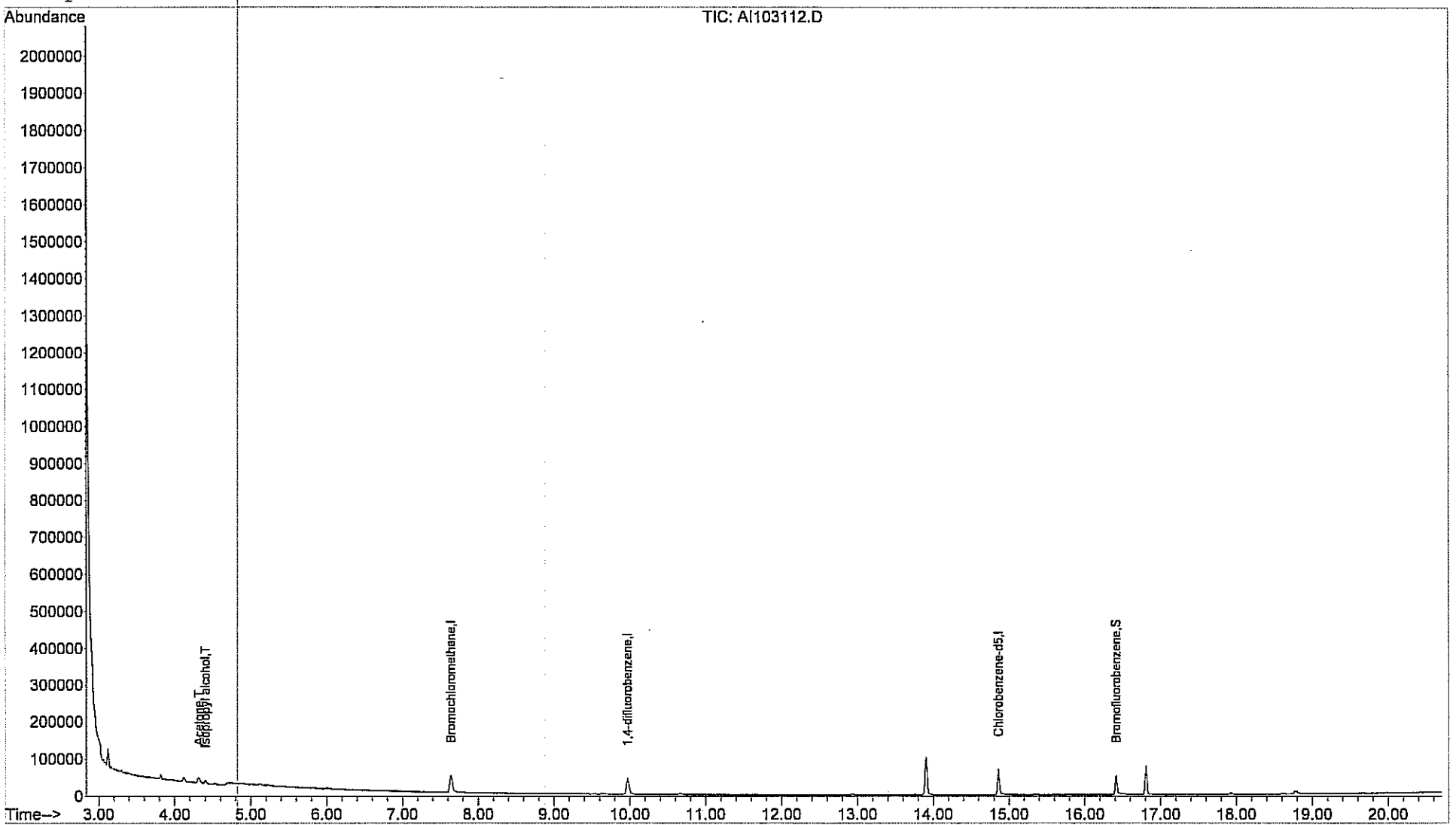
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.63	128	20060	1.00	ppb	0.00
32) 1,4-difluorobenzene	9.97	114	51231	1.00	ppb	0.00
47) Chlorobenzene-d5	14.86	117	46803	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	19180	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
14) Acetone	4.33	58	9090	1.56	ppb	# 61
15) Isopropyl alcohol	4.41	45	12122	0.79	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103112.D AO30_1UG.M Mon Nov 21 08:57:55 2011 MSD1 Page 1

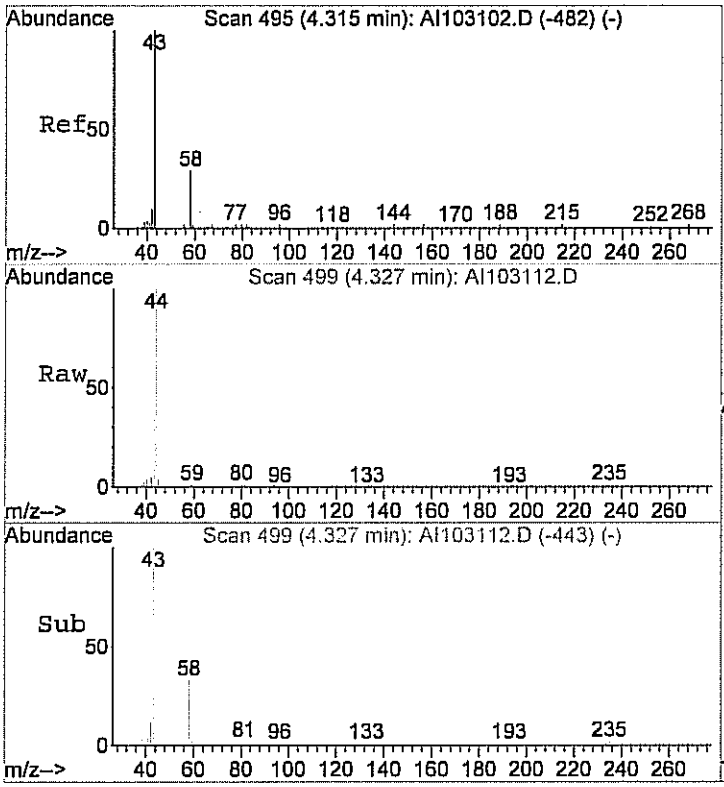
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103112.D Vial: 21
Acq On : 31 Oct 2011 4:39 pm Operator: RJP
Sample : C1110054-007A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 7:54 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



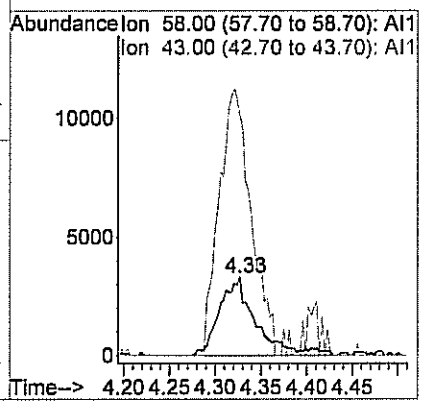
Centek laboratories, LLC

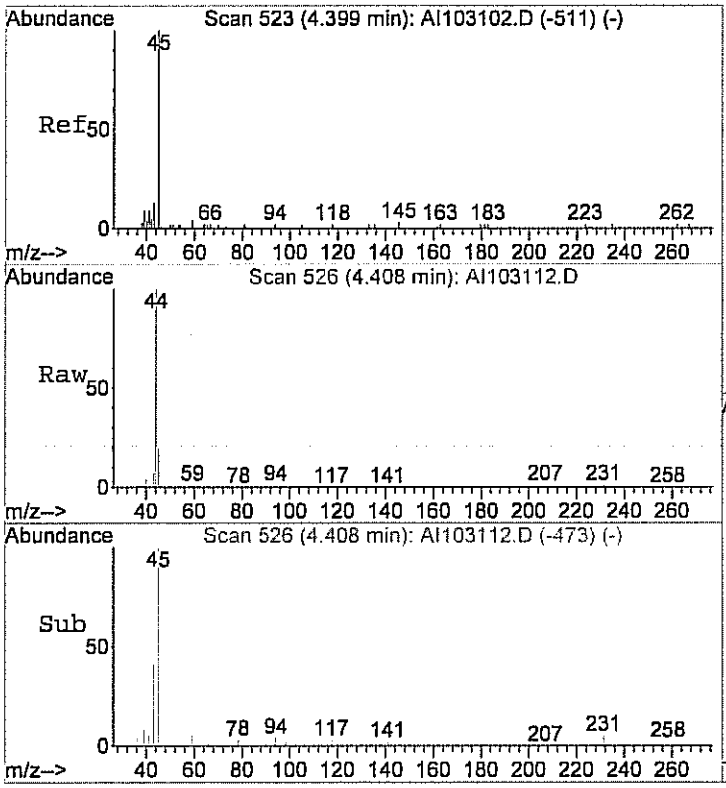


#14
Acetone
Concen: 1.56 ppb
RT: 4.33 min Scan# 499
Delta R.T. 0.02 min
Lab File: AI103112.D
Acq: 31 Oct 2011 4:39 pm

Tgt Ion: 58 Resp: 9090

Ion	Ratio	Lower	Upper
58	100		
43	300.0	360.8	420.8#

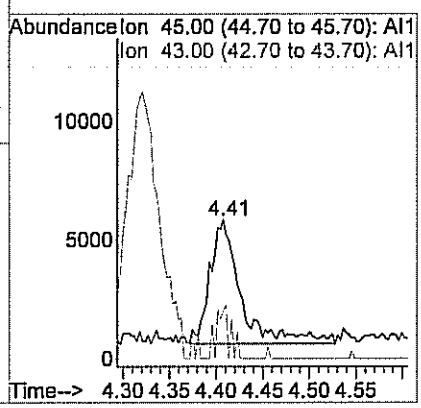




#15
Isopropyl alcohol
Concen: 0.79 ppb
RT: 4.41 min Scan# 526
Delta R.T. 0.01 min
Lab File: AI103112.D
Acq: 31 Oct 2011 4:39 pm

Tgt Ion: 45 Resp: 12122

Ion	Ratio	Lower	Upper
45	100		
43	18.0	0.0	20.0



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Acetone	2.8	1.5		ppbV	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloromethane	0.36	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.24	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 1:38:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	0.48	0.15		ppbV	1	10/31/2011 1:38:00 PM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Methylene chloride	0.16	0.15		ppbV	1	10/31/2011 1:38:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 1:38:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Toluene	0.92	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Trichloroethene	0.11	0.15	J	ppbV	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Acetone	6.8	3.6		ug/m3	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:38:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:38:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:38:00 PM
Chloromethane	0.76	0.31		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 1:38:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	10/31/2011 1:38:00 PM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:38:00 PM
Methylene chloride	0.56	0.53		ug/m3	1	10/31/2011 1:38:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:38:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:38:00 PM
Toluene	3.5	0.57		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Trichloroethene	0.60	0.82	J	ug/m3	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103107.D Vial: 22
Acq On : 31 Oct 2011 1:38 pm Operator: RJP
Sample : C1110054-008A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 13:58:48 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

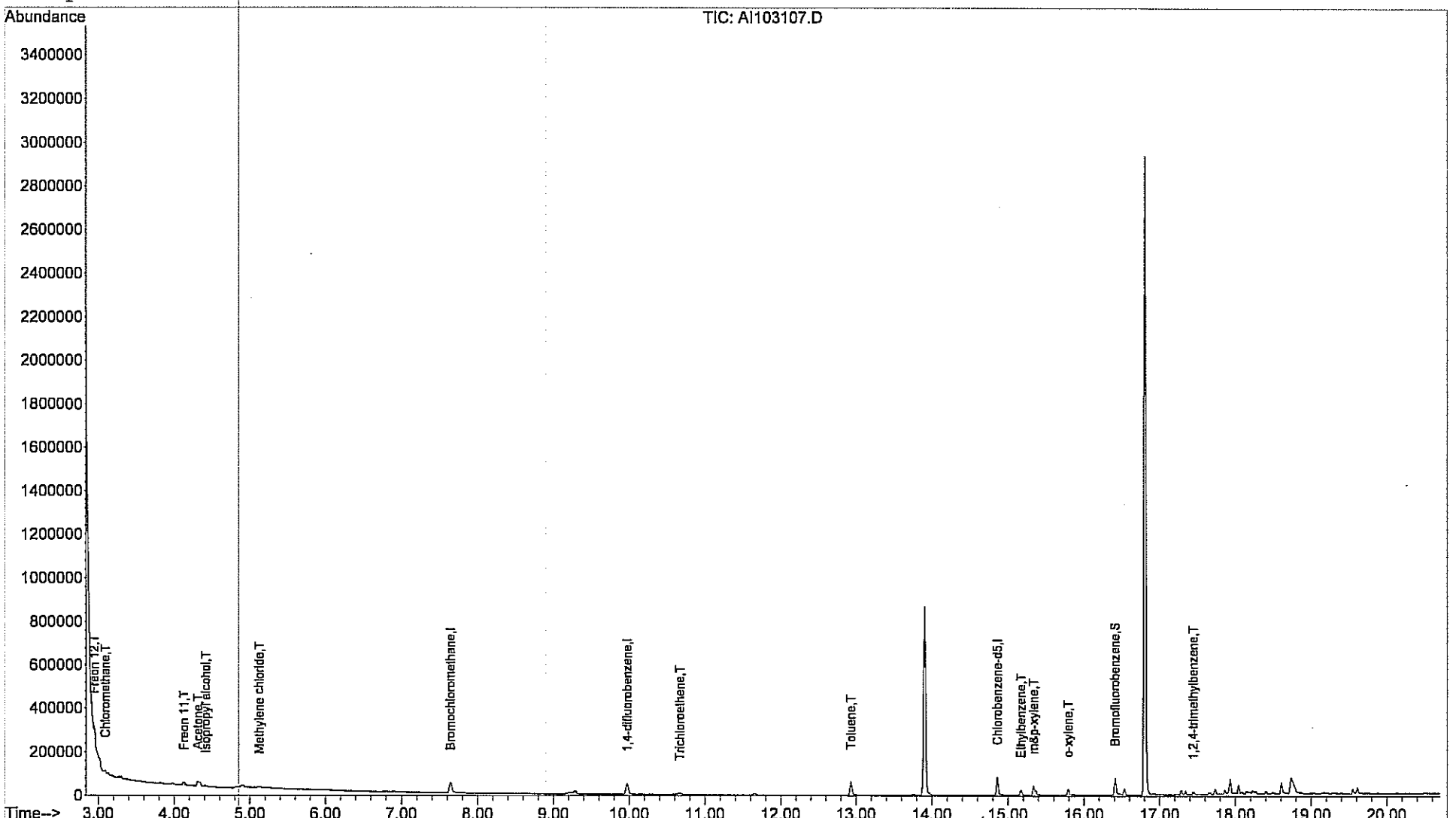
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	20771	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	57096	1.00	ppb		0.02
47) Chlorobenzene-d5	14.86	117	55642	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	27274	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
3) Freon 12	2.95	85	39860	0.50	ppb		99
4) Chloromethane	3.09	50	5441	0.36	ppb		82
13) Freon 11	4.12	101	10940	0.23	ppb		94
14) Acetone	4.32	58	13647	2.26	ppb	#	66
15) Isopropyl alcohol	4.41	45	7656	0.48	ppb	#	100
18) Methylene chloride	5.13	84	3512	0.16	ppb	#	79
41) Trichloroethene	10.67	130	4185	0.11	ppb		92
48) Toluene	12.93	92	31672	0.92	ppb		89
55) Ethylbenzene	15.17	91	16752	0.24	ppb		97
56) m&p-xylene	15.34	91	35395	0.62	ppb		95
59) o-xylene	15.79	91	16412	0.22	ppb		99
65) 1,2,4-trimethylbenzene	17.44	105	5933	0.12	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

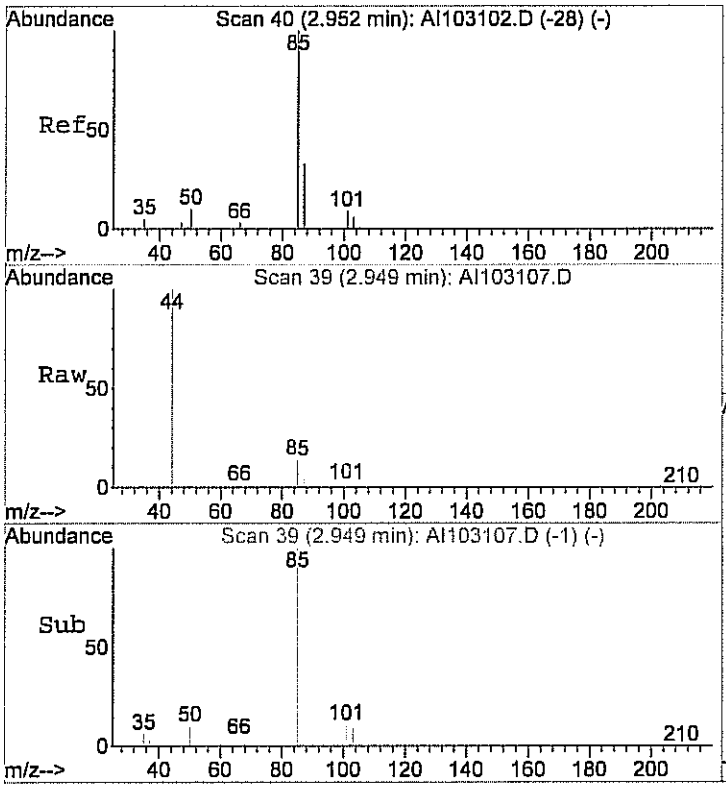
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103107.D Vial: 22
Acq On : 31 Oct 2011 1:38 pm Operator: RJP
Sample : C1110054-008A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:07 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



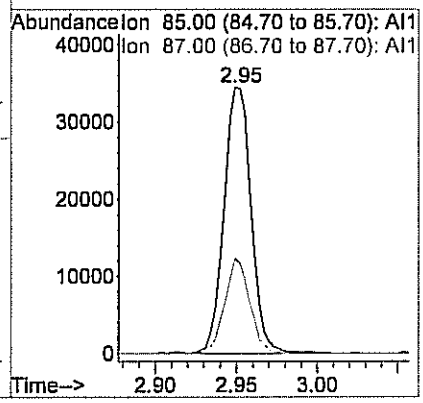
Centek laboratories, LLC

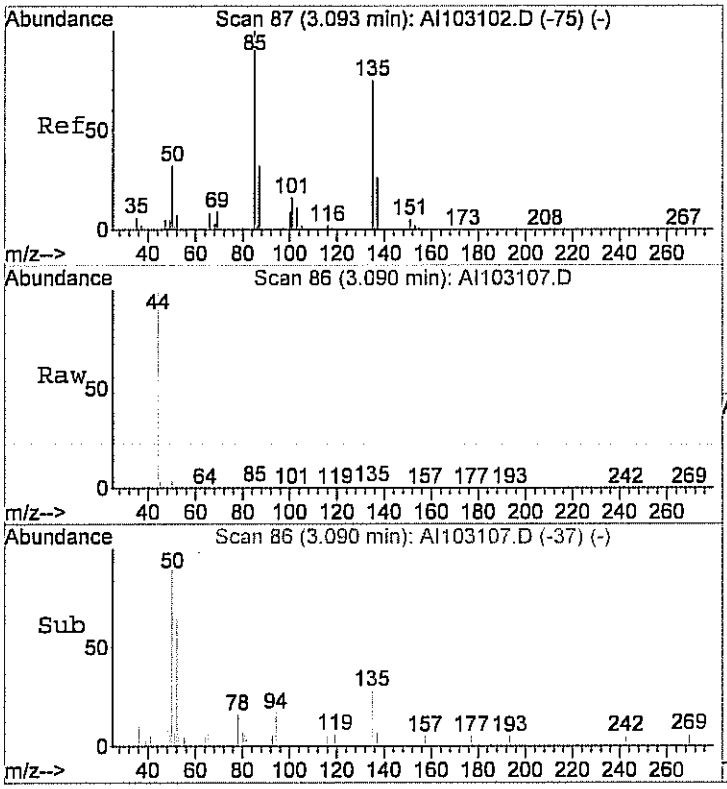


#3
Freon 12
Concen: 0.50 ppb
RT: 2.95 min Scan# 39
Delta R.T. -0.00 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 85 Resp: 39860

Ion	Ratio	Lower	Upper
85	100		
87	32.7	12.2	52.2

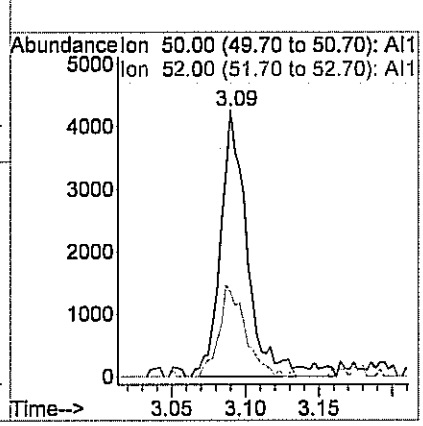


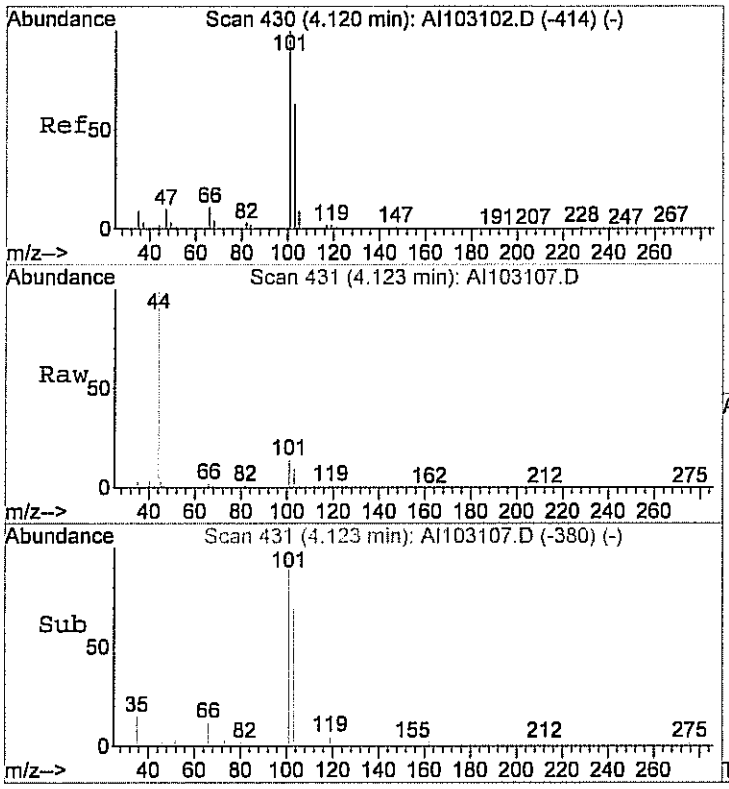


#4
Chloromethane
Concen: 0.36 ppb
RT: 3.09 min Scan# 86
Delta R.T. -0.00 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 50 Resp: 5441

Ion	Ratio	Lower	Upper
50	100		
52	33.1	4.1	44.1

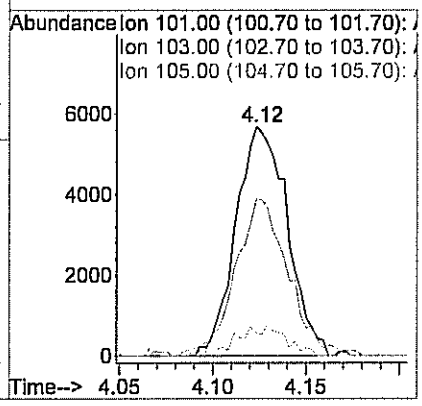


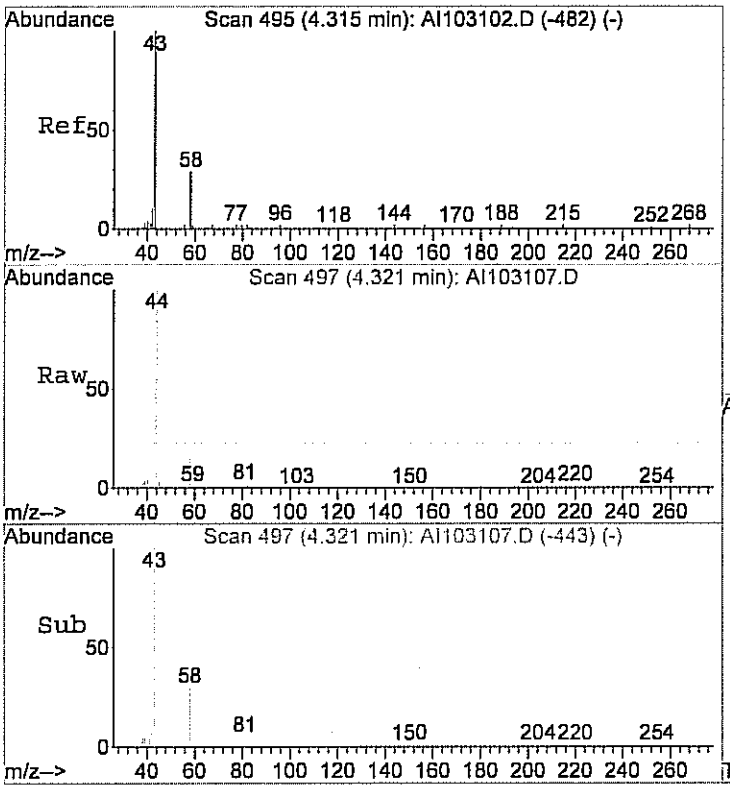


#13
Freon 11
Concen: 0.23 ppb
RT: 4.12 min Scan# 431
Delta R.T. 0.00 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion:101 Resp: 10940

Ion	Ratio	Lower	Upper
101	100		
103	70.0	44.9	84.9
105	12.0	0.0	30.9

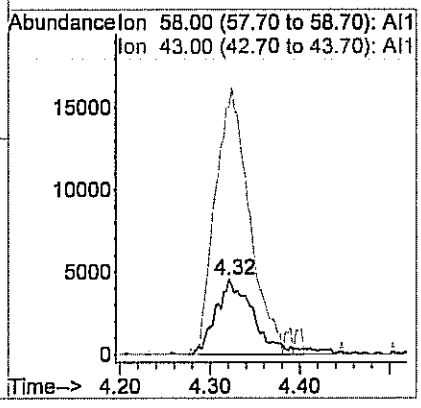


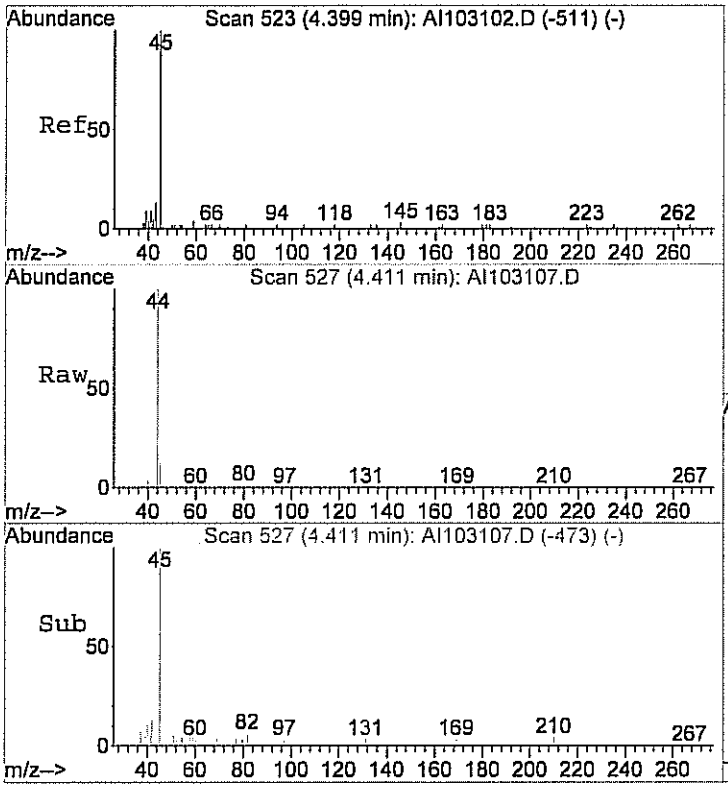


#14
Acetone
Concen: 2.26 ppb
RT: 4.32 min Scan# 497
Delta R.T. 0.01 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 58 Resp: 13647

Ion	Ratio	Lower	Upper
58	100		
43	311.8	360.8	420.8#

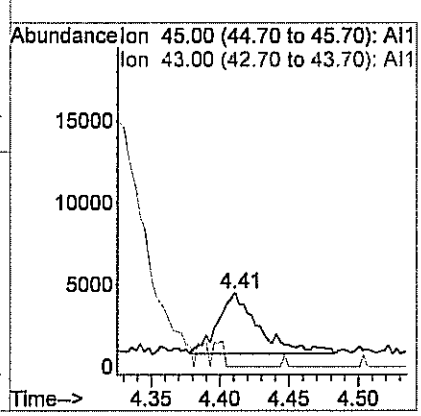


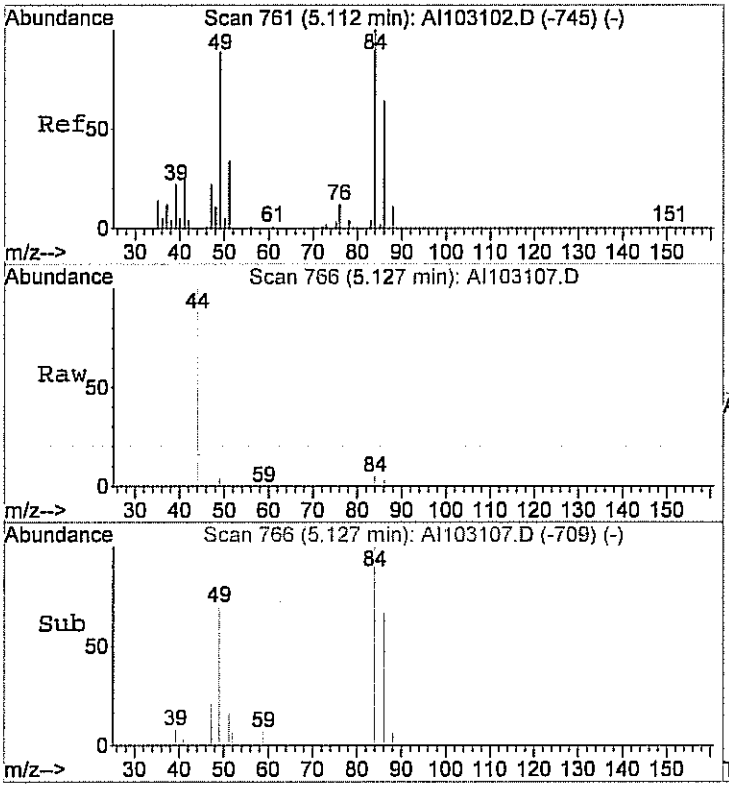


#15
Isopropyl alcohol
Concen: 0.48 ppb
RT: 4.41 min Scan# 527
Delta R.T. 0.01 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 45 Resp: 7656

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

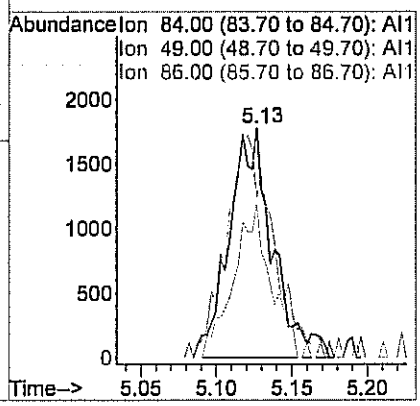


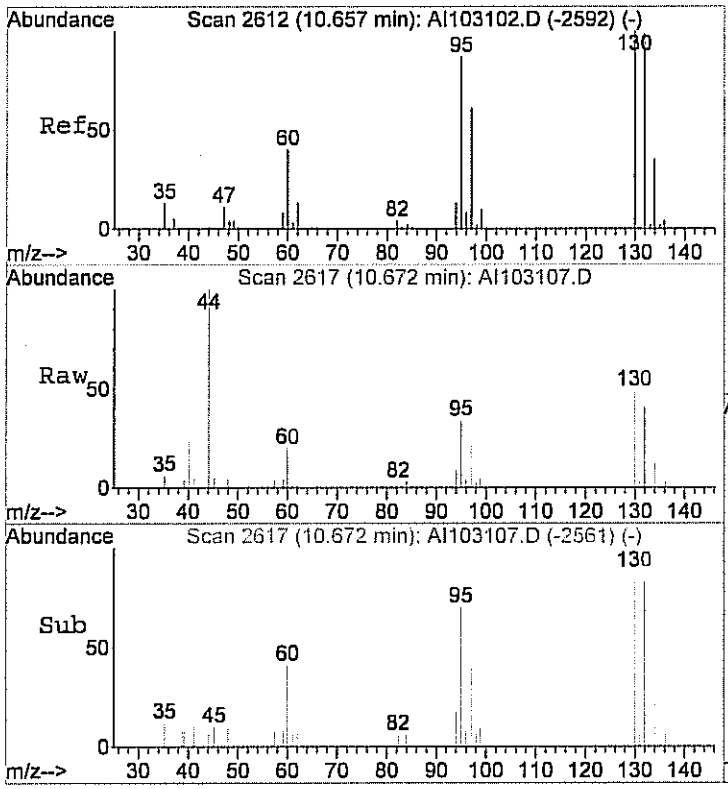


#18
Methylene chloride
Concen: 0.16 ppb
RT: 5.13 min Scan# 766
Delta R.T. 0.02 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 84 Resp: 3512

Ion	Ratio	Lower	Upper
84	100		
49	106.3	116.9	156.9#
86	57.2	46.7	86.7

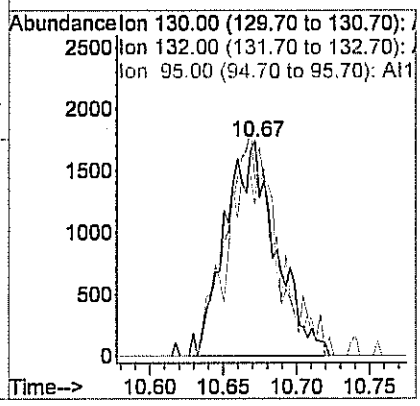


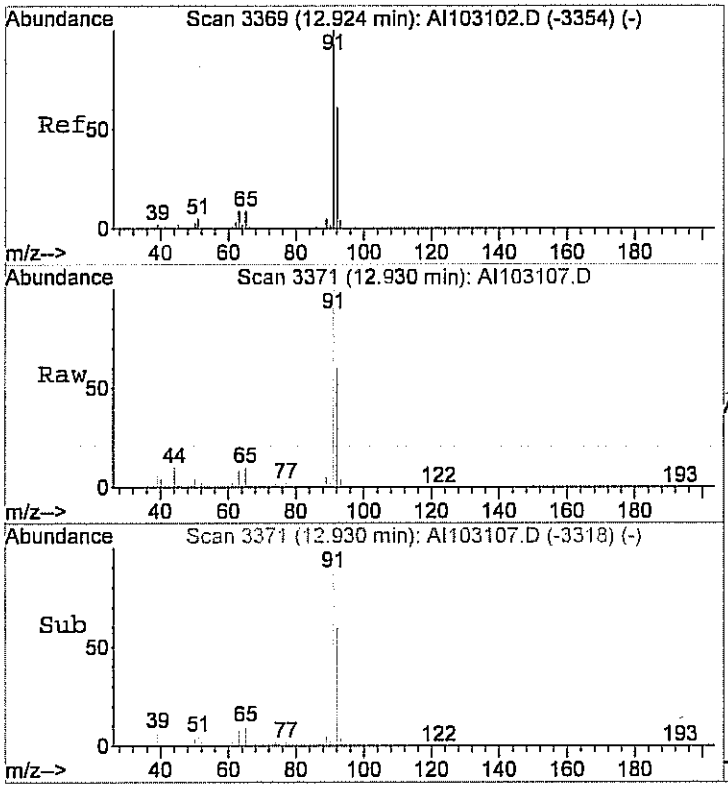


#41
Trichloroethene
Concen: 0.11 ppb
RT: 10.67 min Scan# 2617
Delta R.T. 0.02 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion:130 Resp: 4185

Ion	Ratio	Lower	Upper
130	100		
132	98.7	79.0	119.0
95	80.8	76.8	116.8

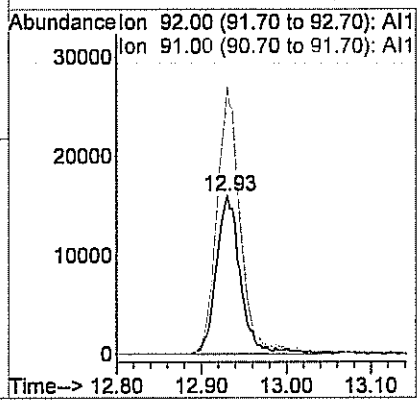


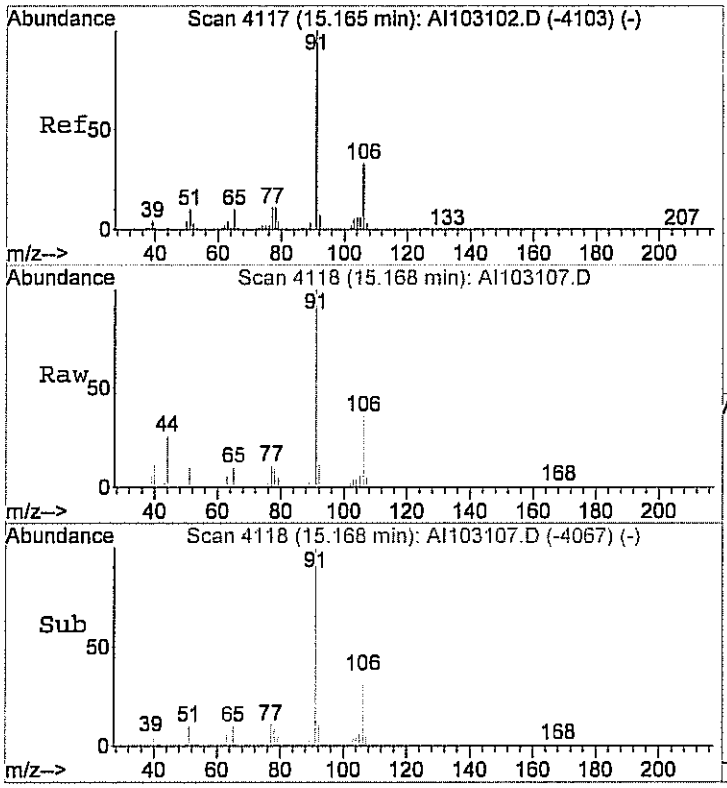


#48
Toluene
Concen: 0.92 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 92 Resp: 31672

Ion	Ratio	Lower	Upper
92	100		
91	163.7	159.8	199.8

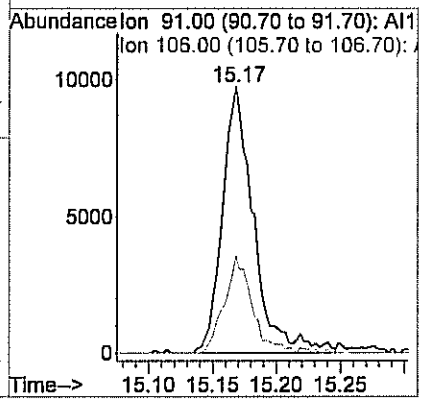


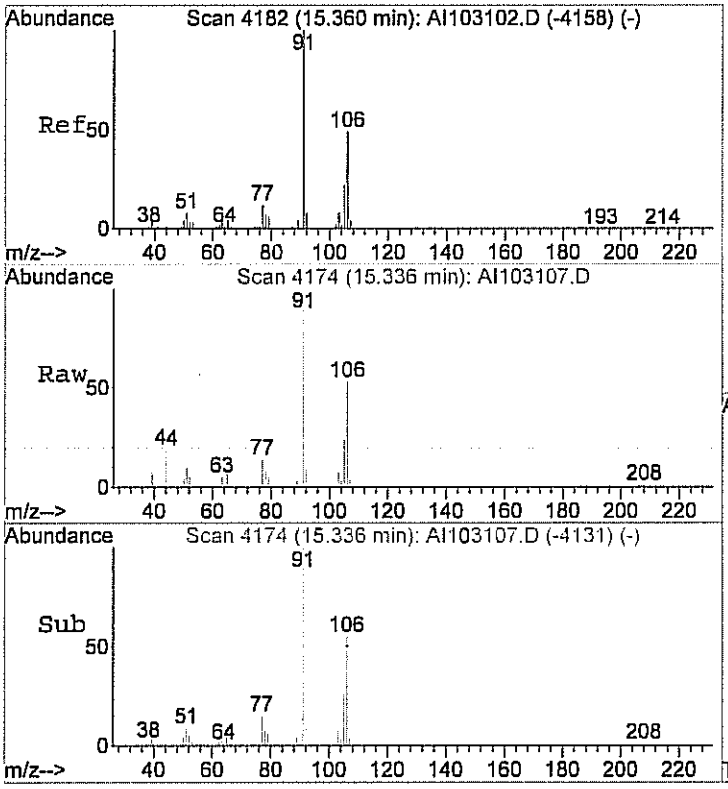


#55
Ethylbenzene
Concen: 0.24 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 91 Resp: 16752

Ion	Ratio	Lower	Upper
91	100		
106	32.3	10.7	50.7

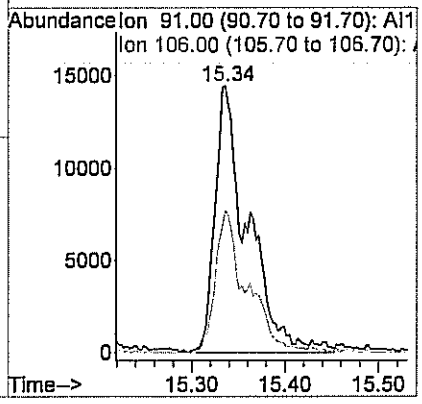


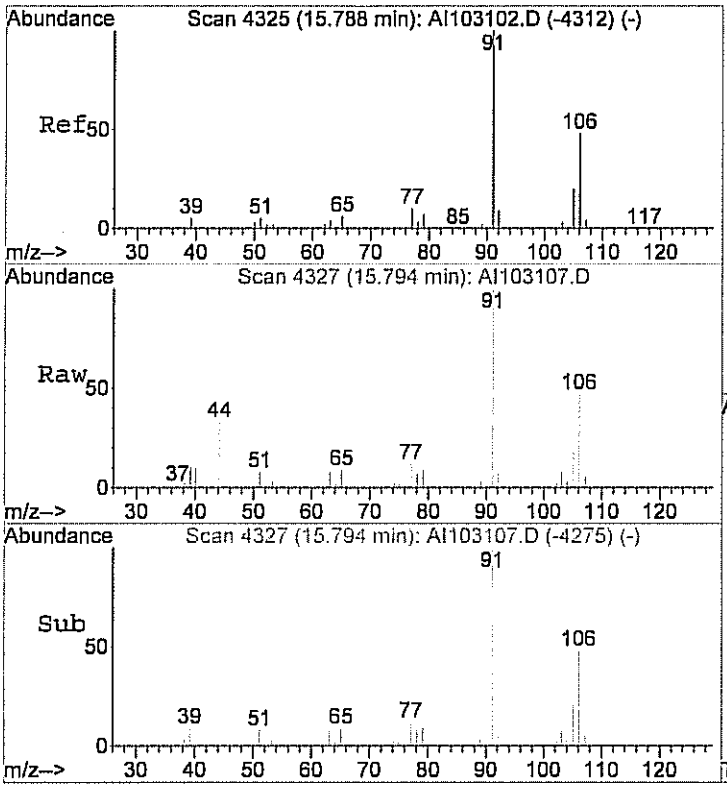


#56
m&p-xylene
Concen: 0.62 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 91 Resp: 35395

Ion	Ratio	Lower	Upper
91	100		
106	50.9	27.5	67.5

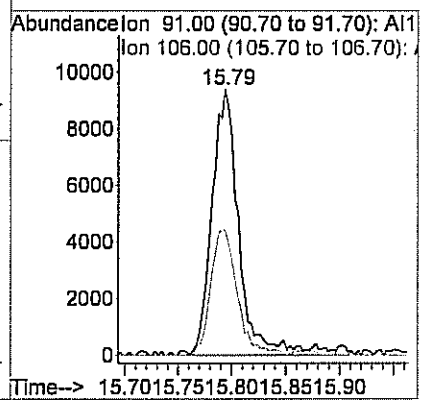


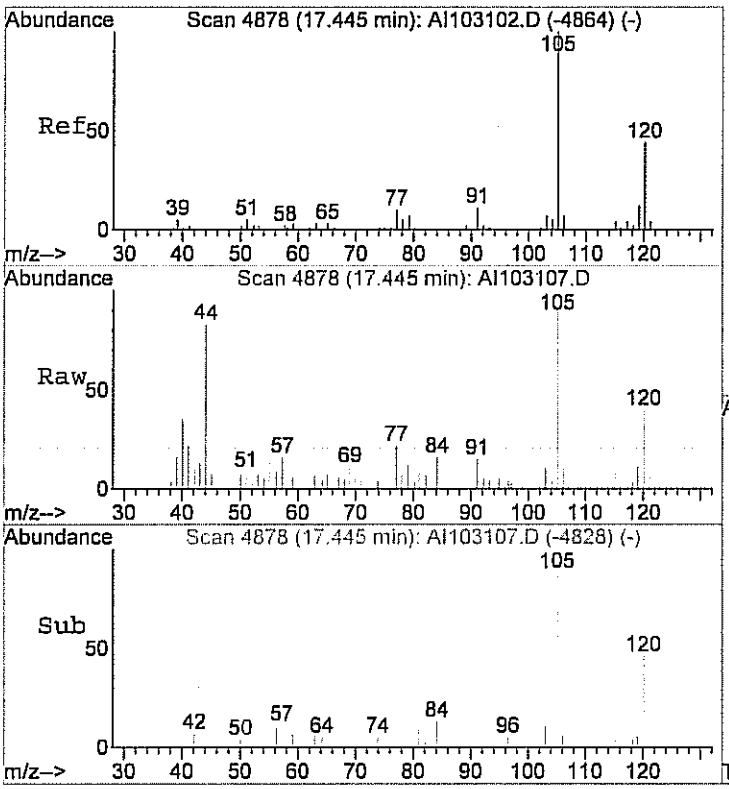


#59
o-xylene
Concen: 0.22 ppb
RT: 15.79 min Scan# 4327
Delta R.T. 0.01 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion: 91 Resp: 16412

Ion	Ratio	Lower	Upper
91	100		
106	45.8	26.2	66.2

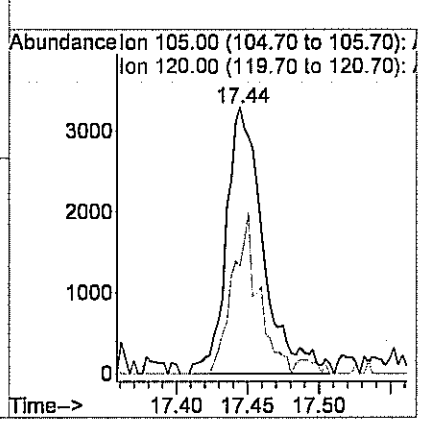




#65
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 17.44 min Scan# 4878
Delta R.T. 0.00 min
Lab File: AI103107.D
Acq: 31 Oct 2011 1:38 pm

Tgt Ion:105 Resp: 5933

Ion	Ratio	Lower	Upper
105	100		
120	42.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103113.D Vial: 22
Acq On : 31 Oct 2011 5:11 pm Operator: RJP
Sample : C1110054-008A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 17:32:12 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

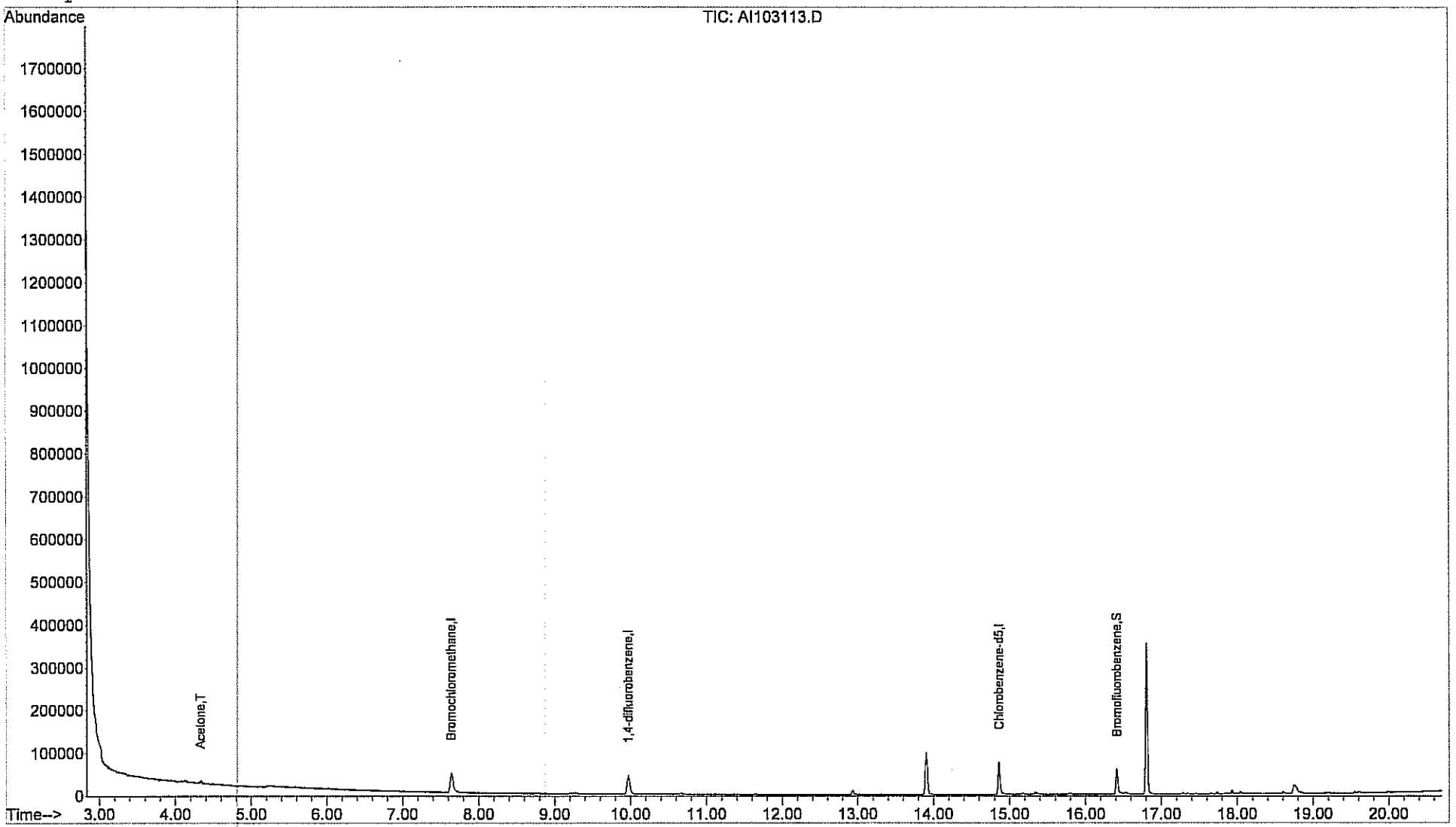
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	20790	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	53525	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	50972	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	22222	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue
14) Acetone	4.33	58	3417	0.56	ppb	# 36

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103113.D AO30_1UG.M Mon Nov 21 08:57:58 2011 MSD1 Page 1

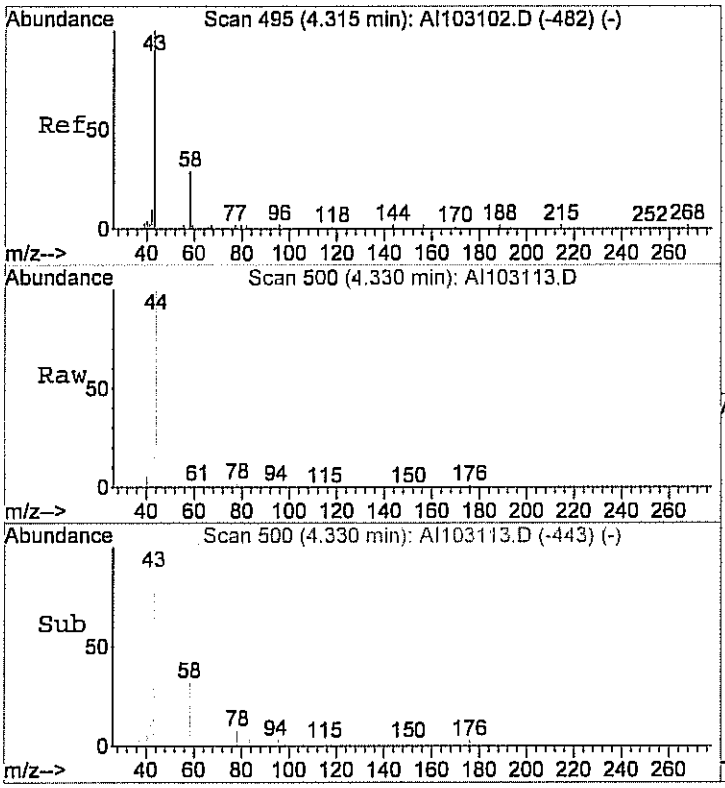
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103113.D Vial: 22
Acq On : 31 Oct 2011 5:11 pm Operator: RJP
Sample : C1110054-008A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 7:55 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



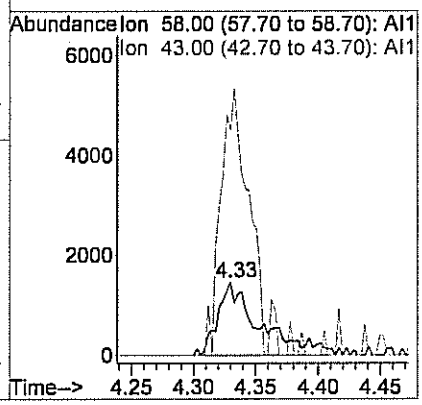
Centek laboratories, LLC



#14
Acetone
Concen: 0.56 ppb
RT: 4.33 min Scan# 500
Delta R.T. 0.02 min
Lab File: AI103113.D
Acq: 31 Oct 2011 5:11 pm

Tgt Ion: 58 Resp: 3417

Ion	Ratio	Lower	Upper
58	100		
43	241.5	360.8	420.8#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Acetone	12	1.5		ppbV	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzene	0.42	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroform	0.11	0.15	J	ppbV	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 2:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	14	0.75		ppbV	5	10/31/2011 5:43:00 PM
m&p-Xylene	0.66	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
o-Xylene	0.20	0.15		ppbV	1	10/31/2011 2:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Styrene	0.19	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Trichloroethene	0.18	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	10/31/2011 2:11:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.85	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Acetone	30	3.6		ug/m3	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:11:00 PM
Benzene	1.4	0.49		ug/m3	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:11:00 PM
Chloroform	0.55	0.74	J	ug/m3	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:11:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	35	1.9		ug/m3	5	10/31/2011 5:43:00 PM
m&p-Xylene	2.9	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:11:00 PM
o-Xylene	0.88	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:11:00 PM
Styrene	0.82	0.65		ug/m3	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:11:00 PM
Toluene	3.9	0.57		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Trichloroethene	0.98	0.82		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103108.D Vial: 23
Acq On : 31 Oct 2011 2:11 pm Operator: RJP
Sample : C1110054-009A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 14:31:51 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

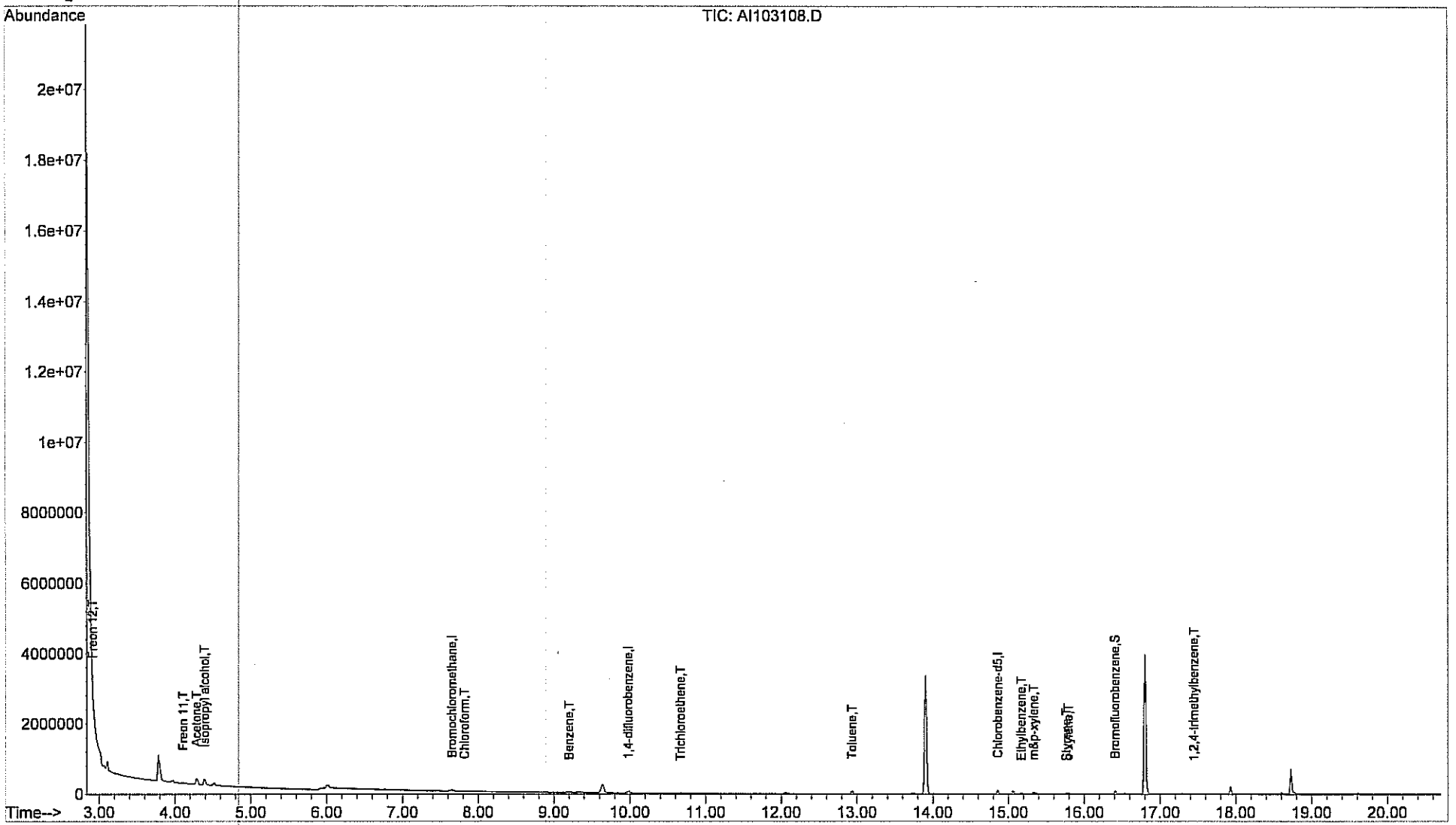
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	21536	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.98	114	59662	1.00	ppb		0.02
47) Chlorobenzene-d5	14.86	117	61805	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	29245	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	36553	0.44	ppb		100
13) Freon 11	4.11	101	11331	0.23	ppb		99
14) Acetone	4.28	58	70724	11.28	ppb	#	65
15) Isopropyl alcohol	4.39	45	235696	14.32	ppb	#	100
29) Chloroform	7.83	83	6979	0.11	ppb		98
36) Benzene	9.19	78	23507	0.42	ppb		92
41) Trichloroethene	10.67	130	6814	0.18	ppb		96
48) Toluene	12.94	92	38429	1.01	ppb		91
55) Ethylbenzene	15.17	91	22685	0.30	ppb		98
56) m&p-xylene	15.33	91	41818	0.66	ppb		98
57) Styrene	15.77	104	7619	0.19	ppb		98
59) o-xylene	15.79	91	16378	0.20	ppb		98
65) 1,2,4-trimethylbenzene	17.44	105	9687	0.17	ppb		100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

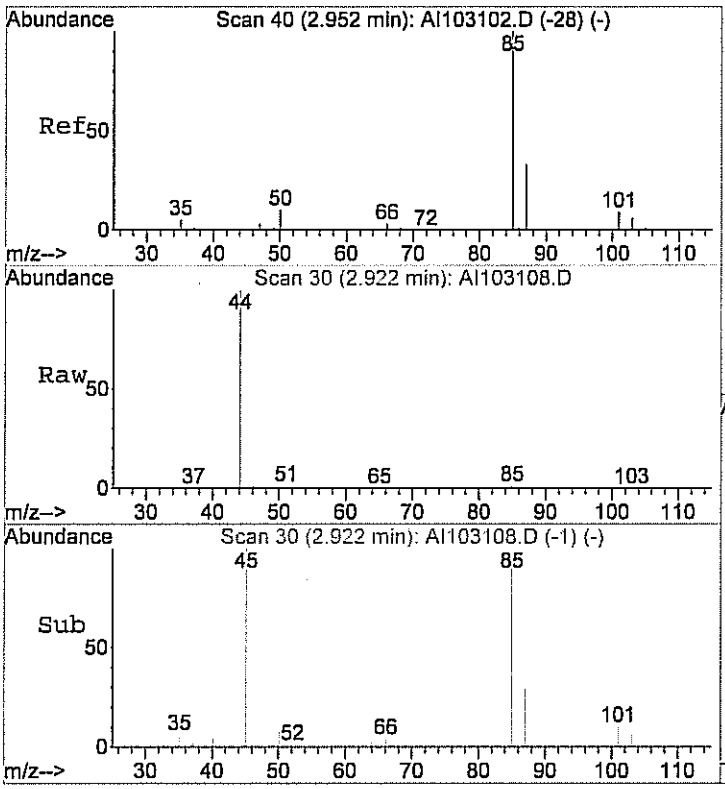
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103108.D Vial: 23
Acq On : 31 Oct 2011 2:11 pm Operator: RJP
Sample : C1110054-009A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:09 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



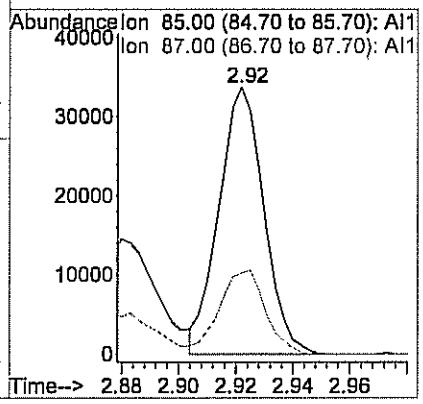
Centek laboratories, LLC

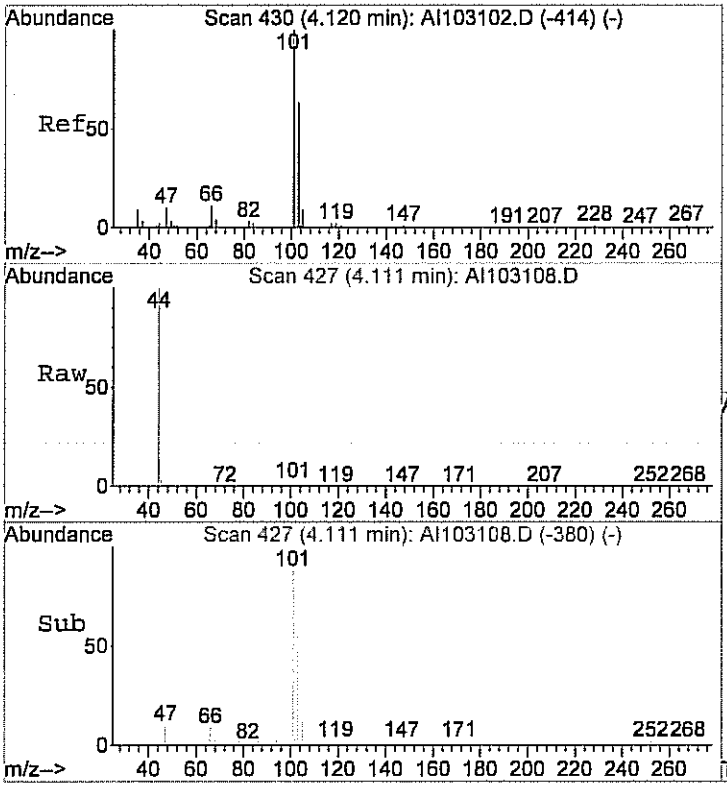


#3
Freon 12
Concen: 0.44 ppb
RT: 2.92 min Scan# 30
Delta R.T. -0.03 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 85 Resp: 36553

Ion	Ratio	Lower	Upper
85	100		
87	32.2	12.2	52.2

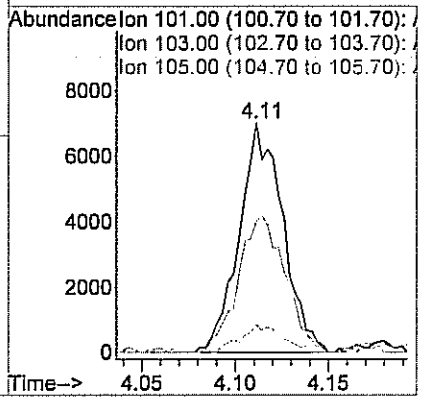


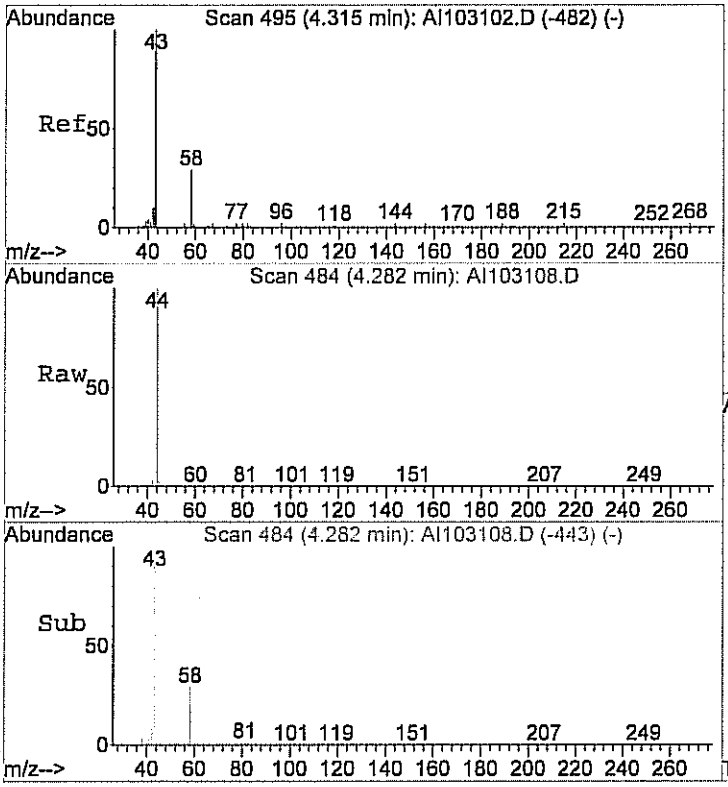


#13
Freon 11
Concen: 0.23 ppb
RT: 4.11 min Scan# 427
Delta R.T. -0.01 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion:101 Resp: 11331

Ion	Ratio	Lower	Upper
101	100		
103	64.6	44.9	84.9
105	11.5	0.0	30.9

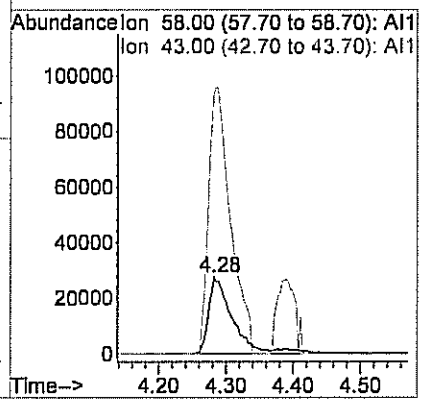


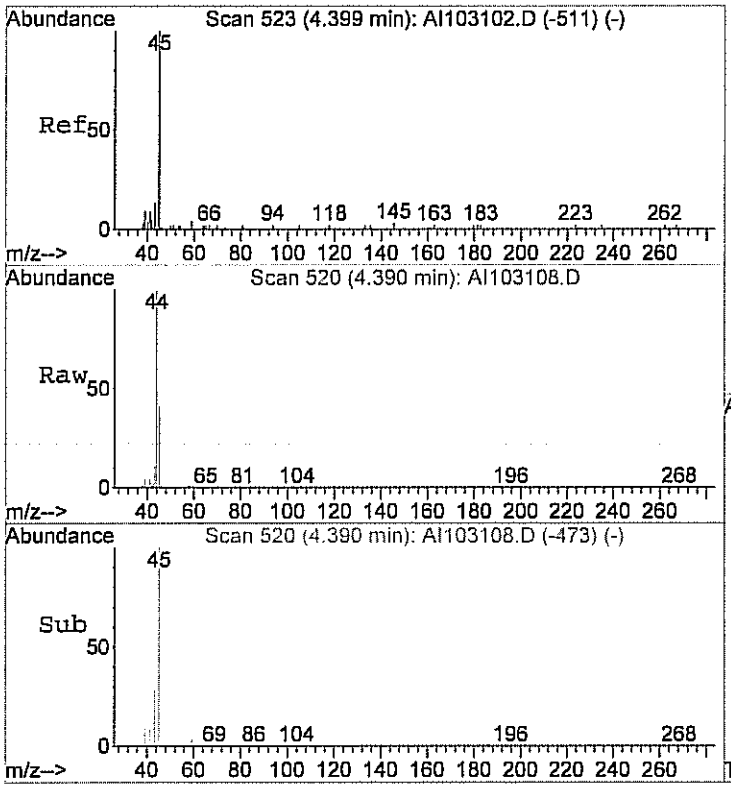


#14
Acetone
Concen: 11.28 ppb
RT: 4.28 min Scan# 484
Delta R.T. -0.03 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 58 Resp: 70724

Ion	Ratio	Lower	Upper
58	100		
43	309.4	360.8	420.8#

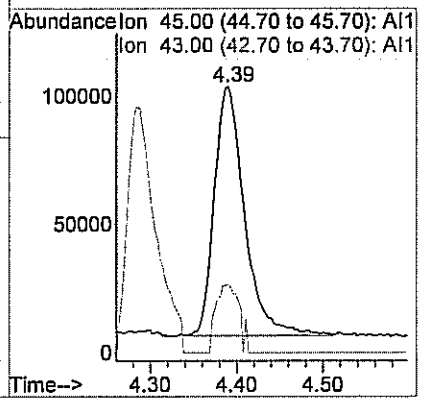


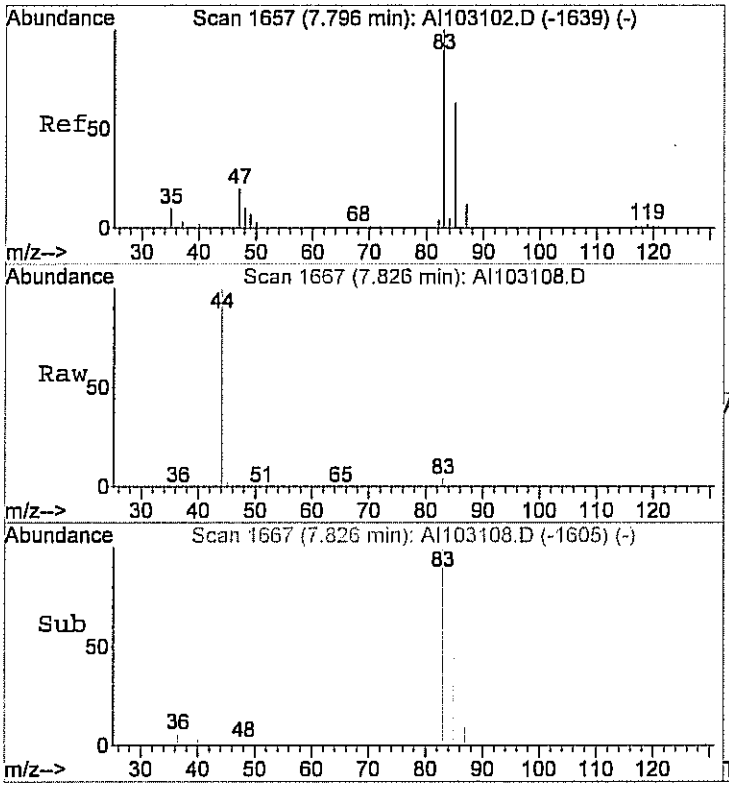


#15
Isopropyl alcohol
Concen: 14.32 ppb
RT: 4.39 min Scan# 520
Delta R.T. -0.01 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 45 Resp: 235696

Ion	Ratio	Lower	Upper
45	100		
43	20.9	0.0	20.0#

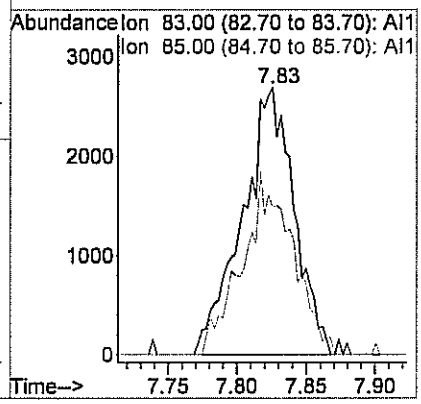


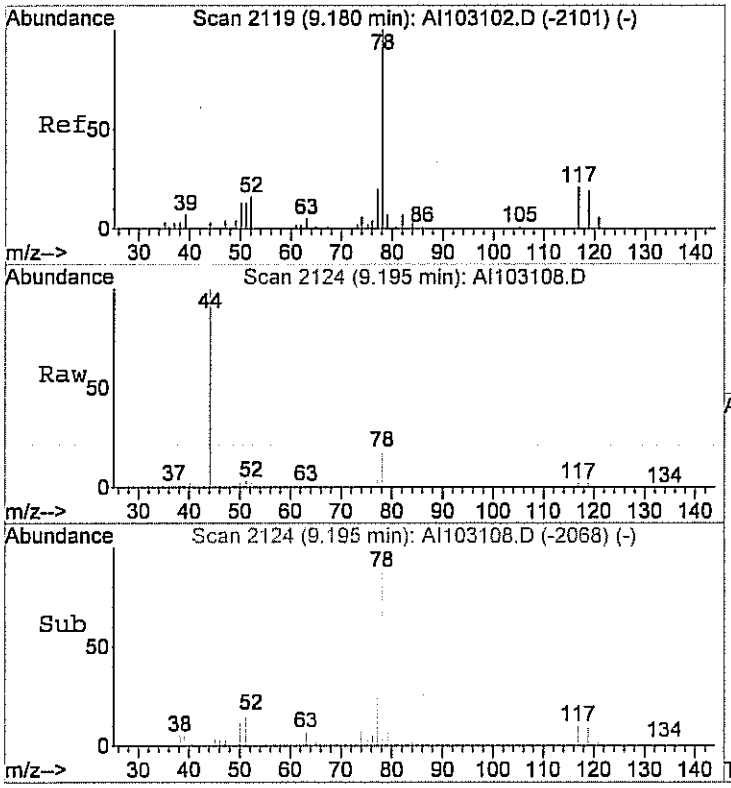


#29
Chloroform
Concen: 0.11 ppb
RT: 7.83 min Scan# 1667
Delta R.T. 0.04 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 83 Resp: 6979

Ion	Ratio	Lower	Upper
83	100		
85	66.7	45.0	85.0

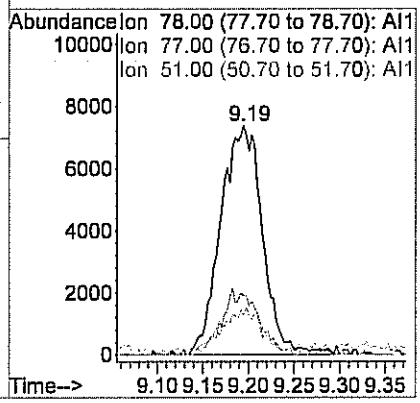


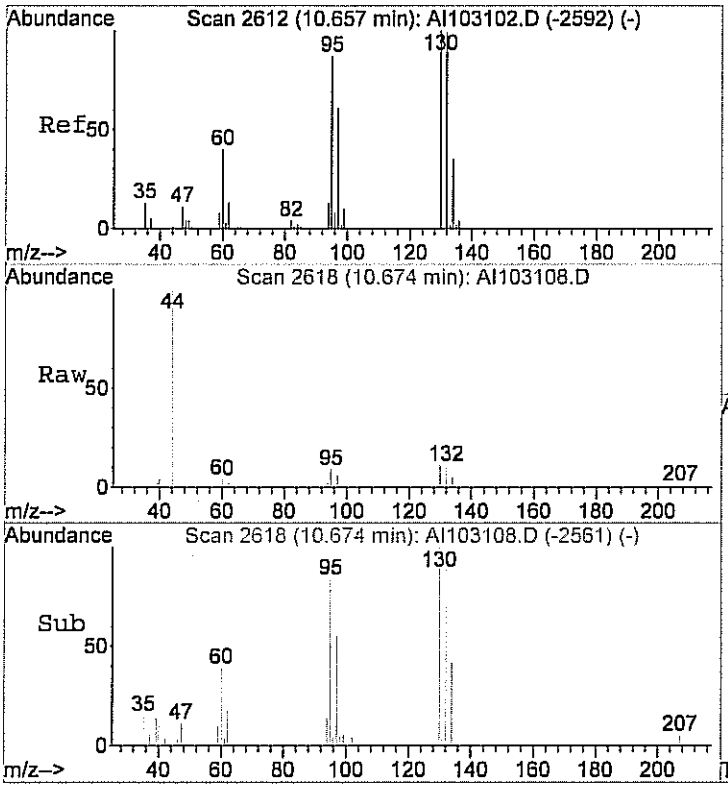


#36
Benzene
Concen: 0.42 ppb
RT: 9.19 min Scan# 2124
Delta R.T. 0.02 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 78 Resp: 23507

Ion	Ratio	Lower	Upper
78	100		
77	24.7	5.2	45.2
51	25.8	0.0	37.6

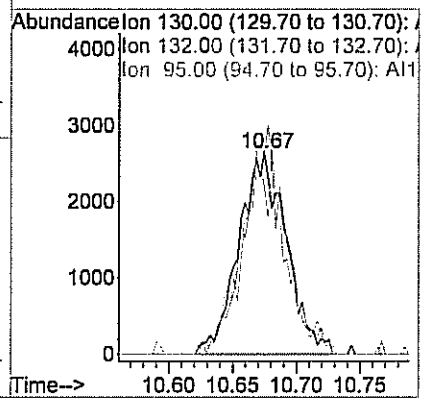


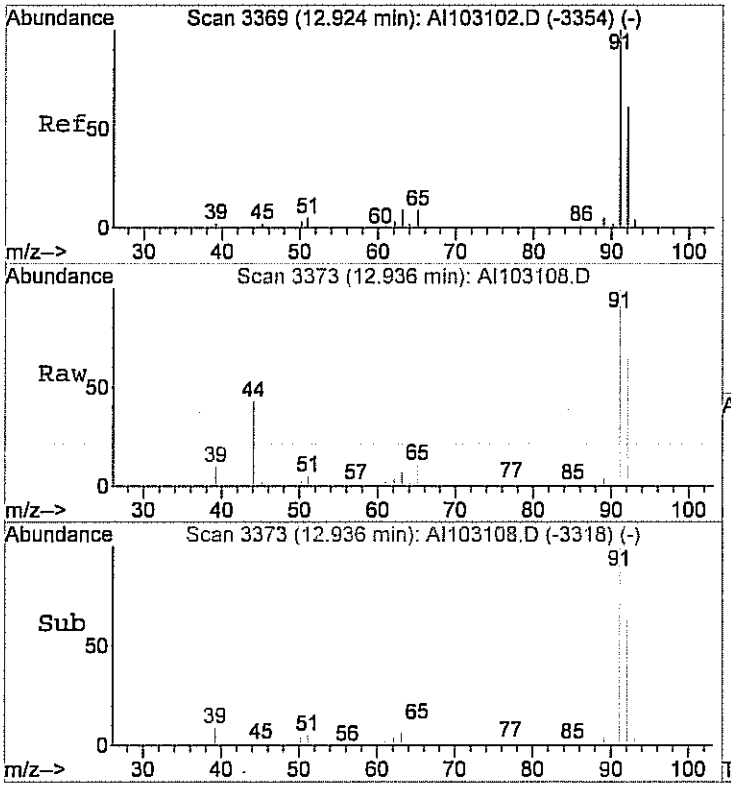


#41
Trichloroethene
Concen: 0.18 ppb
RT: 10.67 min Scan# 2618
Delta R.T. 0.02 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion:130 Resp: 6814

Ion	Ratio	Lower	Upper
130	100		
132	97.7	79.0	119.0
95	90.6	76.8	116.8

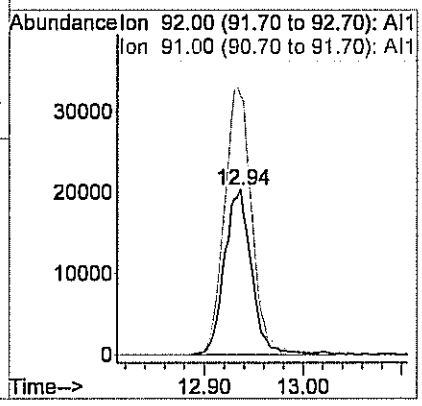


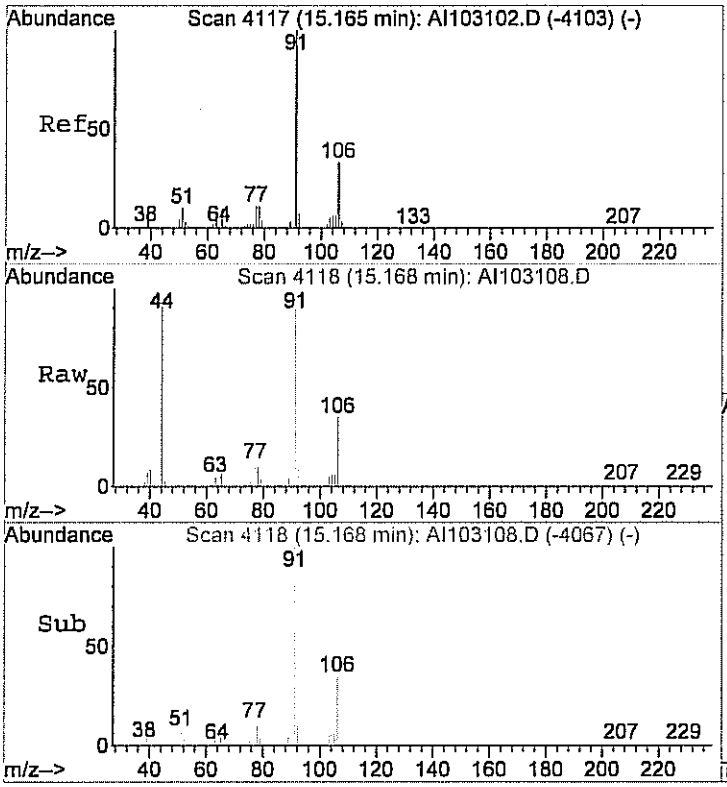


#48
Toluene
Concen: 1.01 ppb
RT: 12.94 min Scan# 3373
Delta R.T. 0.01 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 92 Resp: 38429

Ion	Ratio	Lower	Upper
92	100		
91	166.8	159.8	199.8

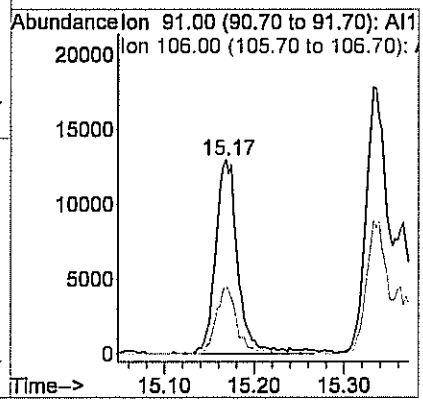


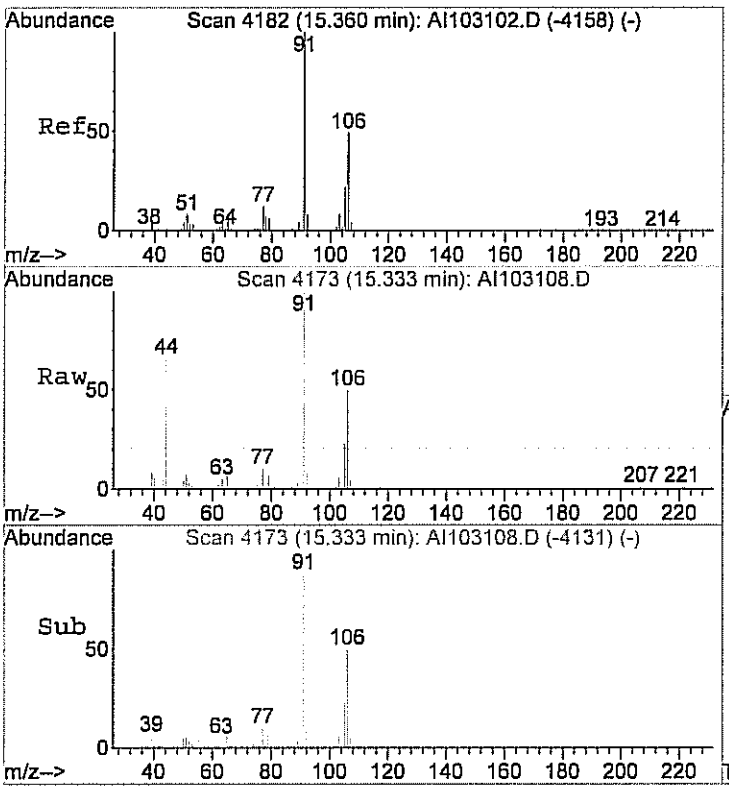


#55
Ethylbenzene
Concen: 0.30 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 91 Resp: 22685

Ion	Ratio	Lower	Upper
91	100		
106	31.8	10.7	50.7

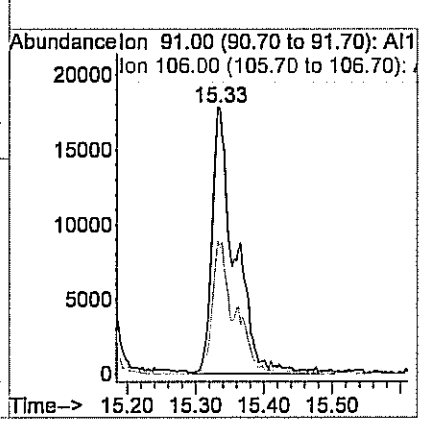


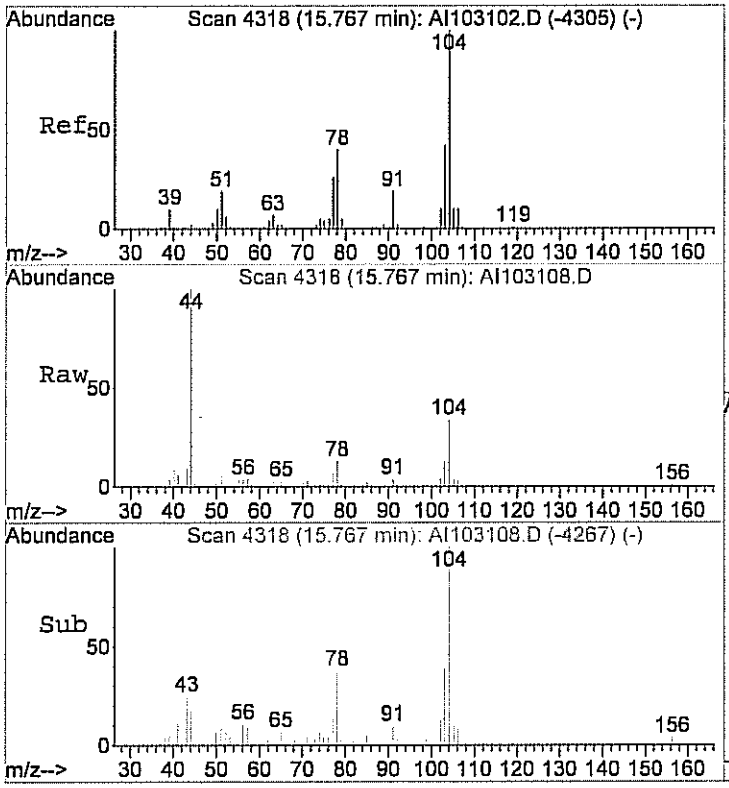


#56
m&p-xylene
Concen: 0.66 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 91 Resp: 41818

Ion	Ratio	Lower	Upper
91	100		
106	49.1	27.5	67.5

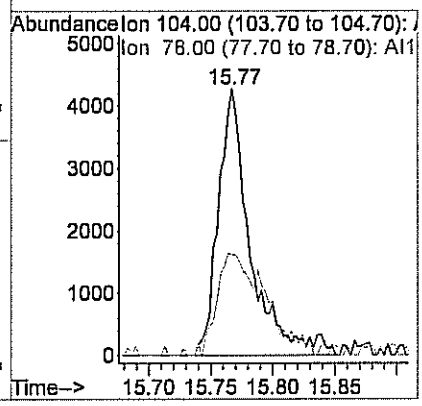


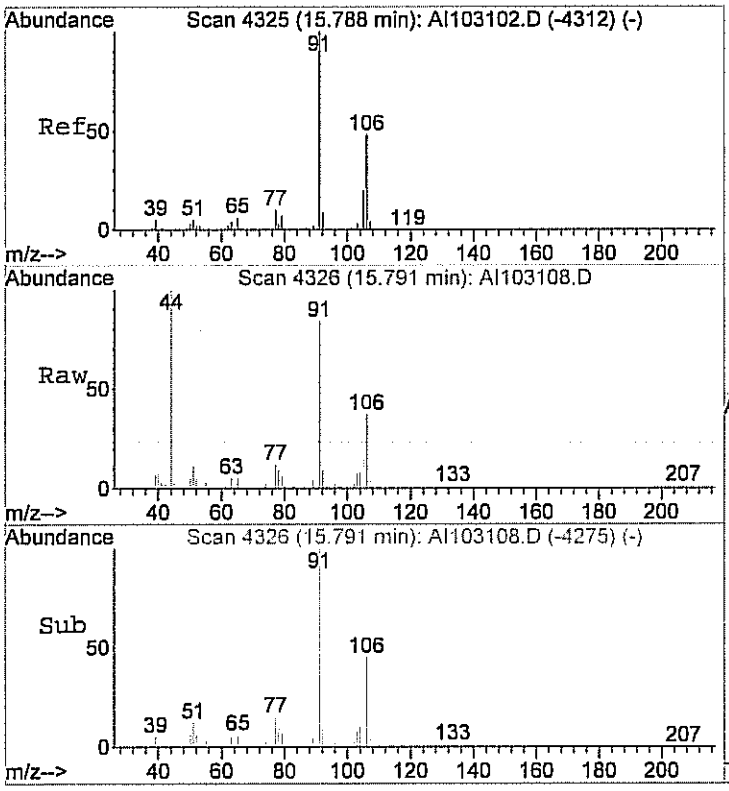


#57
Styrene
Concen: 0.19 ppb
RT: 15.77 min Scan# 4318
Delta R.T. 0.00 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion:104 Resp: 7619

Ion	Ratio	Lower	Upper
104	100		
78	58.2	36.7	76.7

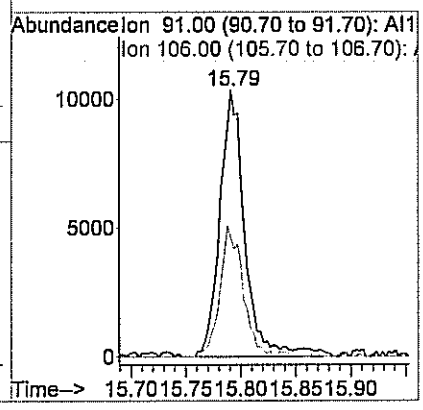


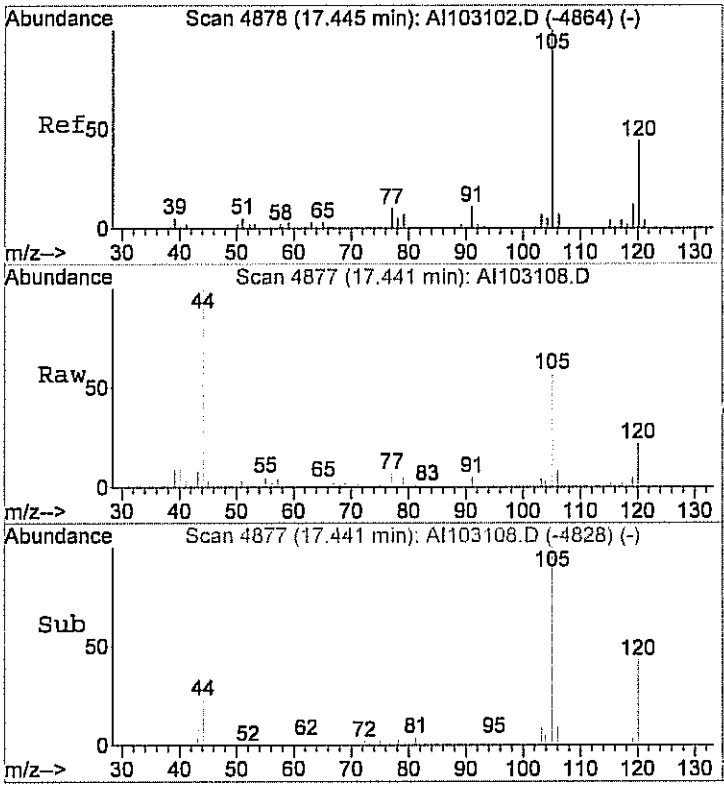


#59
o-xylene
Concen: 0.20 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion: 91 Resp: 16378

Ion	Ratio	Lower	Upper
91	100		
106	44.6	26.2	66.2

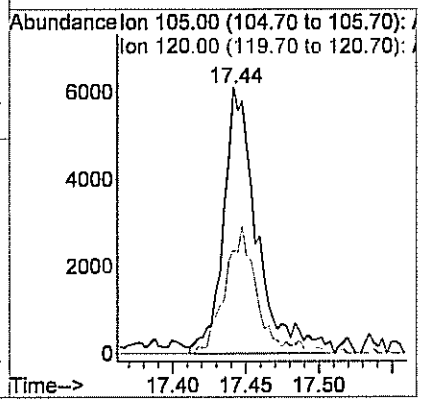




#65
1,2,4-trimethylbenzene
Concen: 0.17 ppb
RT: 17.44 min Scan# 4877
Delta R.T. -0.00 min
Lab File: AI103108.D
Acq: 31 Oct 2011 2:11 pm

Tgt Ion:105 Resp: 9687

Ion	Ratio	Lower	Upper
105	100		
120	44.7	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103114.D Vial: 23
Acq On : 31 Oct 2011 5:43 pm Operator: RJP
Sample : C1110054-009A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 18:04:03 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

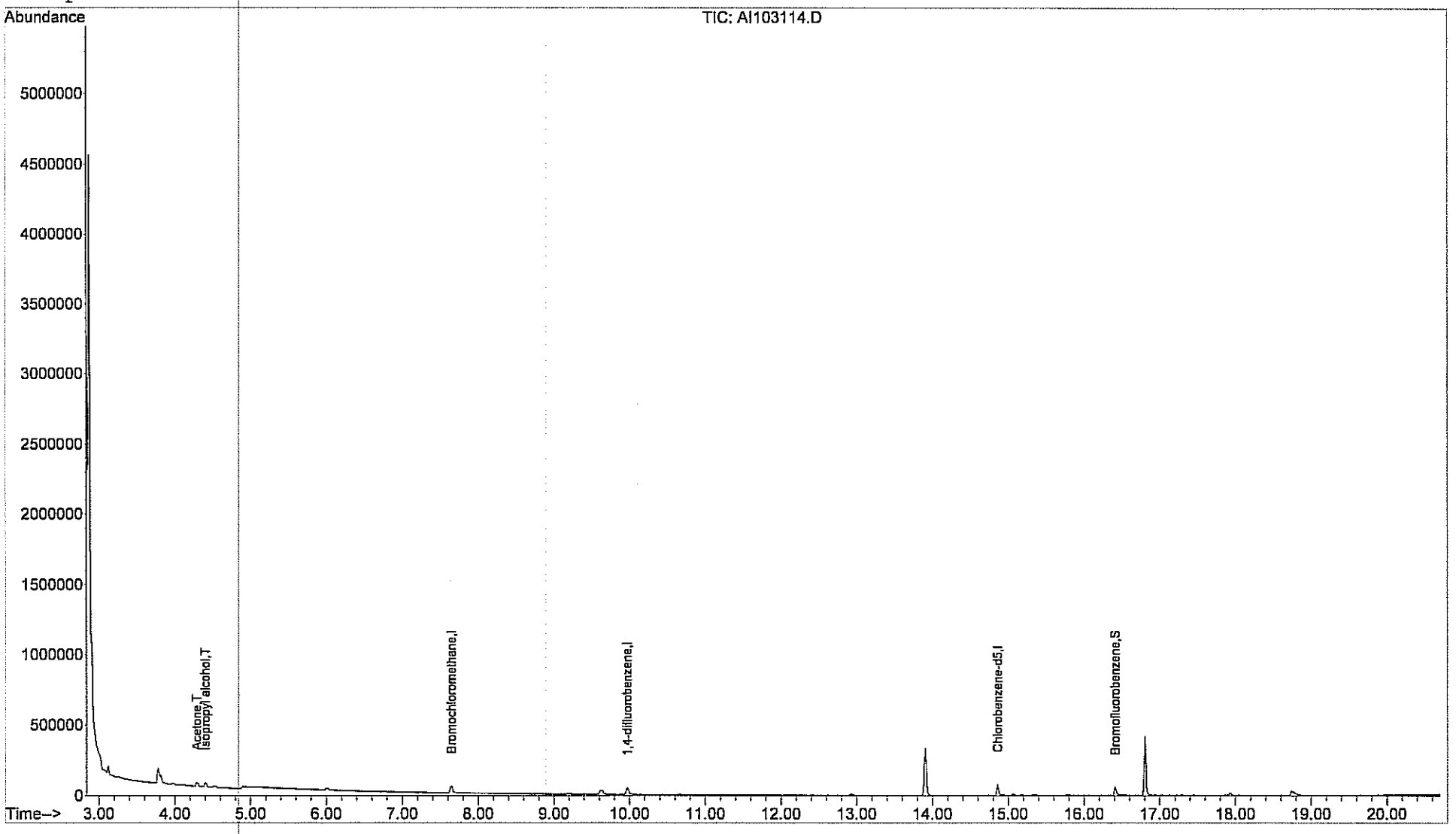
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	20715	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	53201	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	51217	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	21103	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue
14) Acetone	4.29	58	15035	2.49	ppb	# 54
15) Isopropyl alcohol	4.40	45	44534	2.81	ppb	# 100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

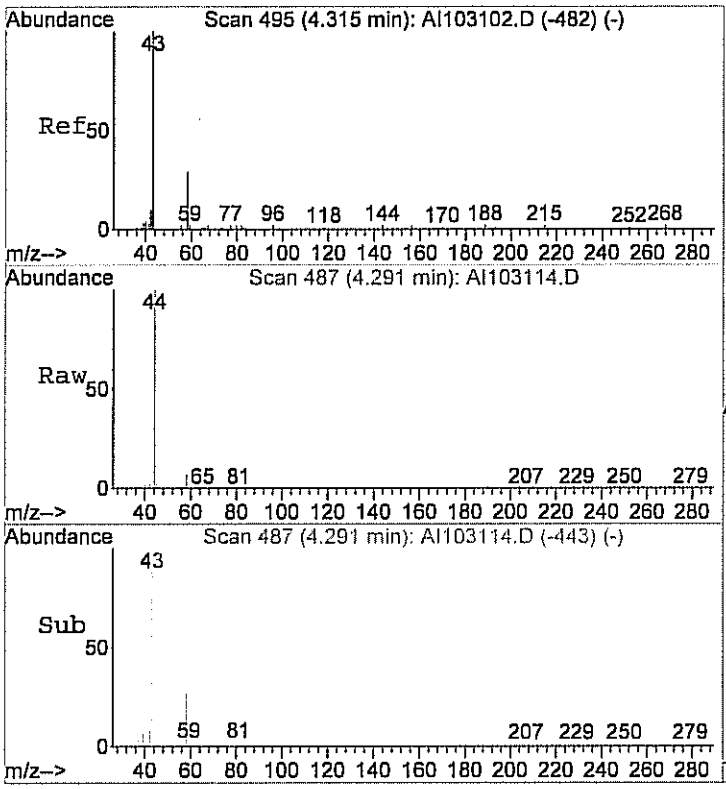
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103114.D Vial: 23
Acq On : 31 Oct 2011 5:43 pm Operator: RJP
Sample : C1110054-009A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 7:56 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



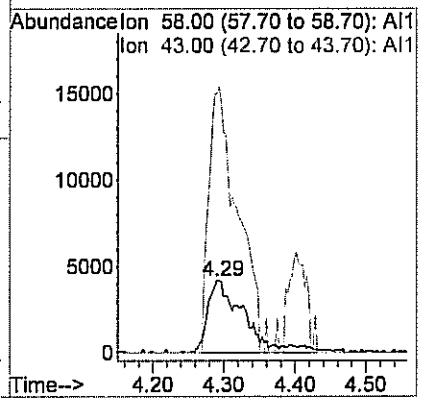
Centek laboratories, LLC

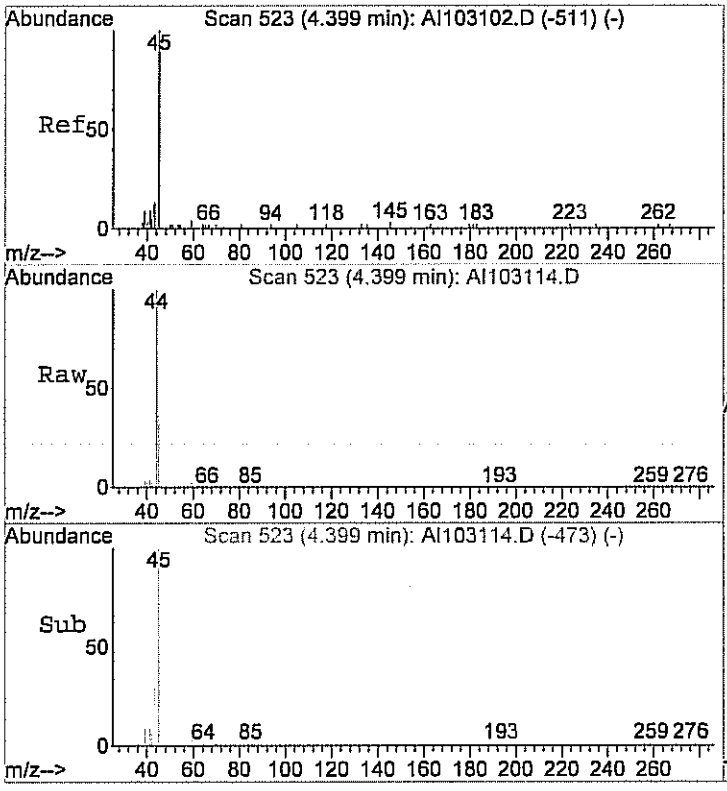


#14
Acetone
Concen: 2.49 ppb
RT: 4.29 min Scan# 487
Delta R.T. -0.02 min
Lab File: AI103114.D
Acq: 31 Oct 2011 5:43 pm

Tgt Ion: 58 Resp: 15035

Ion	Ratio	Lower	Upper
58	100		
43	283.9	360.8	420.8#

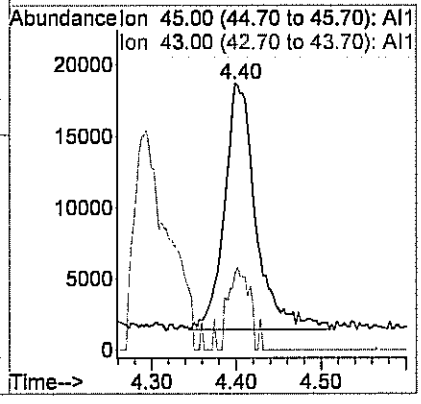




#15
Isopropyl alcohol
Concen: 2.81 ppb
RT: 4.40 min Scan# 523
Delta R.T. -0.00 min
Lab File: AI103114.D
Acq: 31 Oct 2011 5:43 pm

Tgt Ion: 45 Resp: 44534

Ion	Ratio	Lower	Upper
45	100		
43	21.7	0.0	20.0#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Acetone	1.3	0.30		ppbV	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzene	0.67	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Cyclohexane	0.55	0.15		ppbV	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 11	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:40:00 PM
Heptane	0.43	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexane	1.7	0.15		ppbV	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Trichloroethene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:40:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	1.2	0.71		ug/m3	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Acetone	3.2	0.72		ug/m3	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:40:00 PM
Benzene	2.2	0.49		ug/m3	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:40:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Heptane	1.8	0.62		ug/m3	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Hexane	6.1	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 11:40:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:40:00 PM
o-Xylene	0.71	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:40:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:40:00 PM
Toluene	6.2	0.57		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Trichloroethene	8.9	0.82		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103125.D Vial: 4
Acq On : 31 Oct 2011 11:40 pm Operator: RJP
Sample : C1110054-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 00:01:24 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

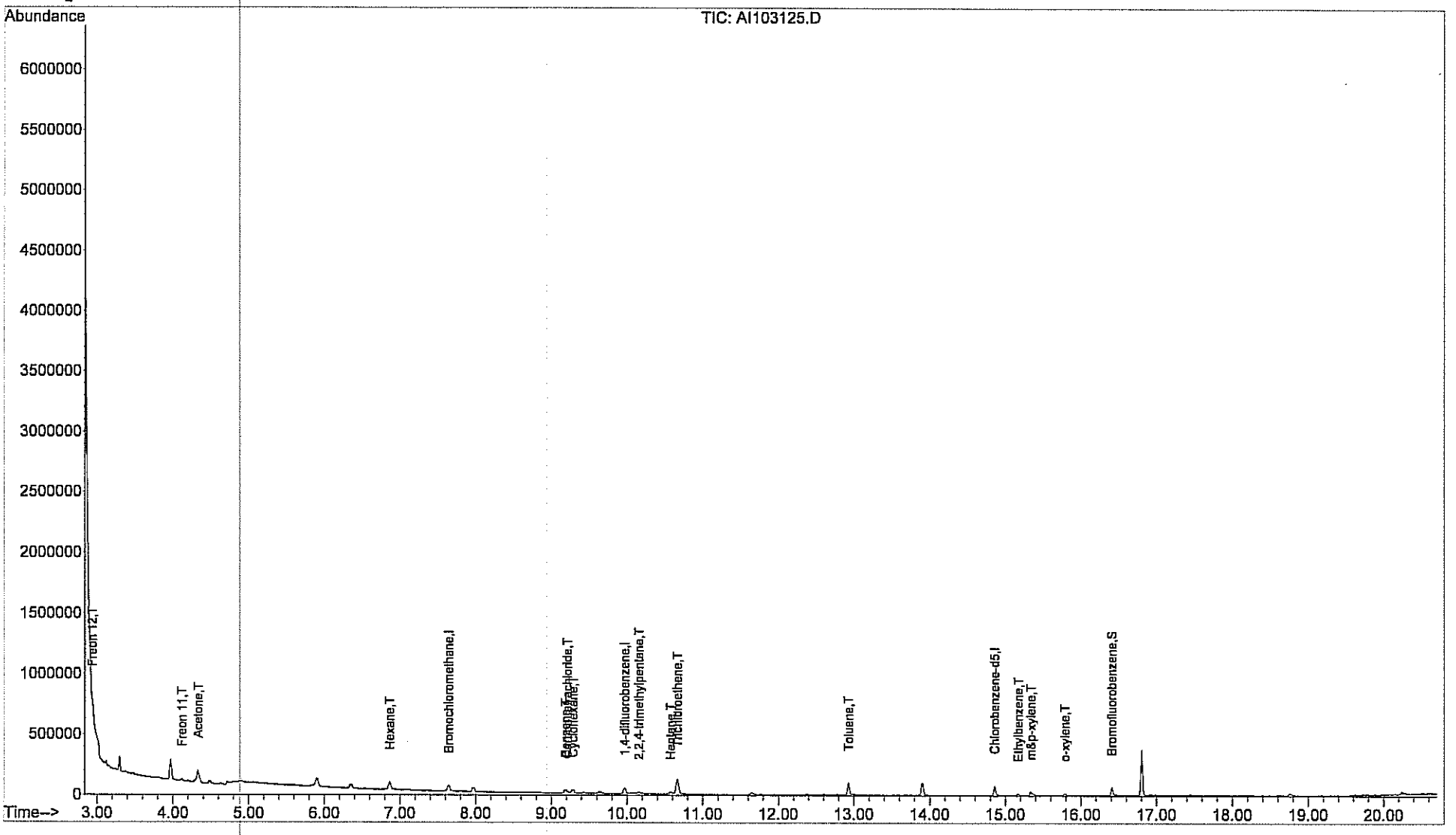
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	19779	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	52951	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	48858	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	22544	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	39160	0.51	ppb		98
13) Freon 11	4.11	101	11502	0.26	ppb		94
14) Acetone	4.32	58	7689	1.33	ppb	#	1
27) Hexane	6.86	57	29015	1.71	ppb		95
34) Cyclohexane	9.28	56	9136	0.55	ppb	#	54
35) Carbon tetrachloride	9.22	117	5550	0.11	ppb		95
36) Benzene	9.19	78	33734	0.67	ppb		93
39) 2,2,4-trimethylpentane	10.15	57	14015	0.26	ppb	#	75
40) Heptane	10.58	43	6958	0.43	ppb	#	85
41) Trichloroethene	10.67	130	56391	1.63	ppb		97
48) Toluene	12.93	92	48939	1.63	ppb		92
55) Ethylbenzene	15.17	91	10226	0.17	ppb		96
56) m&p-xylene	15.34	91	26739	0.53	ppb		99
59) o-xylene	15.79	91	10043	0.16	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

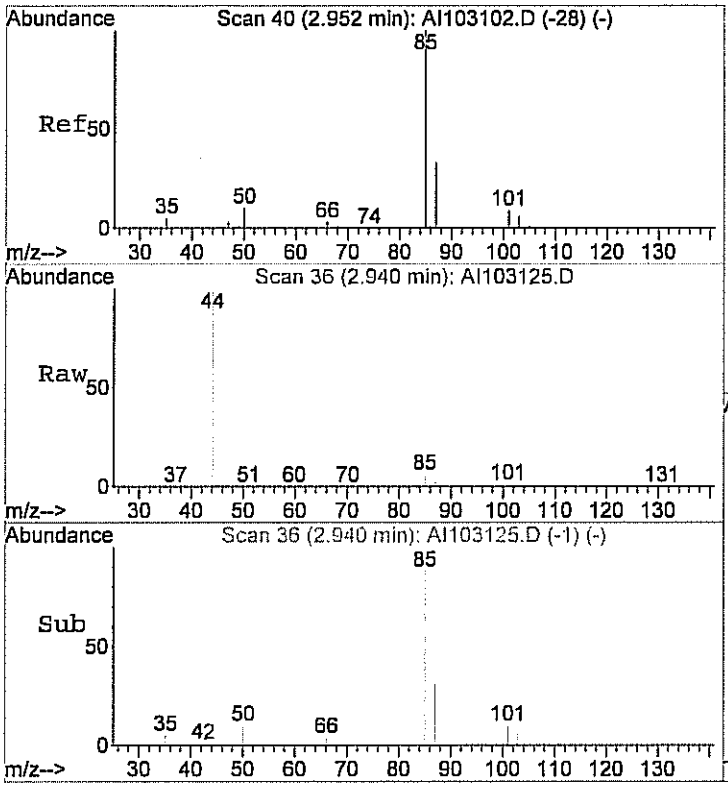
Data File : C:\HPCHEM\1\DATA\AI103125.D Vial: 4
Acq On : 31 Oct 2011 11:40 pm Operator: RJP
Sample : C1110054-010A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 9:06 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI103125.D AO30_1UG.M Mon Nov 21 08:59:04 2011 MSD1 Page 2

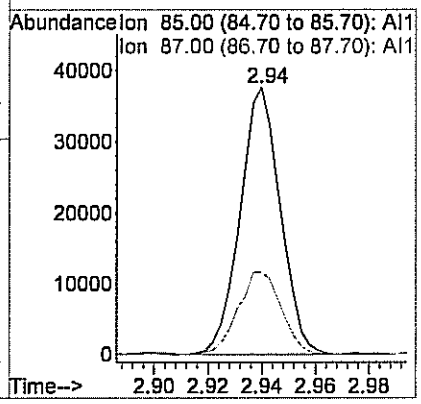
Centek laboratories, LLC

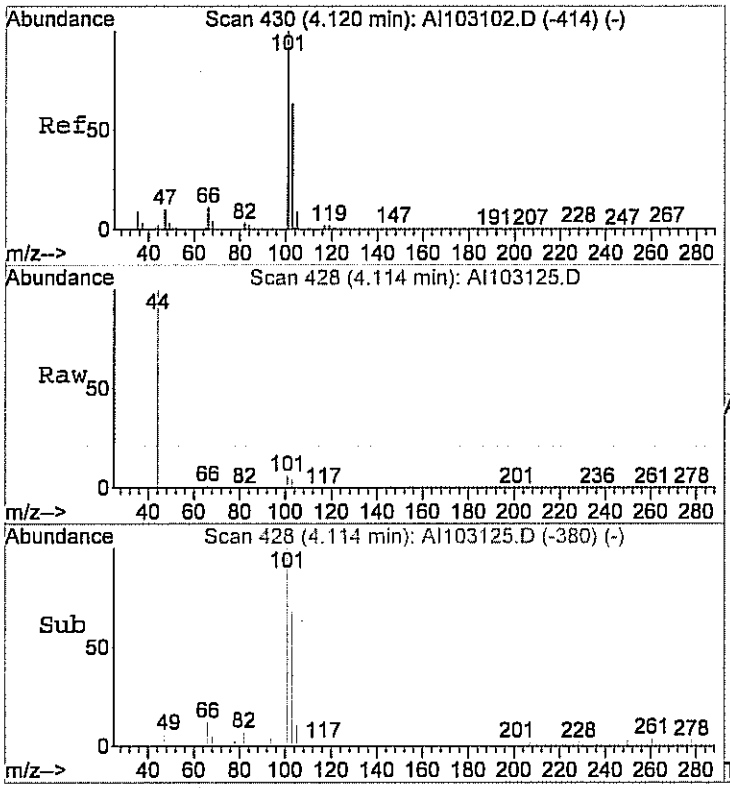


#3
Freon 12
Concen: 0.51 ppb
RT: 2.94 min Scan# 36
Delta R.T. -0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 85 Resp: 39160

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.2	52.2

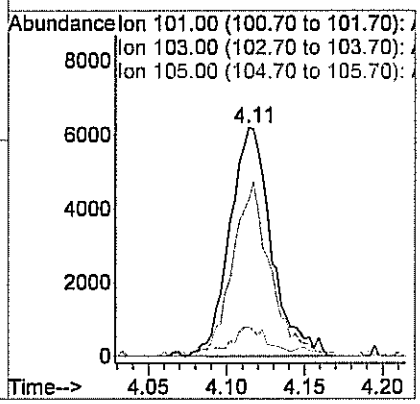


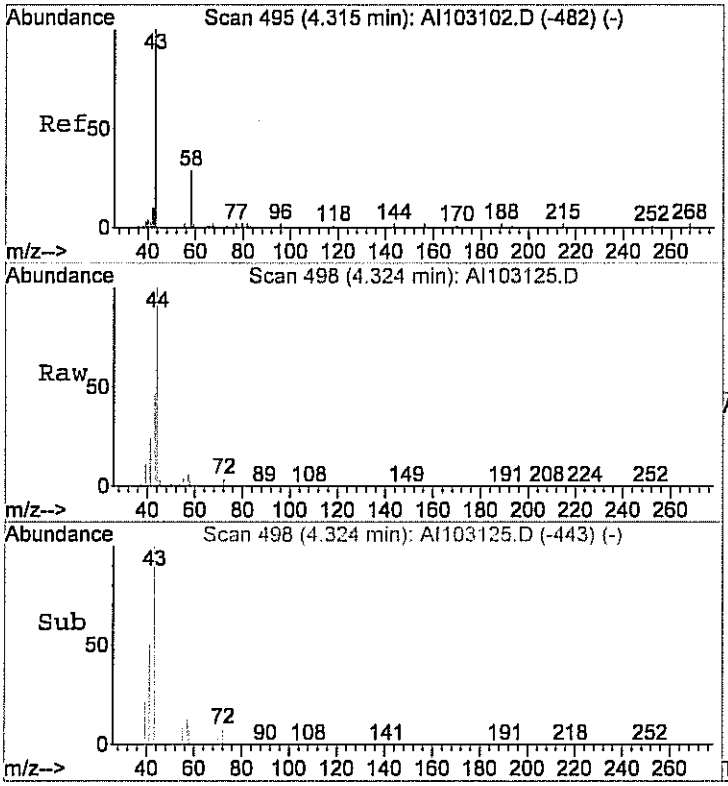


#13
Freon 11
Concen: 0.26 ppb
RT: 4.11 min Scan# 428
Delta R.T. -0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion:101 Resp: 11502

Ion	Ratio	Lower	Upper
101	100		
103	69.1	44.9	84.9
105	13.5	0.0	30.9

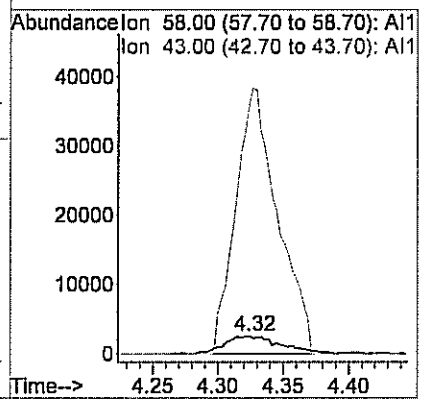


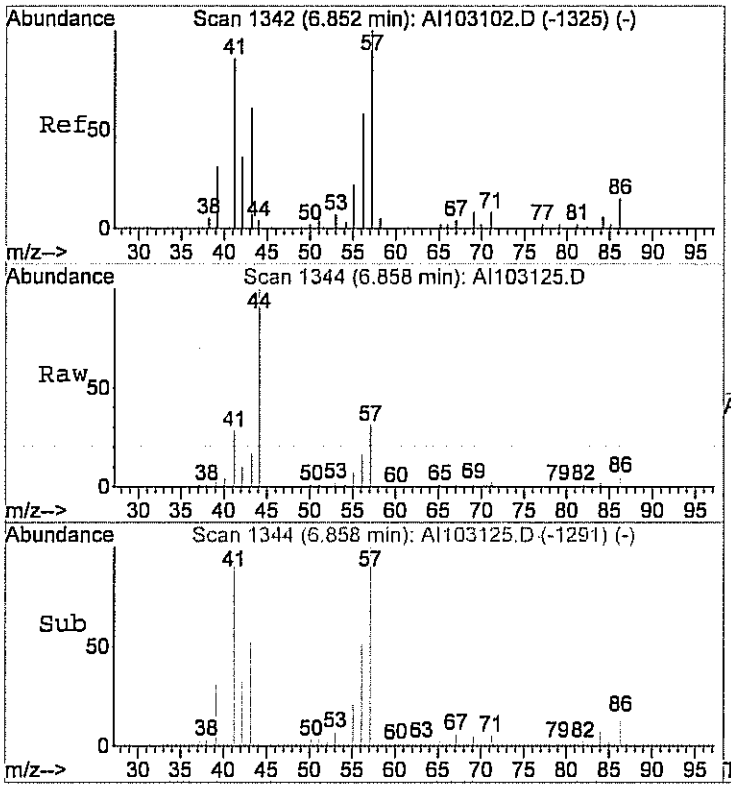


#14
Acetone
Concen: 1.33 ppb
RT: 4.32 min Scan# 498
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 58 Resp: 7689

Ion	Ratio	Lower	Upper
58	100		
43	1113.9	360.8	420.8#

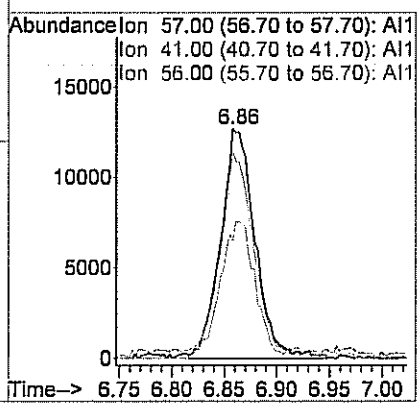


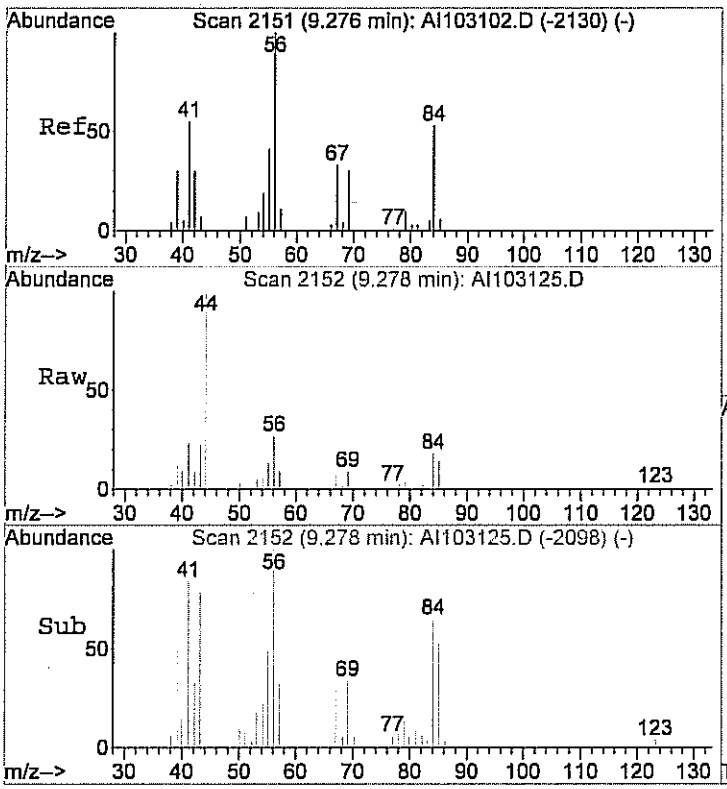


#27
Hexane
Concen: 1.71 ppb
RT: 6.86 min Scan# 1344
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 57 Resp: 29015

Ion	Ratio	Lower	Upper
57	100		
41	93.9	75.5	115.5
56	63.0	35.9	75.9

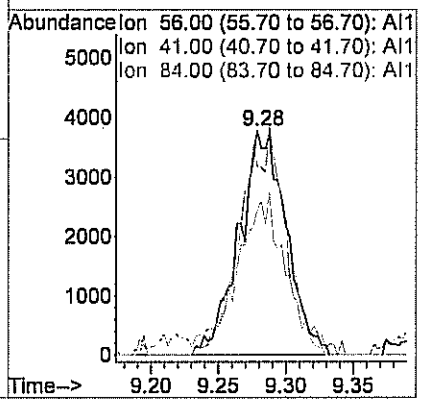


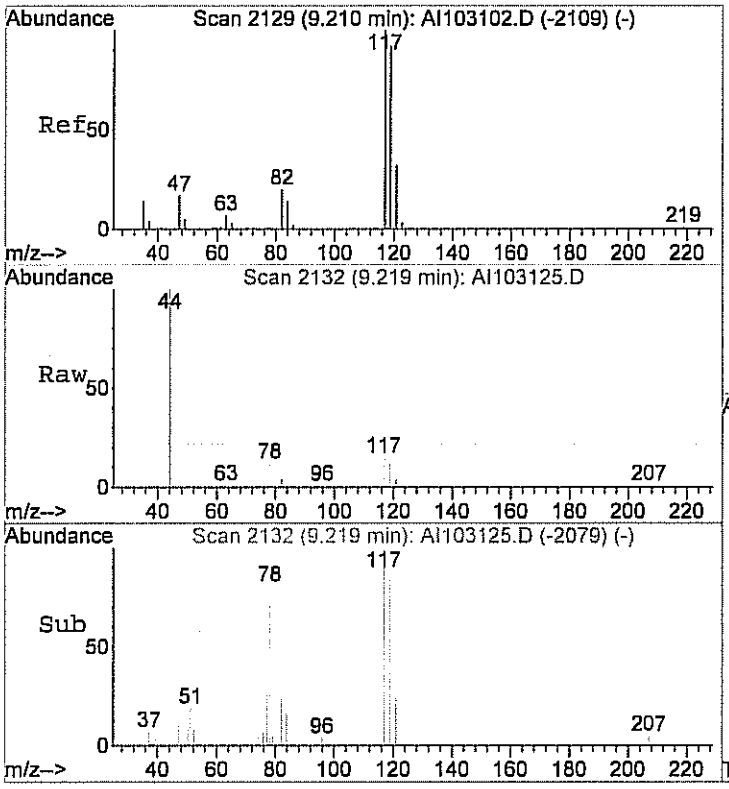


#34
Cyclohexane
Concen: 0.55 ppb
RT: 9.28 min Scan# 2152
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 56 Resp: 9136

Ion	Ratio	Lower	Upper
56	100		
41	98.9	49.1	89.1#
84	73.4	114.6	154.6#

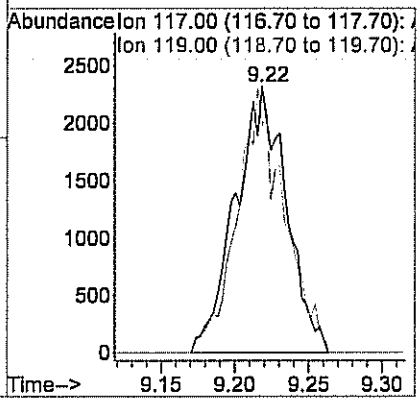


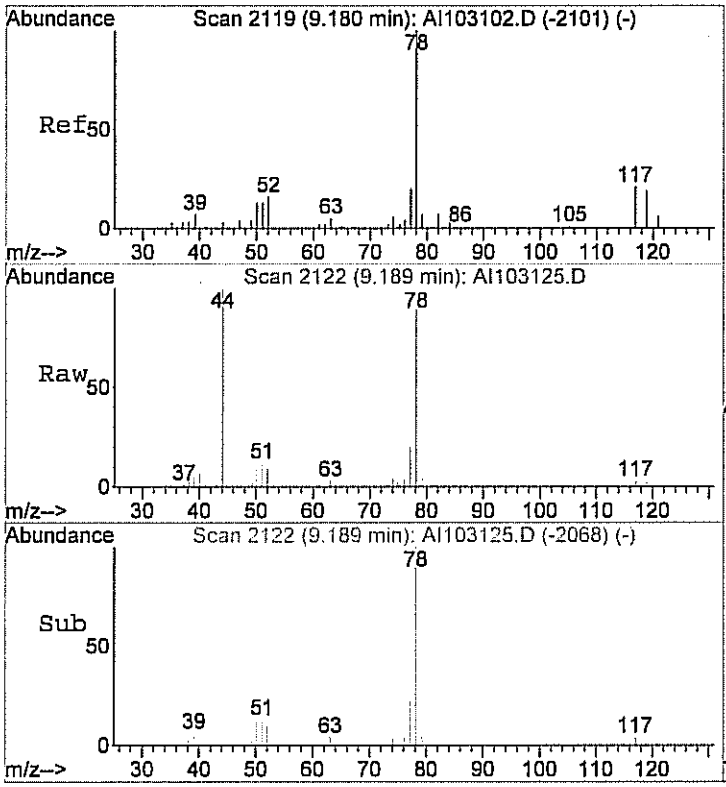


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.22 min Scan# 2132
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion:117 Resp: 5550

Ion	Ratio	Lower	Upper
117	100		
119	92.0	77.2	117.2

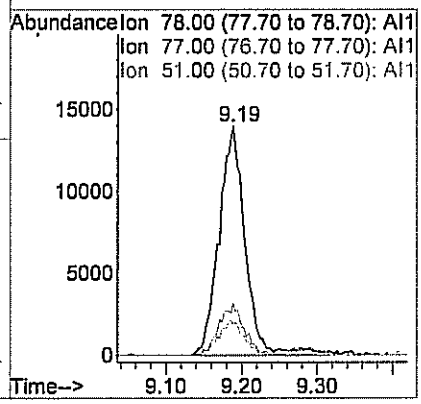


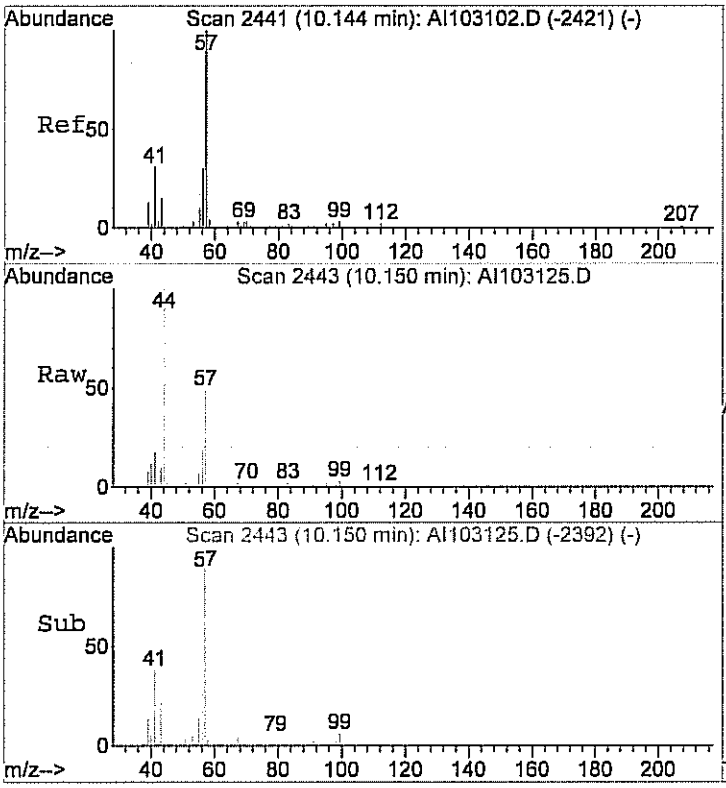


#36
Benzene
Concen: 0.67 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 78 Resp: 33734

Ion	Ratio	Lower	Upper
78	100		
77	21.3	5.2	45.2
51	14.6	0.0	37.6

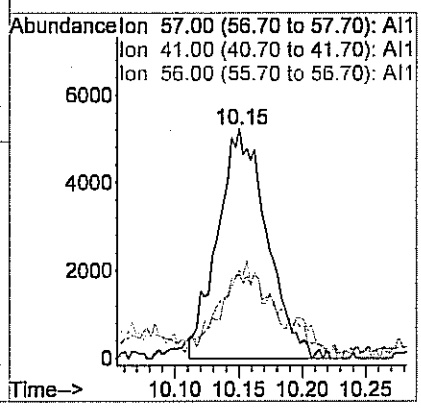


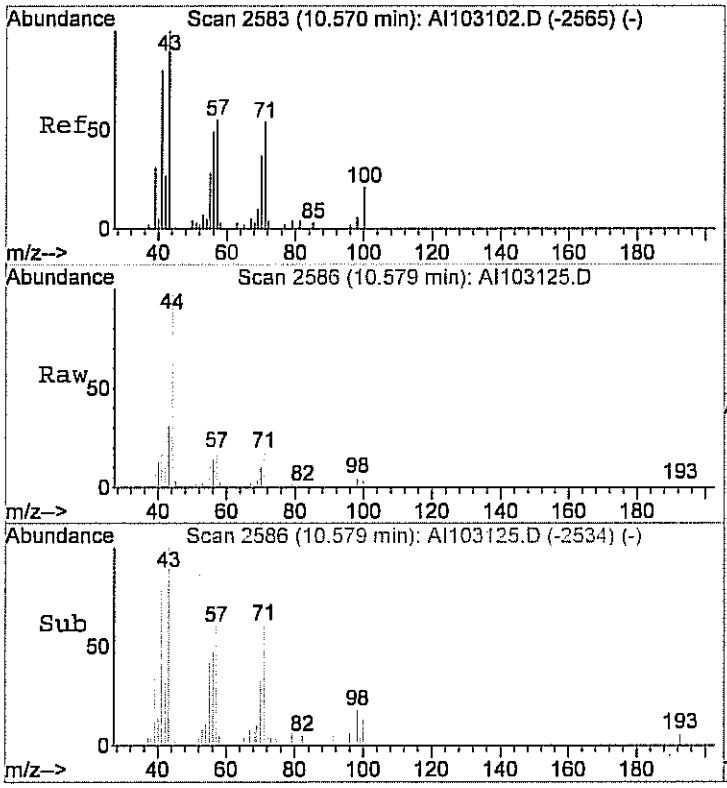


#39
2,2,4-trimethylpentane
Concen: 0.26 ppb
RT: 10.15 min Scan# 2443
Delta R.T. 0.00 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 57 Resp: 14015

Ion	Ratio	Lower	Upper
57	100		
41	37.9	17.9	57.9
56	64.4	13.7	53.7#

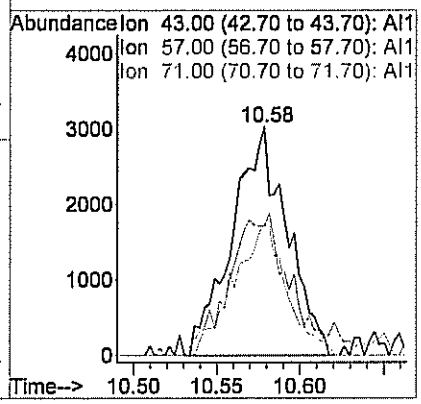


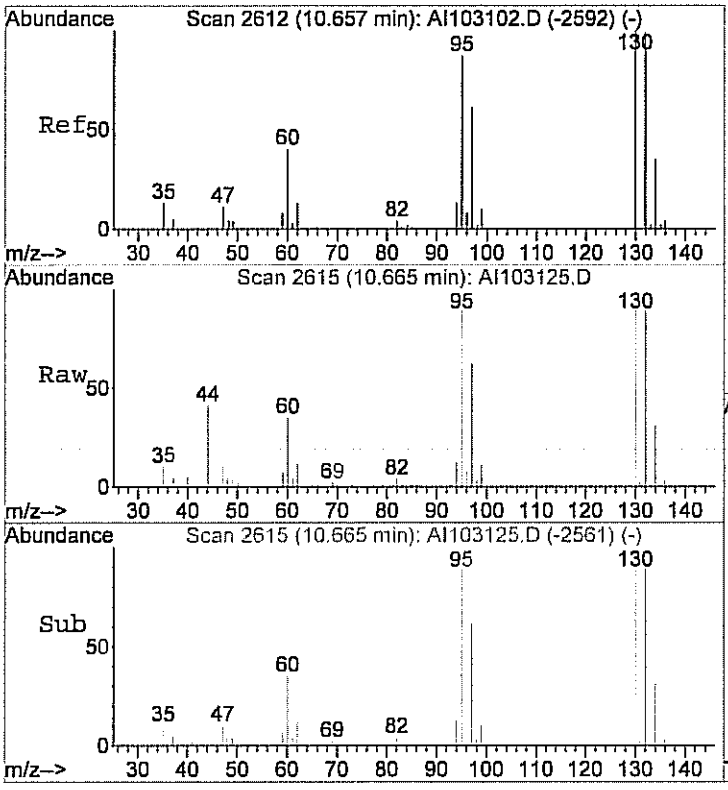


#40
Heptane
Concen: 0.43 ppb
RT: 10.58 min Scan# 2586
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 43 Resp: 6958

Ion	Ratio	Lower	Upper
43	100		
57	73.2	32.1	72.1#
71	56.1	35.5	75.5

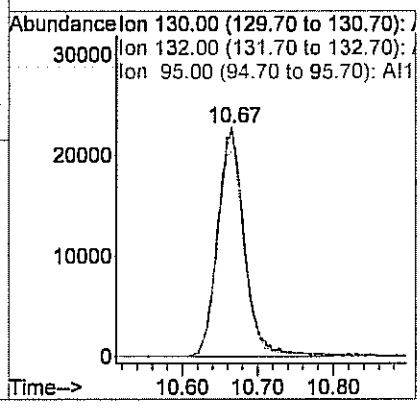


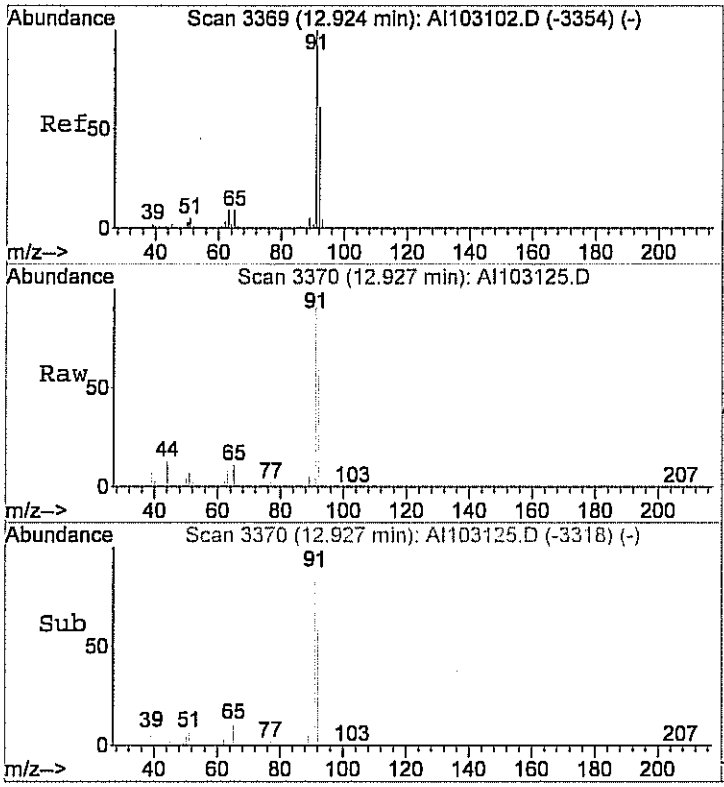


#41
Trichloroethene
Concen: 1.63 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion:130 Resp: 56391

Ion	Ratio	Lower	Upper
130	100		
132	97.4	79.0	119.0
95	92.0	76.8	116.8

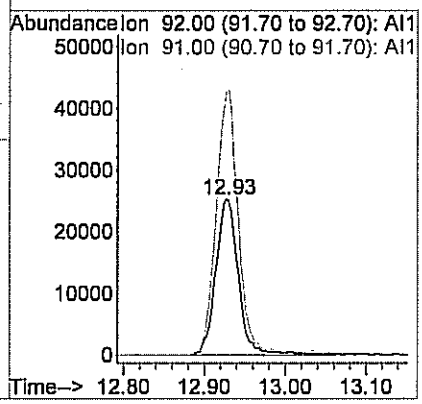


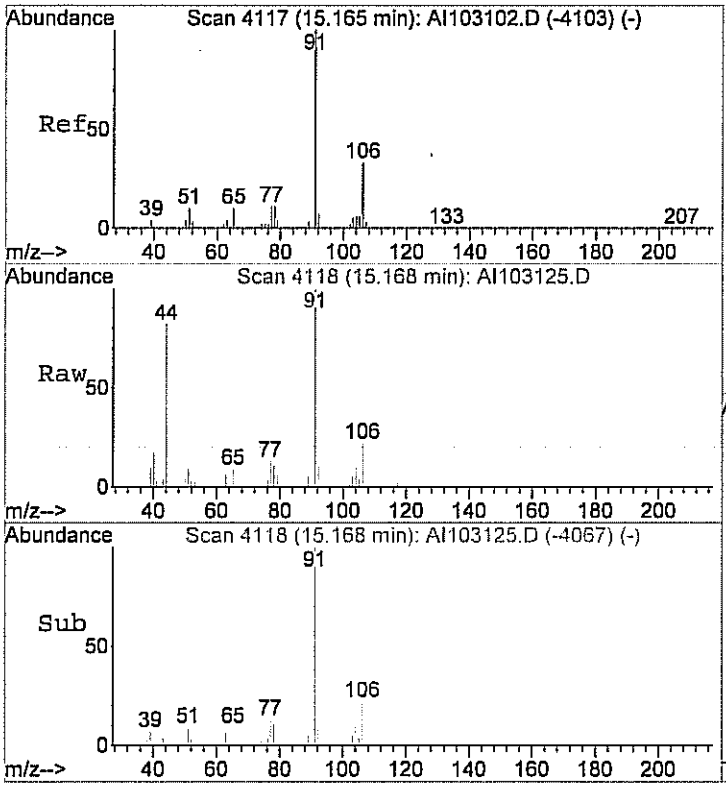


#48
Toluene
Concen: 1.63 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 92 Resp: 48939

Ion	Ratio	Lower	Upper
92	100		
91	168.5	159.8	199.8

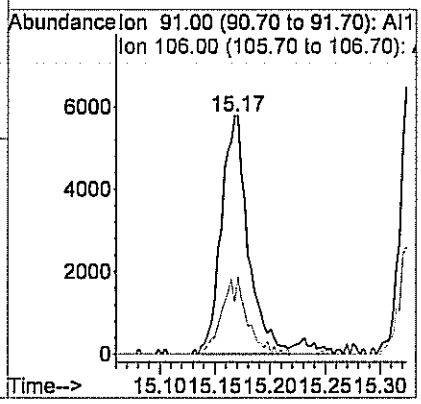


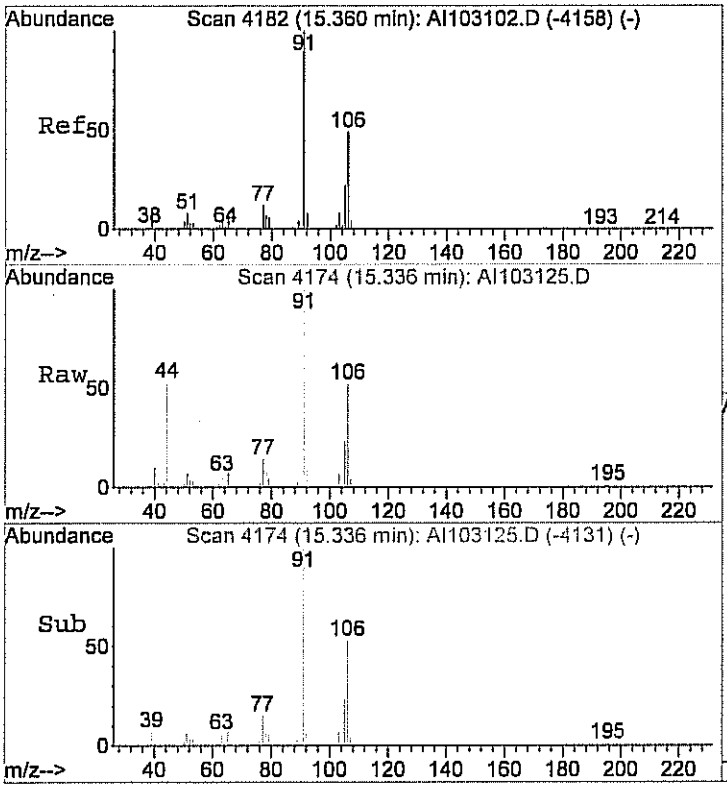


#55
Ethylbenzene
Concen: 0.17 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 91 Resp: 10226

Ion	Ratio	Lower	Upper
91	100		
106	28.6	10.7	50.7

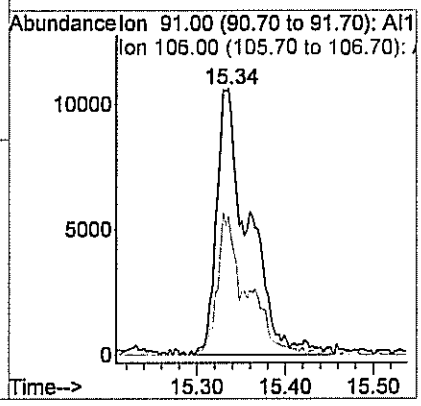


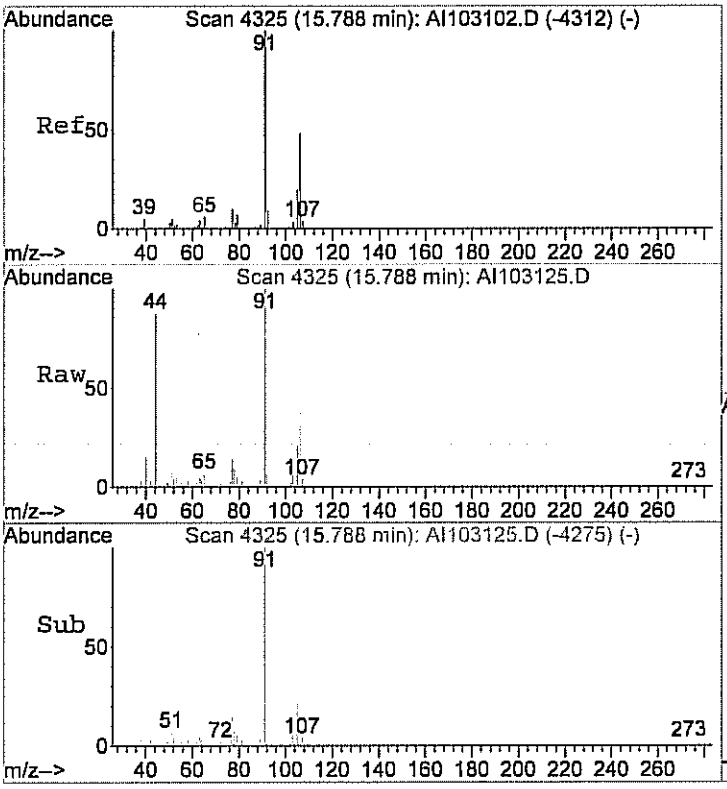


#56
m&p-xylene
Concen: 0.53 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 91 Resp: 26739

Ion	Ratio	Lower	Upper
91	100		
106	48.0	27.5	67.5

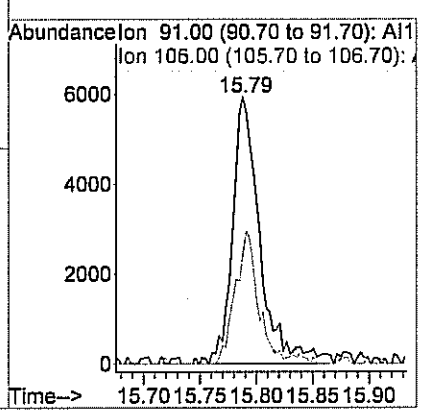




#59
o-xylene
Concen: 0.16 ppb
RT: 15.79 min Scan# 4325
Delta R.T. -0.00 min
Lab File: AI103125.D
Acq: 31 Oct 2011 11:40 pm

Tgt Ion: 91 Resp: 10043

Ion	Ratio	Lower	Upper
91	100		
106	43.1	26.2	66.2



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	0.37	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	0.82	0.15		ppbV	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.17	0.15		ppbV	1	11/1/2011 12:12:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Benzene	2.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon disulfide	2.9	1.5		ppbV	10	11/1/2011 4:02:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Cyclohexane	2.3	1.5		ppbV	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:12:00 AM
Ethylbenzene	1.1	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 11	0.23	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 12	0.49	0.15		ppbV	1	11/1/2011 12:12:00 AM
Heptane	2.0	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexane	3.7	1.5		ppbV	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.25	0.15		ppbV	1	11/1/2011 12:12:00 AM
m&p-Xylene	3.1	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
o-Xylene	0.64	0.15		ppbV	1	11/1/2011 12:12:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	11	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	8.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Trichloroethene	6.0	1.5		ppbV	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	11/1/2011 12:12:00 AM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	1.8	0.75		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.50	0.75	J	ug/m3	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	3.9	0.71		ug/m3	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.85	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:12:00 AM
Benzene	8.4	4.9		ug/m3	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:12:00 AM
Carbon disulfide	9.2	4.7		ug/m3	10	11/1/2011 4:02:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:12:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Cyclohexane	8.0	5.2		ug/m3	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
Ethylbenzene	4.9	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Freon 11	1.3	0.86		ug/m3	1	11/1/2011 12:12:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Heptane	8.2	0.62		ug/m3	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Hexane	13	5.4		ug/m3	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.62	0.37		ug/m3	1	11/1/2011 12:12:00 AM
m&p-Xylene	14	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:12:00 AM
o-Xylene	2.8	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:12:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	42	0.57		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	33	5.7		ug/m3	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Trichloroethene	33	8.2		ug/m3	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103126.D Vial: 5
Acq On : 1 Nov 2011 12:12 am Operator: RJP
Sample : C1110054-011A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 00:33:42 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

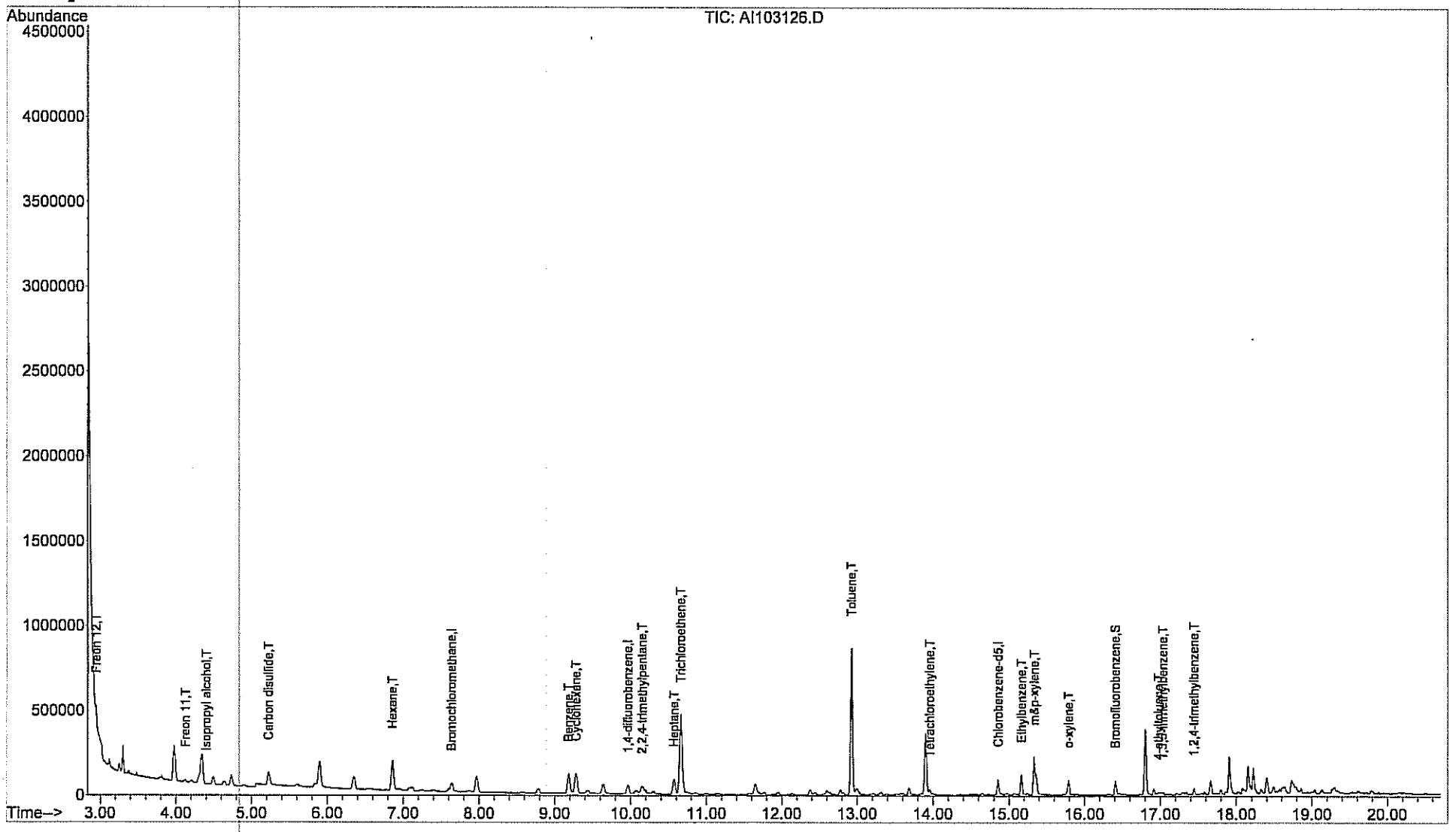
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	21087	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.97	114	56980	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	58532	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	30021	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	40119	0.49	ppb		99
13) Freon 11	4.11	101	11149	0.23	ppb		98
15) Isopropyl alcohol	4.41	45	4091	0.25	ppb	#	100
20) Carbon disulfide	5.23	76	144515	2.17	ppb		99
27) Hexane	6.86	57	86318	4.76	ppb		93
34) Cyclohexane	9.28	56	39426	2.19	ppb	#	59
36) Benzene	9.18	78	130616	2.43	ppb		99
39) 2,2,4-trimethylpentane	10.15	57	47168	0.82	ppb	#	58
40) Heptane	10.57	43	34041	1.97	ppb		87
41) Trichloroethene	10.66	130	205962	5.55	ppb		97
48) Toluene	12.92	92	396582	11.00	ppb		91
53) Tetrachloroethylene	13.95	164	6577	0.15	ppb		95
55) Ethylbenzene	15.16	91	80812	1.12	ppb		99
56) m&p-xylene	15.33	91	187335	3.12	ppb		95
59) o-xylene	15.79	91	49623	0.64	ppb		96
63) 4-ethyltoluene	16.98	105	10142	0.17	ppb		93
64) 1,3,5-trimethylbenzene	17.03	105	7033	0.10	ppb		83
65) 1,2,4-trimethylbenzene	17.44	105	19805	0.37	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

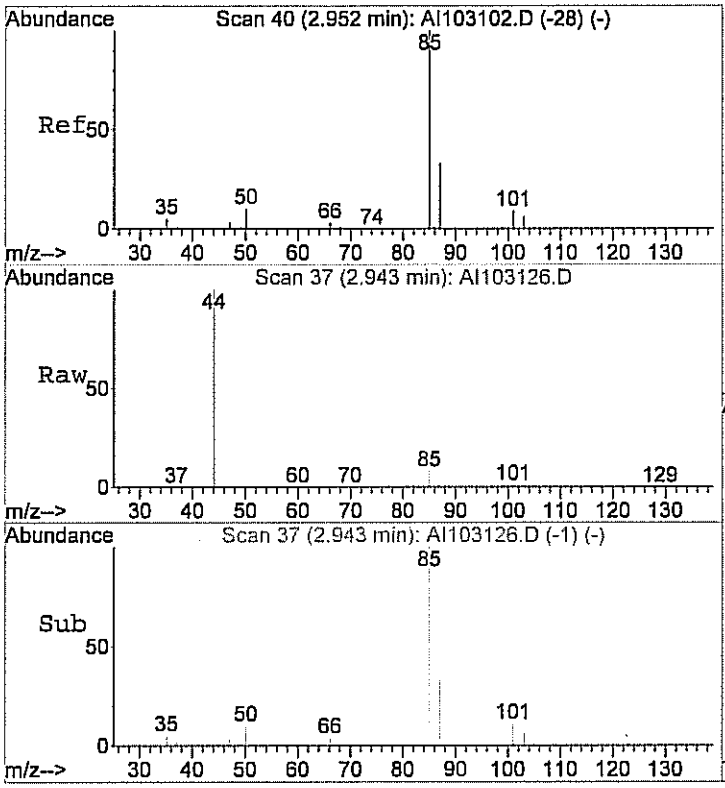
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103126.D Vial: 5
Acq On : 1 Nov 2011 12:12 am Operator: RJP
Sample : C1110054-011A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:25 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



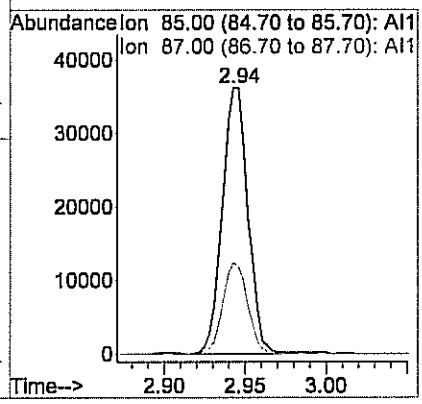
Centek laboratories, LLC

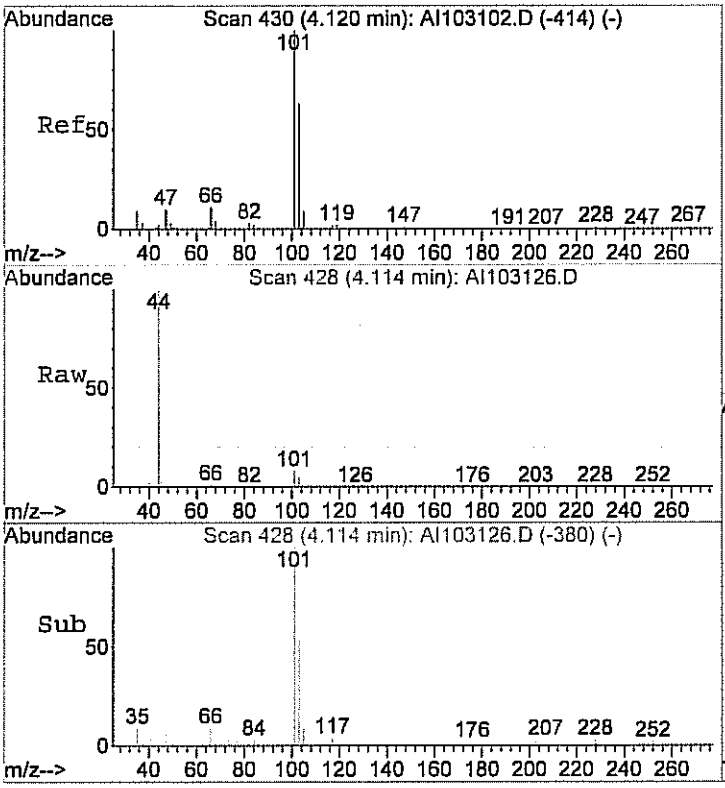


#3
Freon 12
Concen: 0.49 ppb
RT: 2.94 min Scan# 37
Delta R.T. -0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 85 Resp: 40119

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

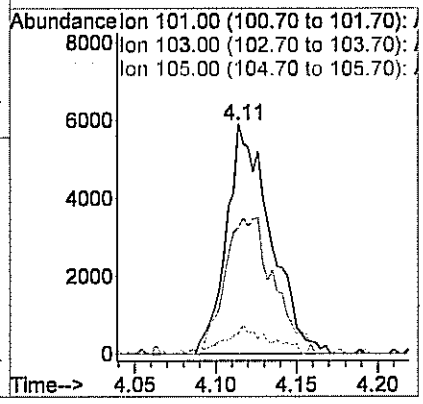


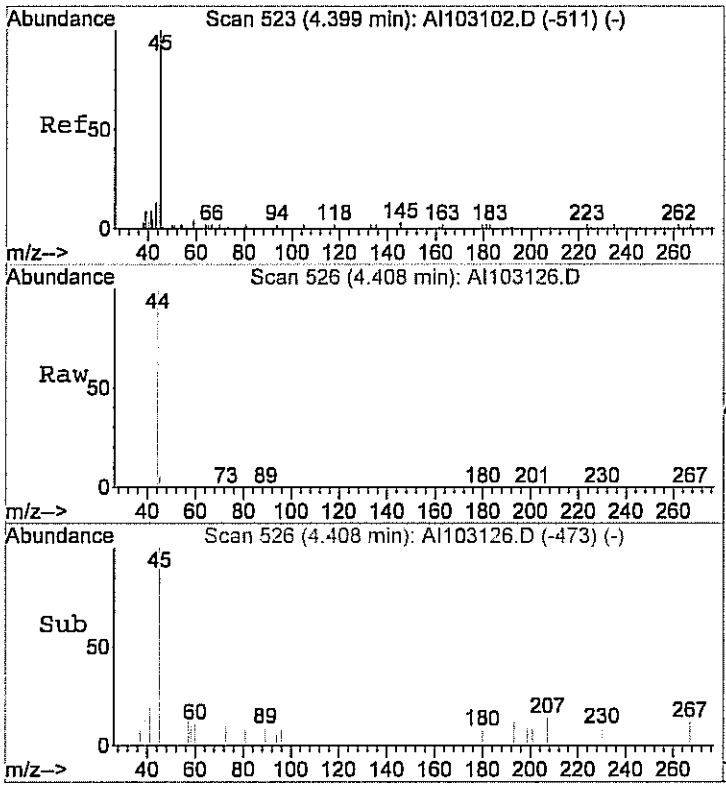


#13
Freon 11
Concen: 0.23 ppb
RT: 4.11 min Scan# 428
Delta R.T. -0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:101 Resp: 11149

Ion	Ratio	Lower	Upper
101	100		
103	66.6	44.9	84.9
105	12.2	0.0	30.9

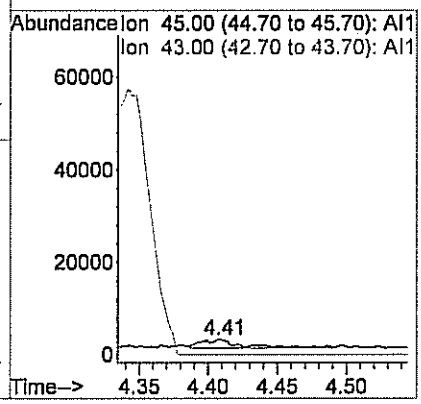


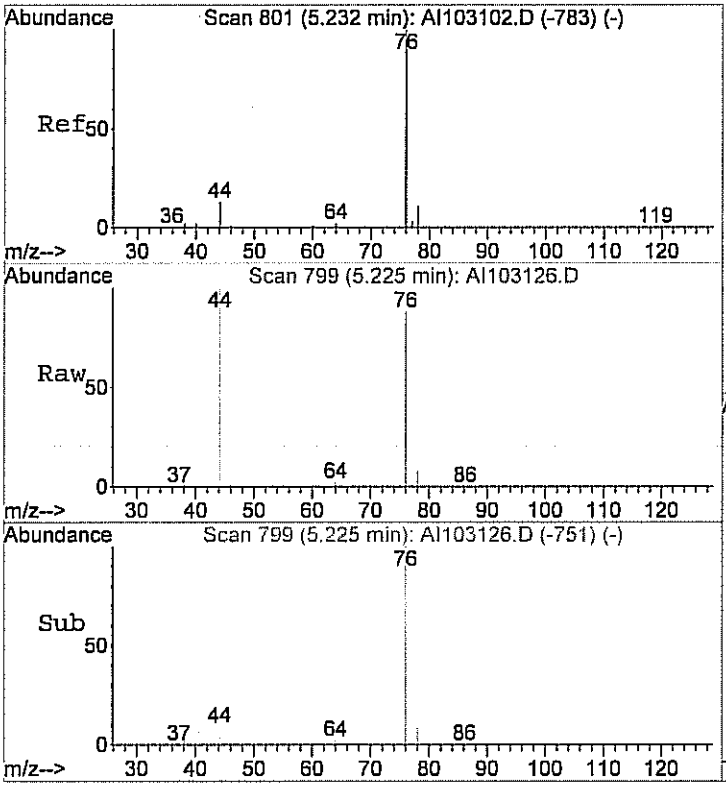


#15
Isopropyl alcohol
Concen: 0.25 ppb
RT: 4.41 min Scan# 526
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 45 Resp: 4091

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

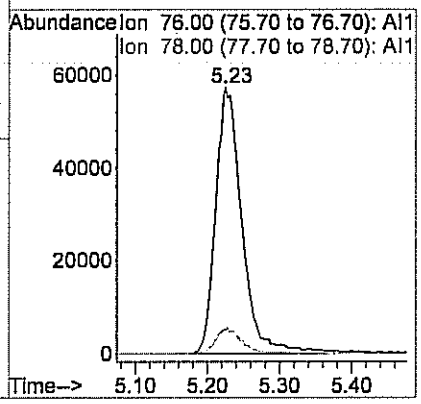


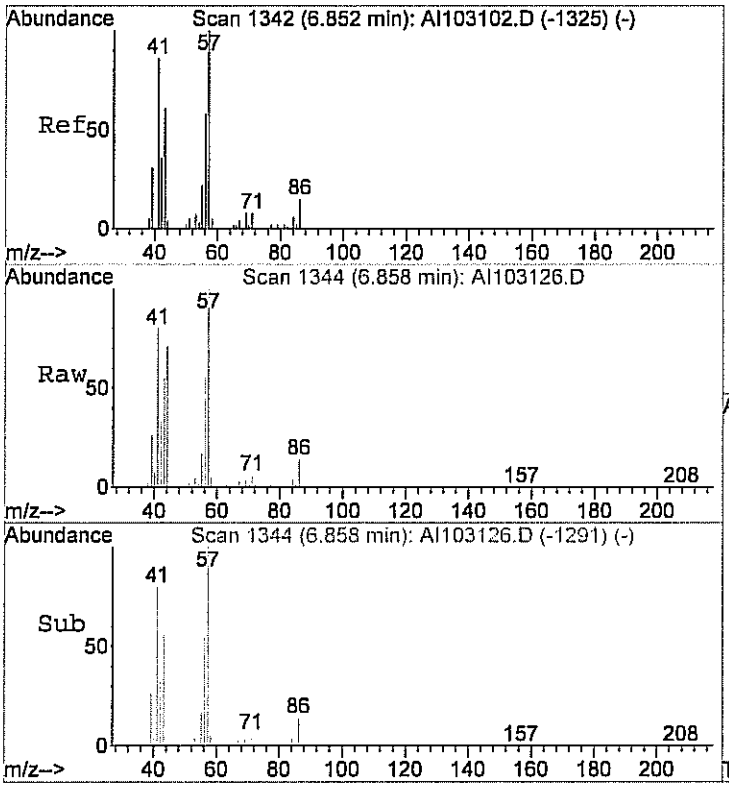


#20
Carbon disulfide
Concen: 2.17 ppb
RT: 5.23 min Scan# 799
Delta R.T. -0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 76 Resp: 144515

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	29.6

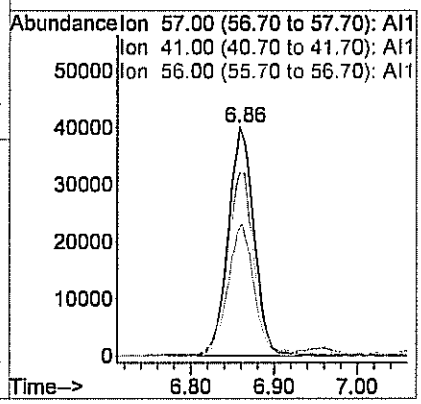


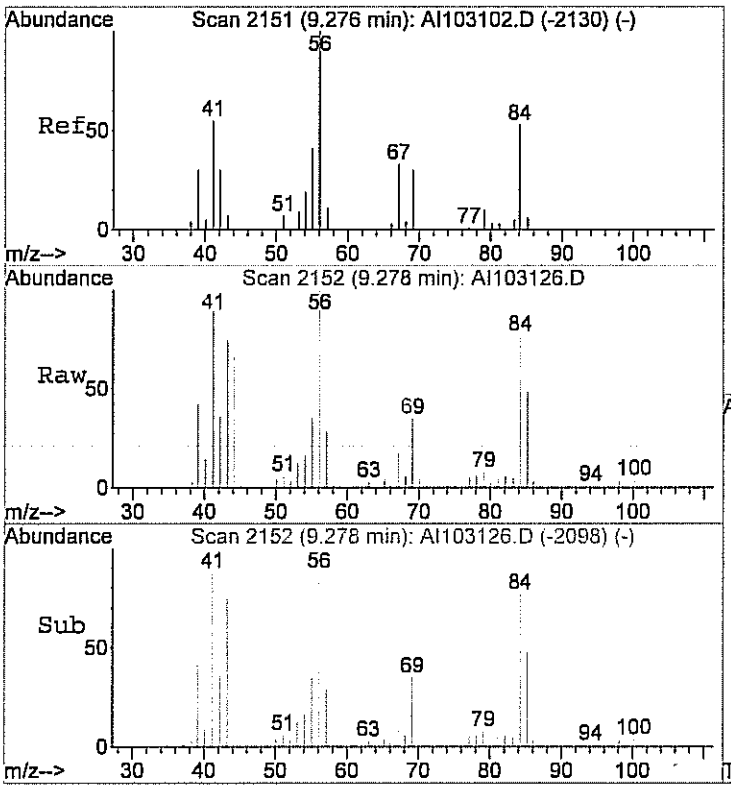


#27
Hexane
Concen: 4.76 ppb
RT: 6.86 min Scan# 1344
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 57 Resp: 86318

Ion	Ratio	Lower	Upper
57	100		
41	86.9	75.5	115.5
56	59.7	35.9	75.9

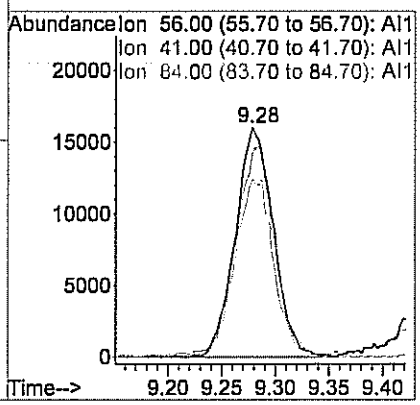


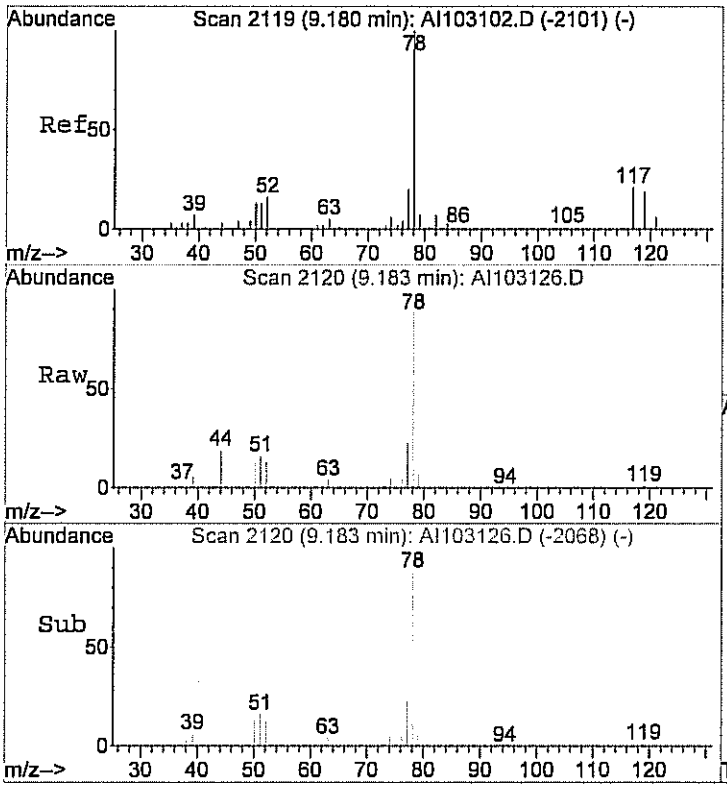


#34
Cyclohexane
Concen: 2.19 ppb
RT: 9.28 min Scan# 2152
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 56 Resp: 39426

Ion	Ratio	Lower	Upper
56	100		
41	93.4	49.1	89.1#
84	78.5	114.6	154.6#

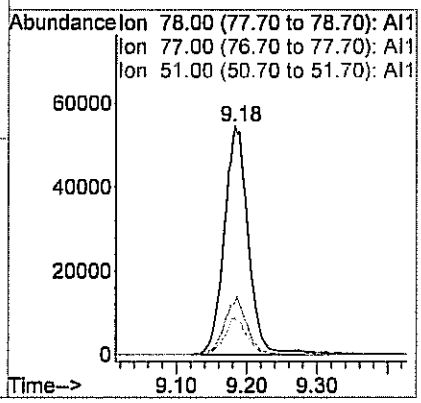


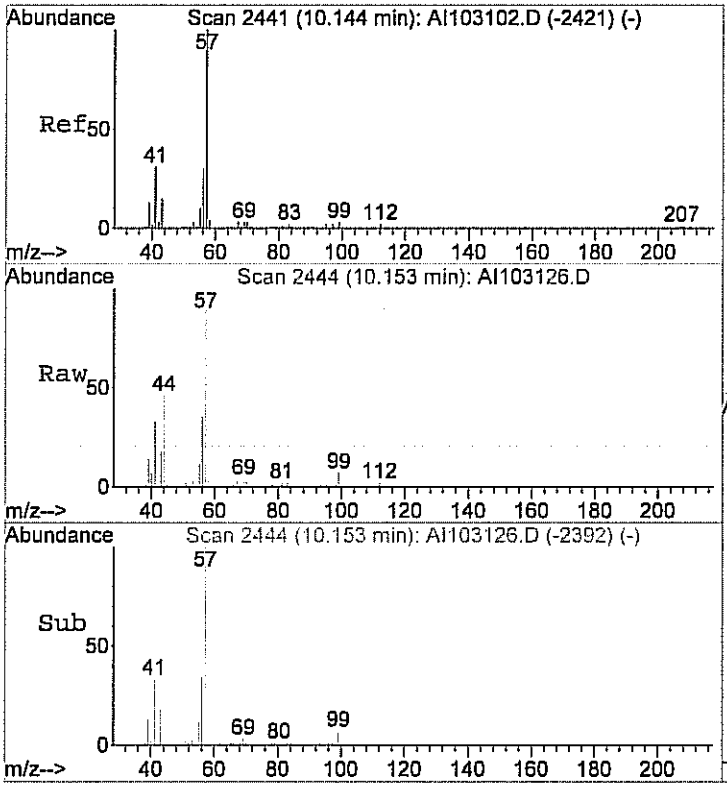


#36
Benzene
Concen: 2.43 ppb
RT: 9.18 min Scan# 2120
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 78 Resp: 130616

Ion	Ratio	Lower	Upper
78	100		
77	25.5	5.2	45.2
51	17.4	0.0	37.6

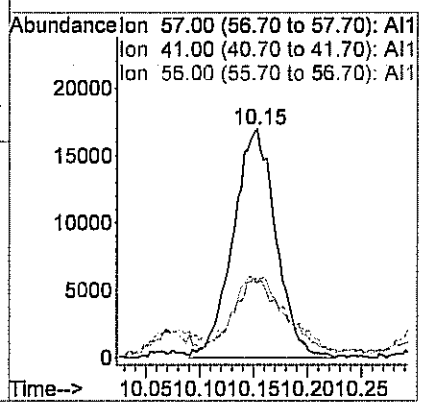


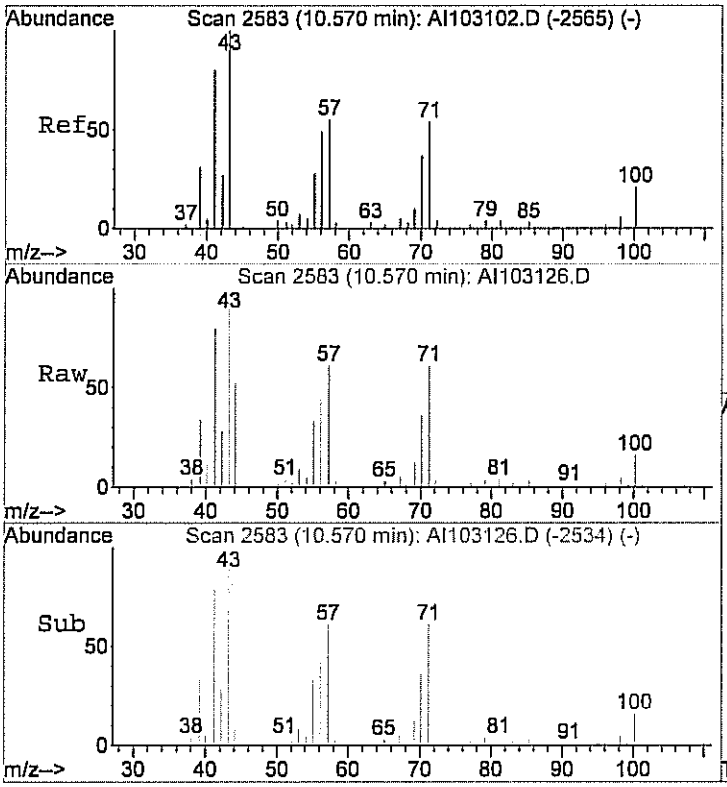


#39
2,2,4-trimethylpentane
Concen: 0.82 ppb
RT: 10.15 min Scan# 2444
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 57 Resp: 47168

Ion	Ratio	Lower	Upper
57	100		
41	54.1	17.9	57.9
56	67.1	13.7	53.7#

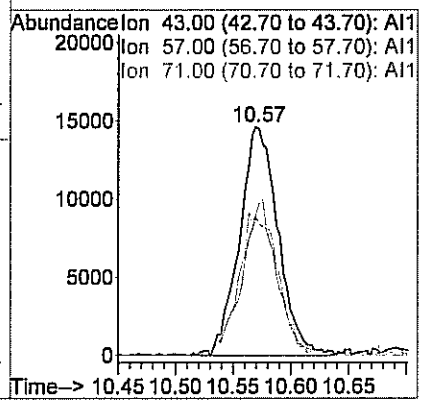


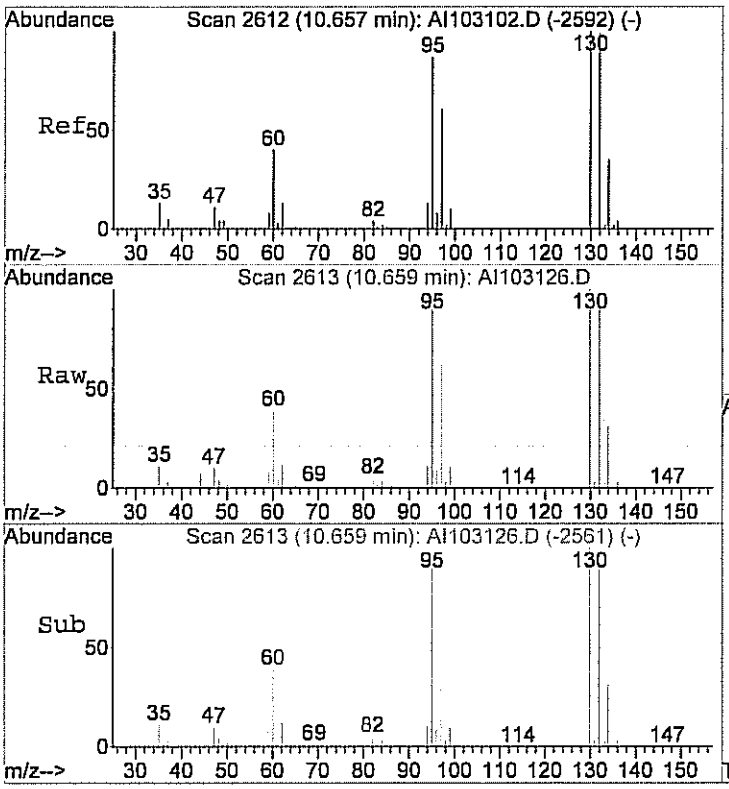


#40
Heptane
Concen: 1.97 ppb
RT: 10.57 min Scan# 2583
Delta R.T. -0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 43 Resp: 34041

Ion	Ratio	Lower	Upper
43	100		
57	60.2	32.1	72.1
71	65.9	35.5	75.5

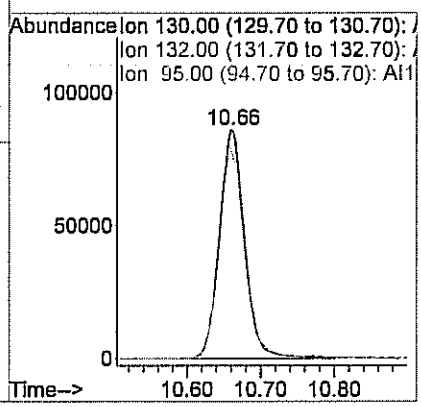


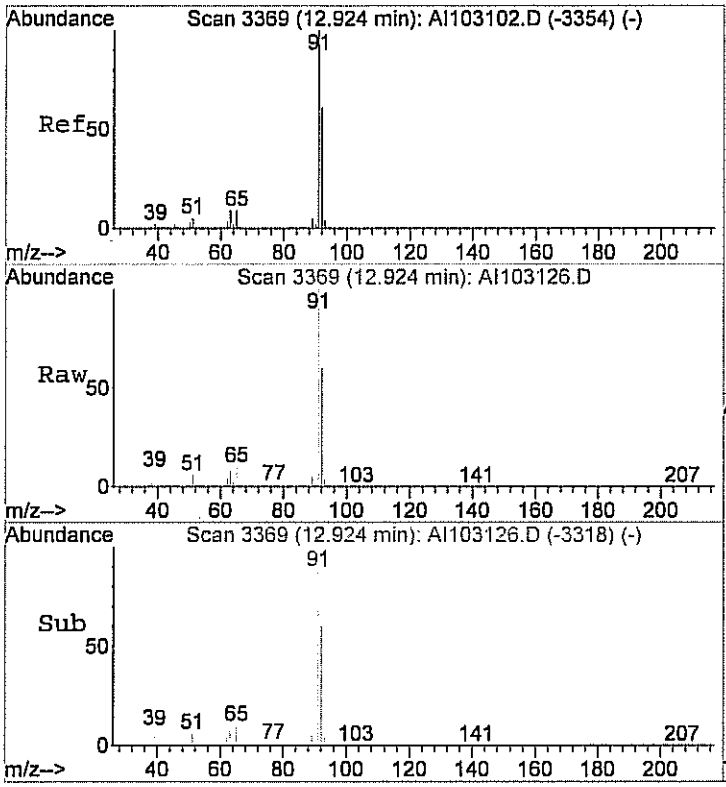


#41
Trichloroethene
Concen: 5.55 ppb
RT: 10.66 min Scan# 2613
Delta R.T. 0.01 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:130 Resp: 205962

Ion	Ratio	Lower	Upper
130	100		
132	97.4	79.0	119.0
95	92.6	76.8	116.8

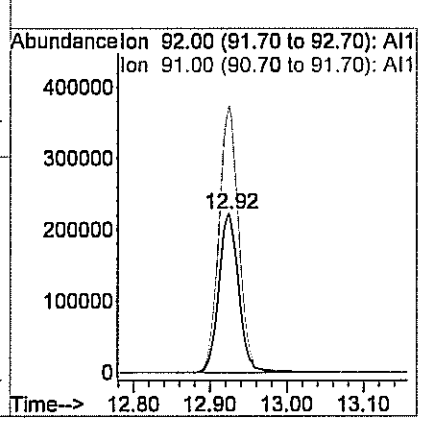


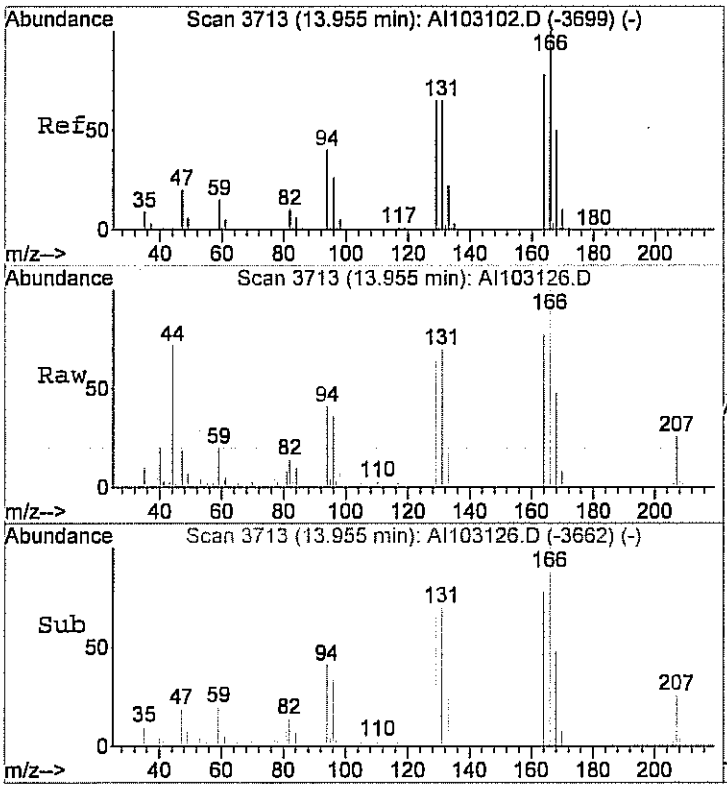


#48
Toluene
Concen: 11.00 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 92 Resp: 396582

Ion	Ratio	Lower	Upper
92	100		
91	166.6	159.8	199.8

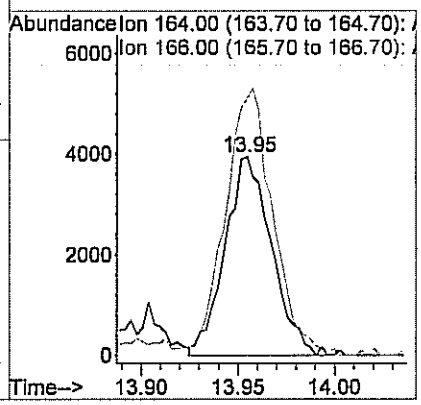


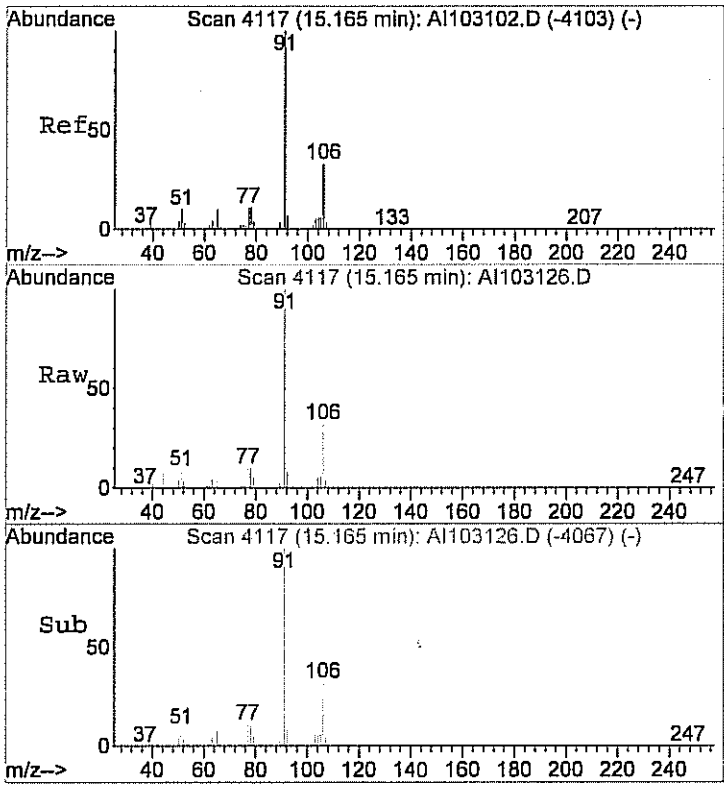


#53
Tetrachloroethylene
Concen: 0.15 ppb
RT: 13.95 min Scan# 3713
Delta R.T. 0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:164 Resp: 6577

Ion	Ratio	Lower	Upper
164	100		
166	135.7	109.4	149.4

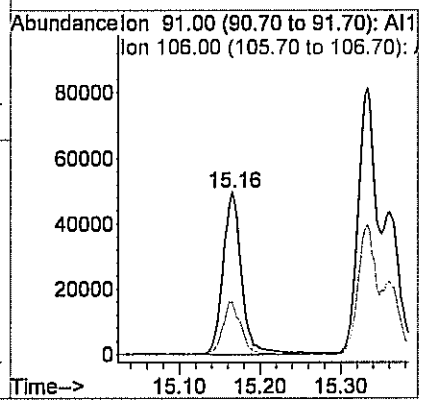


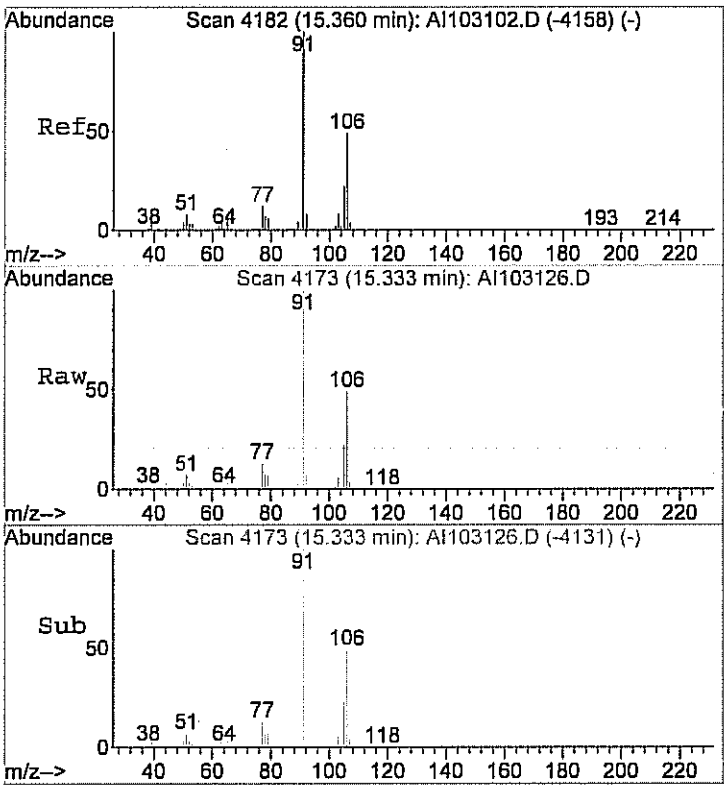


#55
Ethylbenzene
Concen: 1.12 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 91 Resp: 80812

Ion	Ratio	Lower	Upper
91	100		
106	31.5	10.7	50.7

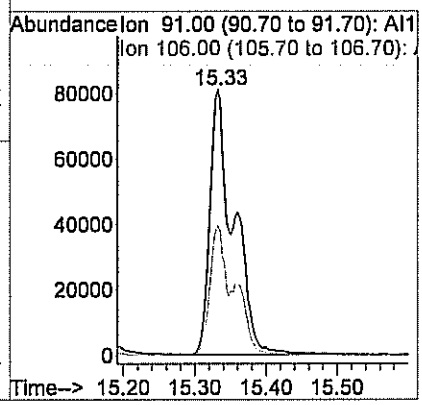


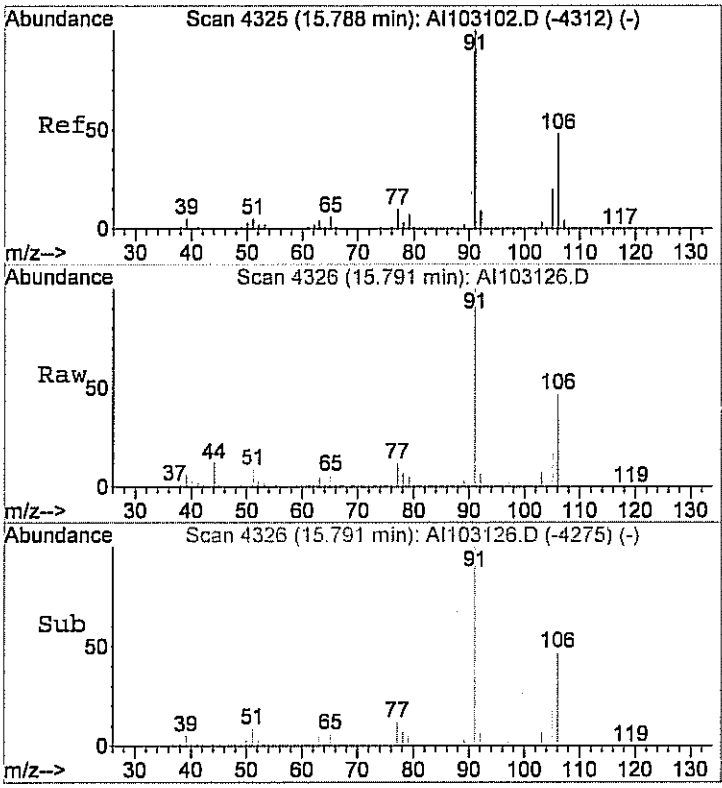


#56
m&p-xylene
Concen: 3.12 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 91 Resp: 187335

Ion	Ratio	Lower	Upper
91	100		
106	50.9	27.5	67.5

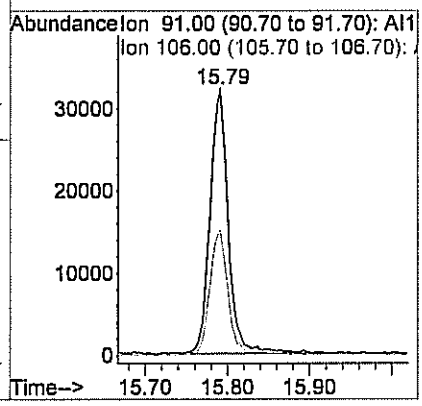


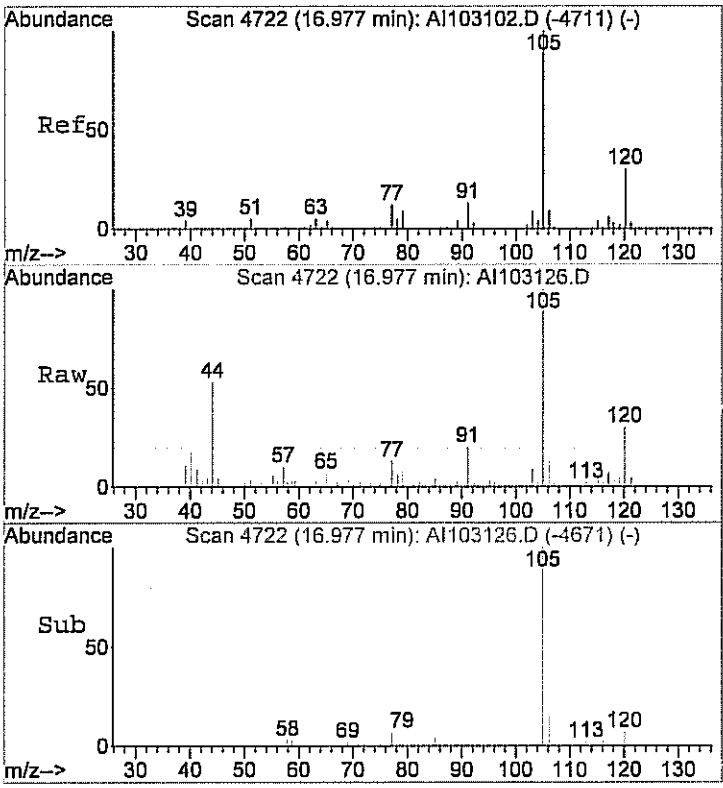


#59
o-xylene
Concen: 0.64 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion: 91 Resp: 49623

Ion	Ratio	Lower	Upper
91	100		
106	48.7	26.2	66.2

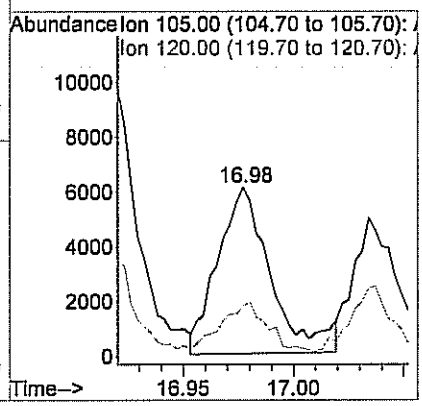


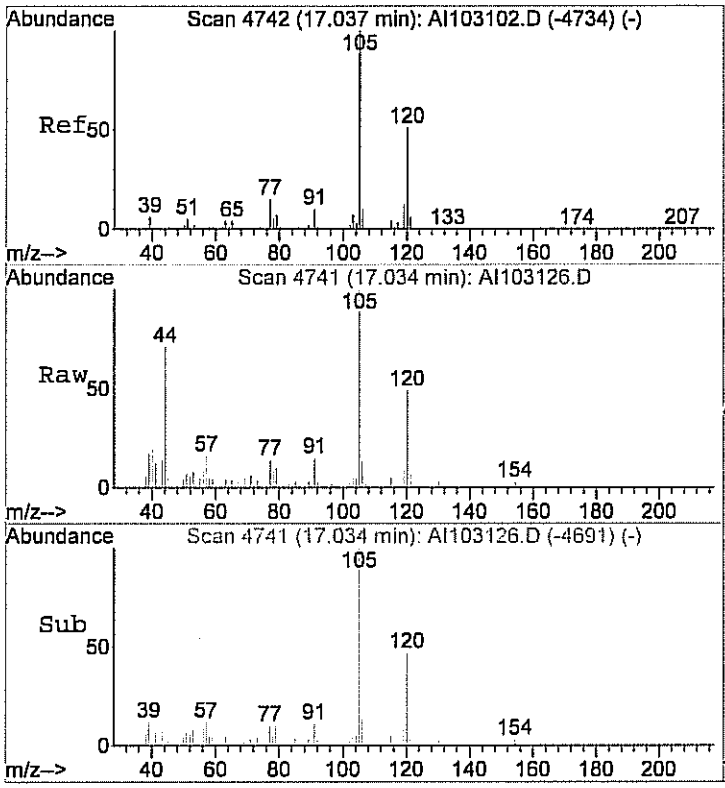


#63
4-ethyltoluene
Concen: 0.17 ppb
RT: 16.98 min Scan# 4722
Delta R.T. 0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:105 Resp: 10142

Ion	Ratio	Lower	Upper
105	100		
120	31.5	8.1	48.1

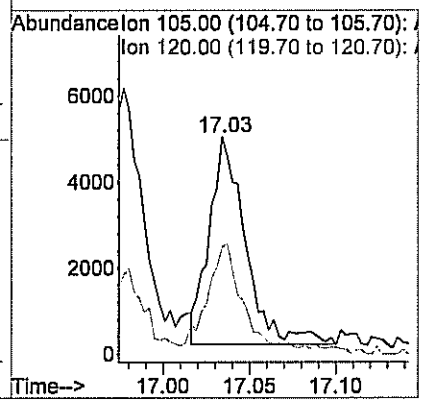


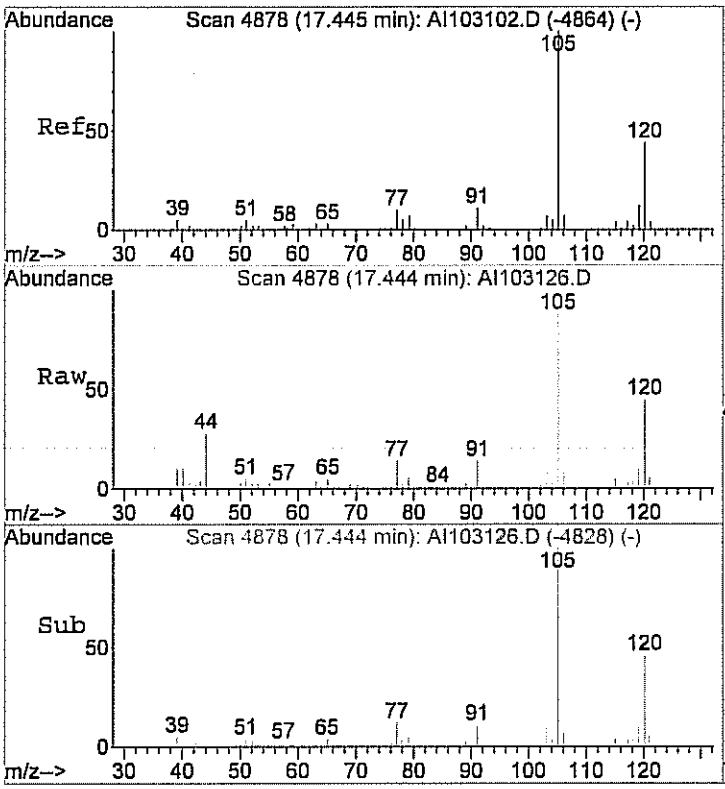


#64
1,3,5-trimethylbenzene
Concen: 0.10 ppb
RT: 17.03 min Scan# 4741
Delta R.T. -0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:105 Resp: 7033

Ion	Ratio	Lower	Upper
105	100		
120	57.3	26.2	66.2

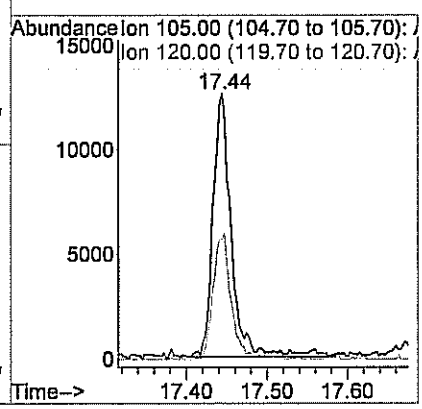




#65
1,2,4-trimethylbenzene
Concen: 0.37 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103126.D
Acq: 1 Nov 2011 12:12 am

Tgt Ion:105 Resp: 19805

Ion	Ratio	Lower	Upper
105	100		
120	47.9	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110108.D Vial: 9
Acq On : 1 Nov 2011 4:02 pm Operator: RJP
Sample : C1110054-011A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 16:23:37 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

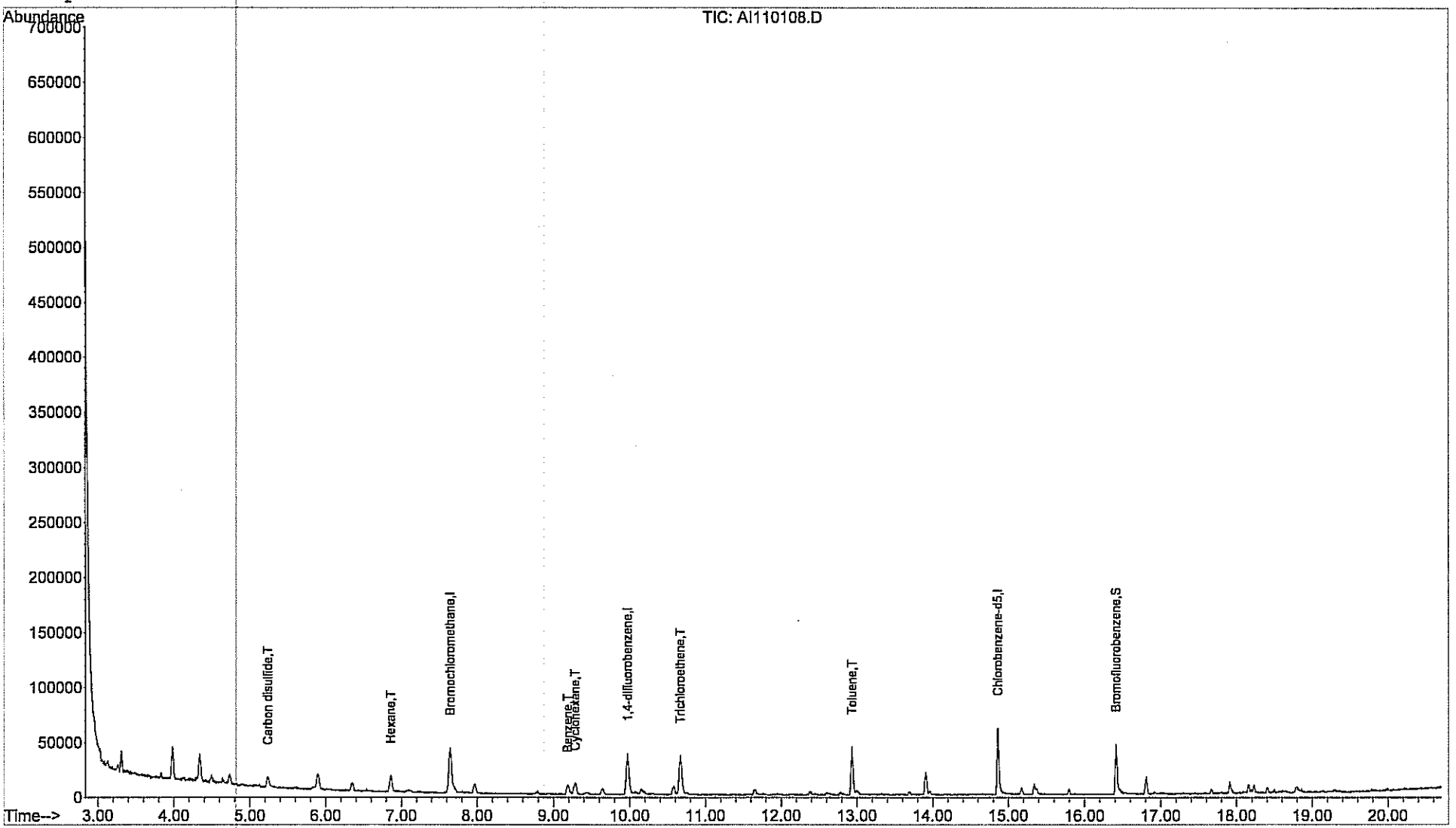
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	18927	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	43957	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	41189	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	17692	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
20) Carbon disulfide	5.24	76	17320	0.29	ppb		99
27) Hexane	6.86	57	6044	0.37	ppb		91
34) Cyclohexane	9.28	56	3148	0.23	ppb	#	53
36) Benzene	9.19	78	10984	0.26	ppb		92
41) Trichloroethene	10.67	130	17181	0.60	ppb		98
48) Toluene	12.94	92	21897	0.86	ppb		93

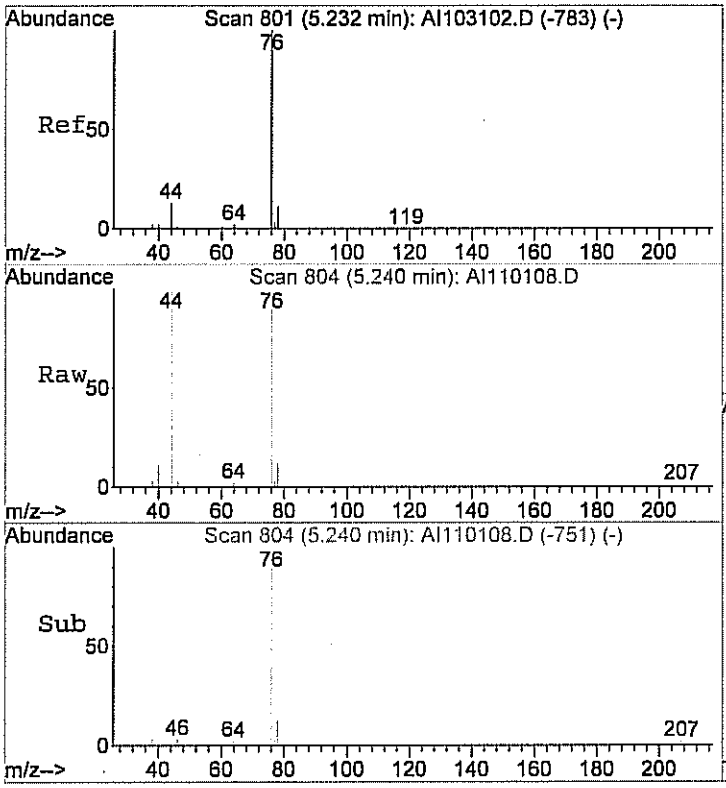
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110108.D Vial: 9
Acq On : 1 Nov 2011 4:02 pm Operator: RJP
Sample : C1110054-011A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:06 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration

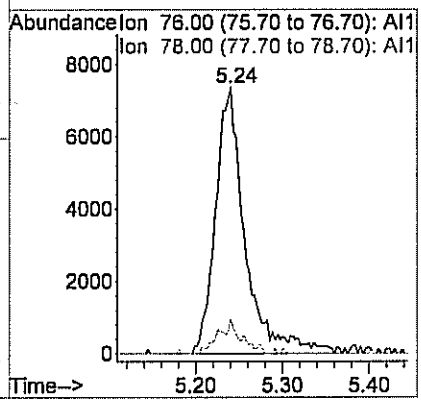


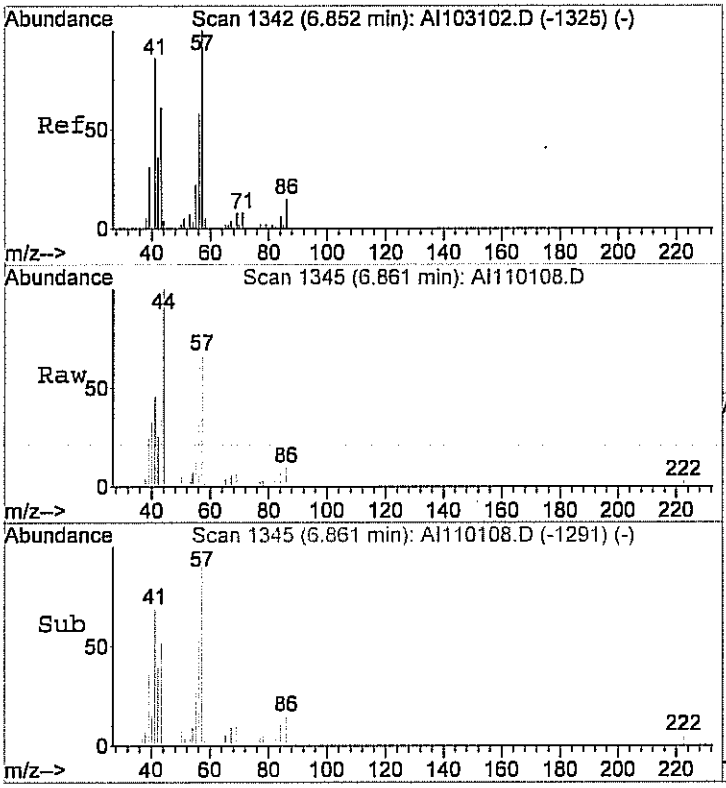


#20
Carbon disulfide
Concen: 0.29 ppb
RT: 5.24 min Scan# 804
Delta R.T. 0.01 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion: 76 Resp: 17320

Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	29.6

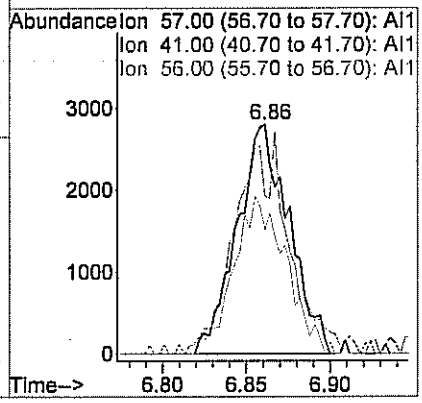


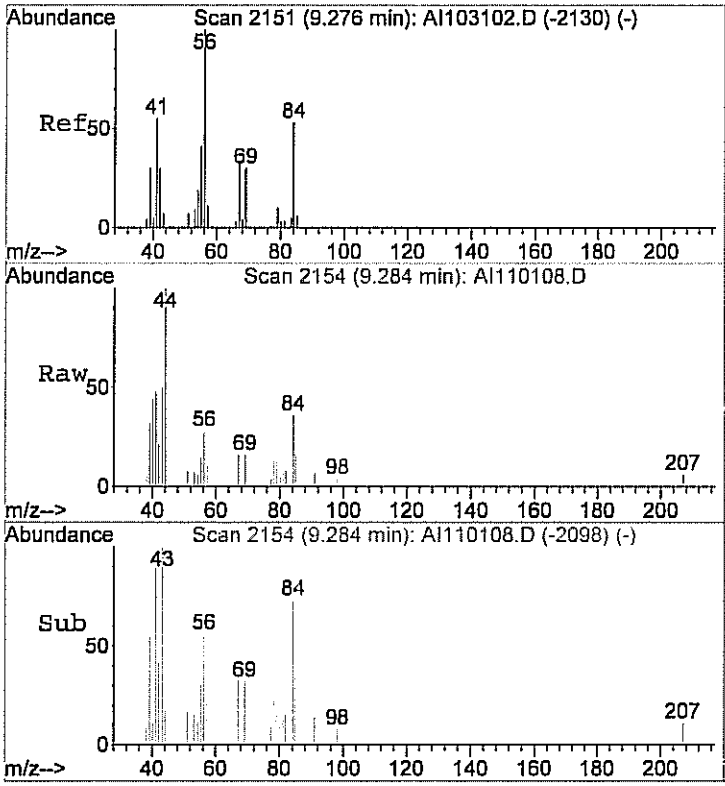


#27
Hexane
Concen: 0.37 ppb
RT: 6.86 min Scan# 1345
Delta R.T. 0.01 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion: 57 Resp: 6044

Ion	Ratio	Lower	Upper
57	100		
41	99.5	75.5	115.5
56	68.5	35.9	75.9

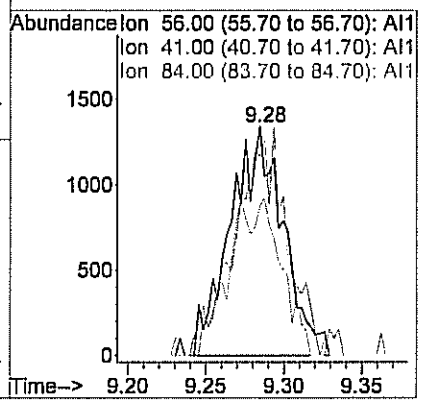


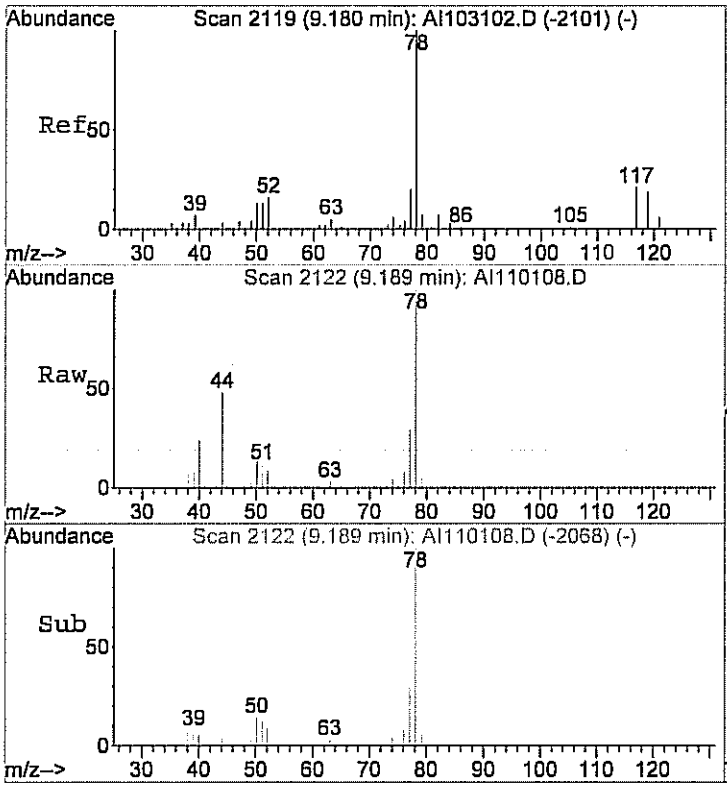


#34
Cyclohexane
Concen: 0.23 ppb
RT: 9.28 min Scan# 2154
Delta R.T. 0.02 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion: 56 Resp: 3148

Ion	Ratio	Lower	Upper
56	100		
41	96.1	49.1	89.1#
84	69.5	114.6	154.6#

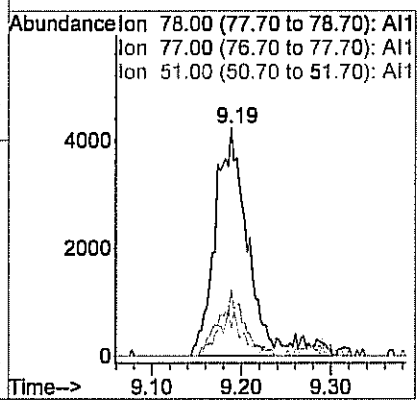


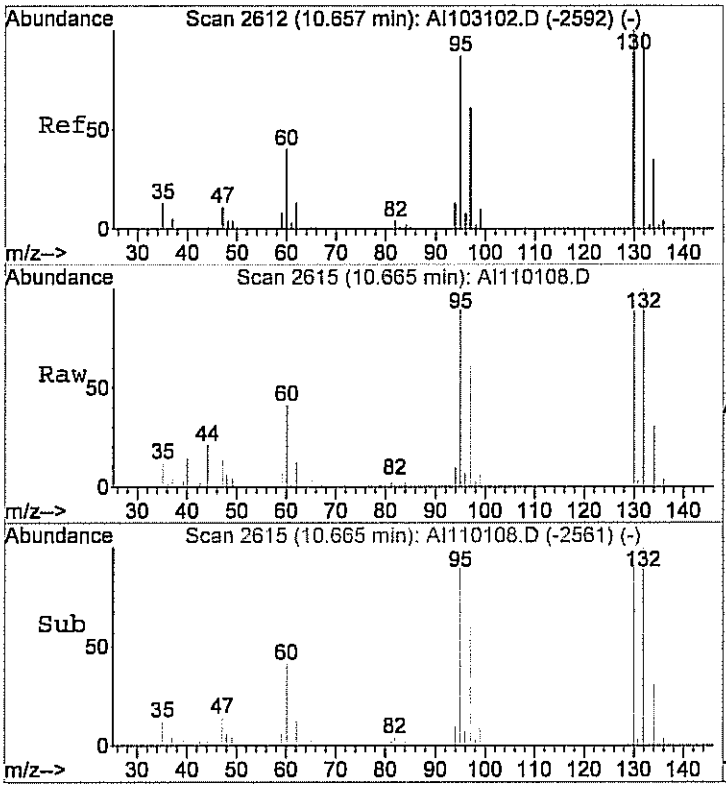


#36
Benzene
Concen: 0.26 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion: 78 Resp: 10984

Ion	Ratio	Lower	Upper
78	100		
77	21.4	5.2	45.2
51	13.4	0.0	37.6

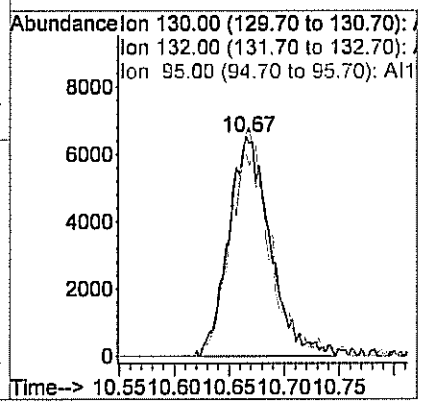


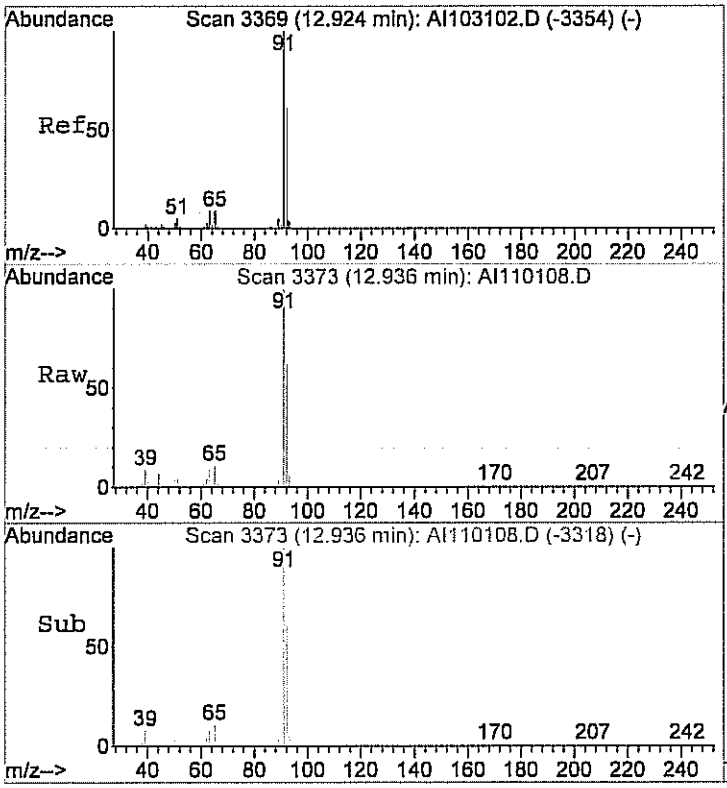


#41
Trichloroethene
Concen: 0.60 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion:130 Resp: 17181

Ion	Ratio	Lower	Upper
130	100		
132	100.1	79.0	119.0
95	94.2	76.8	116.8

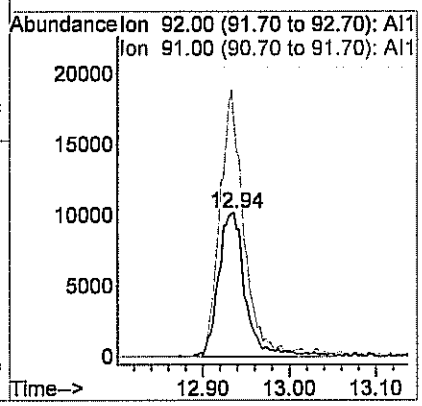




#48
Toluene
Concen: 0.86 ppb
RT: 12.94 min Scan# 3373
Delta R.T. 0.01 min
Lab File: AI110108.D
Acq: 1 Nov 2011 4:02 pm

Tgt Ion: 92 Resp: 21897

Ion	Ratio	Lower	Upper
92	100		
91	169.4	159.8	199.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	0.30	0.15		ppbV	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzene	0.79	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroform	0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Cyclohexane	0.82	0.15		ppbV	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 11	0.40	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 12	0.50	0.15		ppbV	1	11/1/2011 12:44:00 AM
Heptane	0.45	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
o-Xylene	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Toluene	1.9	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Surr: Bromofluorobenzene	88.0	70-130		%REC	1	11/1/2011 12:44:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:44:00 AM
Benzene	2.6	0.49		ug/m3	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:44:00 AM
Chloroform	0.74	0.74		ug/m3	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Cyclohexane	2.9	0.52		ug/m3	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
Ethylbenzene	1.6	0.66		ug/m3	1	11/1/2011 12:44:00 AM
Freon 11	2.3	0.86		ug/m3	1	11/1/2011 12:44:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 12:44:00 AM
m&p-Xylene	5.8	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:44:00 AM
o-Xylene	1.5	0.66		ug/m3	1	11/1/2011 12:44:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:44:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:44:00 AM
Toluene	7.4	0.57		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:44:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103127.D Vial: 6
Acq On : 1 Nov 2011 12:44 am Operator: RJP
Sample : C1110054-012A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 01:05:30 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

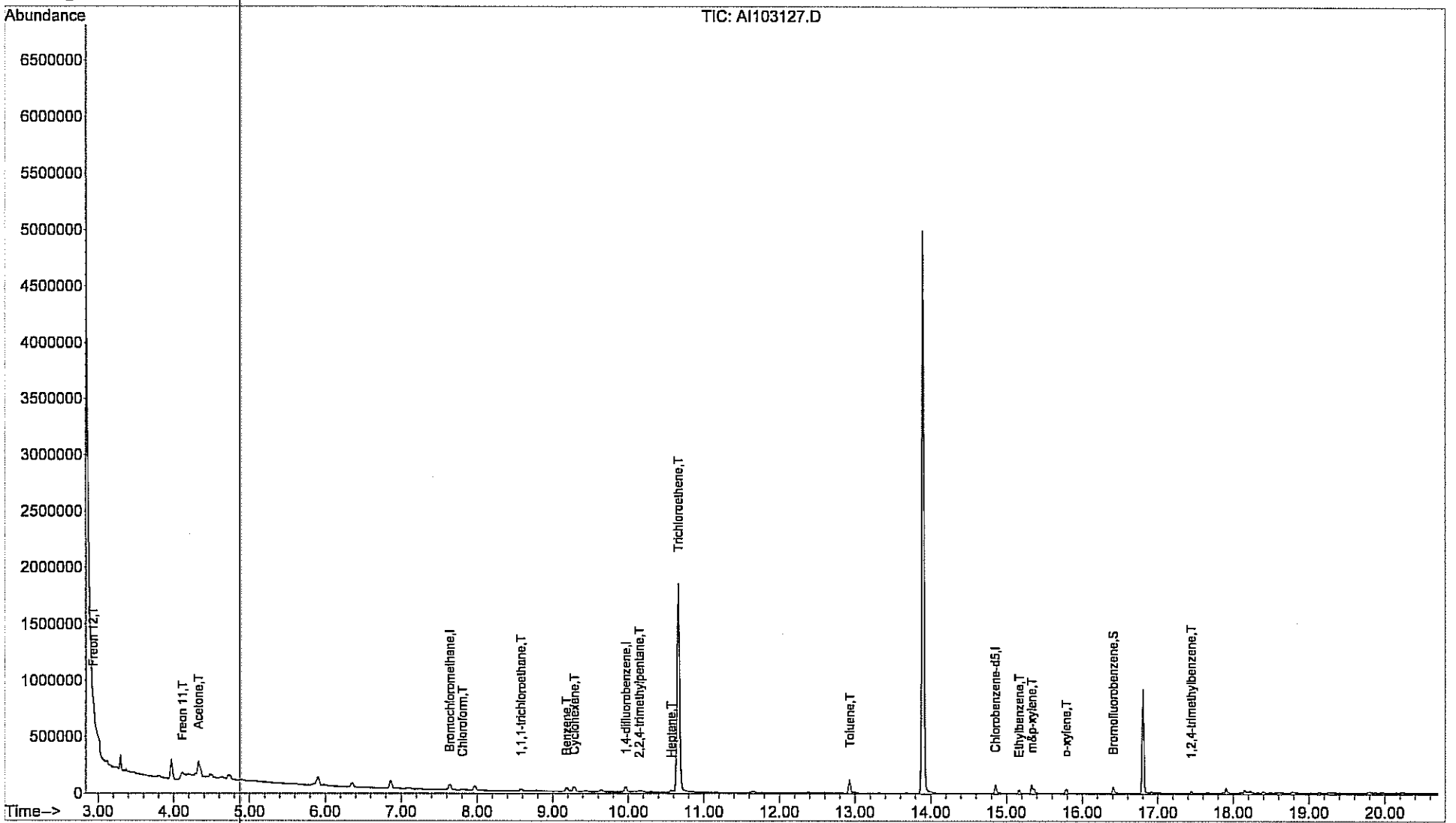
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	19589	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.96	114	53346	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	48312	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	20268	0.88	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	37578	0.50	ppb		95
13) Freon 11	4.11	101	17977	0.40	ppb		98
14) Acetone	4.32	58	10172	1.78	ppb	#	1
29) Chloroform	7.80	83	8543	0.15	ppb		95
33) 1,1,1-trichloroethane	8.58	97	16434	0.33	ppb		94
34) Cyclohexane	9.28	56	13836	0.82	ppb	#	60
36) Benzene	9.19	78	39616	0.79	ppb		94
39) 2,2,4-trimethylpentane	10.15	57	16197	0.30	ppb	#	72
40) Heptane	10.58	43	7279	0.45	ppb		91
41) Trichloroethene	10.66	130	821927	23.65	ppb		97
48) Toluene	12.93	92	57357	1.93	ppb		92
55) Ethylbenzene	15.16	91	21662	0.36	ppb		100
56) m&p-xylene	15.33	91	65232	1.32	ppb		98
59) o-xylene	15.79	91	20860	0.33	ppb		93
65) 1,2,4-trimethylbenzene	17.44	105	12711	0.28	ppb		89

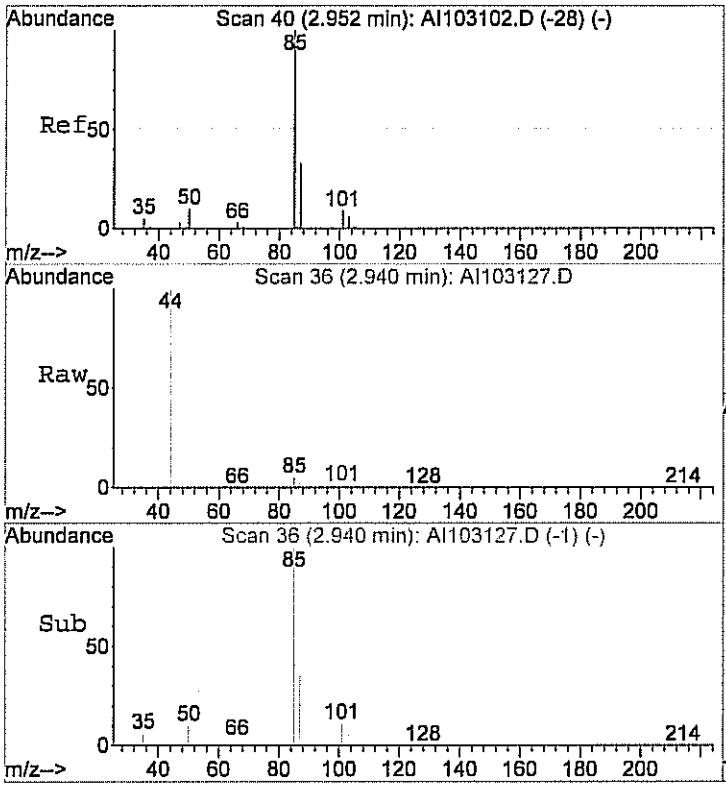
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103127.D Vial: 6
Acq On : 1 Nov 2011 12:44 am Operator: RJP
Sample : C1110054-012A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:26 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration

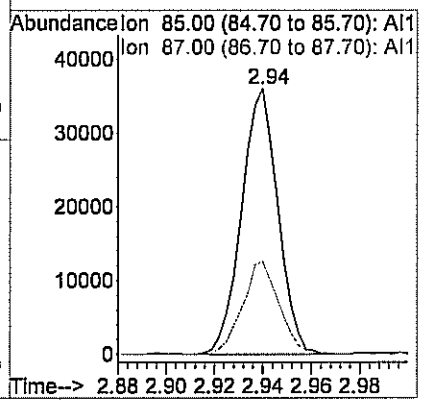


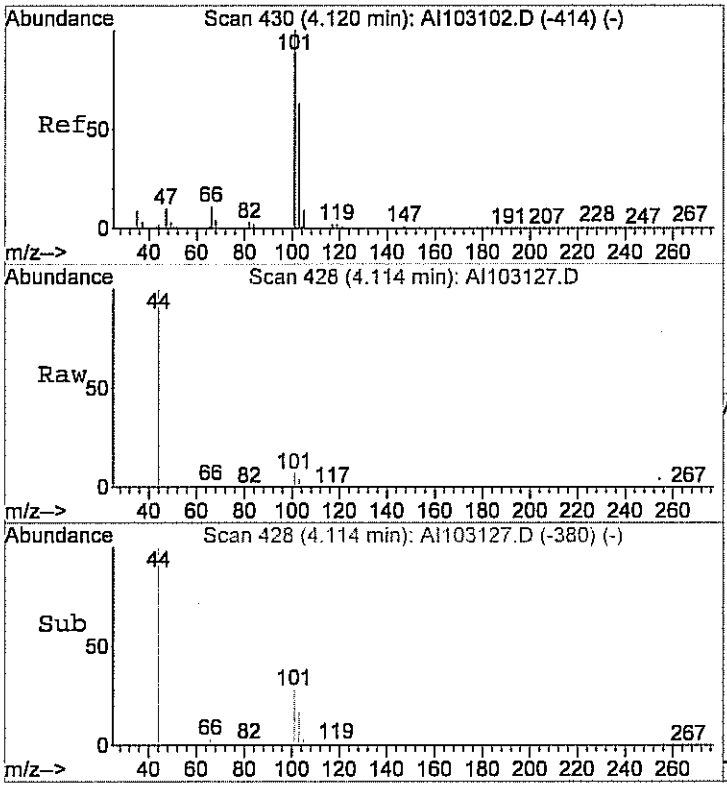


#3
Freon 12
Concen: 0.50 ppb
RT: 2.94 min Scan# 36
Delta R.T. -0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 85 Resp: 37578

Ion	Ratio	Lower	Upper
85	100		
87	34.9	12.2	52.2

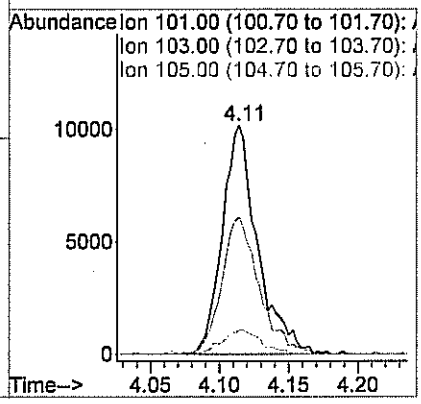


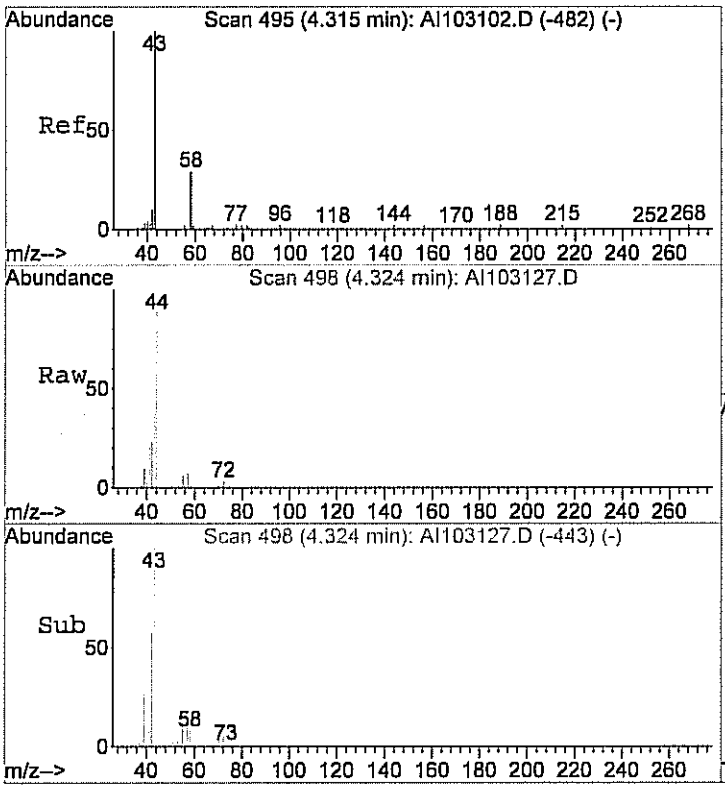


#13
Freon 11
Concen: 0.40 ppb
RT: 4.11 min Scan# 428
Delta R.T. -0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion:101 Resp: 17977

Ion	Ratio	Lower	Upper
101	100		
103	63.5	44.9	84.9
105	11.6	0.0	30.9

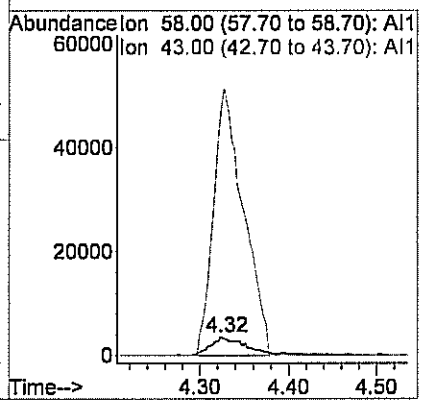


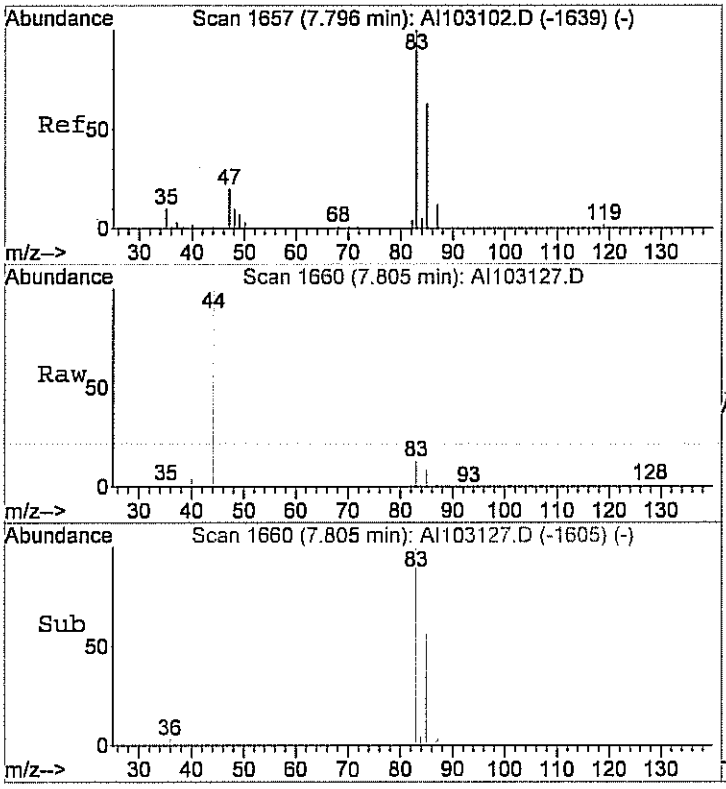


#14
Acetone
Concen: 1.78 ppb
RT: 4.32 min Scan# 498
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 58 Resp: 10172

Ion	Ratio	Lower	Upper
58	100		
43	1183.6	360.8	420.8#

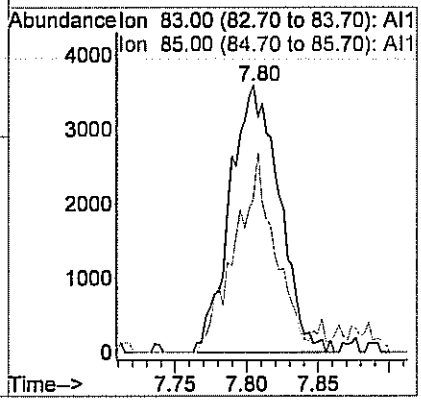


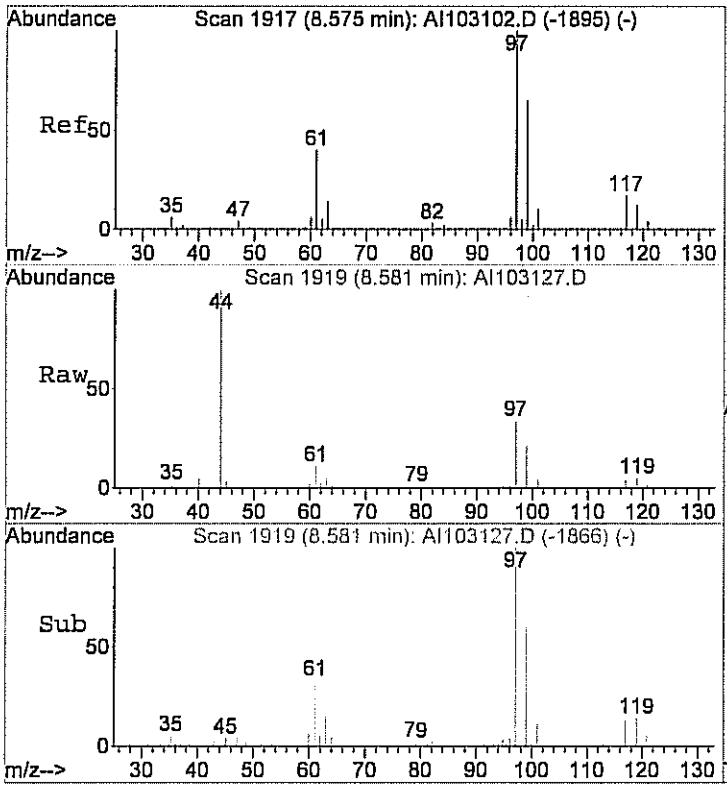


#29
Chloroform
Concen: 0.15 ppb
RT: 7.80 min Scan# 1660
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 83 Resp: 8543

Ion	Ratio	Lower	Upper
83	100		
85	60.9	45.0	85.0

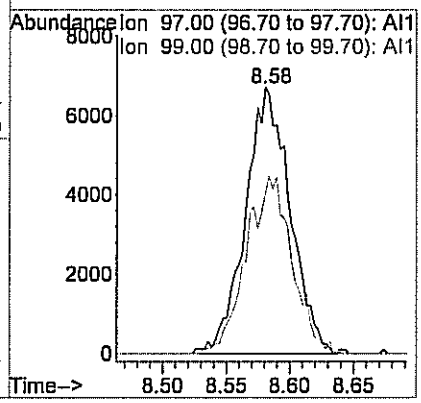


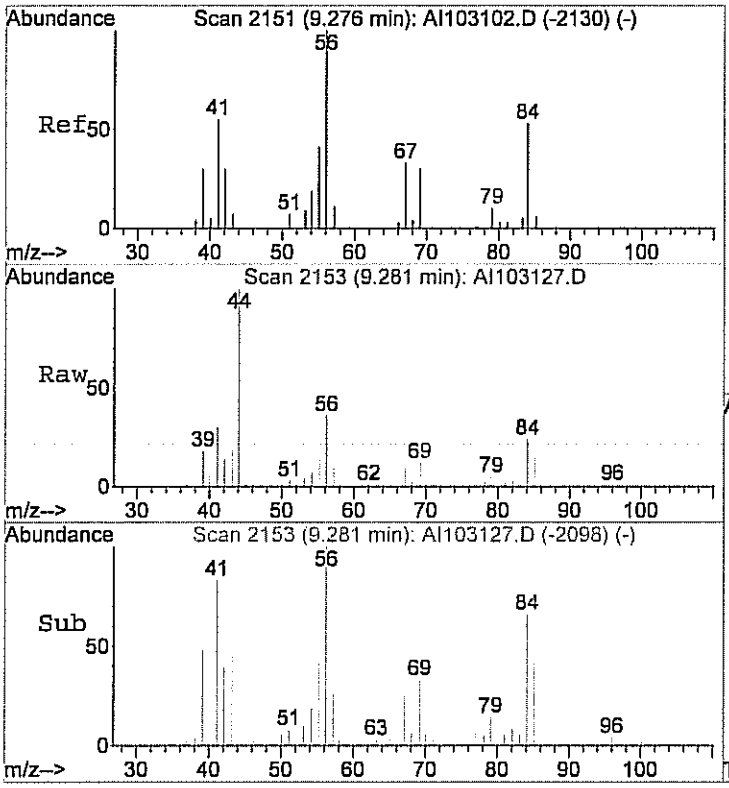


#33
1,1,1-trichloroethane
Concen: 0.33 ppb
RT: 8.58 min Scan# 1919
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 97 Resp: 16434

Ion	Ratio	Lower	Upper
97	100		
99	68.5	43.8	83.8

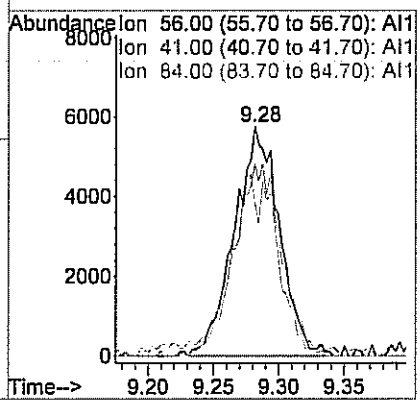


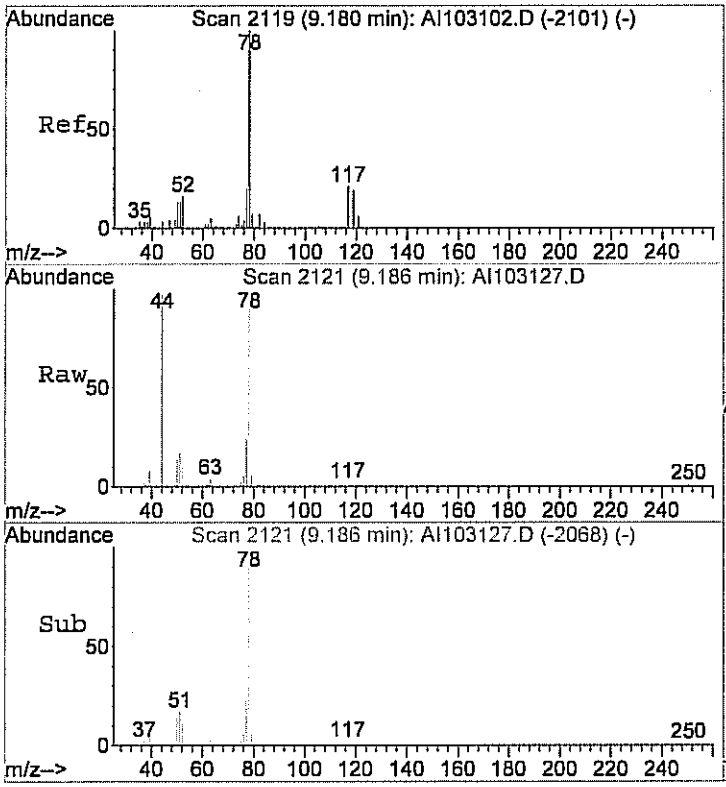


#34
Cyclohexane
Concen: 0.82 ppb
RT: 9.28 min Scan# 2153
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 56 Resp: 13836

Ion	Ratio	Lower	Upper
56	100		
41	89.5	49.1	89.1#
84	77.1	114.6	154.6#

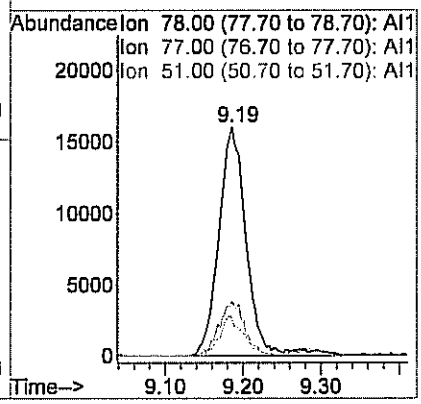


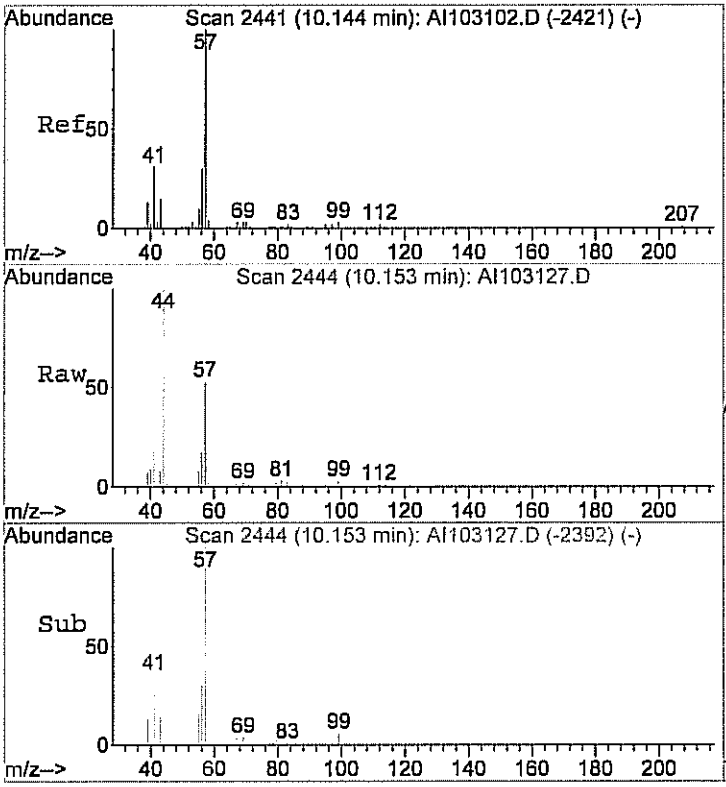


#36
Benzene
Concen: 0.79 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 78 Resp: 39616

Ion	Ratio	Lower	Upper
78	100		
77	22.5	5.2	45.2
51	14.9	0.0	37.6

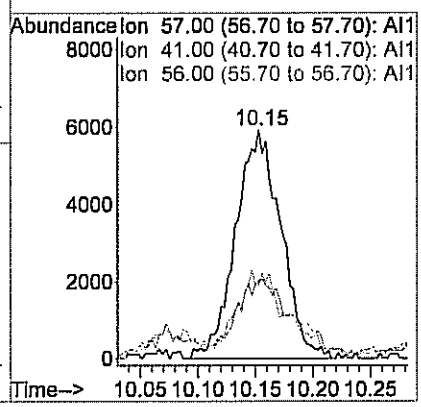


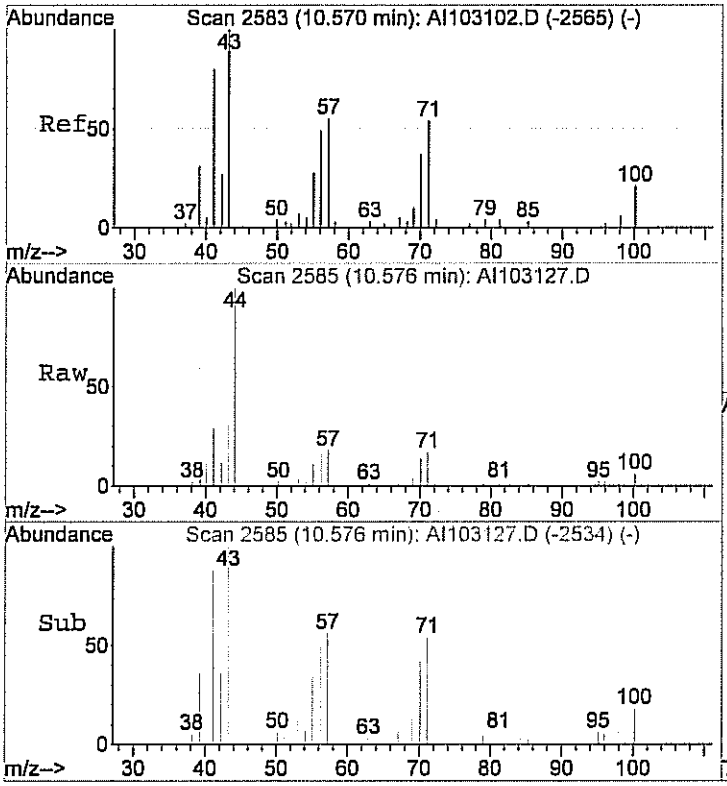


#39
2,2,4-trimethylpentane
Concen: 0.30 ppb
RT: 10.15 min Scan# 2444
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 57 Resp: 16197

Ion	Ratio	Lower	Upper
57	100		
41	60.9	17.9	57.9#
56	43.5	13.7	53.7

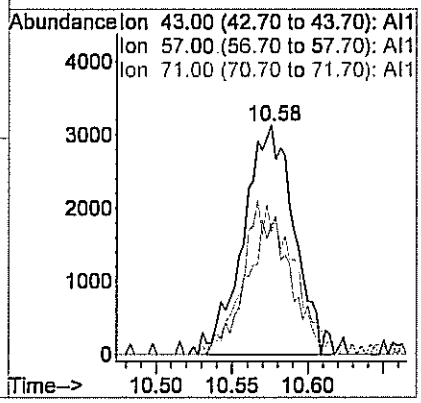


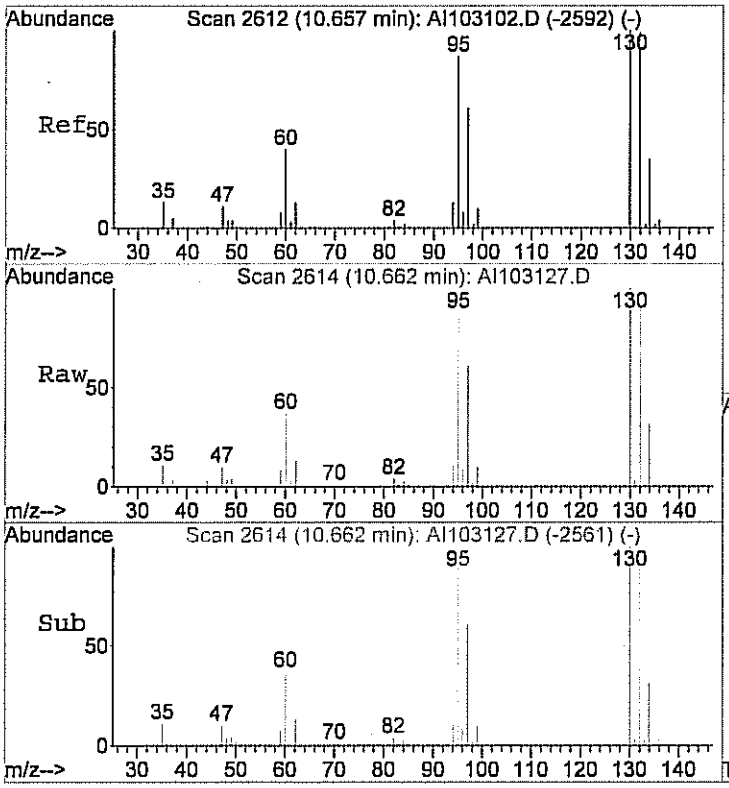


#40
Heptane
Concen: 0.45 ppb
RT: 10.58 min Scan# 2585
Delta R.T. 0.00 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 43 Resp: 7279

Ion	Ratio	Lower	Upper
43	100		
57	55.4	32.1	72.1
71	64.4	35.5	75.5

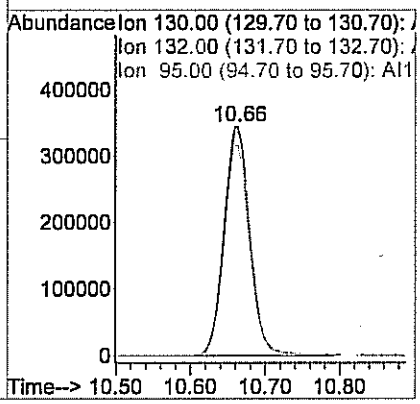


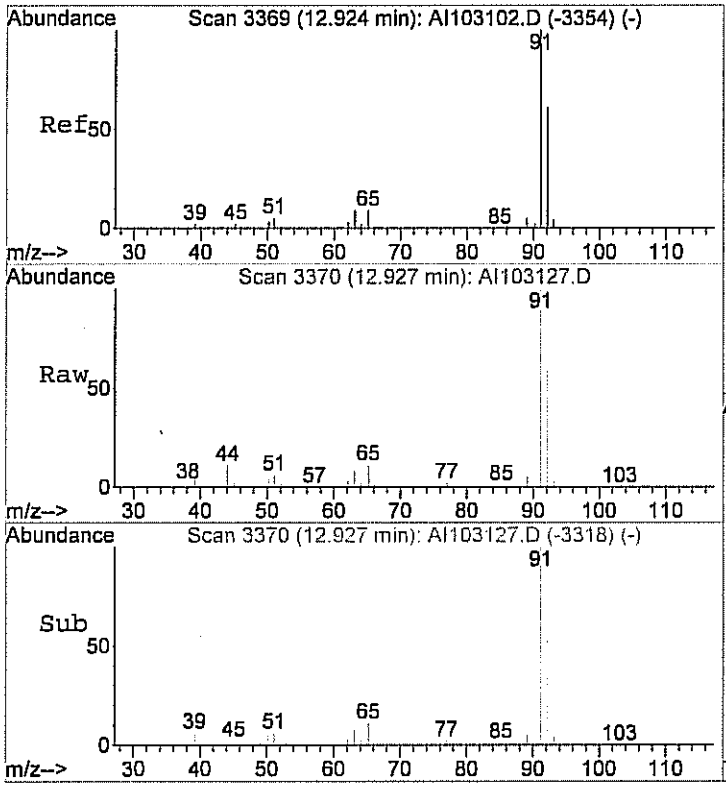


#41
Trichloroethene
Concen: 23.65 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion:130 Resp: 821927

Ion	Ratio	Lower	Upper
130	100		
132	97.5	79.0	119.0
95	92.1	76.8	116.8

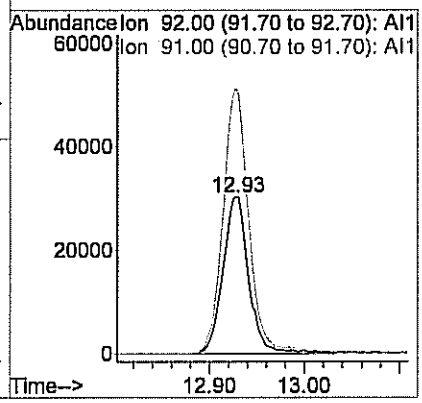


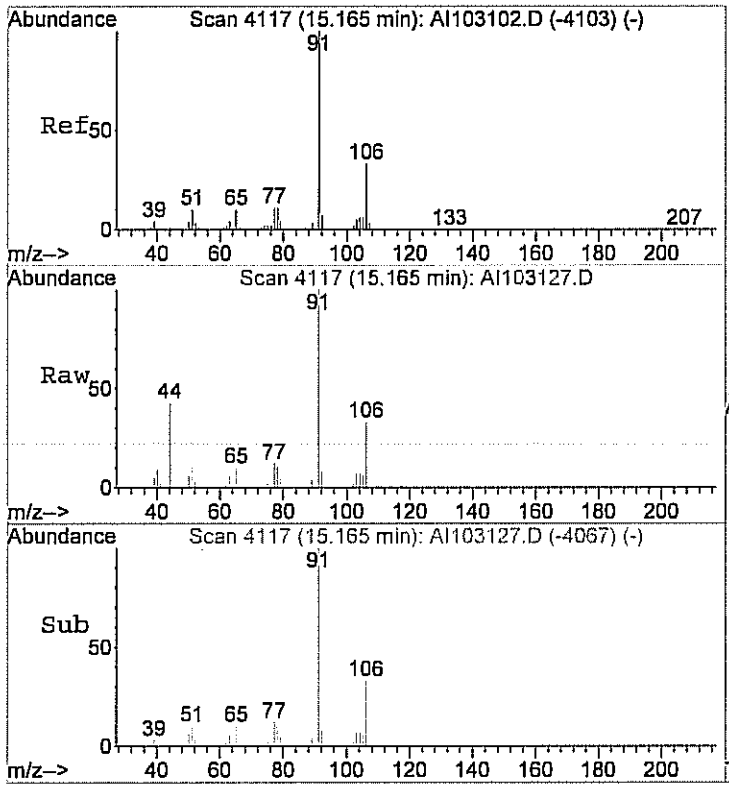


#48
Toluene
Concen: 1.93 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 92 Resp: 57357

Ion	Ratio	Lower	Upper
92	100		
91	168.5	159.8	199.8

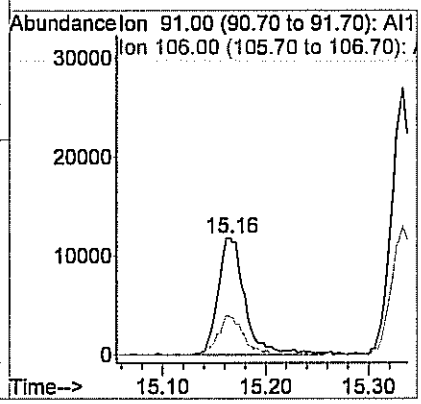


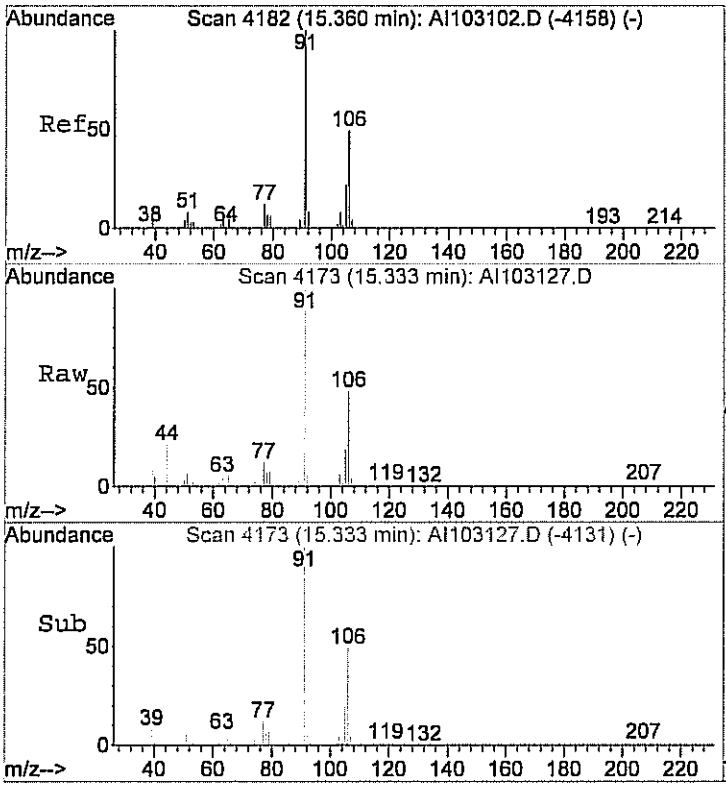


#55
Ethylbenzene
Concen: 0.36 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 91 Resp: 21662

Ion	Ratio	Lower	Upper
91	100		
106	30.8	10.7	50.7

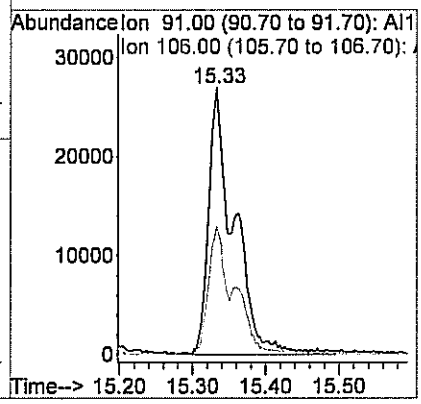


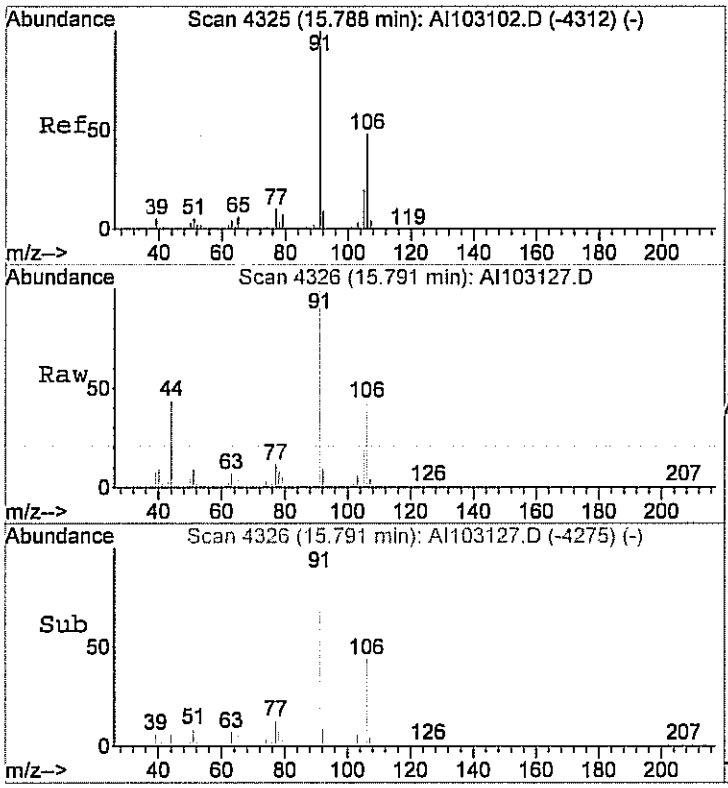


#56
m&p-xylene
Concen: 1.32 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 91 Resp: 65232

Ion	Ratio	Lower	Upper
91	100		
106	48.7	27.5	67.5

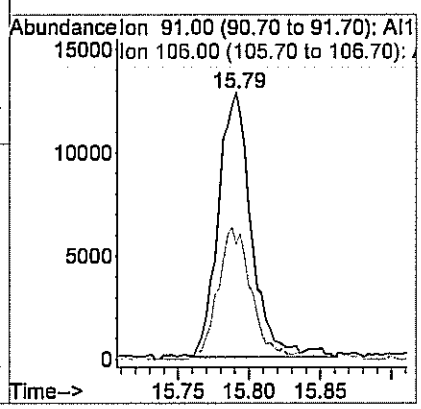


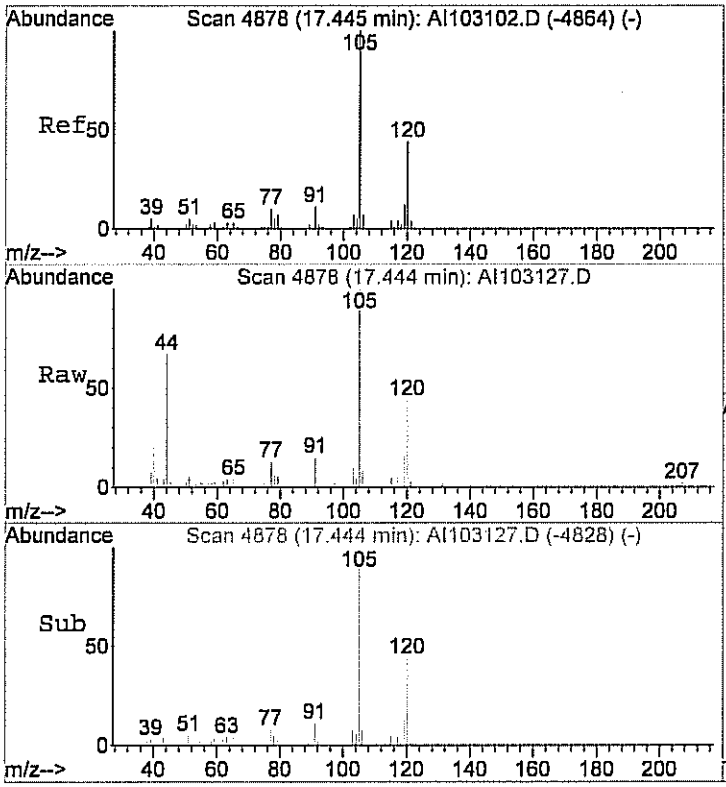


#59
o-xylene
Concen: 0.33 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion: 91 Resp: 20860

Ion	Ratio	Lower	Upper
91	100		
106	51.2	26.2	66.2

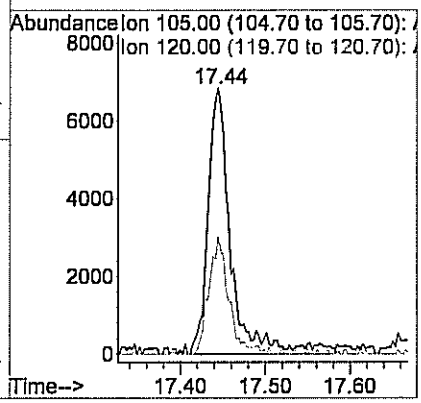




#65
1,2,4-trimethylbenzene
Concen: 0.28 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103127.D
Acq: 1 Nov 2011 12:44 am

Tgt Ion:105 Resp: 12711

Ion	Ratio	Lower	Upper
105	100		
120	38.1	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110109.D Vial: 10
Acq On : 1 Nov 2011 4:35 pm Operator: RJP
Sample : C1110054-012A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 16:56:27 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

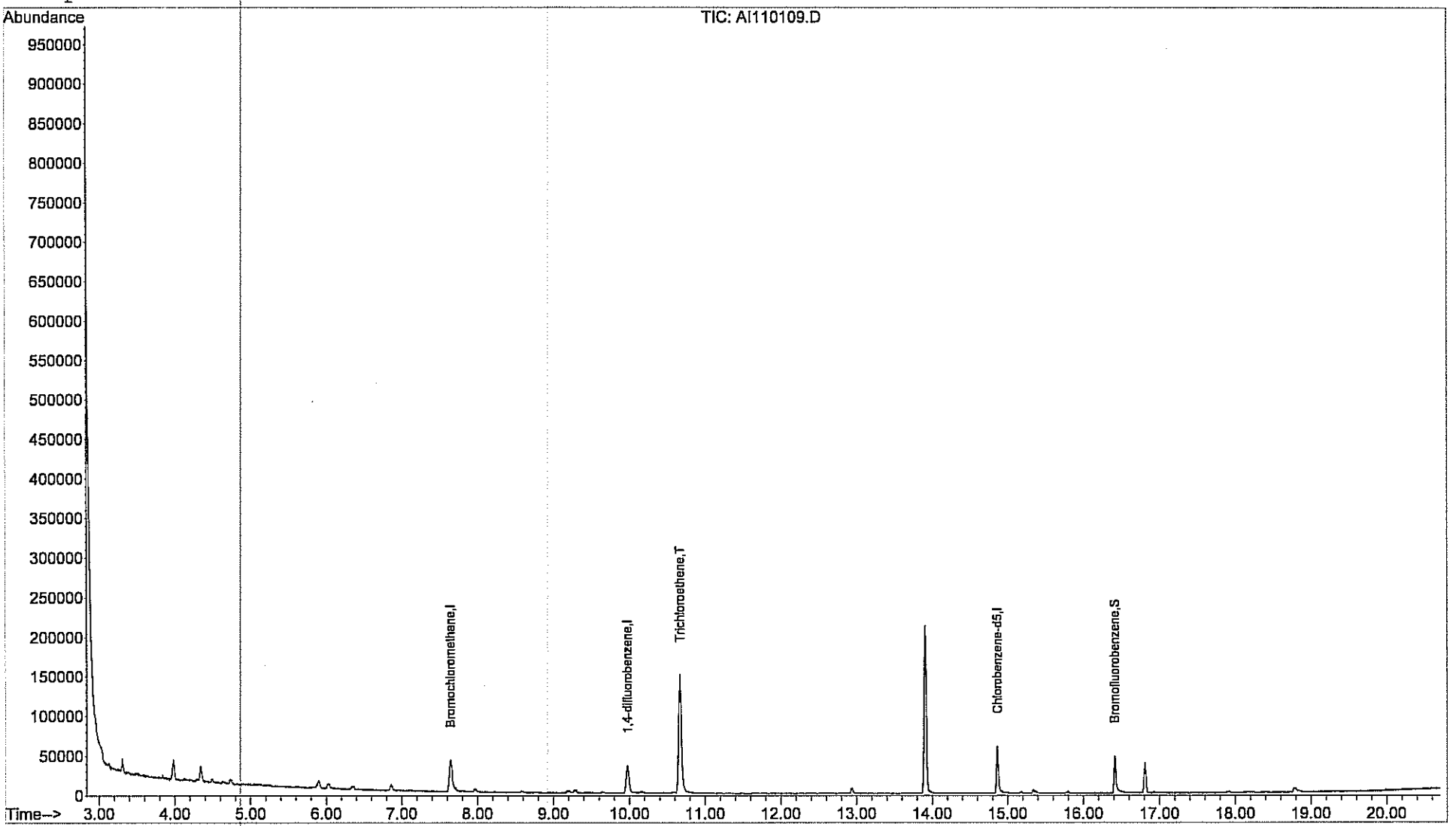
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	18476	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	42806	1.00	ppb	0.02
47) Chlorobenzene-d5	14.86	117	40355	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	17511	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.67	130	72487	2.60	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

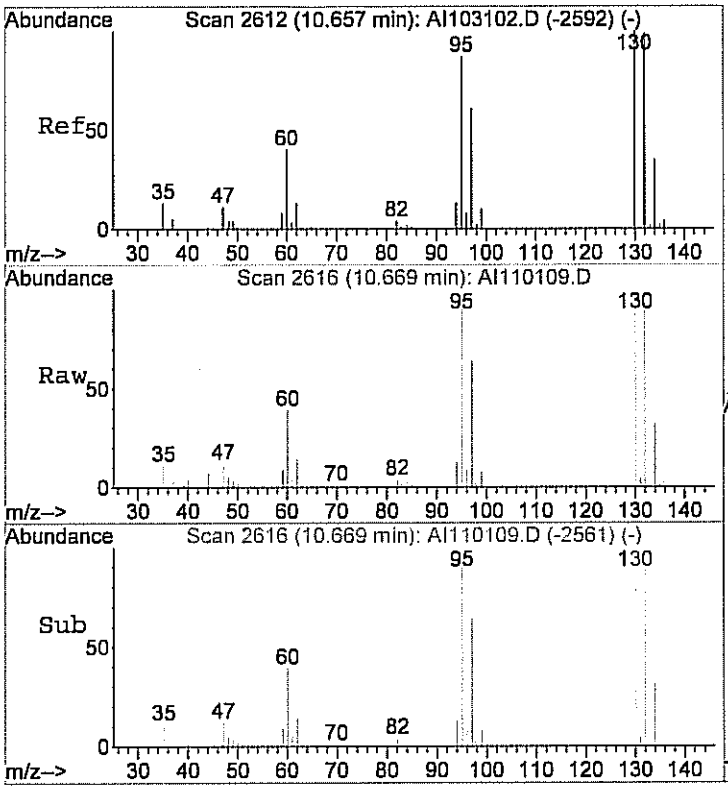
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110109.D Vial: 10
Acq On : 1 Nov 2011 4:35 pm Operator: RJP
Sample : C1110054-012A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:07 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



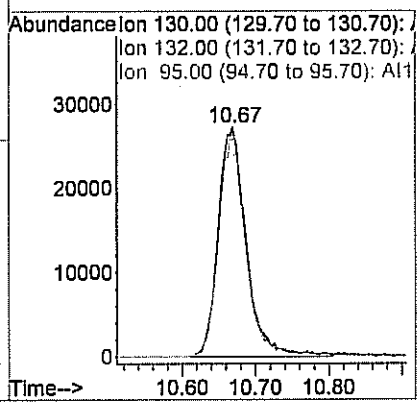
Centek laboratories, LLC



#41
Trichloroethene
Concen: 2.60 ppb
RT: 10.67 min Scan# 2616
Delta R.T. 0.02 min
Lab File: AI110109.D
Acq: 1 Nov 2011 4:35 pm

Tgt Ion:130 Resp: 72487

Ion	Ratio	Lower	Upper
130	100		
132	96.3	79.0	119.0
95	95.1	76.8	116.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	0.25	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	0.81	0.15		ppbV	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.13	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Benzene	2.8	1.5		ppbV	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Cyclohexane	1.6	0.15		ppbV	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.71	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 11	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 113	0.10	0.15	J	ppbV	1	11/1/2011 1:16:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Heptane	1.9	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexane	4.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
m&p-Xylene	2.4	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
o-Xylene	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	0.29	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Toluene	7.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Trichloroethene	9.0	1.5		ppbV	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Surr: Bromofluorobenzene	83.0	70-130		%REC	1	11/1/2011 1:16:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	3.8	0.71		ug/m3	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	11/1/2011 1:16:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:16:00 AM
Benzene	9.1	4.9		ug/m3	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:16:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Cyclohexane	5.7	0.52		ug/m3	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
Ethylbenzene	3.1	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Freon 11	2.6	0.86		ug/m3	1	11/1/2011 1:16:00 AM
Freon 113	0.78	1.2	J	ug/m3	1	11/1/2011 1:16:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
Heptane	8.1	0.62		ug/m3	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Hexane	16	5.4		ug/m3	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:16:00 AM
m&p-Xylene	11	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 1:16:00 AM
o-Xylene	2.0	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:16:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:16:00 AM
Toluene	29	5.7		ug/m3	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Trichloroethene	49	8.2		ug/m3	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.54	0.54	.	ug/m3	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:16:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103128.D Vial: 7
Acq On : 1 Nov 2011 1:16 am Operator: RJP
Sample : C1110054-013A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 01:37:43 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	18722	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.96	114	53460	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	47726	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	18836	0.83	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%				
Target Compounds							Qvalue
13) Freon 11	4.12	101	19554	0.46	ppb		99
17) Freon 113	4.90	101	4767	0.10	ppb		93
27) Hexane	6.86	57	84571	5.26	ppb		91
34) Cyclohexane	9.28	56	27831	1.64	ppb	#	50
35) Carbon tetrachloride	9.22	117	5621	0.11	ppb		98
36) Benzene	9.19	78	121617	2.41	ppb		98
39) 2,2,4-trimethylpentane	10.15	57	43788	0.81	ppb	#	64
40) Heptane	10.57	43	31500	1.94	ppb		89
41) Trichloroethene	10.66	130	259572	7.45	ppb		98
48) Toluene	12.92	92	314813	10.71	ppb		92
53) Tetrachloroethylene	13.95	164	10672	0.29	ppb		99
55) Ethylbenzene	15.16	91	42150	0.71	ppb		100
56) m&p-xylene	15.33	91	117448	2.40	ppb		94
59) o-xylene	15.79	91	28747	0.46	ppb		94
63) 4-ethyltoluene	16.98	105	6339	0.13	ppb		95
65) 1,2,4-trimethylbenzene	17.44	105	11192	0.25	ppb		97

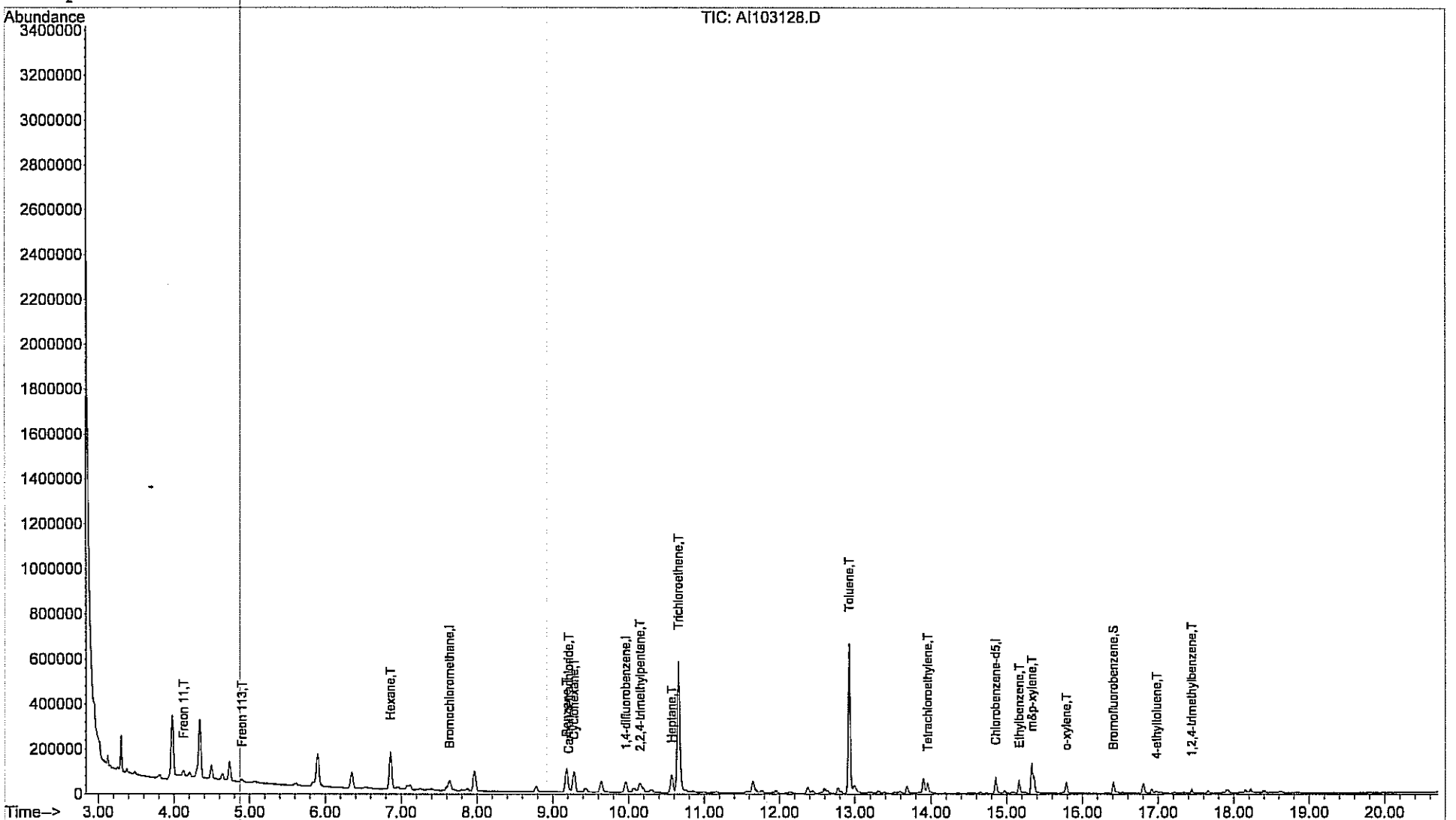
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

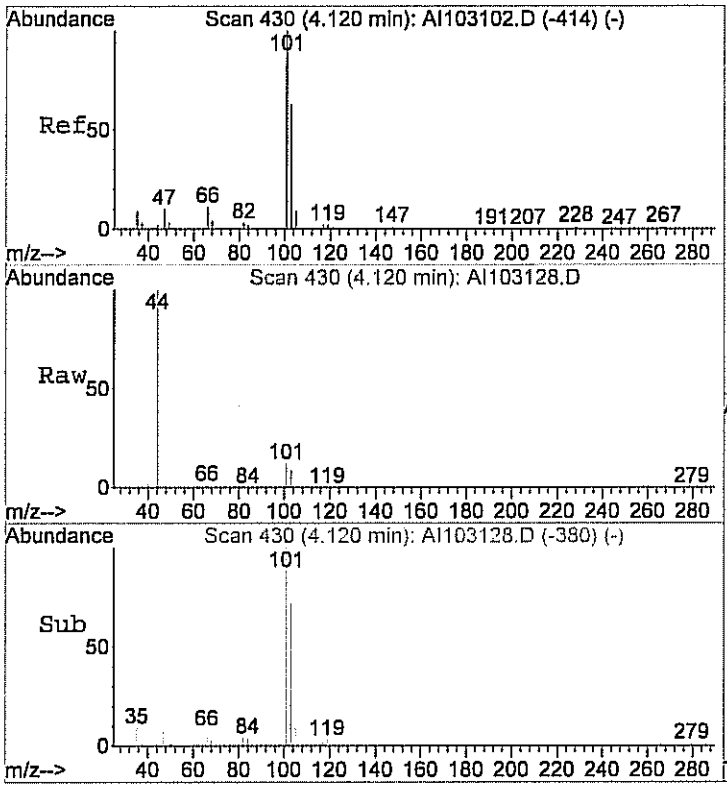
Data File : C:\HPCHEM\1\DATA\AI103128.D
Acq On : 1 Nov 2011 1:16 am
Sample : C1110054-013A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:28 2011

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



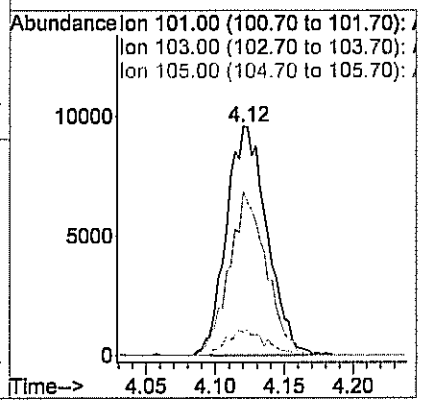
Centek laboratories, LLC

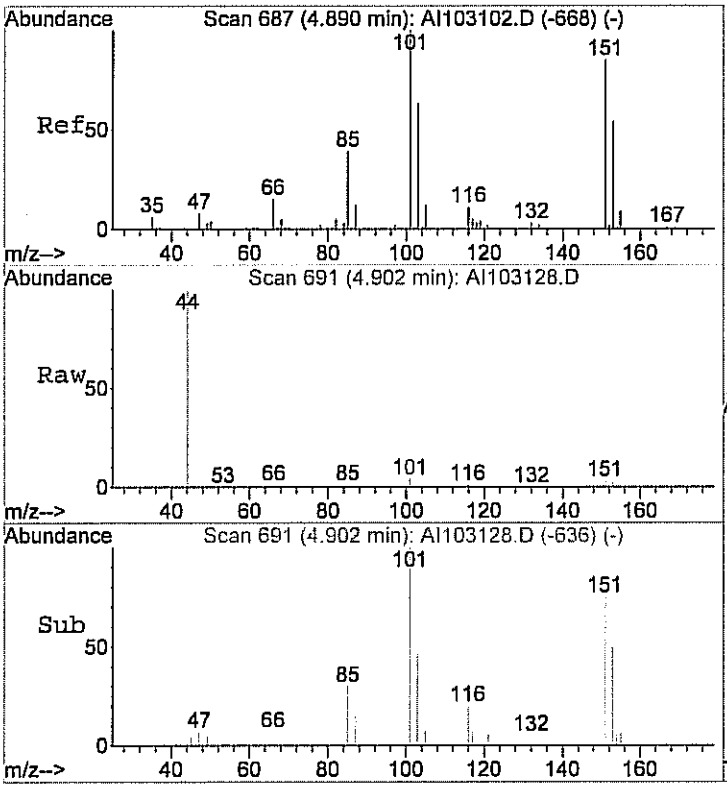


#13
Freon 11
Concen: 0.46 ppb
RT: 4.12 min Scan# 430
Delta R.T. -0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:101 Resp: 19554

Ion	Ratio	Lower	Upper
101	100		
103	65.4	44.9	84.9
105	10.5	0.0	30.9

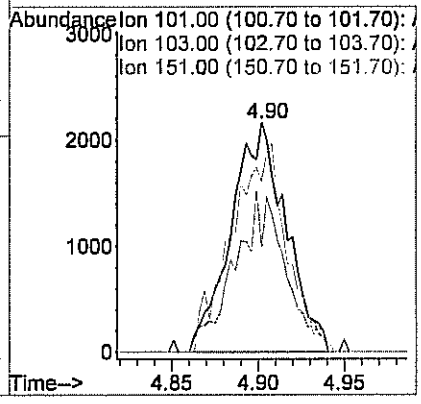


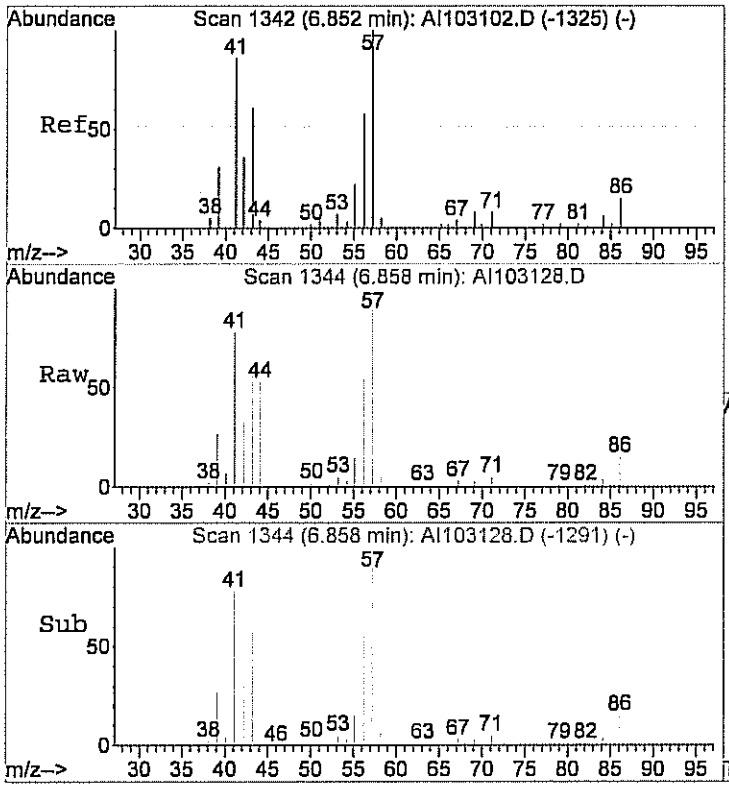


#17
Freon 113
Concen: 0.10 ppb
RT: 4.90 min Scan# 691
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:101 Resp: 4767

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.3	84.3
151	91.4	61.0	101.0

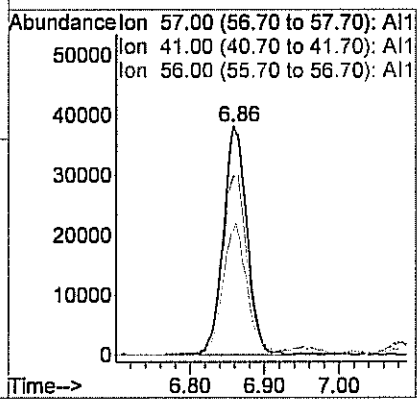


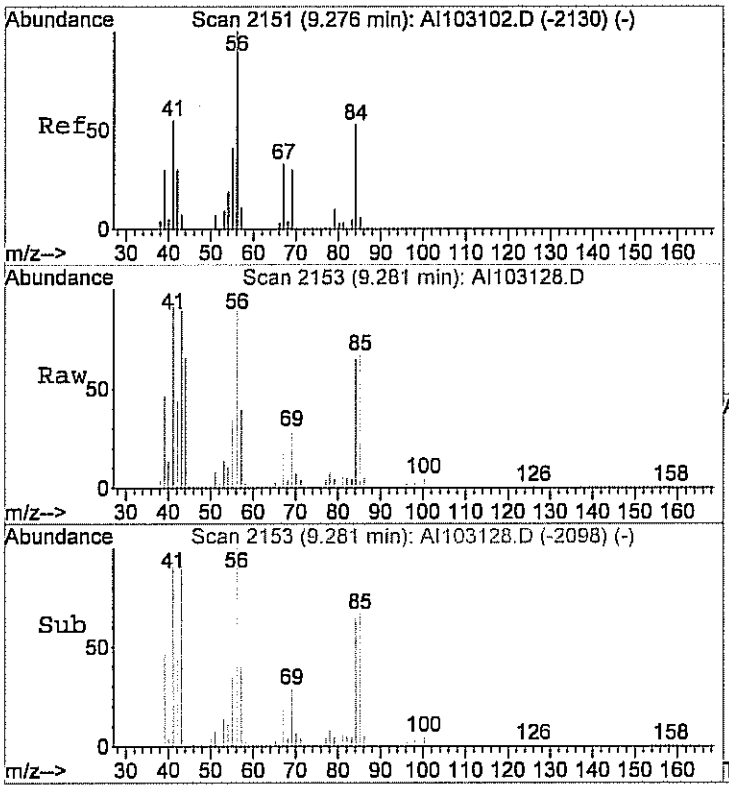


#27
Hexane
Concen: 5.26 ppb
RT: 6.86 min Scan# 1344
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 57 Resp: 84571

Ion	Ratio	Lower	Upper
57	100		
41	83.3	75.5	115.5
56	58.9	35.9	75.9

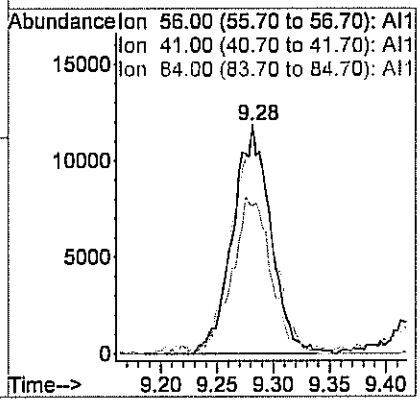


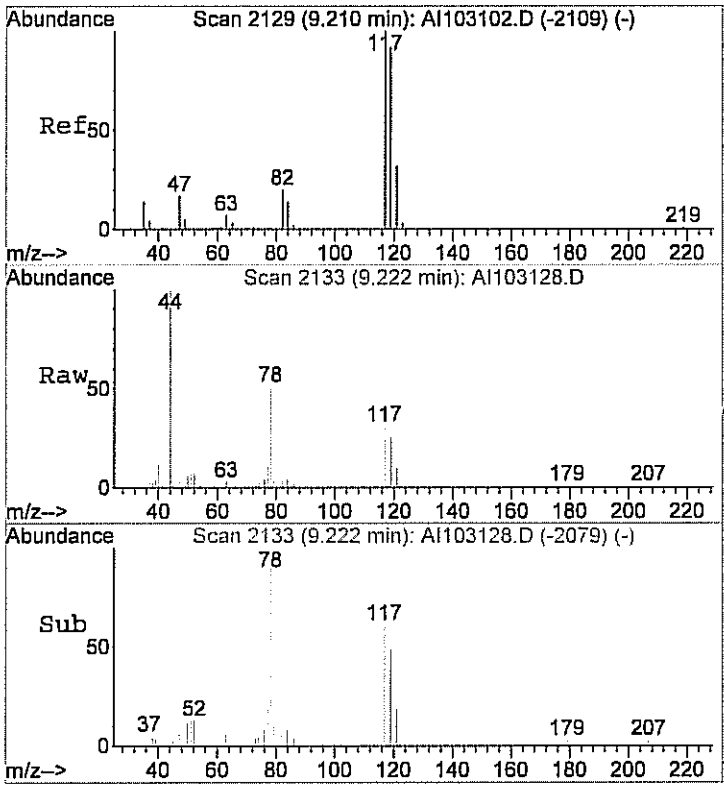


#34
Cyclohexane
Concen: 1.64 ppb
RT: 9.28 min Scan# 2153
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 56 Resp: 27831

Ion	Ratio	Lower	Upper
56	100		
41	102.4	49.1	89.1#
84	69.1	114.6	154.6#

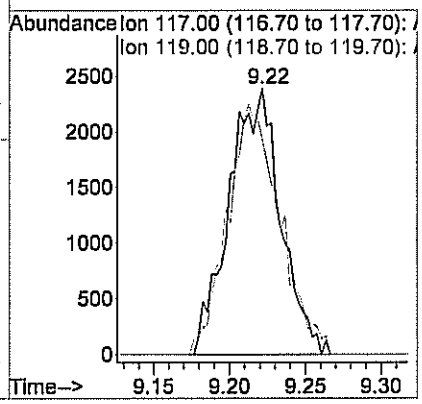


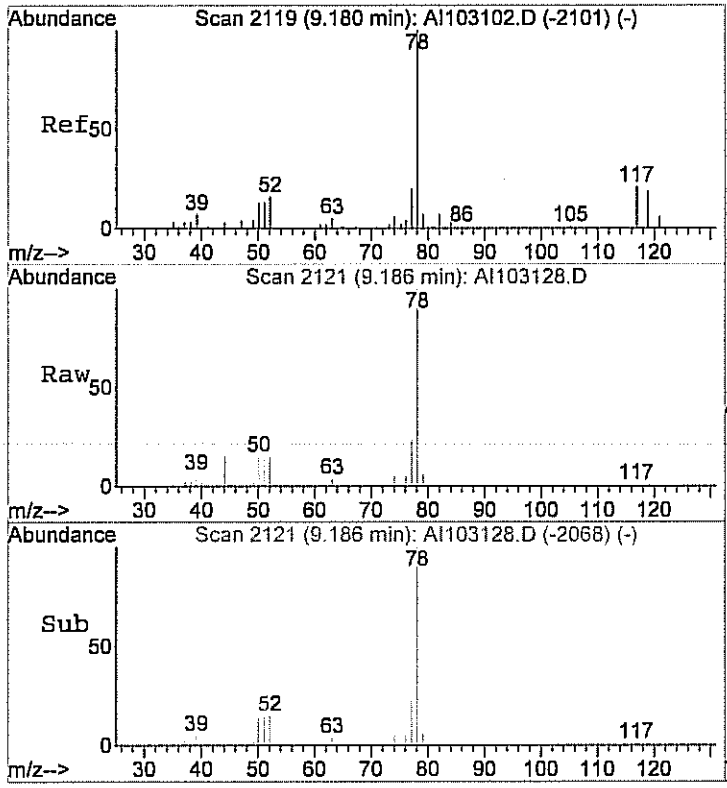


#35
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.22 min Scan# 2133
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:117 Resp: 5621

Ion	Ratio	Lower	Upper
117	100		
119	95.4	77.2	117.2

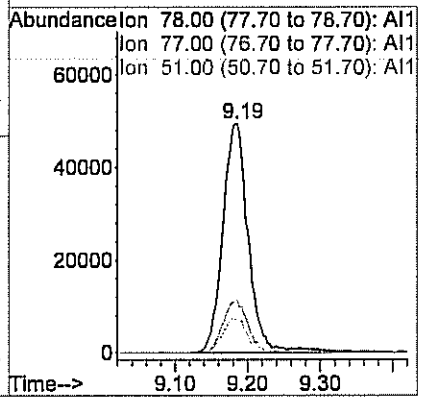


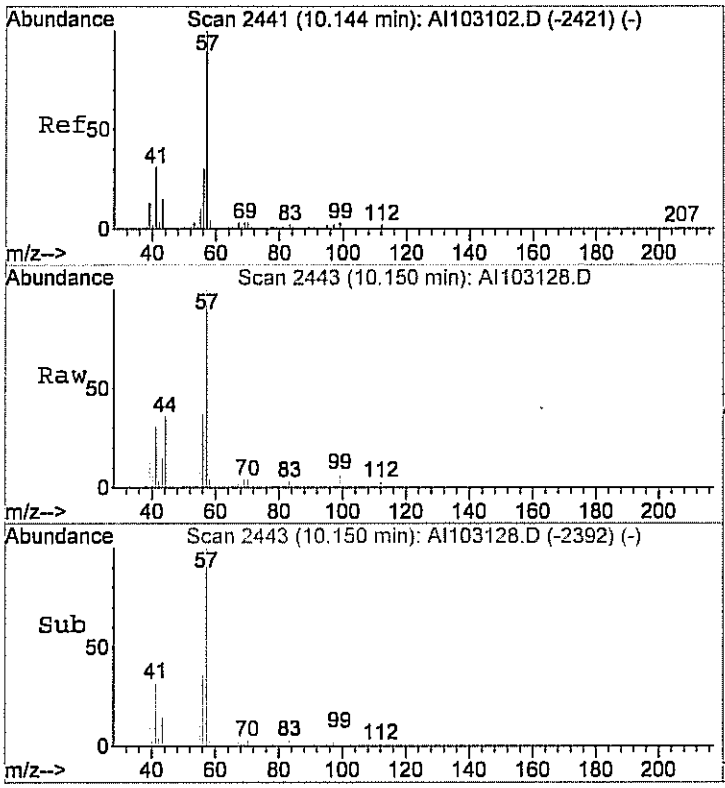


#36
Benzene
Concen: 2.41 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 78 Resp: 121617

Ion	Ratio	Lower	Upper
78	100		
77	24.2	5.2	45.2
51	16.8	0.0	37.6

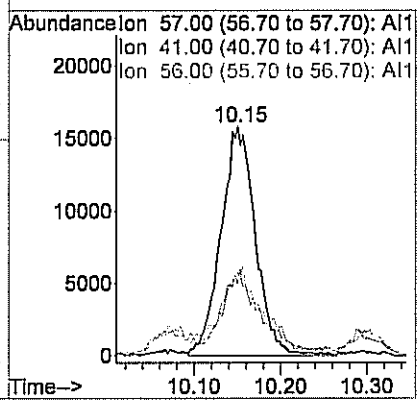


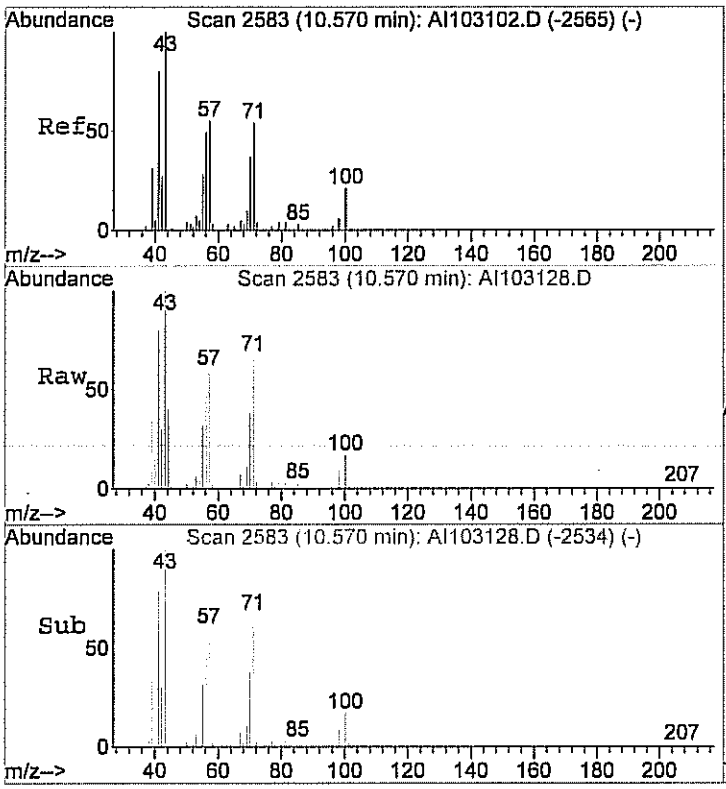


#39
2,2,4-trimethylpentane
Concen: 0.81 ppb
RT: 10.15 min Scan# 2443
Delta R.T. 0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 57 Resp: 43788

Ion	Ratio	Lower	Upper
57	100		
41	51.9	17.9	57.9
56	62.0	13.7	53.7#

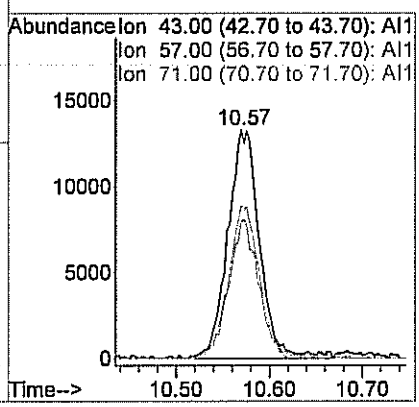


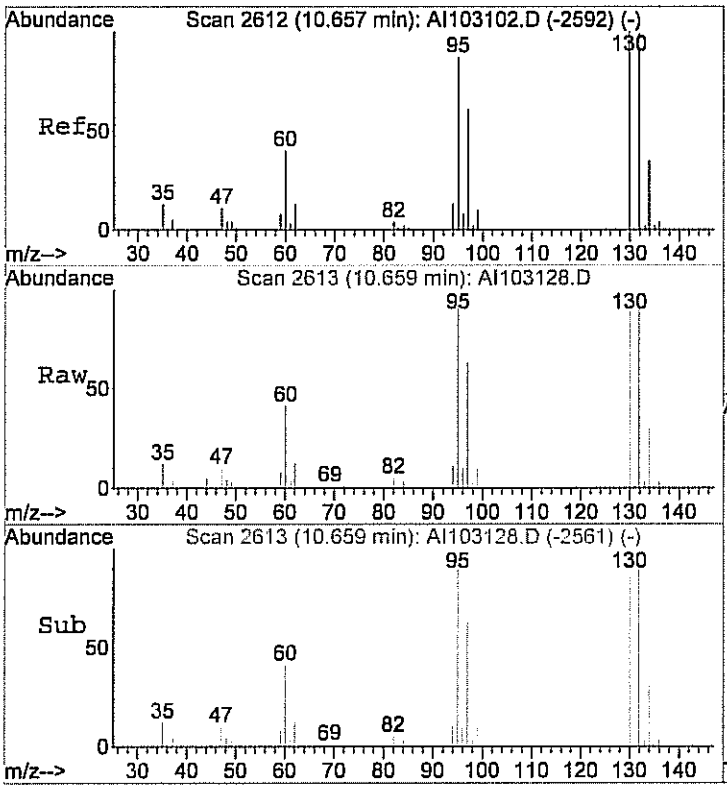


#40
Heptane
Concen: 1.94 ppb
RT: 10.57 min Scan# 2583
Delta R.T. -0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 43 Resp: 31500

Ion	Ratio	Lower	Upper
43	100		
57	58.5	32.1	72.1
71	64.6	35.5	75.5

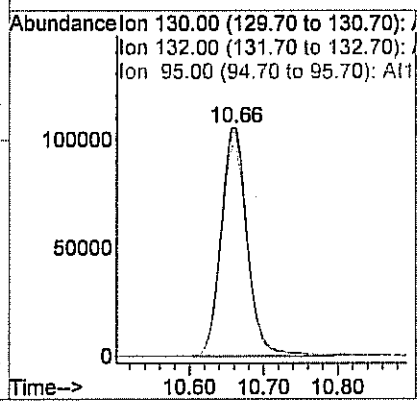


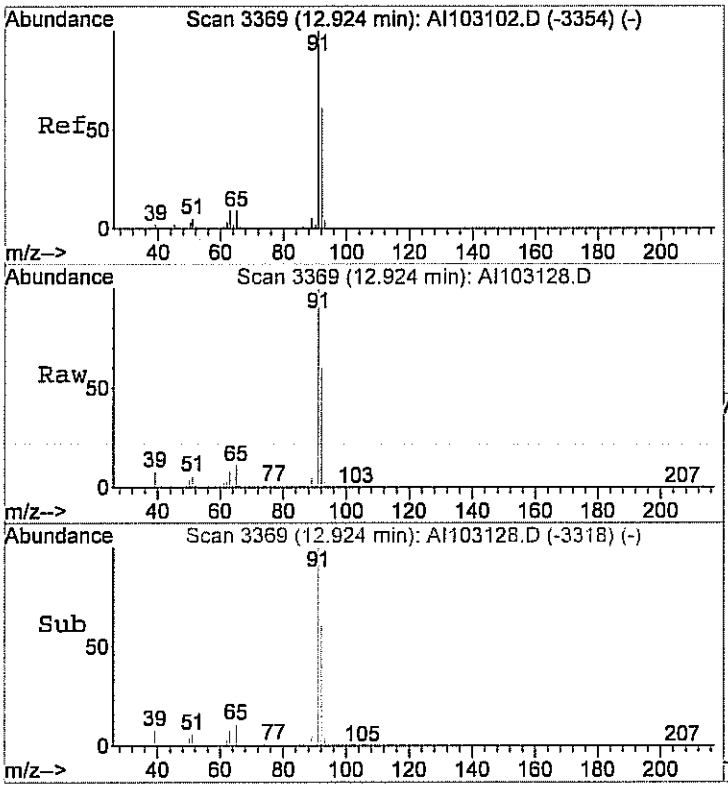


#41
Trichloroethene
Concen: 7.45 ppb
RT: 10.66 min Scan# 2613
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:130 Resp: 259572

Ion	Ratio	Lower	Upper
130	100		
132	98.1	79.0	119.0
95	92.9	76.8	116.8

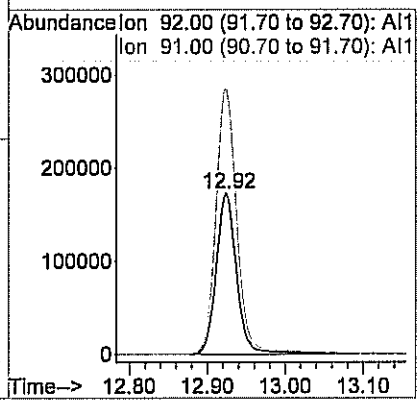


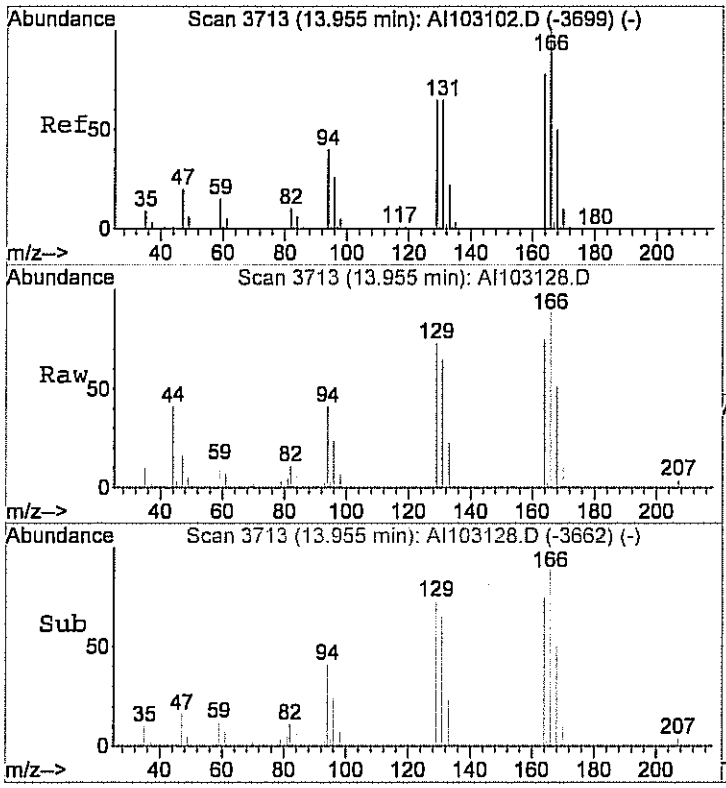


#48
Toluene
Concen: 10.71 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 92 Resp: 314813

Ion	Ratio	Lower	Upper
92	100		
91	168.1	159.8	199.8

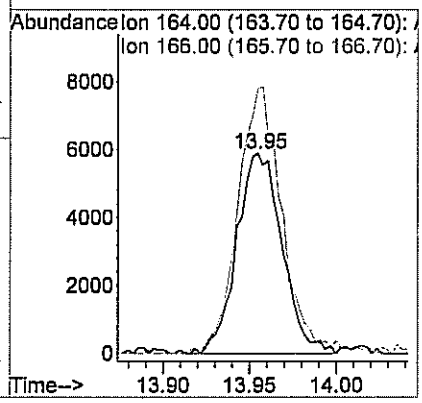


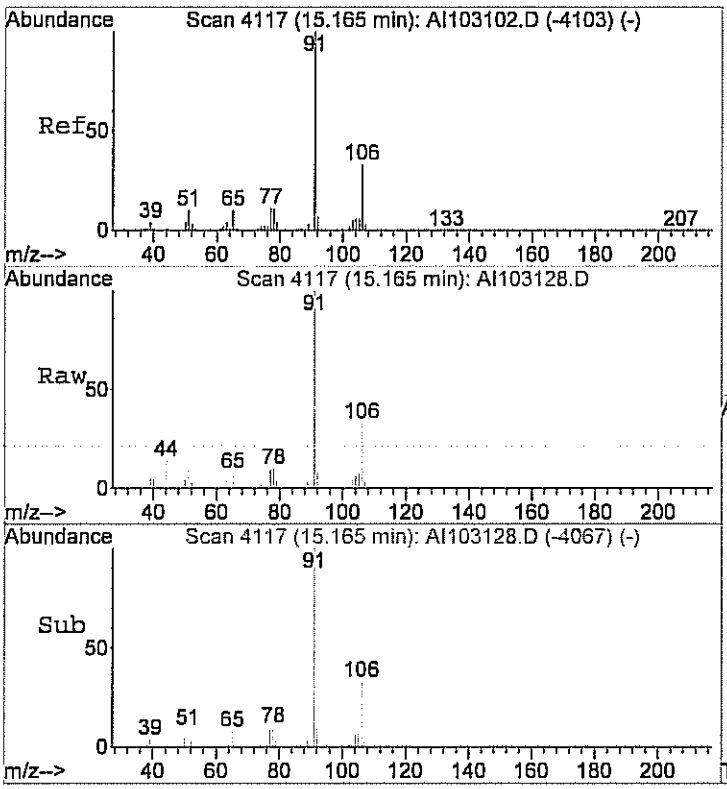


#53
Tetrachloroethylene
Concen: 0.29 ppb
RT: 13.95 min Scan# 3713
Delta R.T. 0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:164 Resp: 10672

Ion	Ratio	Lower	Upper
164	100		
166	130.3	109.4	149.4

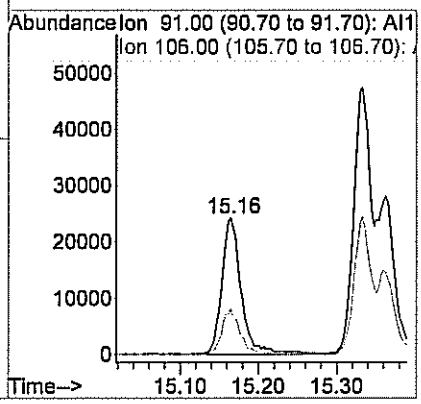


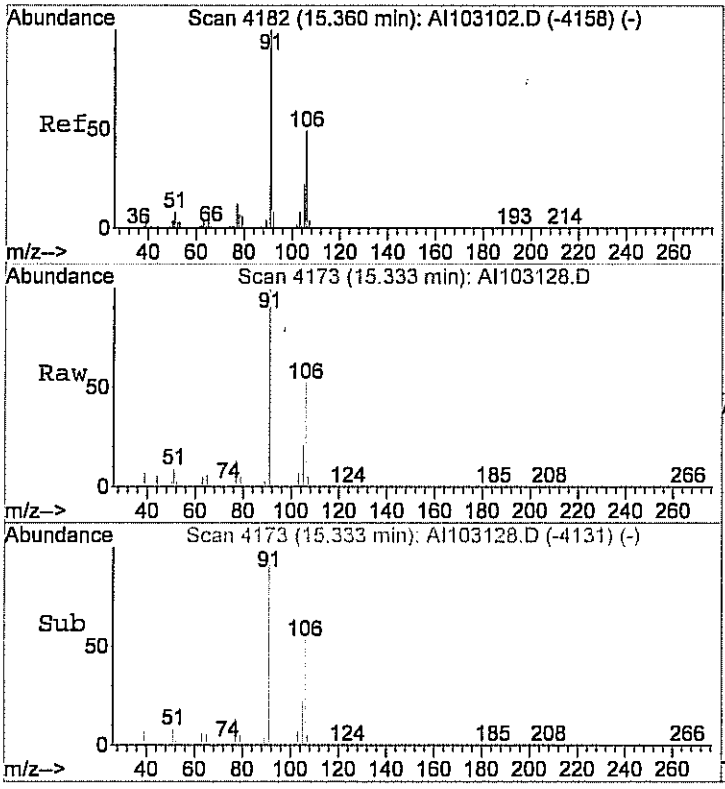


#55
Ethylbenzene
Concen: 0.71 ppb
RT: 15.16 min Scan# 4117
Delta R.T. -0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 91 Resp: 42150

Ion	Ratio	Lower	Upper
91	100		
106	30.6	10.7	50.7

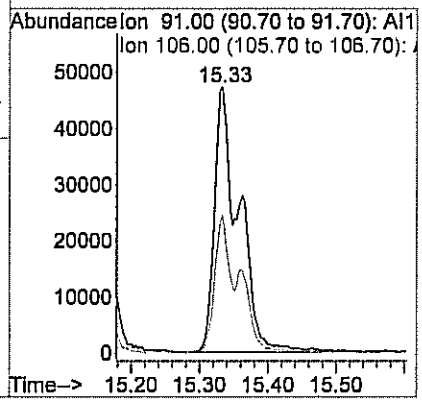


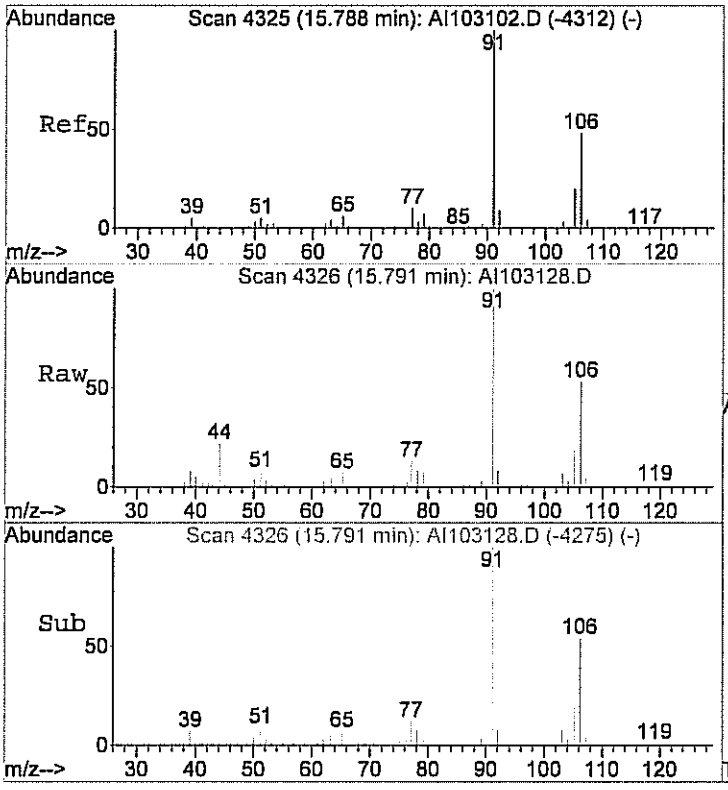


#56
m&p-xylene
Concen: 2.40 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 91 Resp: 117448

Ion	Ratio	Lower	Upper
91	100		
106	51.4	27.5	67.5

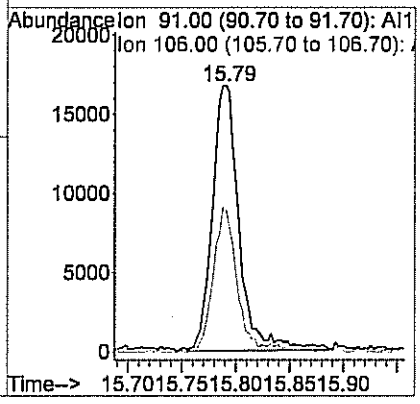


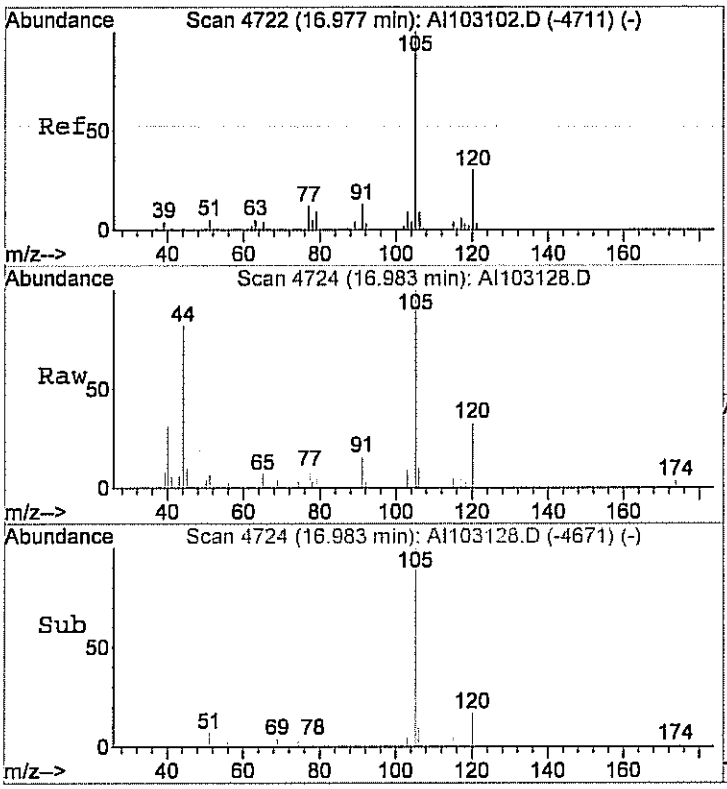


#59
o-xylene
Concen: 0.46 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion: 91 Resp: 28747

Ion	Ratio	Lower	Upper
91	100		
106	49.9	26.2	66.2

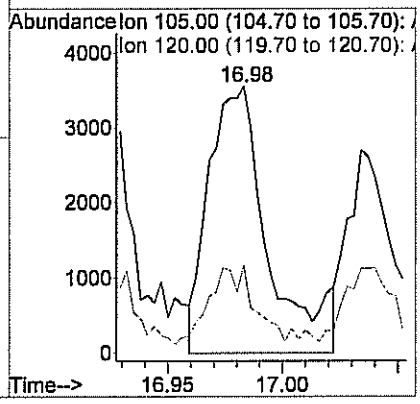


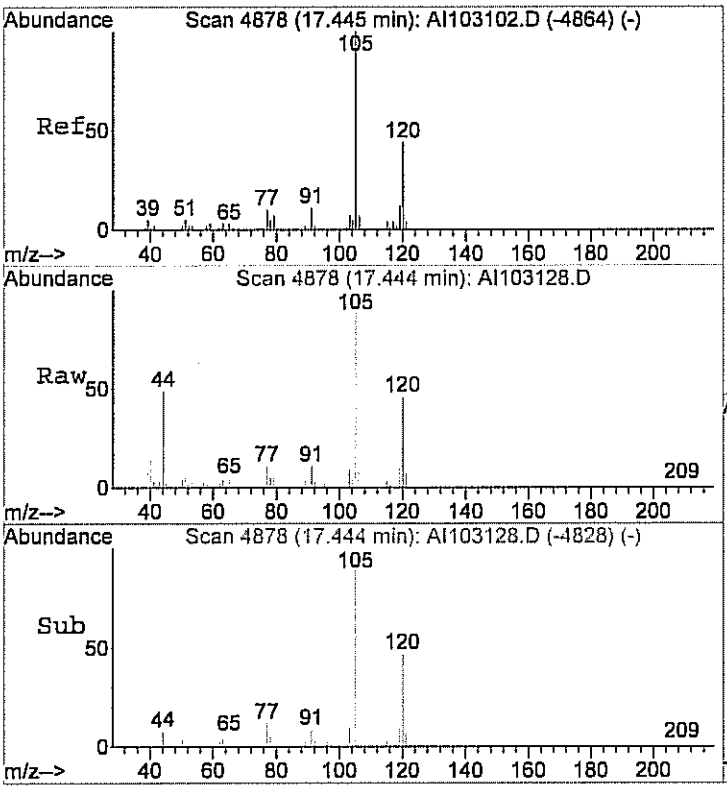


#63
4-ethyltoluene
Concen: 0.13 ppb
RT: 16.98 min Scan# 4724
Delta R.T. 0.01 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:105 Resp: 6339

Ion	Ratio	Lower	Upper
105	100		
120	30.8	8.1	48.1

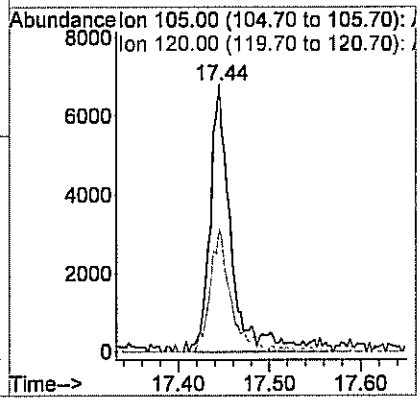




#65
1,2,4-trimethylbenzene
Concen: 0.25 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103128.D
Acq: 1 Nov 2011 1:16 am

Tgt Ion:105 Resp: 11192

Ion	Ratio	Lower	Upper
105	100		
120	43.0	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110110.D Vial: 11
Acq On : 1 Nov 2011 5:08 pm Operator: RJP
Sample : C1110054-013A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 17:29:04 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

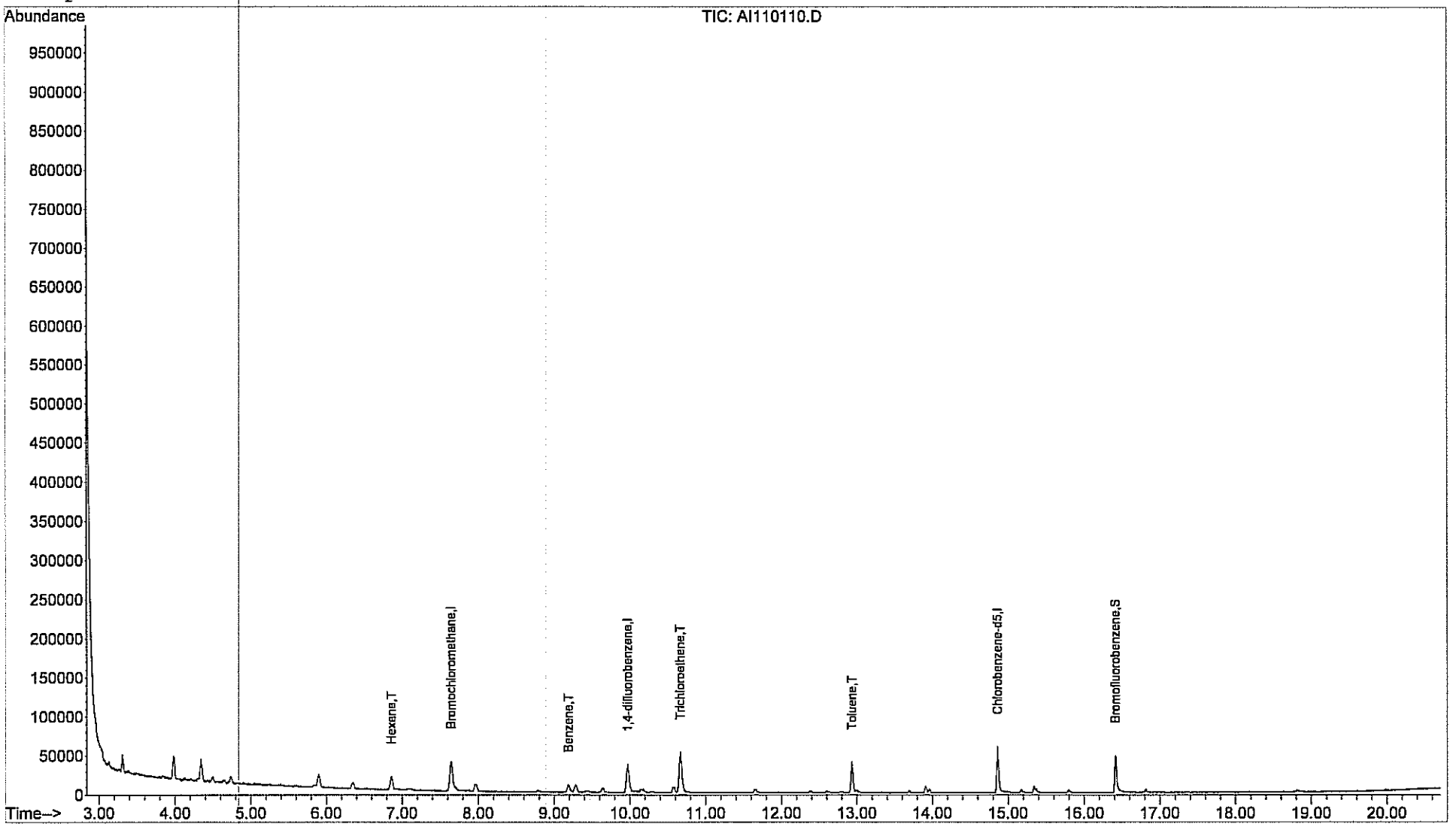
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	17774	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.98	114	42529	1.00	ppb	0.02
47) Chlorobenzene-d5	14.86	117	40685	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	17580	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue
27) Hexane	6.86	57	6976	0.46	ppb	87
36) Benzene	9.19	78	11229	0.28	ppb	94
41) Trichloroethene	10.67	130	24934	0.90	ppb	96
48) Toluene	12.94	92	18969	0.76	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

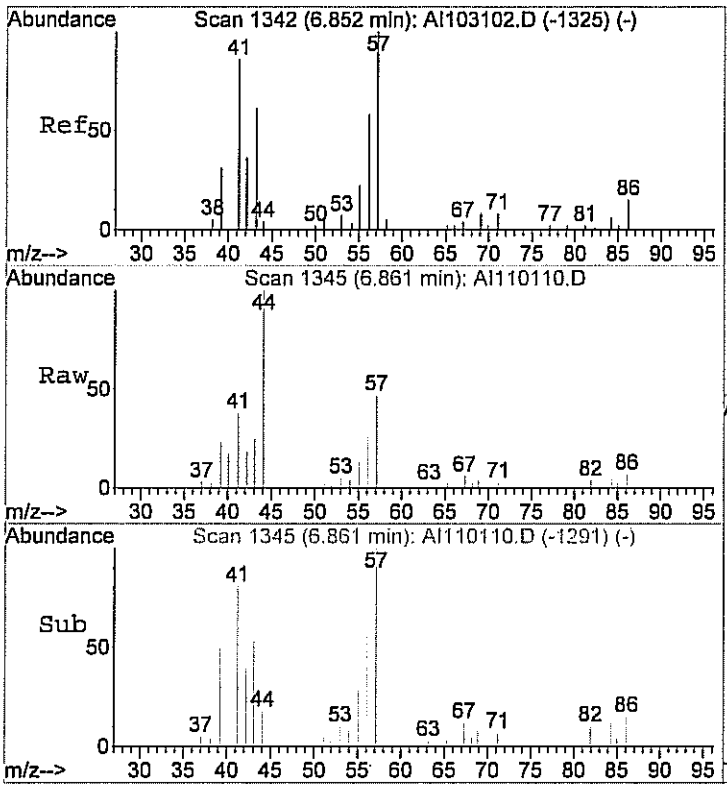
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110110.D Vial: 11
Acq On : 1 Nov 2011 5:08 pm Operator: RJP
Sample : C1110054-013A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:08 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



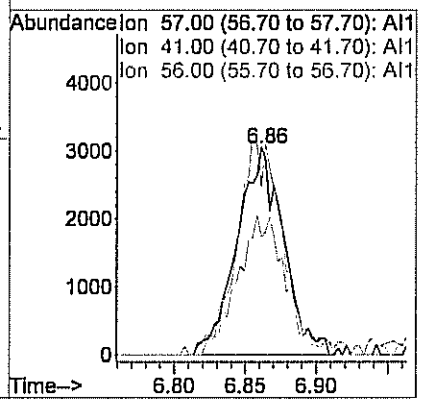
Centek laboratories, LLC

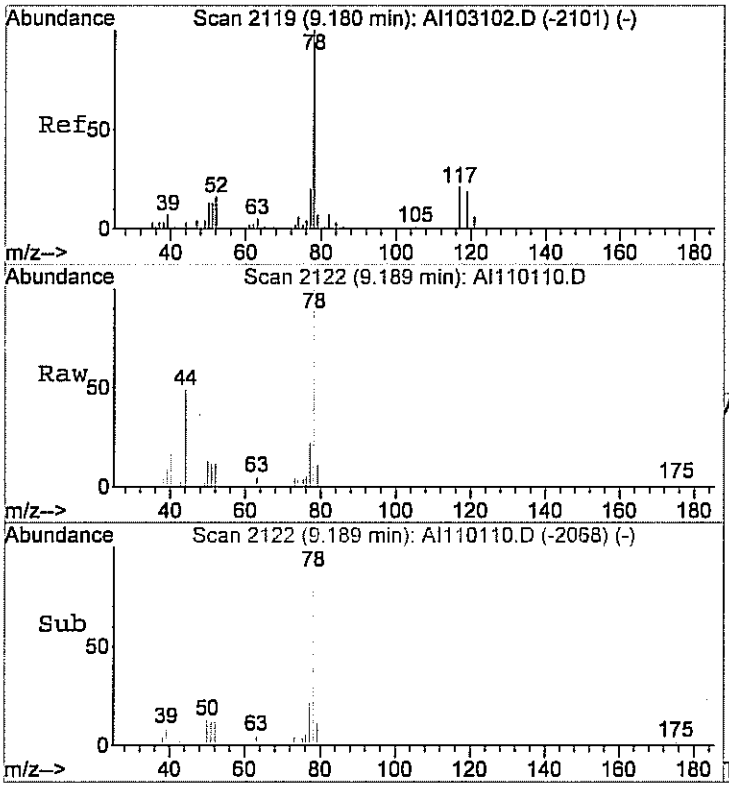


#27
Hexane
Concen: 0.46 ppb
RT: 6.86 min Scan# 1345
Delta R.T. 0.01 min
Lab File: AI110110.D
Acq: 1 Nov 2011 5:08 pm

Tgt Ion: 57 Resp: 6976

Ion	Ratio	Lower	Upper
57	100		
41	105.1	75.5	115.5
56	69.4	35.9	75.9

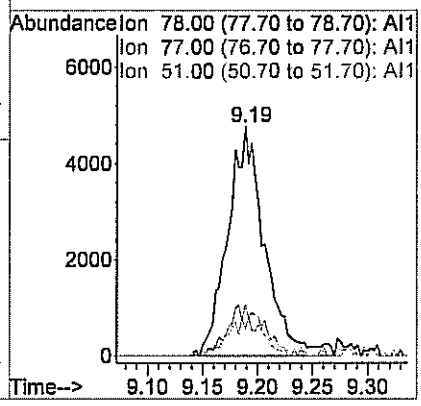


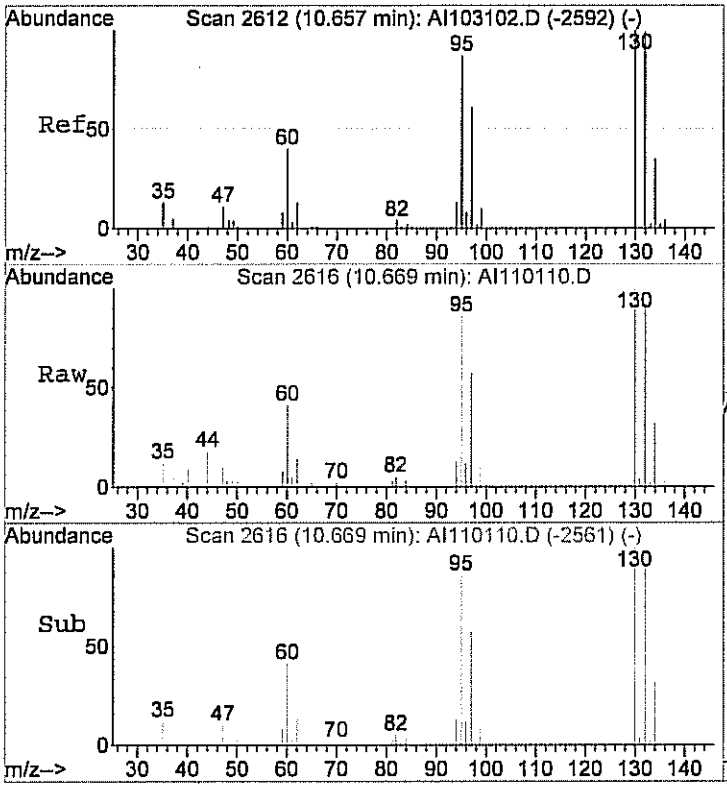


#36
Benzene
Concen: 0.28 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI110110.D
Acq: 1 Nov 2011 5:08 pm

Tgt Ion: 78 Resp: 11229

Ion	Ratio	Lower	Upper
78	100		
77	21.6	5.2	45.2
51	15.6	0.0	37.6

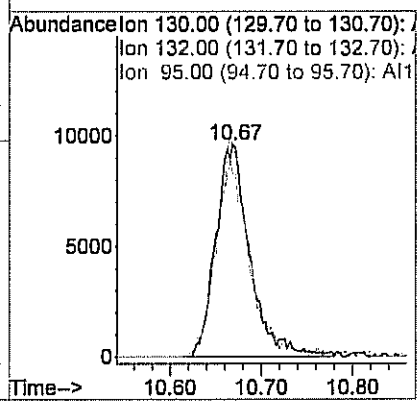


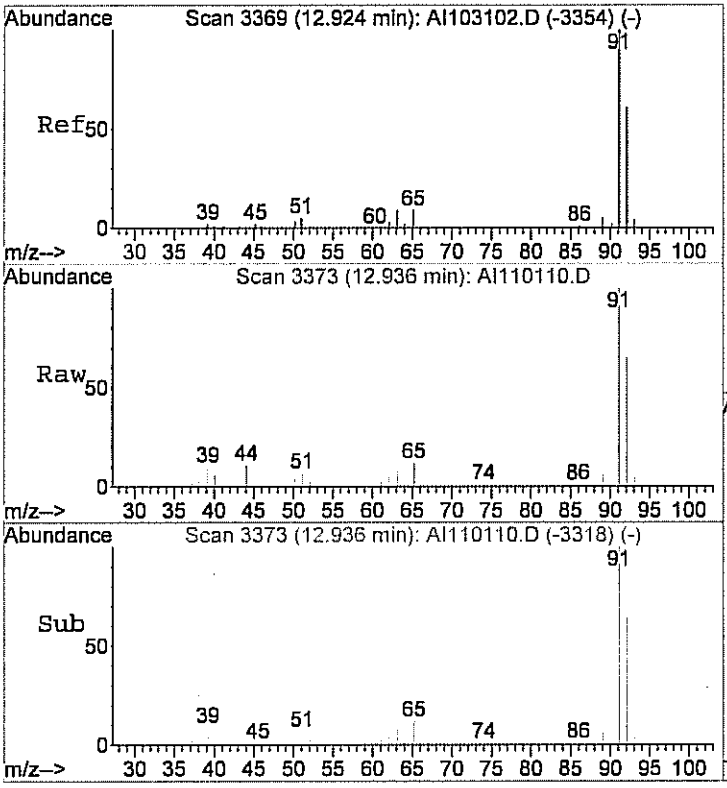


#41
Trichloroethene
Concen: 0.90 ppb
RT: 10.67 min Scan# 2616
Delta R.T. 0.02 min
Lab File: AI110110.D
Acq: 1 Nov 2011 5:08 pm

Tgt Ion:130 Resp: 24934

Ion	Ratio	Lower	Upper
130	100		
132	97.8	79.0	119.0
95	90.7	76.8	116.8

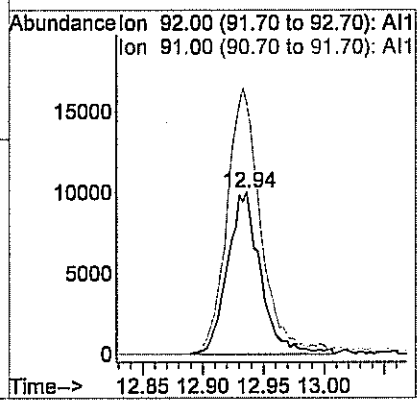




#48
Toluene
Concen: 0.76 ppb
RT: 12.94 min Scan# 3373
Delta R.T. 0.01 min
Lab File: AI110110.D
Acq: 1 Nov 2011 5:08 pm

Tgt Ion: 92 Resp: 18969

Ion	Ratio	Lower	Upper
92	100		
91	173.5	159.8	199.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.66	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	0.28	0.15		ppbV	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.11	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzene	0.69	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromodichloromethane	0.25	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.13	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroform	15	1.5		ppbV	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.62	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 11	0.24	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 113	0.14	0.15	J	ppbV	1	11/1/2011 1:48:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 12	0.45	0.15		ppbV	1	11/1/2011 1:48:00 AM
Heptane	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
m&p-Xylene	2.2	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Methylene chloride	0.71	0.15		ppbV	1	11/1/2011 1:48:00 AM
o-Xylene	0.47	0.15		ppbV	1	11/1/2011 1:48:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Toluene	2.9	1.5		ppbV	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Surr: Bromofluorobenzene	104	70-130		%REC	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	3.7	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	1.3	0.71		ug/m3	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.55	0.75	J	ug/m3	1	11/1/2011 1:48:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:48:00 AM
Benzene	2.2	0.49		ug/m3	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:48:00 AM
Bromodichloromethane	1.7	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.41	0.47	J	ug/m3	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:48:00 AM
Chloroform	72	7.4		ug/m3	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
Ethylbenzene	2.7	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Freon 11	1.4	0.86		ug/m3	1	11/1/2011 1:48:00 AM
Freon 113	1.1	1.2	J	ug/m3	1	11/1/2011 1:48:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.3	0.75		ug/m3	1	11/1/2011 1:48:00 AM
Heptane	1.7	0.62		ug/m3	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:48:00 AM
m&p-Xylene	9.9	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:48:00 AM
Methylene chloride	2.5	0.53		ug/m3	1	11/1/2011 1:48:00 AM
o-Xylene	2.1	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:48:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:48:00 AM
Toluene	11	5.7		ug/m3	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103129.D Vial: 8
Acq On : 1 Nov 2011 1:48 am Operator: RJP
Sample : C1110054-014A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 02:09:40 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

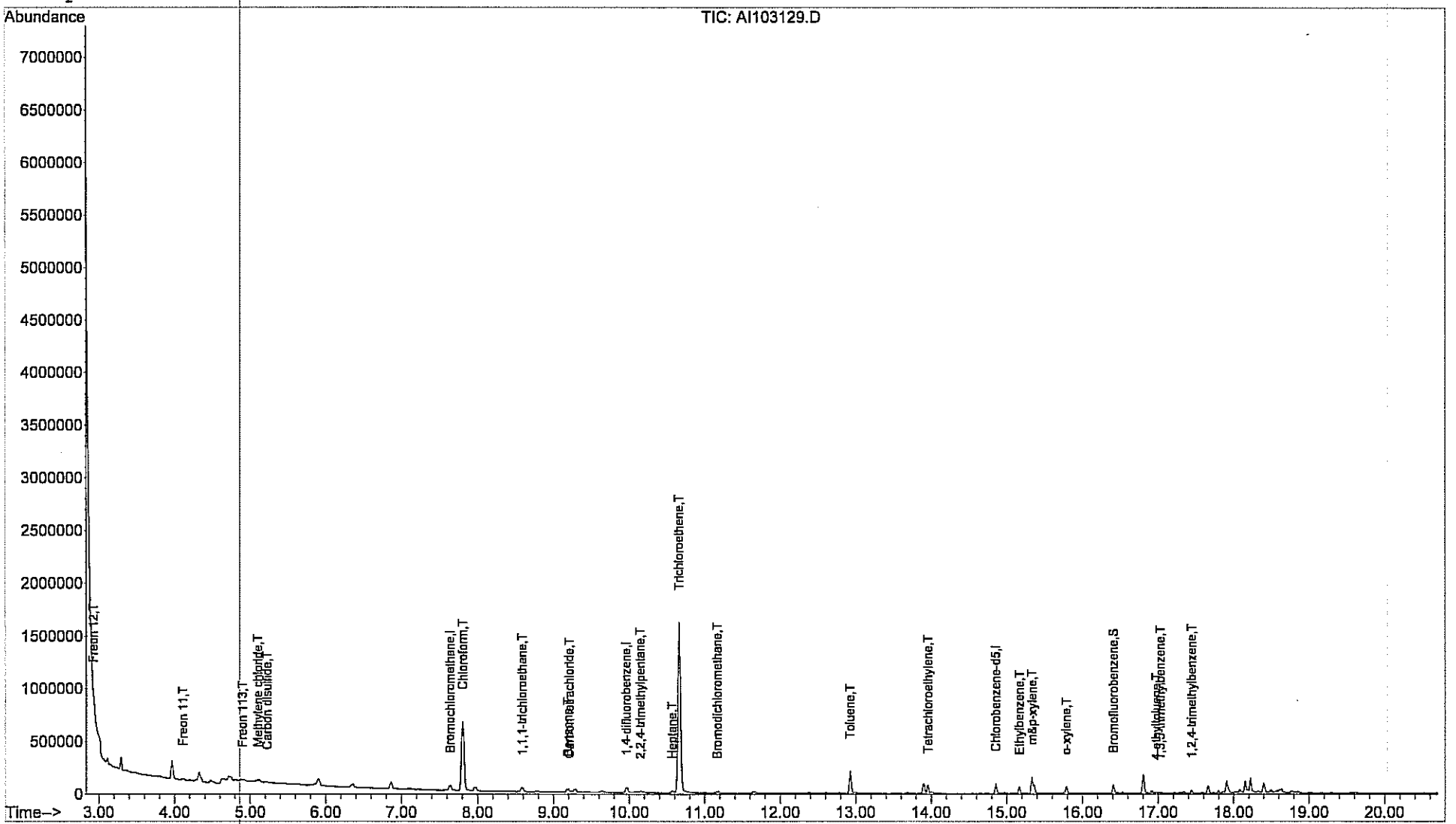
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	20959	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	55780	1.00	ppb		0.01
47) Chlorobenzene-d5	14.85	117	57136	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	28319	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	36759	0.45	ppb		96
13) Freon 11	4.11	101	11542	0.24	ppb		98
17) Freon 113	4.90	101	7229	0.14	ppb		97
18) Methylene chloride	5.11	84	15468	0.71	ppb	#	79
20) Carbon disulfide	5.22	76	8433	0.13	ppb		96
29) Chloroform	7.80	83	635873	10.60	ppb		98
33) 1,1,1-trichloroethane	8.58	97	34512	0.66	ppb		100
35) Carbon tetrachloride	9.22	117	5418	0.10	ppb		97
36) Benzene	9.19	78	36149	0.69	ppb		98
39) 2,2,4-trimethylpentane	10.16	57	16077	0.28	ppb	#	72
40) Heptane	10.58	43	7117	0.42	ppb		86
41) Trichloroethene	10.66	130	725692	19.97	ppb		97
43) Bromodichloromethane	11.17	83	13158	0.25	ppb		96
48) Toluene	12.93	92	98685	2.80	ppb		93
53) Tetrachloroethylene	13.95	164	18326	0.42	ppb		99
55) Ethylbenzene	15.17	91	43672	0.62	ppb		97
56) m&p-xylene	15.33	91	132006	2.25	ppb		97
59) o-xylene	15.79	91	35428	0.47	ppb		97
63) 4-ethyltoluene	16.98	105	6182	0.11	ppb		84
64) 1,3,5-trimethylbenzene	17.04	105	7008	0.11	ppb		92
65) 1,2,4-trimethylbenzene	17.44	105	17484	0.33	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

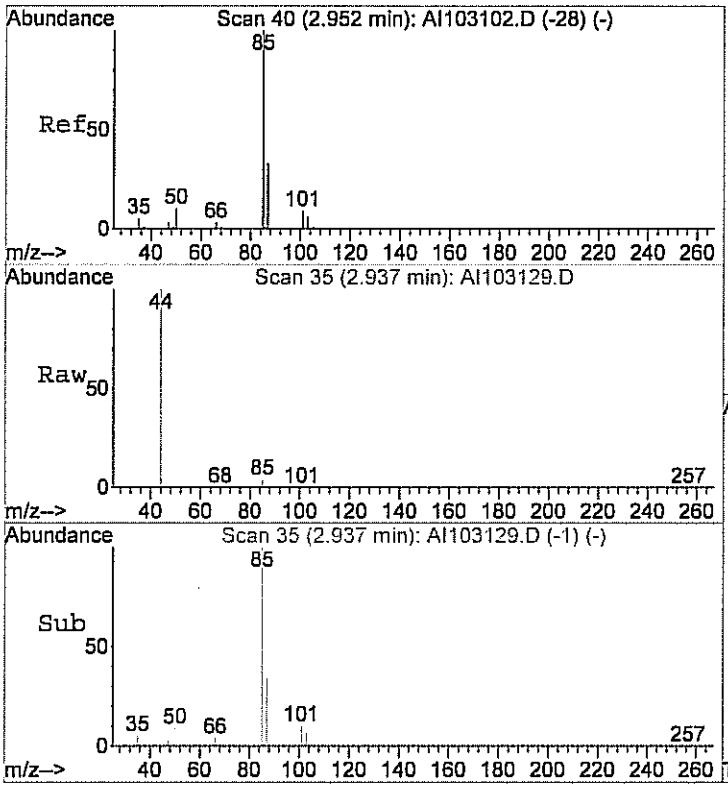
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103129.D Vial: 8
Acq On : 1 Nov 2011 1:48 am Operator: RJP
Sample : C1110054-014A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:29 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



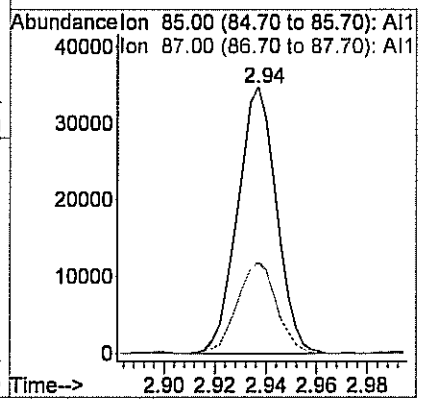
Centek laboratories, LLC

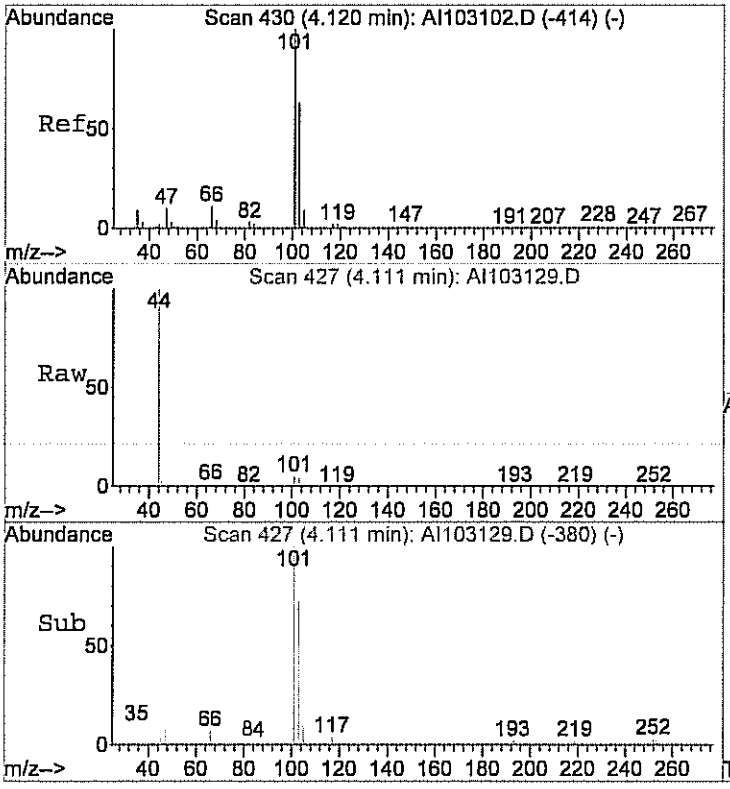


#3
Freon 12
Concen: 0.45 ppb
RT: 2.94 min Scan# 35
Delta R.T. -0.02 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 85 Resp: 36759

Ion	Ratio	Lower	Upper
85	100		
87	34.6	12.2	52.2

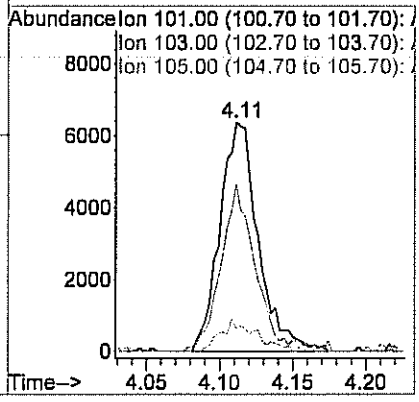


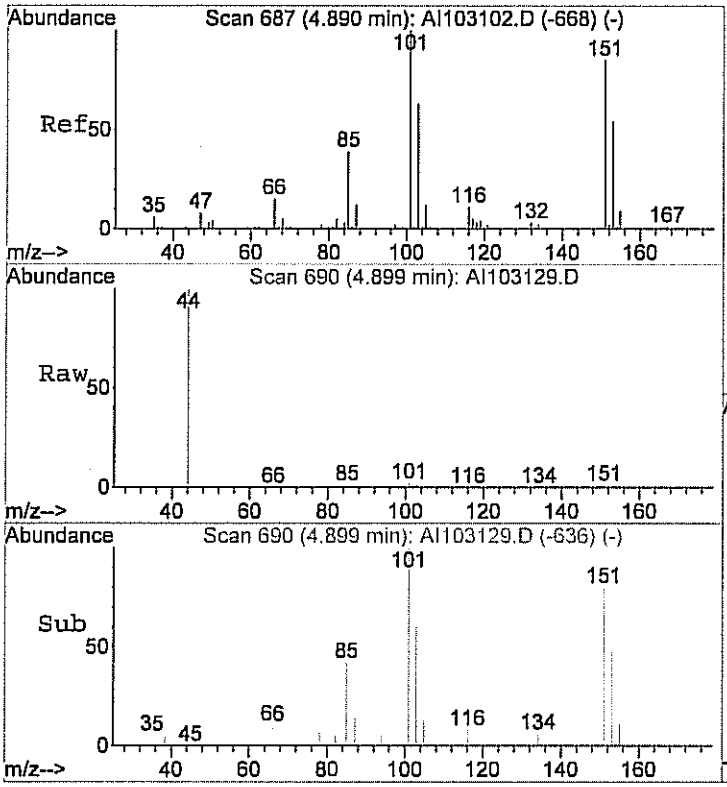


#13
Freon 11
Concen: 0.24 ppb
RT: 4.11 min Scan# 427
Delta R.T. -0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:101 Resp: 11542

Ion	Ratio	Lower	Upper
101	100		
103	66.1	44.9	84.9
105	12.8	0.0	30.9

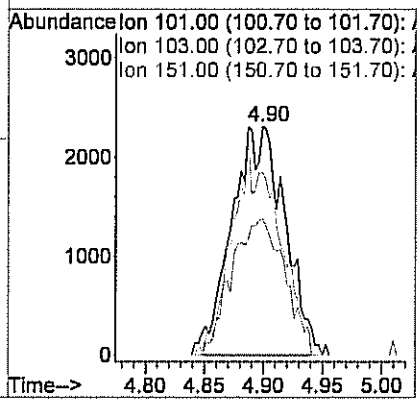


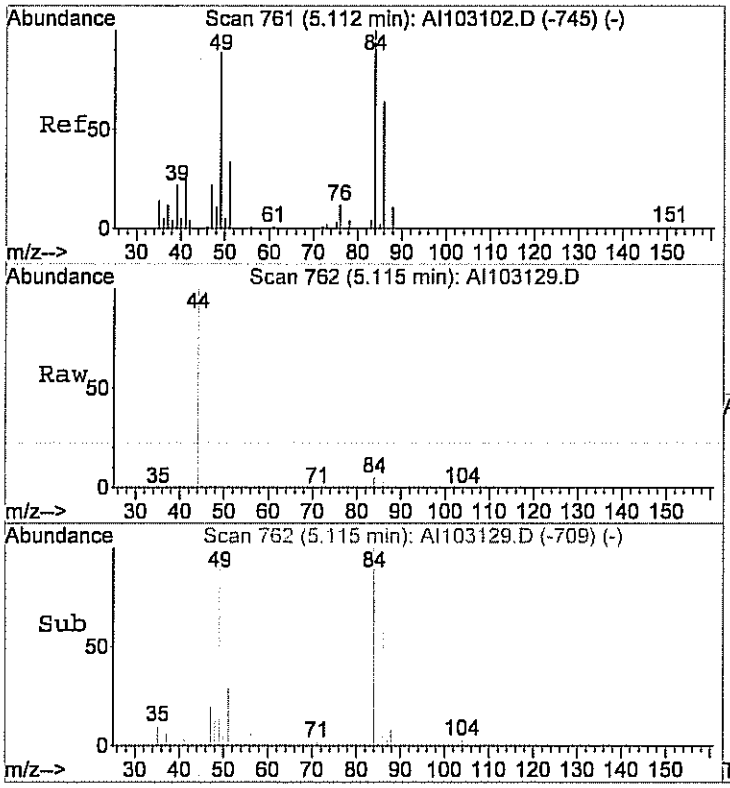


#17
Freon 113
Concen: 0.14 ppb
RT: 4.90 min Scan# 690
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:101 Resp: 7229

Ion	Ratio	Lower	Upper
101	100		
103	59.7	44.3	84.3
151	81.8	61.0	101.0

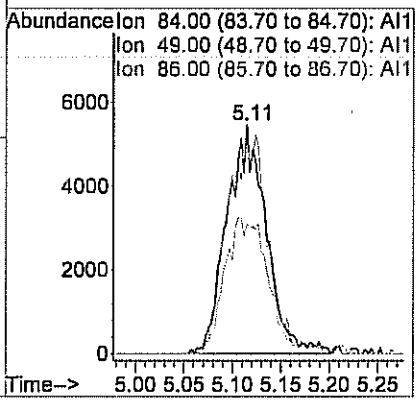


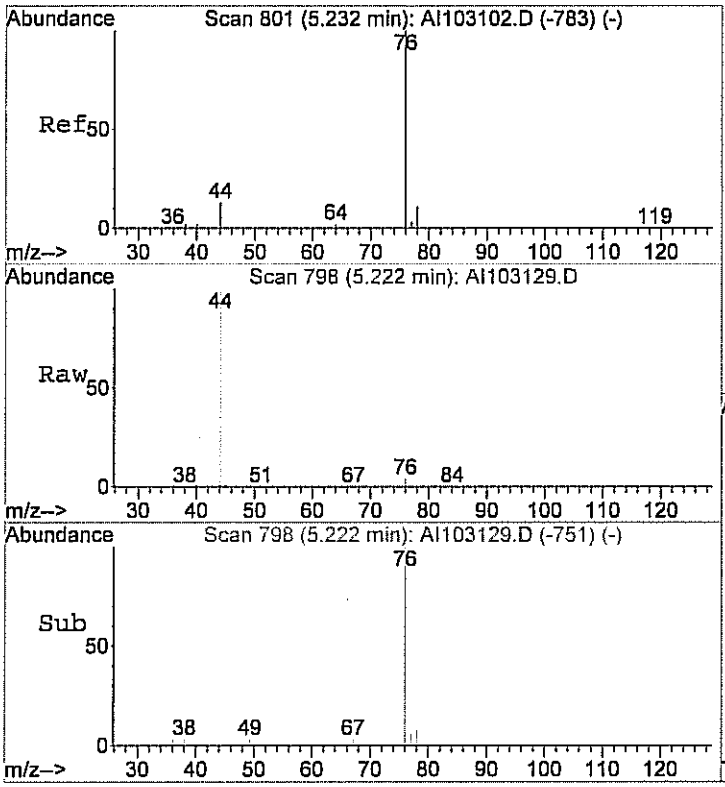


#18
Methylene chloride
Concen: 0.71 ppb
RT: 5.11 min Scan# 762
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 84 Resp: 15468

Ion	Ratio	Lower	Upper
84	100		
49	100.4	116.9	156.9#
86	65.8	46.7	86.7

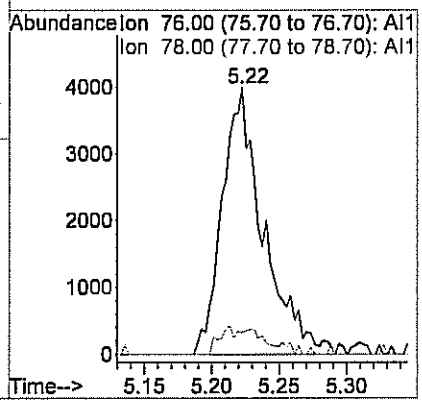


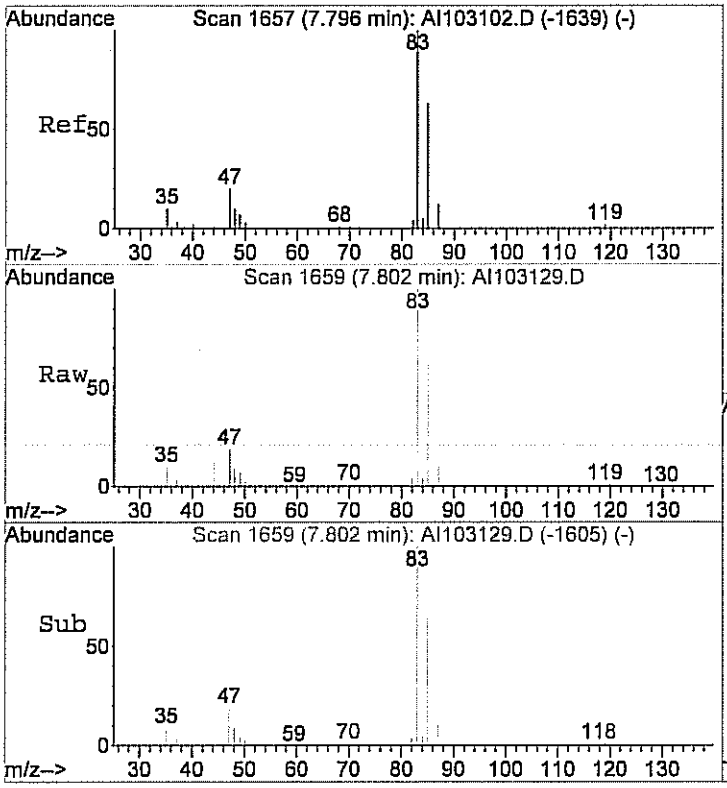


#20
Carbon disulfide
Concen: 0.13 ppb
RT: 5.22 min Scan# 798
Delta R.T. -0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 76 Resp: 8433

Ion	Ratio	Lower	Upper
76	100		
78	11.1	0.0	29.6

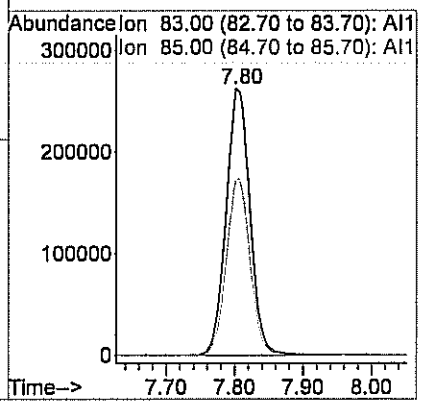


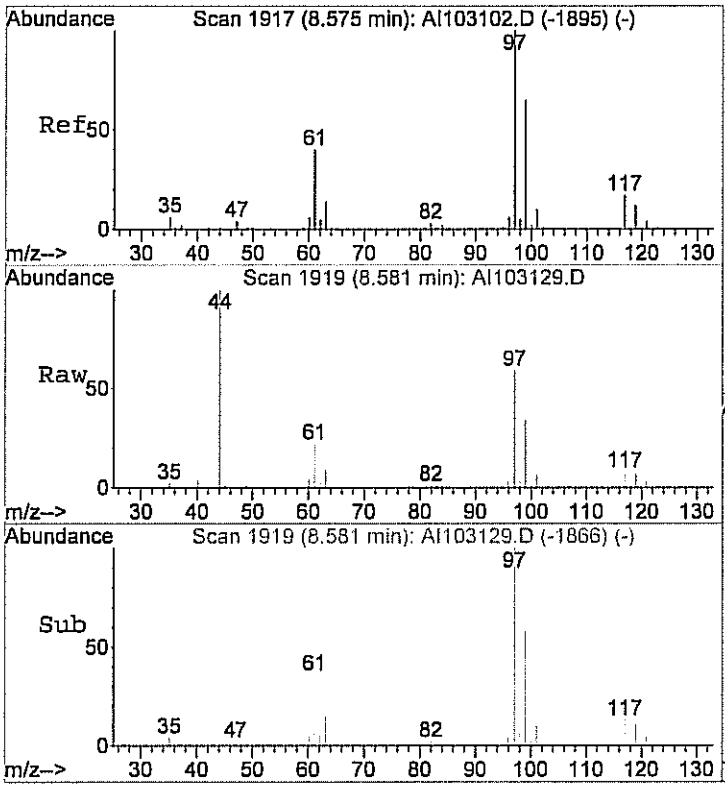


#29
Chloroform
Concen: 10.60 ppb
RT: 7.80 min Scan# 1659
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 83 Resp: 635873

Ion	Ratio	Lower	Upper
83	100		
85	66.2	45.0	85.0

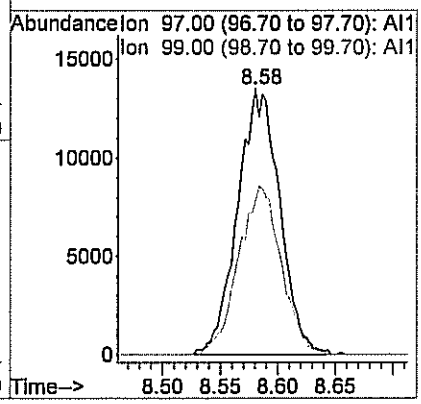


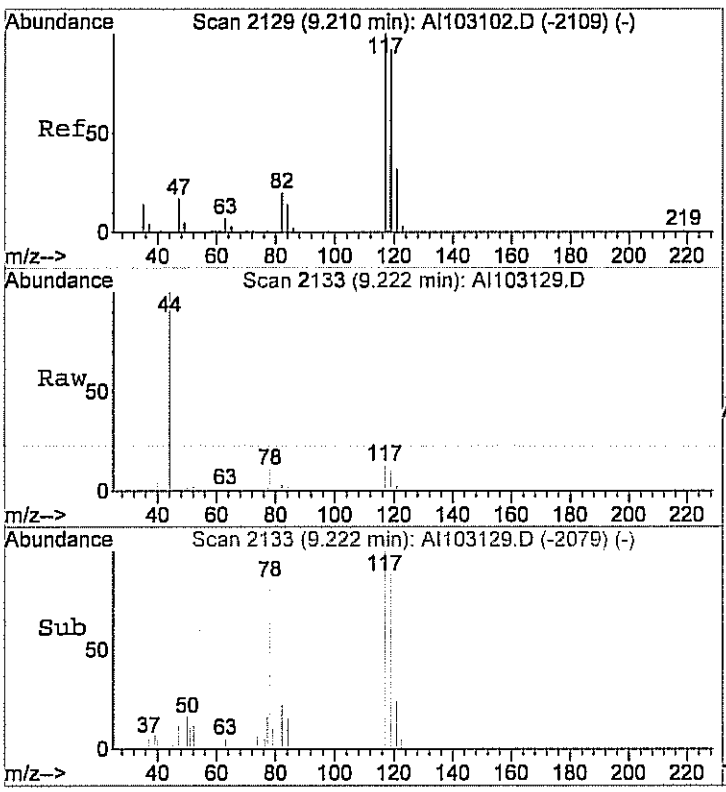


#33
1,1,1-trichloroethane
Concen: 0.66 ppb
RT: 8.58 min Scan# 1919
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 97 Resp: 34512

Ion	Ratio	Lower	Upper
97	100		
99	64.2	43.8	83.8

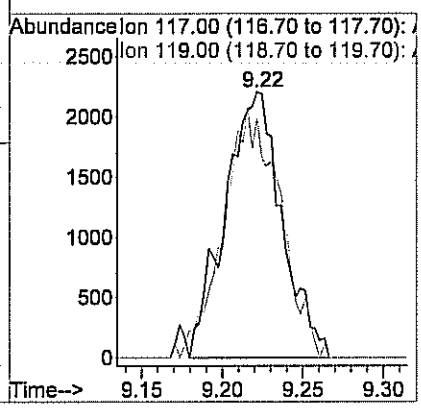


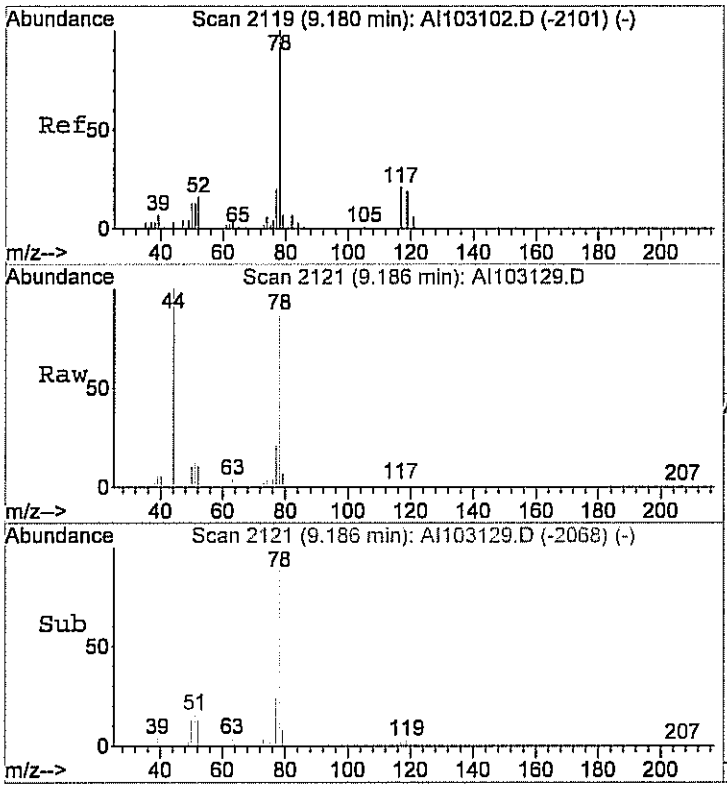


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.22 min Scan# 2133
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:117 Resp: 5418

Ion	Ratio	Lower	Upper
117	100		
119	93.9	77.2	117.2

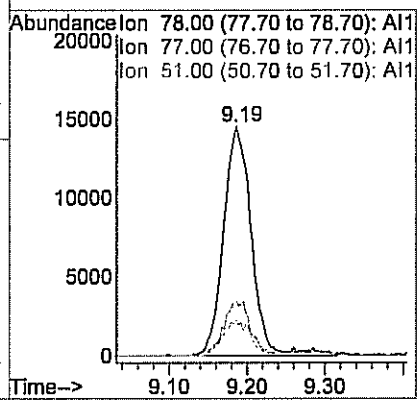


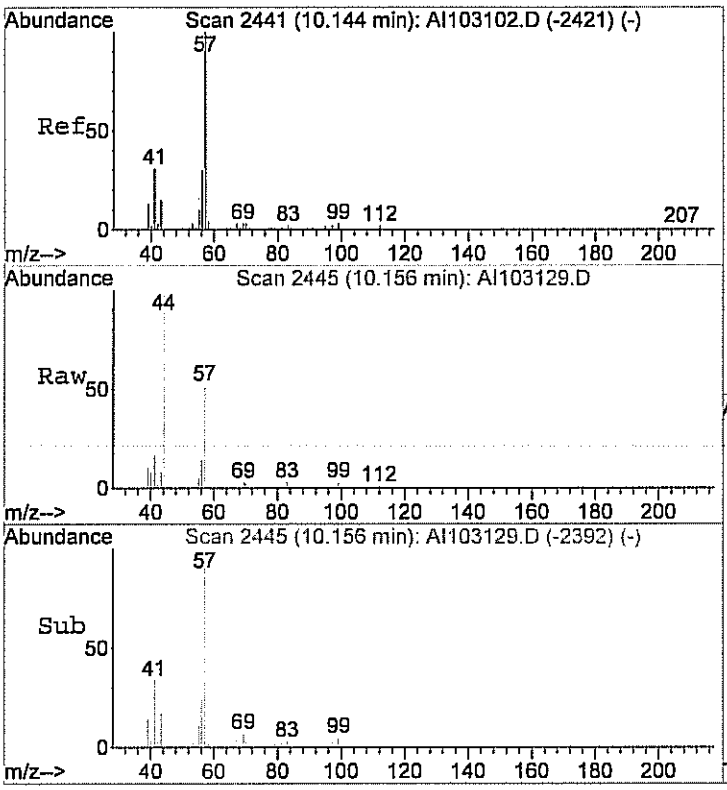


#36
Benzene
Concen: 0.69 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 78 Resp: 36149

Ion	Ratio	Lower	Upper
78	100		
77	26.0	5.2	45.2
51	18.3	0.0	37.6

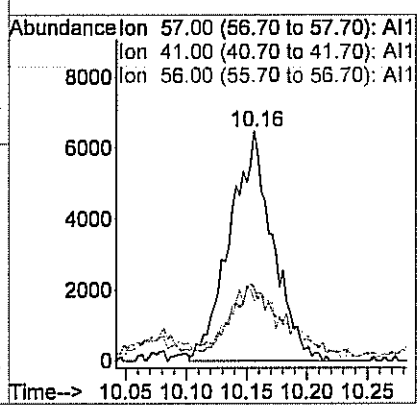


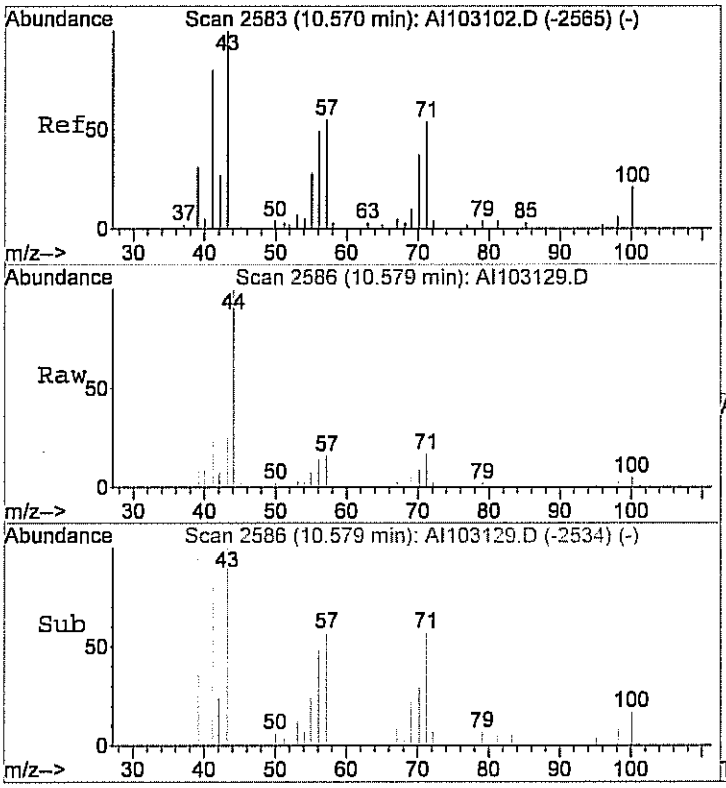


#39
2,2,4-trimethylpentane
Concen: 0.28 ppb
RT: 10.16 min Scan# 2445
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 57 Resp: 16077

Ion	Ratio	Lower	Upper
57	100		
41	62.3	17.9	57.9#
56	42.2	13.7	53.7

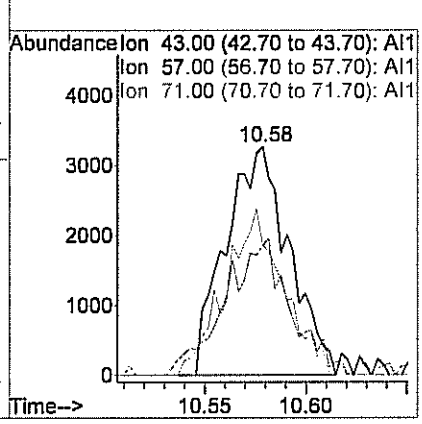


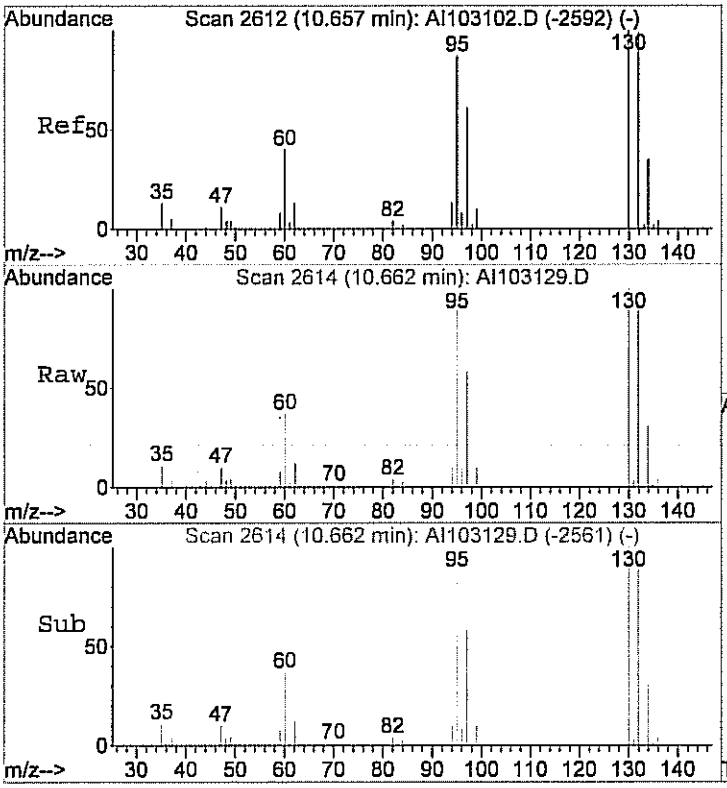


#40
Heptane
Concen: 0.42 ppb
RT: 10.58 min Scan# 2586
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 43 Resp: 7117

Ion	Ratio	Lower	Upper
43	100		
57	61.3	32.1	72.1
71	66.7	35.5	75.5

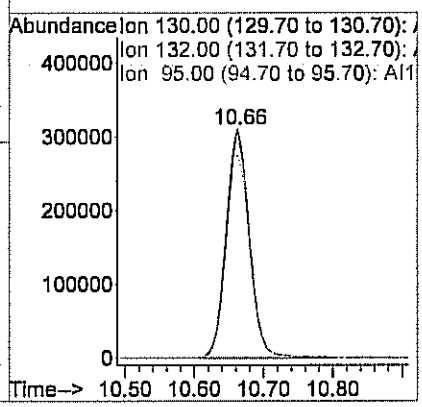


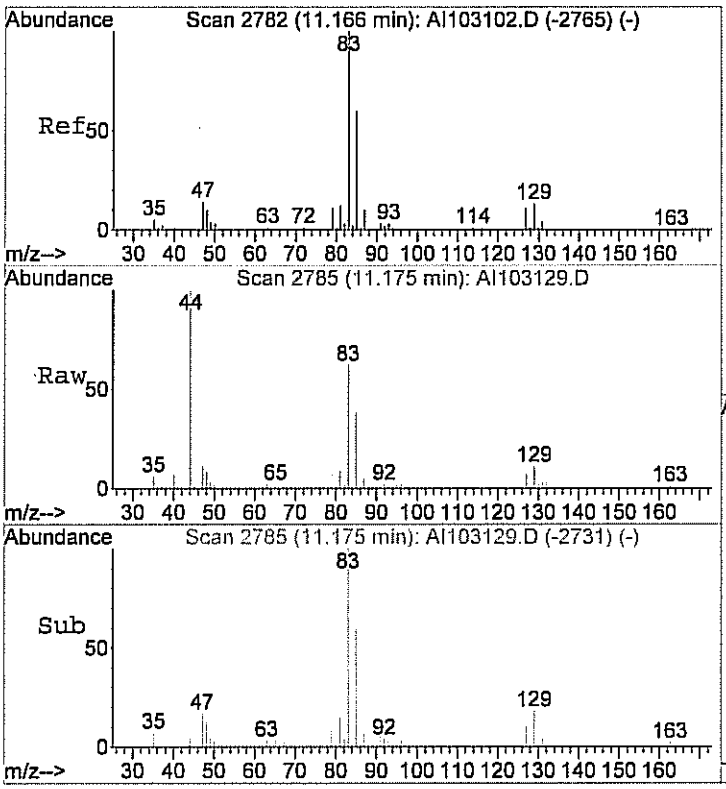


#41
Trichloroethene
Concen: 19.97 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:130 Resp: 725692

Ion	Ratio	Lower	Upper
130	100		
132	96.8	79.0	119.0
95	92.3	76.8	116.8

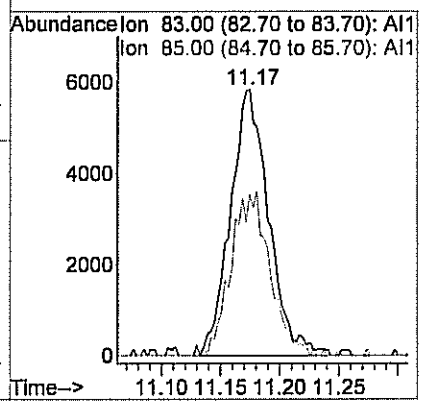


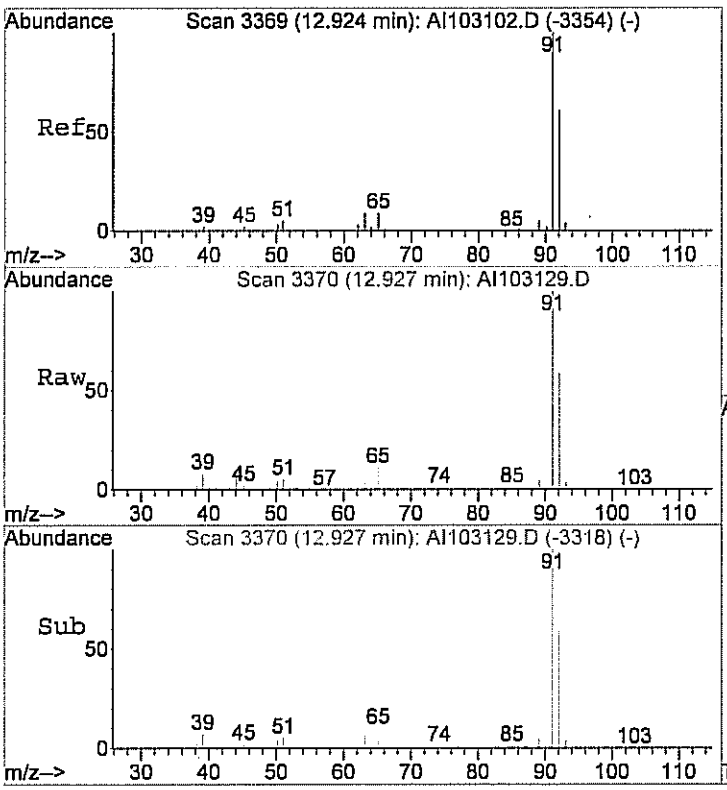


#43
Bromodichloromethane
Concen: 0.25 ppb
RT: 11.17 min Scan# 2785
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 83 Resp: 13158

Ion	Ratio	Lower	Upper
83	100		
85	62.5	46.0	86.0

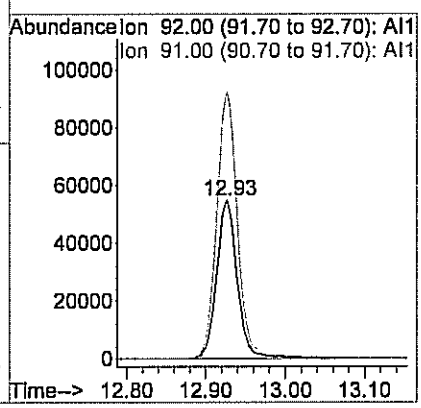


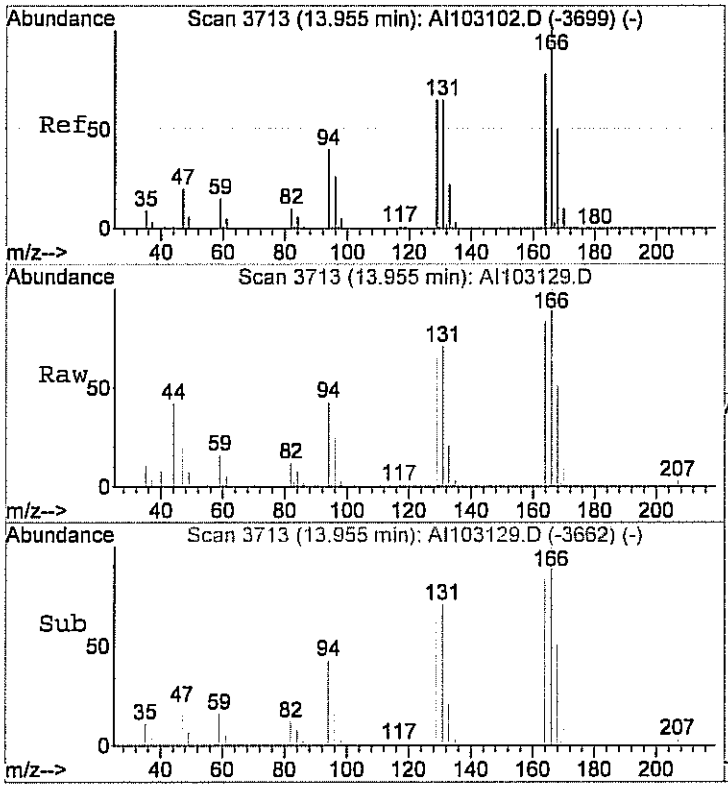


#48
Toluene
Concen: 2.80 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 92 Resp: 98685

Ion	Ratio	Lower	Upper
92	100		
91	169.3	159.8	199.8

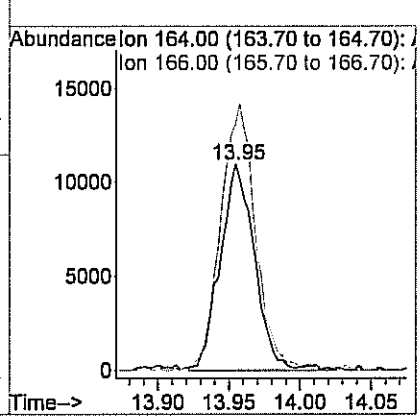


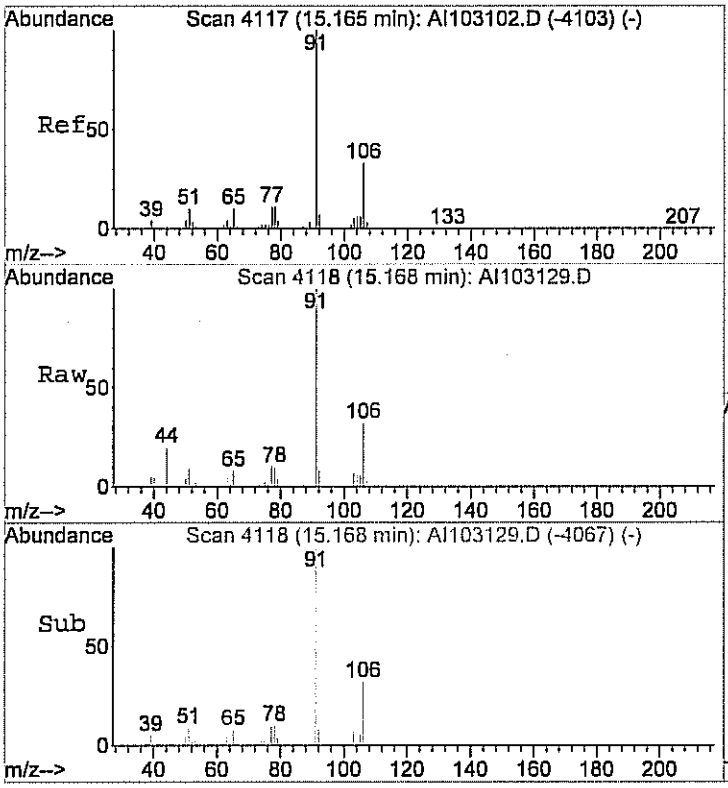


#53
Tetrachloroethylene
Concen: 0.42 ppb
RT: 13.95 min Scan# 3713
Delta R.T. 0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:164 Resp: 18326

Ion	Ratio	Lower	Upper
164	100		
166	131.1	109.4	149.4

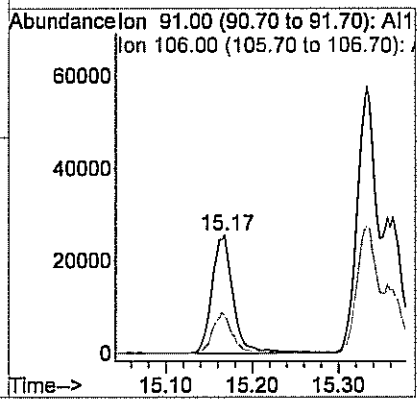


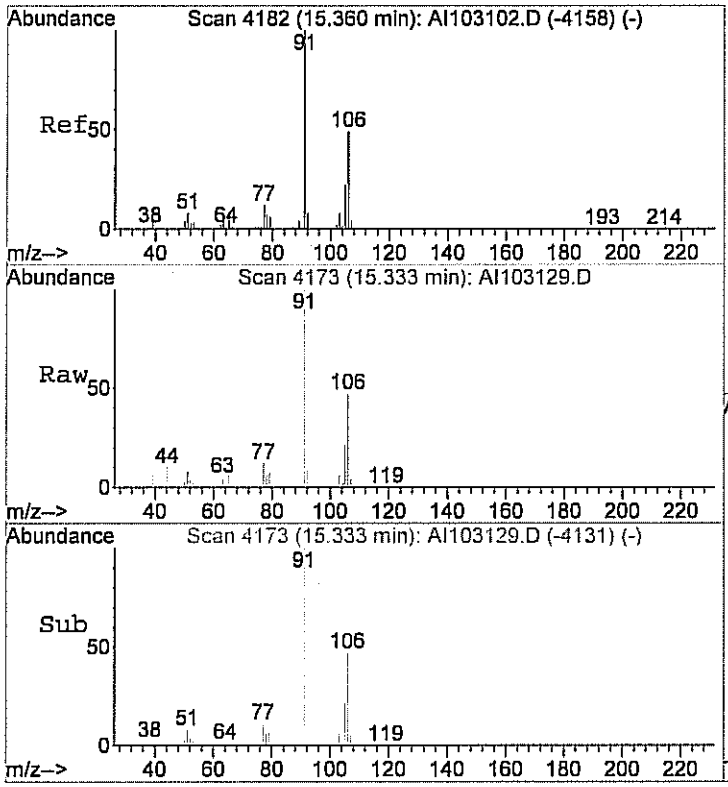


#55
Ethylbenzene
Concen: 0.62 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 91 Resp: 43672

Ion	Ratio	Lower	Upper
91	100		
106	32.2	10.7	50.7

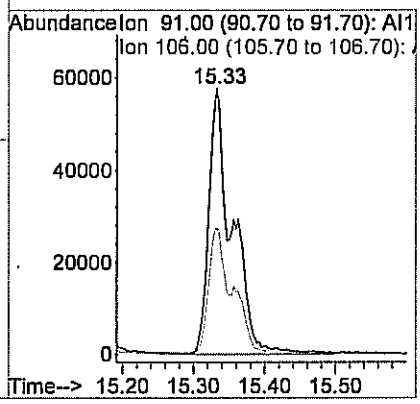


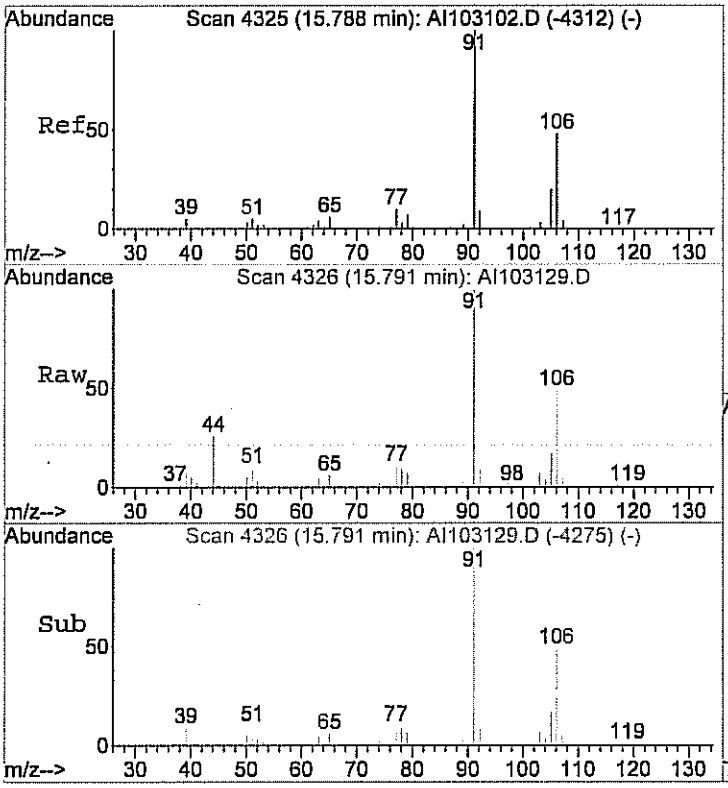


#56
m&p-xylene
Concen: 2.25 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 91 Resp: 132006

Ion	Ratio	Lower	Upper
91	100		
106	49.8	27.5	67.5

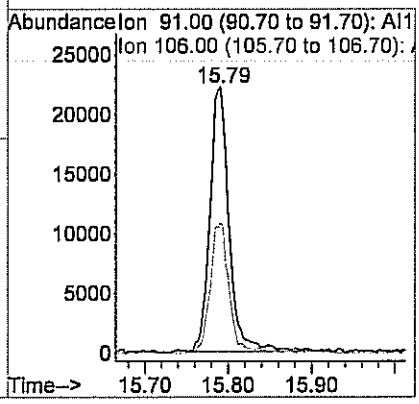


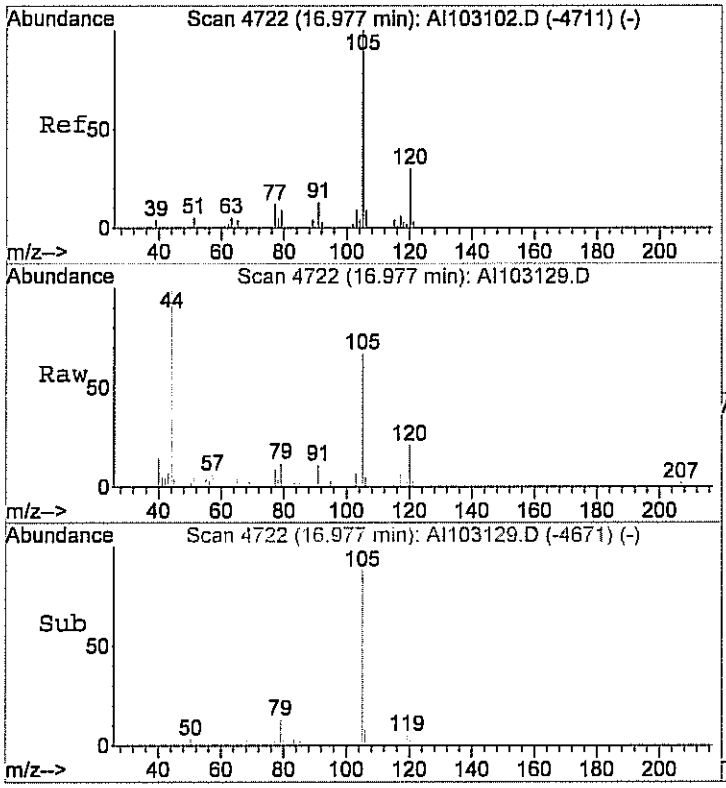


#59
o-xylene
Concen: 0.47 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion: 91 Resp: 35428

Ion	Ratio	Lower	Upper
91	100		
106	48.5	26.2	66.2

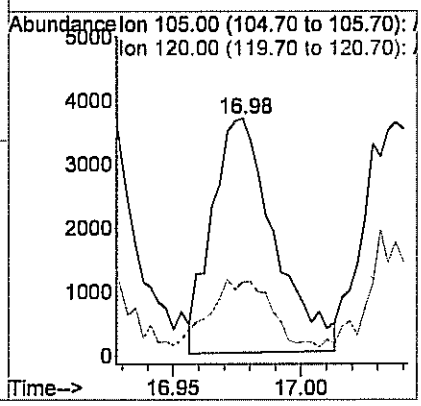


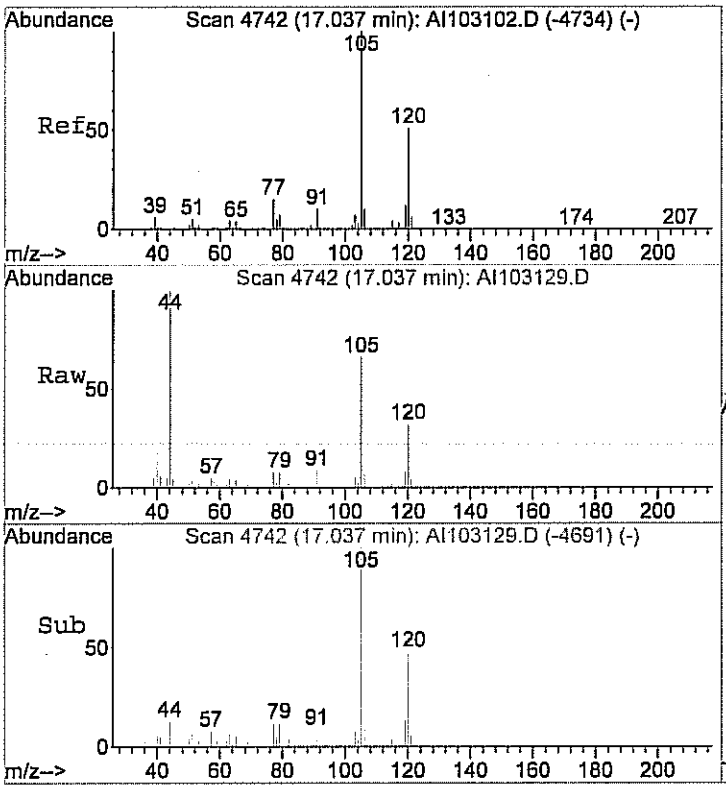


#63
4-ethyltoluene
Concen: 0.11 ppb
RT: 16.98 min Scan# 4722
Delta R.T. 0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:105 Resp: 6182

Ion	Ratio	Lower	Upper
105	100		
120	36.5	8.1	48.1

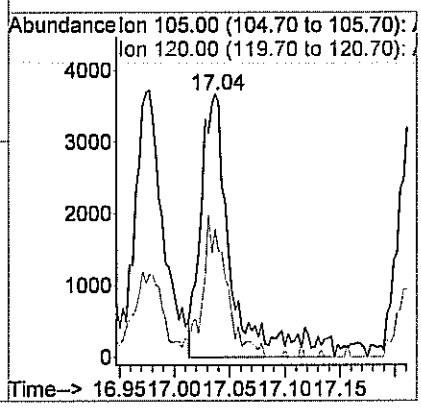


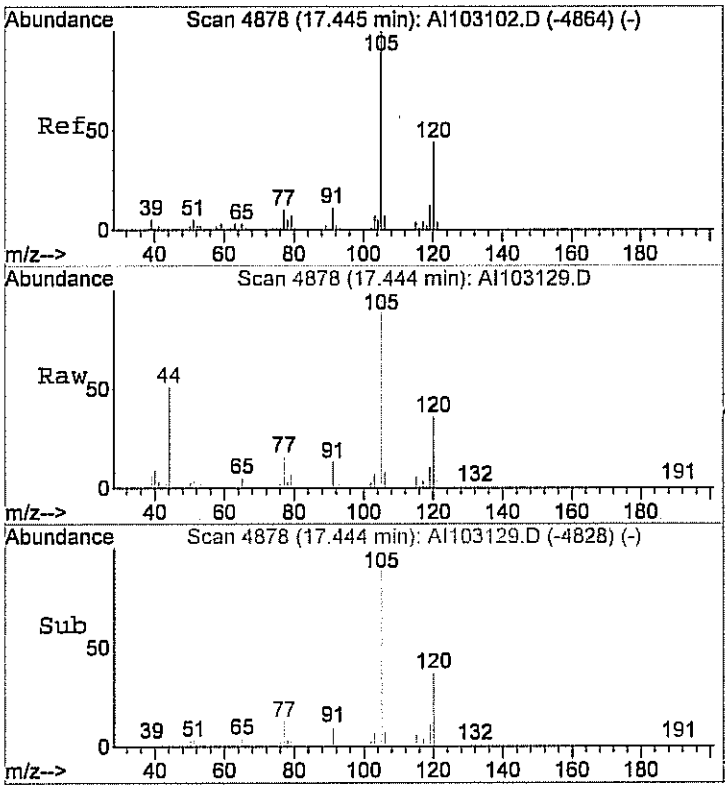


#64
1,3,5-trimethylbenzene
Concen: 0.11 ppb
RT: 17.04 min Scan# 4742
Delta R.T. 0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:105 Resp: 7008

Ion	Ratio	Lower	Upper
105	100		
120	40.8	26.2	66.2

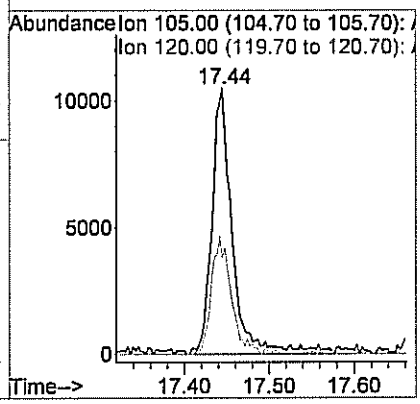




#65
1,2,4-trimethylbenzene
Concen: 0.33 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103129.D
Acq: 1 Nov 2011 1:48 am

Tgt Ion:105 Resp: 17484

Ion	Ratio	Lower	Upper
105	100		
120	42.6	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110111.D Vial: 12
Acq On : 1 Nov 2011 6:08 pm Operator: RJP
Sample : C1110054-014A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 18:29:12 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

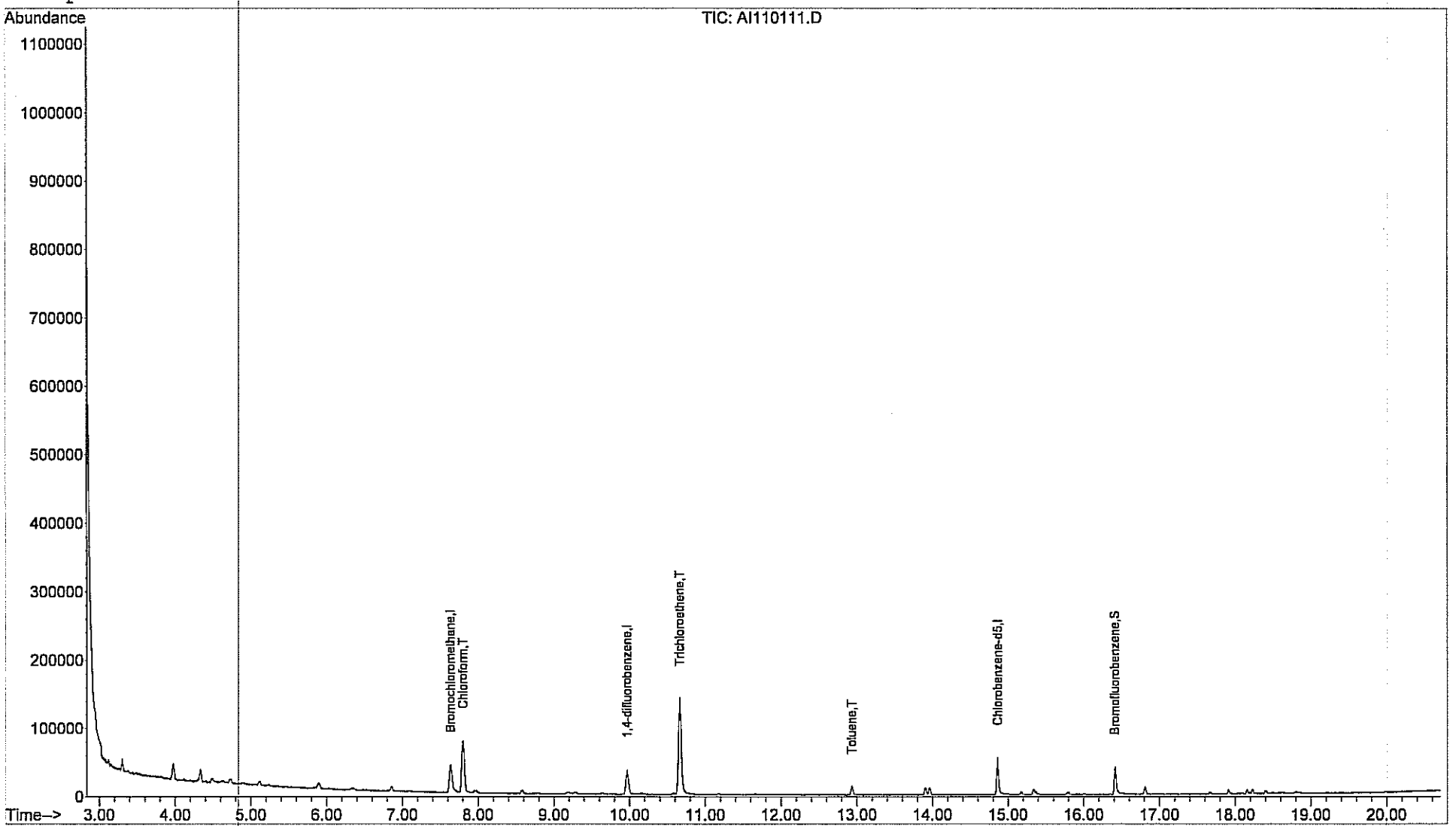
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	17399	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	40114	1.00	ppb	0.00
47) Chlorobenzene-d5	14.86	117	36939	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	15580	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
29) Chloroform	7.80	83	72598	1.46	ppb	99
41) Trichloroethene	10.67	130	67402	2.58	ppb	98
48) Toluene	12.94	92	6642	0.29	ppb	88

(#) = qualifier out of range (m) = manual integration (+) = signals summed

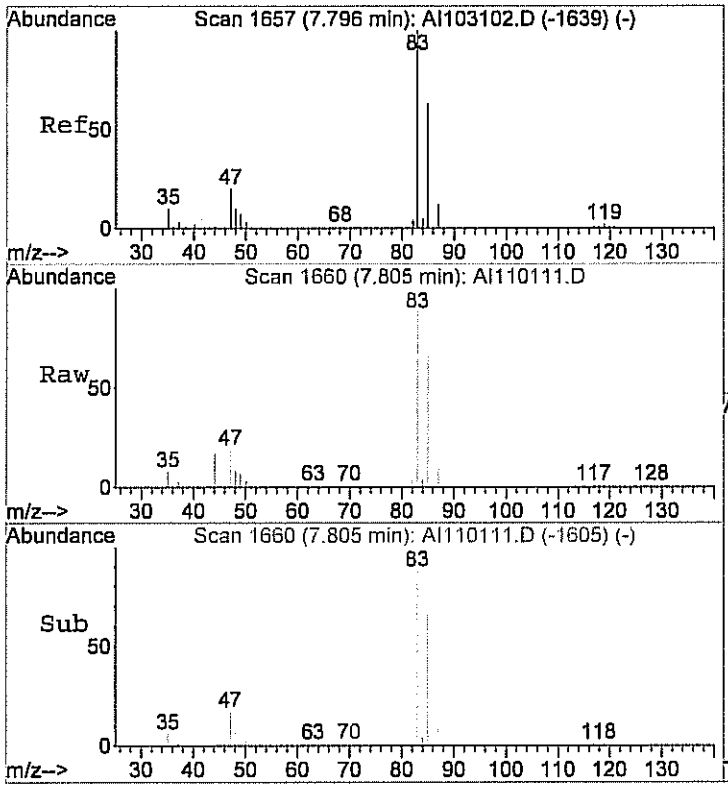
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110111.D Vial: 12
Acq On : 1 Nov 2011 6:08 pm Operator: RJP
Sample : C1110054-014A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:09 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



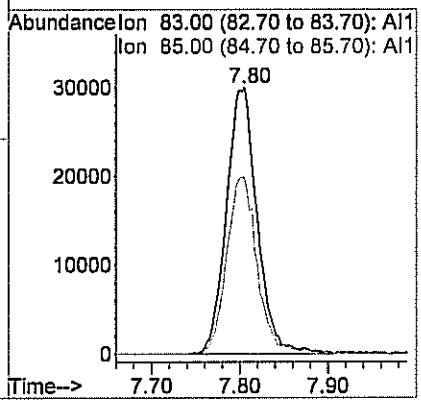
Centek laboratories, LLC

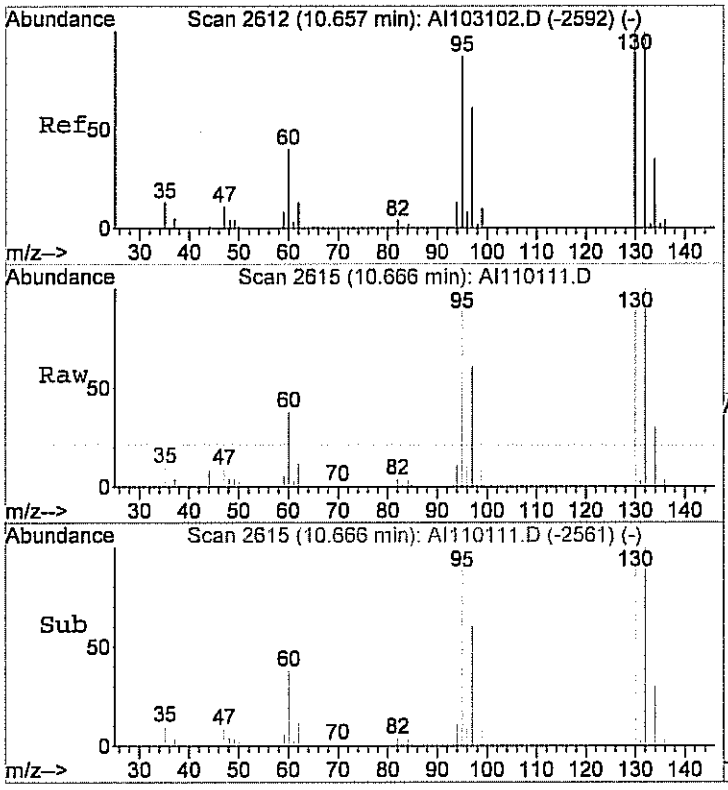


#29
Chloroform
Concen: 1.46 ppb
RT: 7.80 min Scan# 1660
Delta R.T. 0.02 min
Lab File: AI110111.D
Acq: 1 Nov 2011 6:08 pm

Tgt Ion: 83 Resp: 72598

Ion	Ratio	Lower	Upper
83	100		
85	66.1	45.0	85.0

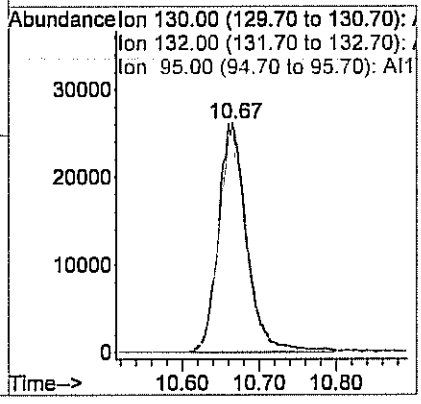


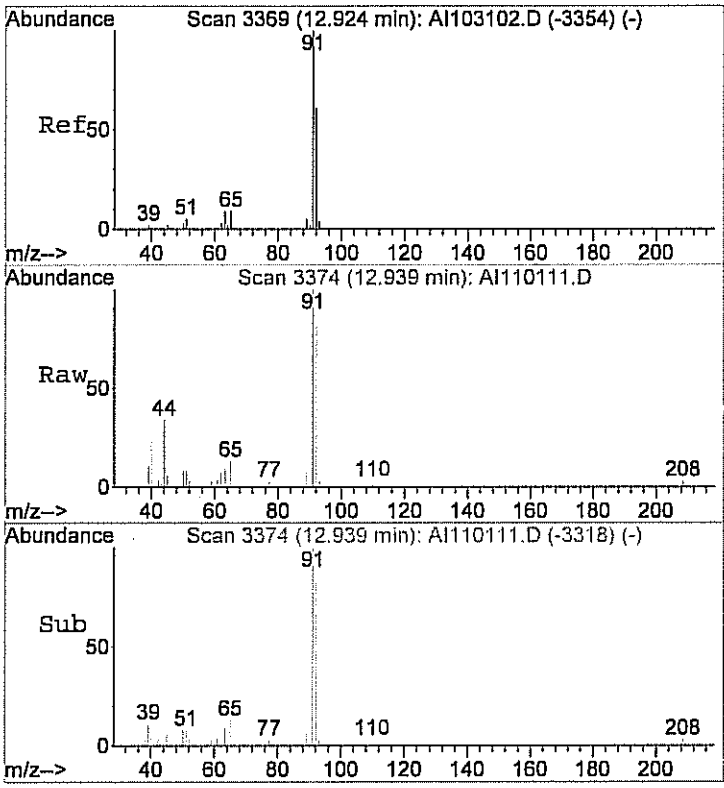


#41
Trichloroethene
Concen: 2.58 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI110111.D
Acq: 1 Nov 2011 6:08 pm

Tgt Ion:130 Resp: 67402

Ion	Ratio	Lower	Upper
130	100		
132	98.2	79.0	119.0
95	94.3	76.8	116.8

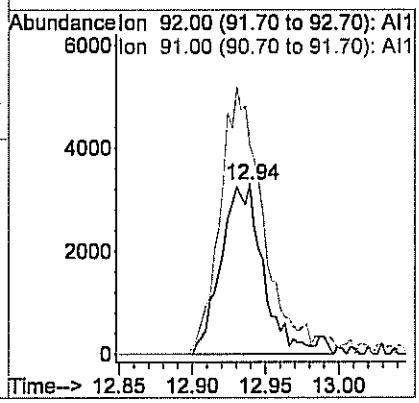




#48
Toluene
Concen: 0.29 ppb
RT: 12.94 min Scan# 3374
Delta R.T. 0.02 min
Lab File: AI110111.D
Acq: 1 Nov 2011 6:08 pm

Tgt Ion: 92 Resp: 6642

Ion	Ratio	Lower	Upper
92	100		
91	162.5	159.8	199.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.16	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzene	1.3	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.10	0.15	J	ppbV	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.25	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 12	0.51	0.15		ppbV	1	11/1/2011 2:21:00 AM
Heptane	0.46	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexane	1.9	0.15		ppbV	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
o-Xylene	0.19	0.15		ppbV	1	11/1/2011 2:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	0.22	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Toluene	2.0	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Trichloroethene	4.3	1.5		ppbV	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	11/1/2011 2:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.80	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:21:00 AM
Benzene	4.2	0.49		ug/m3	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.64	0.96	J	ug/m3	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:21:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 2:21:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Hexane	6.8	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:21:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:21:00 AM
o-Xylene	0.84	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:21:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	1.5	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 2:21:00 AM
Toluene	7.7	0.57		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Trichloroethene	23	8.2		ug/m3	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:21:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103130.D Vial: 9
Acq On : 1 Nov 2011 2:21 am Operator: RJP
Sample : C1110054-015A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 02:42:02 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	19852	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	54032	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	51524	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24236	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	39112	0.51	ppb		99
13) Freon 11	4.11	101	11765	0.26	ppb		96
14) Acetone	4.33	58	10209	1.77	ppb	#	1
27) Hexane	6.86	57	32388	1.90	ppb		95
35) Carbon tetrachloride	9.22	117	5474	0.10	ppb		96
36) Benzene	9.19	78	65573	1.28	ppb		98
39) 2,2,4-trimethylpentane	10.14	57	15962	0.29	ppb	#	55
40) Heptane	10.57	43	7603	0.46	ppb		88
41) Trichloroethene	10.66	130	132247	3.76	ppb		97
48) Toluene	12.92	92	64074	2.02	ppb		94
53) Tetrachloroethylene	13.95	164	8535	0.22	ppb		100
55) Ethylbenzene	15.16	91	15760	0.25	ppb		99
56) m&p-xylene	15.34	91	40529	0.77	ppb		95
59) o-xylene	15.79	91	12966	0.19	ppb		94
65) 1,2,4-trimethylbenzene	17.44	105	7691	0.16	ppb		97

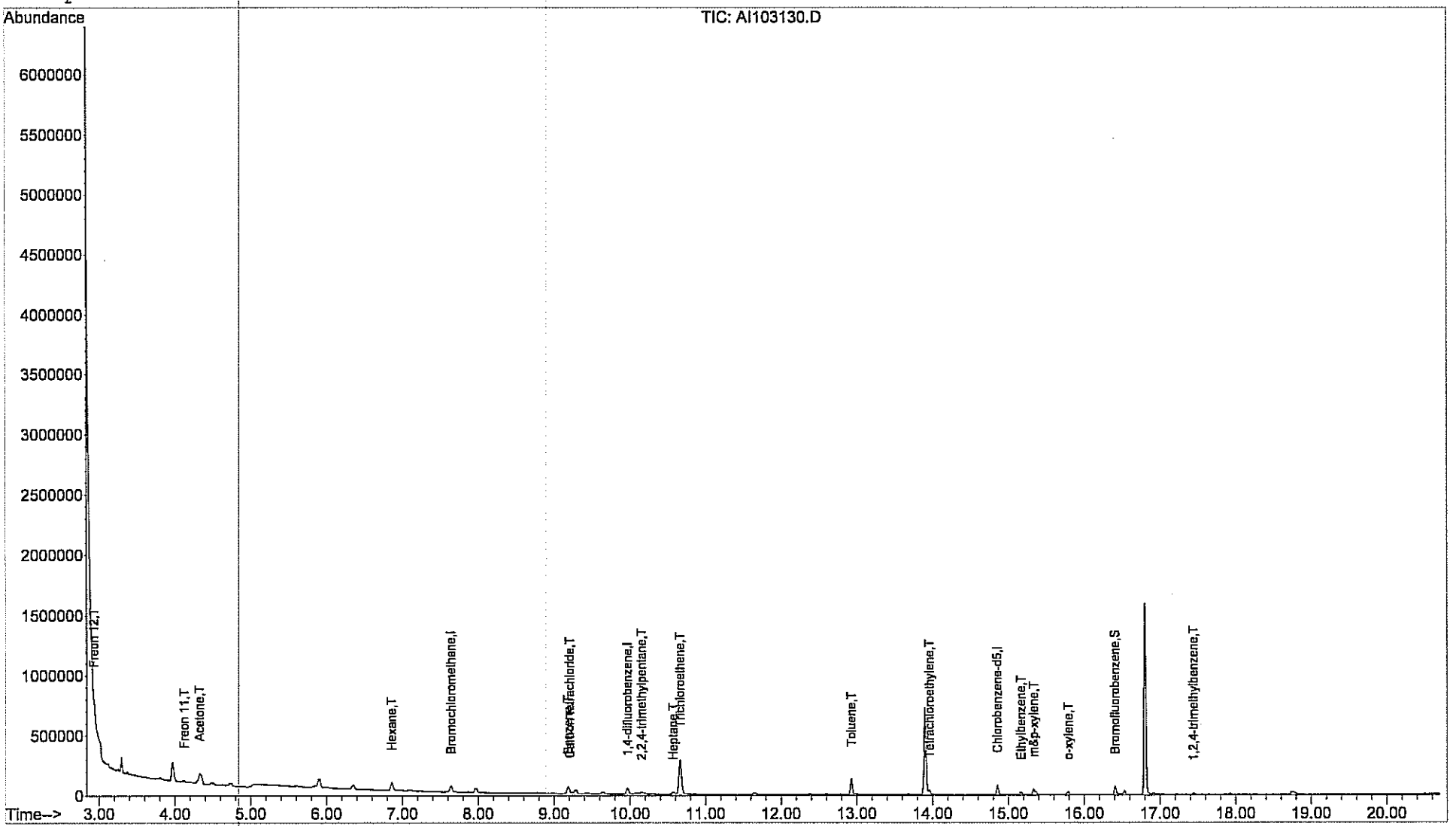
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

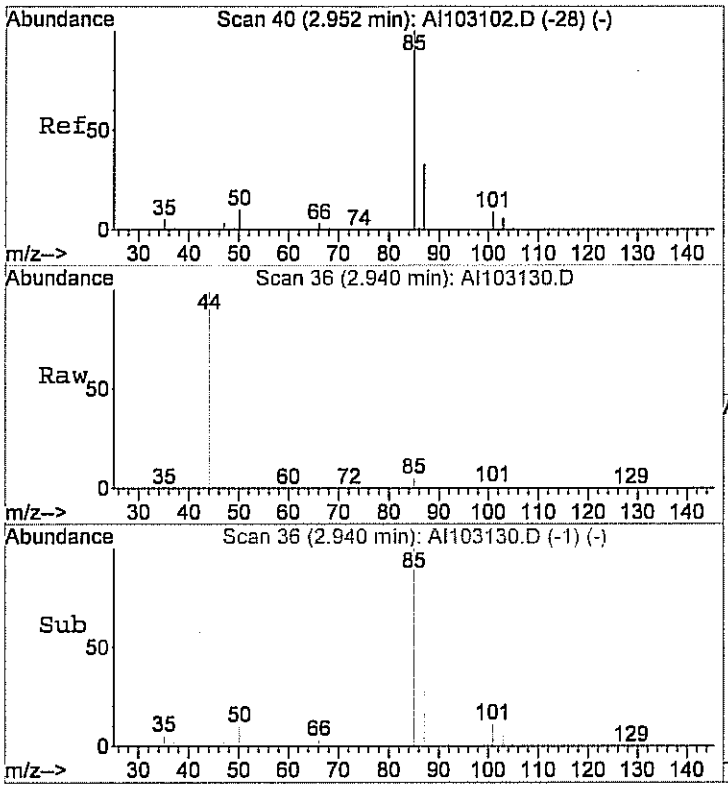
Data File : C:\HPCHEM\1\DATA\AI103130.D
Acq On : 1 Nov 2011 2:21 am
Sample : C1110054-015A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:30 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



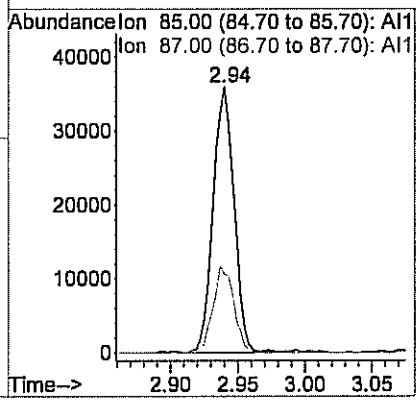
Centek laboratories, LLC

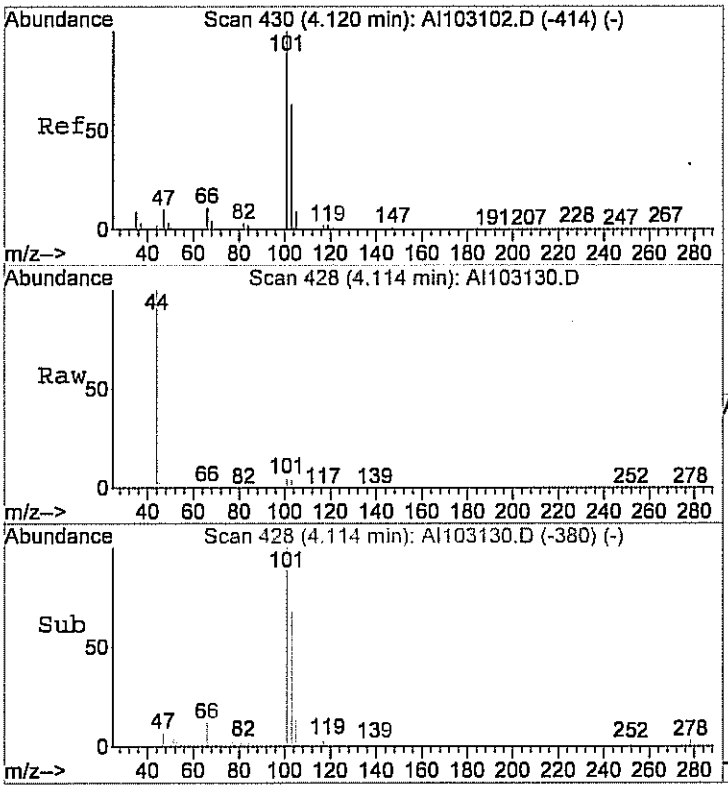


#3
Freon 12
Concen: 0.51 ppb
RT: 2.94 min Scan# 36
Delta R.T. -0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 85 Resp: 39112

Ion	Ratio	Lower	Upper
85	100		
87	31.7	12.2	52.2

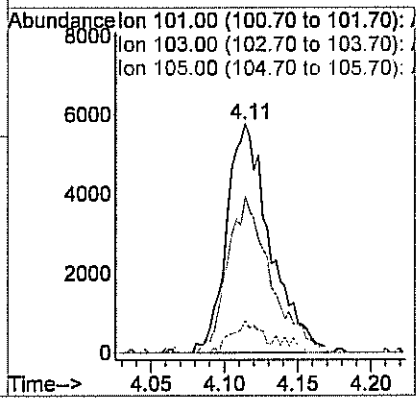


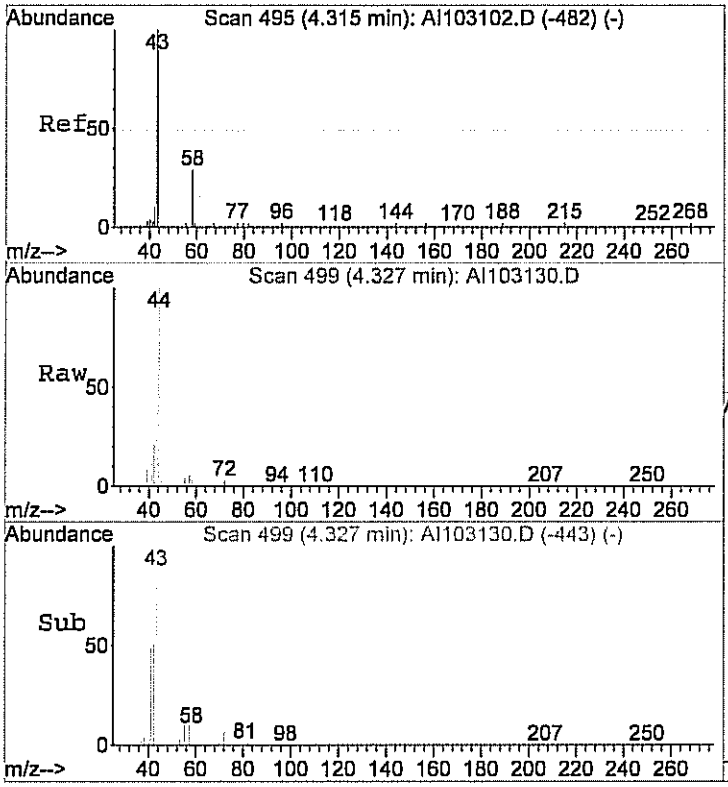


#13
Freon 11
Concen: 0.26 ppb
RT: 4.11 min Scan# 428
Delta R.T. -0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion:101 Resp: 11765

Ion	Ratio	Lower	Upper
101	100		
103	67.8	44.9	84.9
105	12.6	0.0	30.9

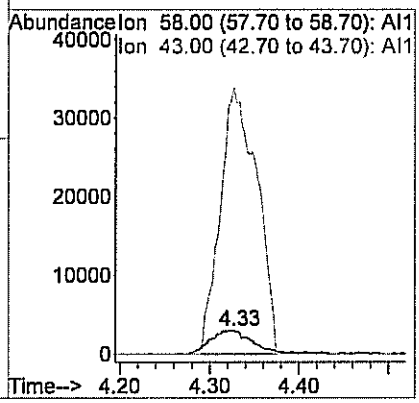


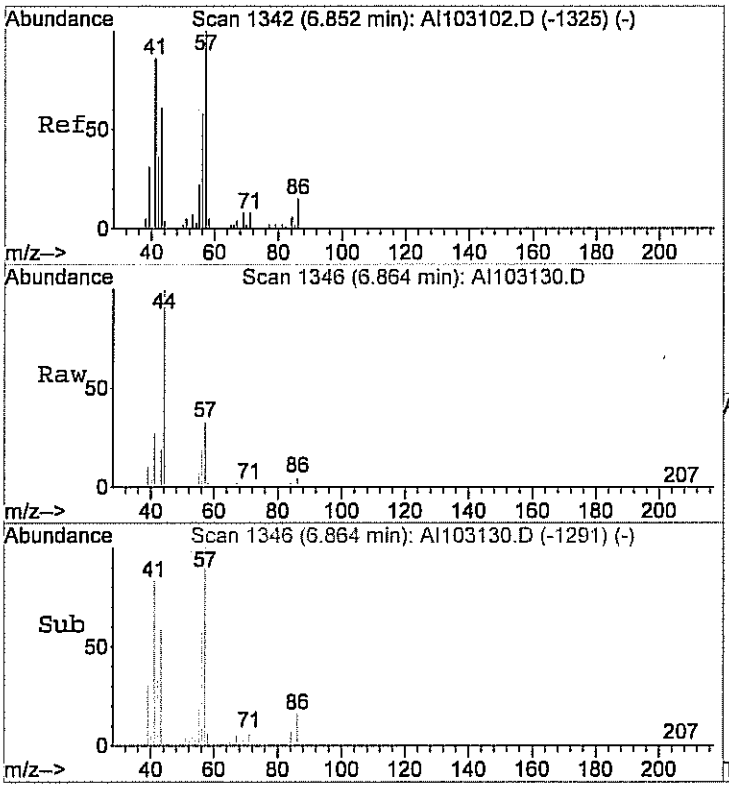


#14
Acetone
Concen: 1.77 ppb
RT: 4.33 min Scan# 499
Delta R.T. 0.02 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 58 Resp: 10209

Ion	Ratio	Lower	Upper
58	100		
43	952.4	360.8	420.8#

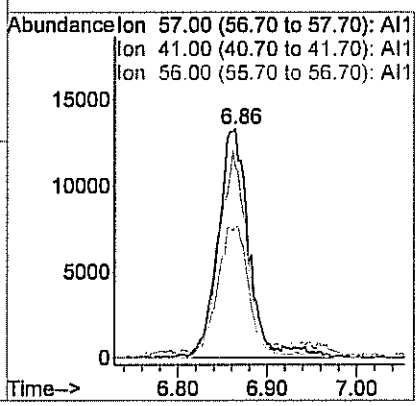


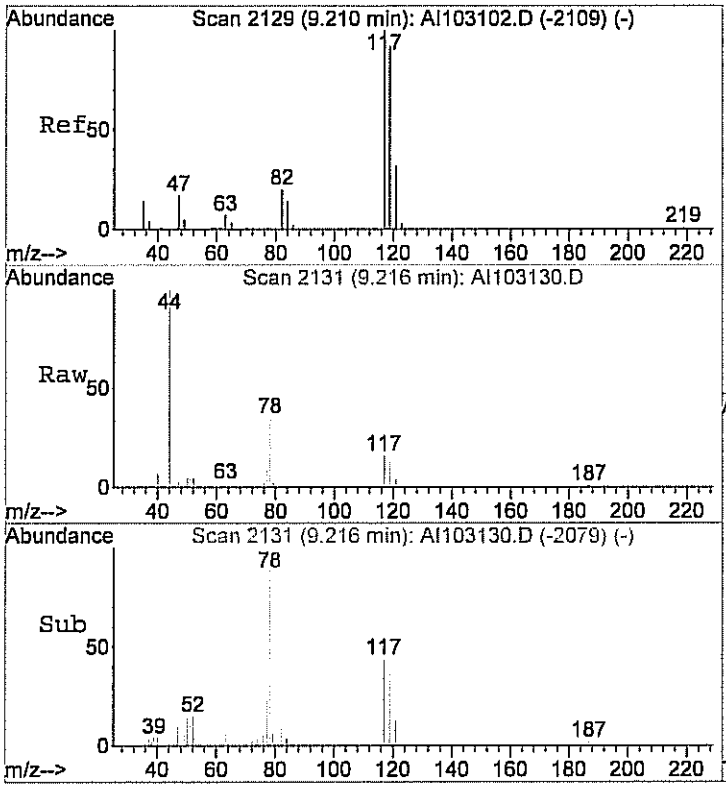


#27
Hexane
Concen: 1.90 ppb
RT: 6.86 min Scan# 1346
Delta R.T. 0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 57 Resp: 32388

Ion	Ratio	Lower	Upper
57	100		
41	91.0	75.5	115.5
56	60.4	35.9	75.9

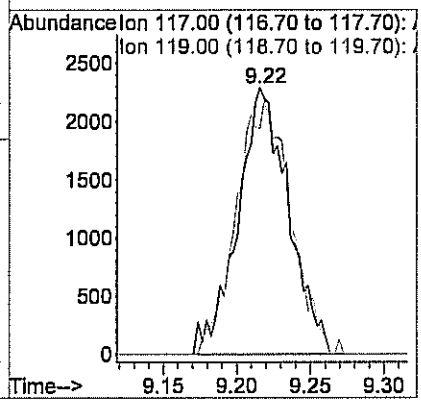


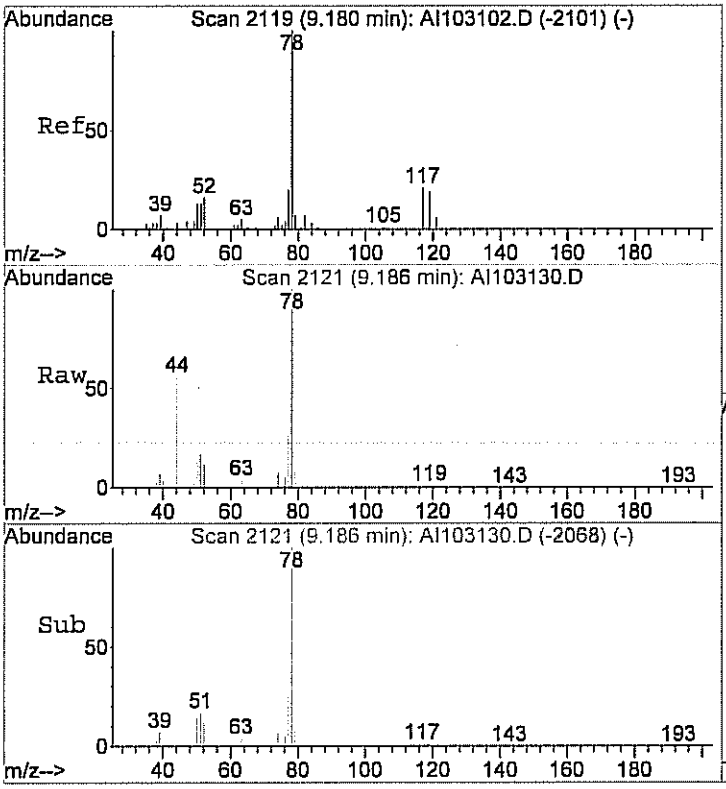


#35
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.22 min Scan# 2131
Delta R.T. 0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion:117 Resp: 5474

Ion	Ratio	Lower	Upper
117	100		
119	100.9	77.2	117.2

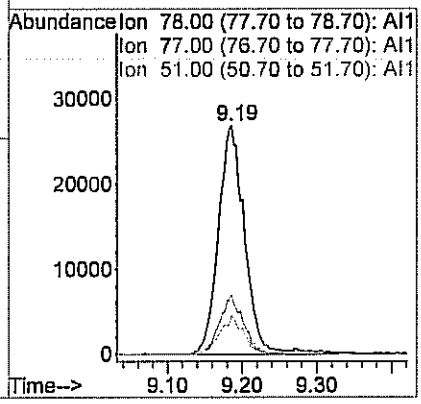


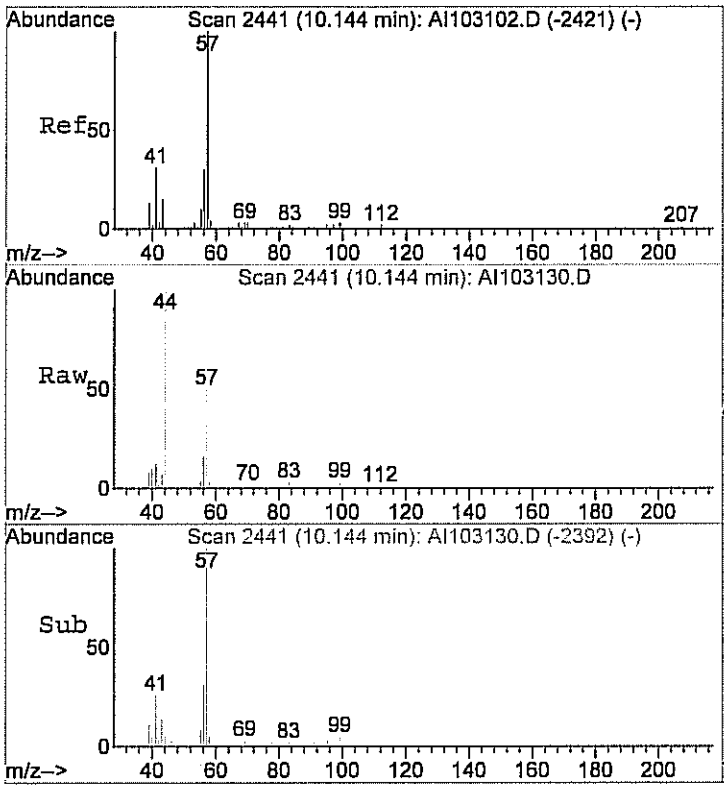


#36
Benzene
Concen: 1.28 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 78 Resp: 65573

Ion	Ratio	Lower	Upper
78	100		
77	25.0	5.2	45.2
51	15.4	0.0	37.6

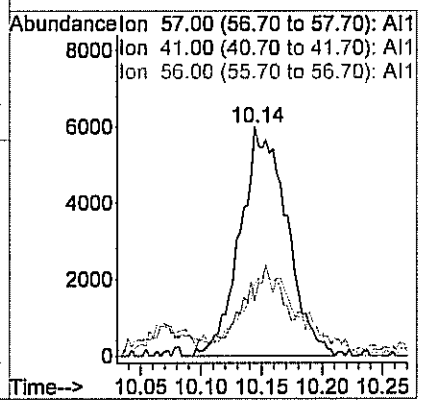


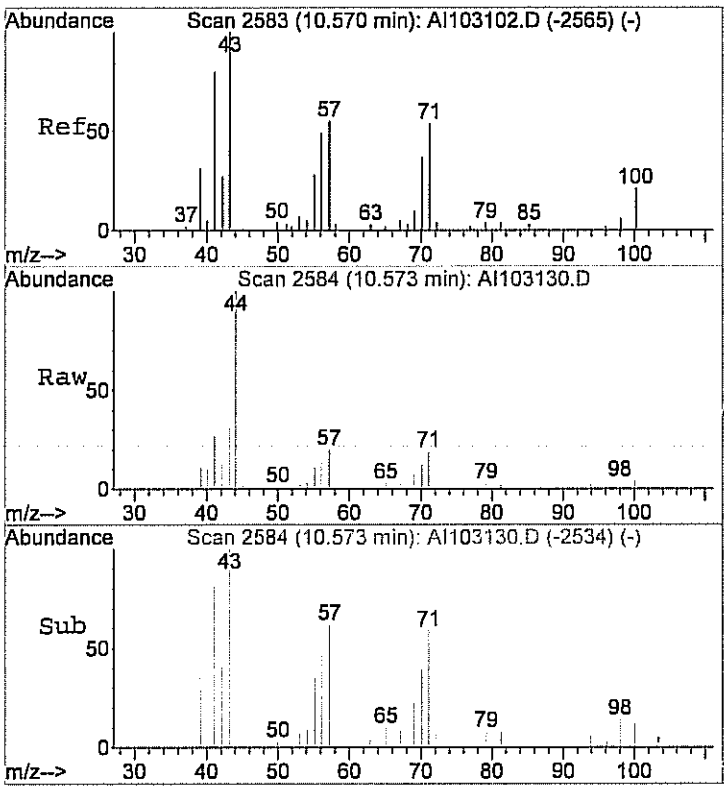


#39
2,2,4-trimethylpentane
Concen: 0.29 ppb
RT: 10.14 min Scan# 2441
Delta R.T. -0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 57 Resp: 15962

Ion	Ratio	Lower	Upper
57	100		
41	65.5	17.9	57.9#
56	58.5	13.7	53.7#

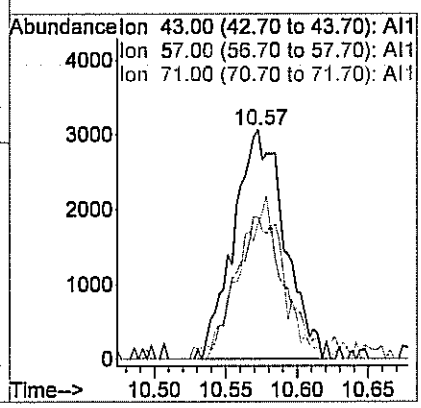


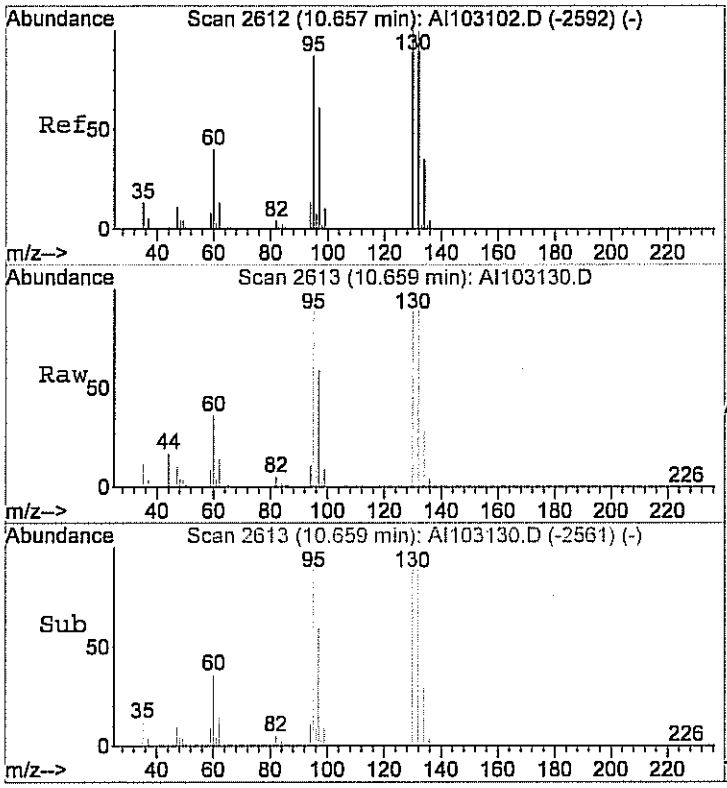


#40
Heptane
Concen: 0.46 ppb
RT: 10.57 min Scan# 2584
Delta R.T. -0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 43 Resp: 7603

Ion	Ratio	Lower	Upper
43	100		
57	63.5	32.1	72.1
71	60.8	35.5	75.5

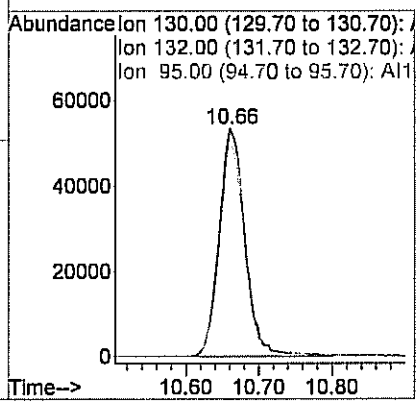


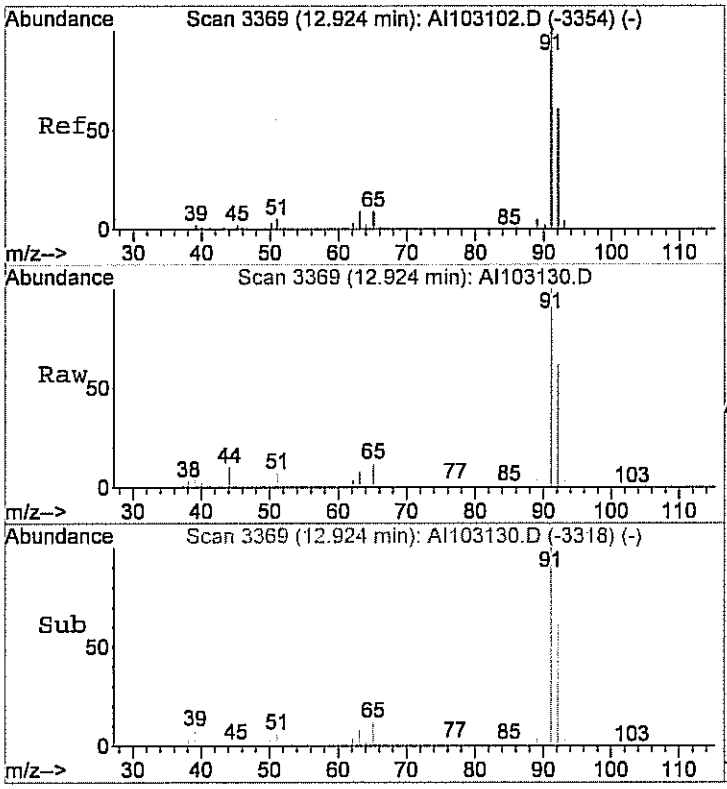


#41
Trichloroethene
Concen: 3.76 ppb
RT: 10.66 min Scan# 2613
Delta R.T. 0.01 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion:130 Resp: 132247

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	93.4	76.8	116.8

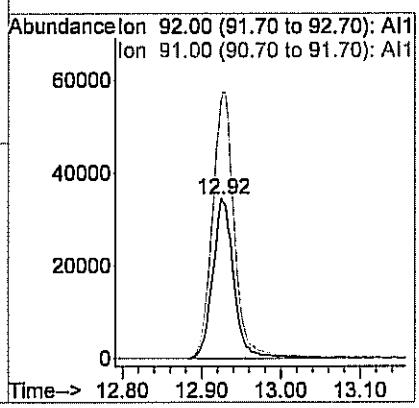


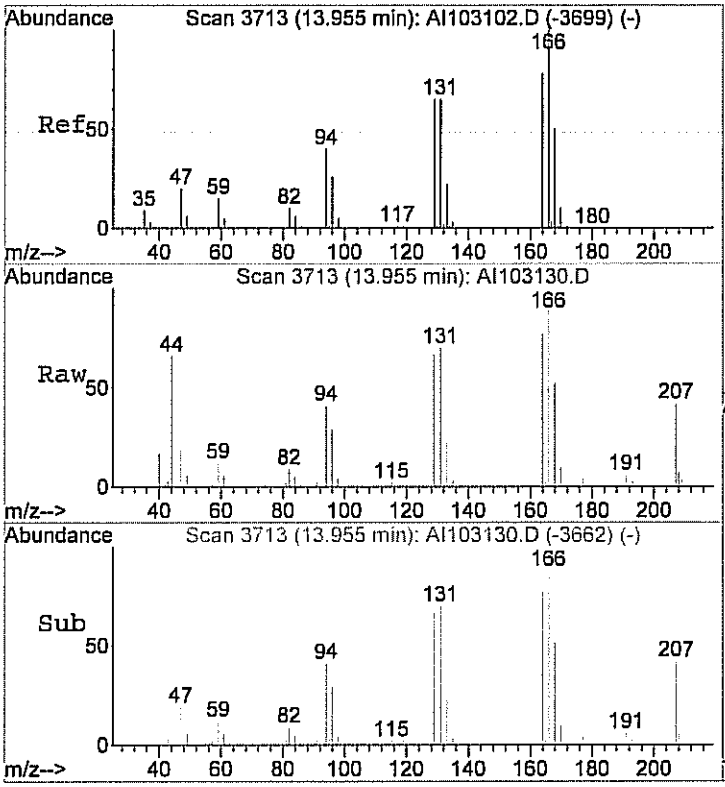


#48
Toluene
Concen: 2.02 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 92 Resp: 64074

Ion	Ratio	Lower	Upper
92	100		
91	171.5	159.8	199.8

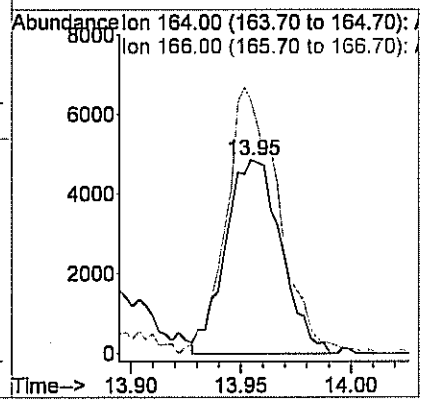


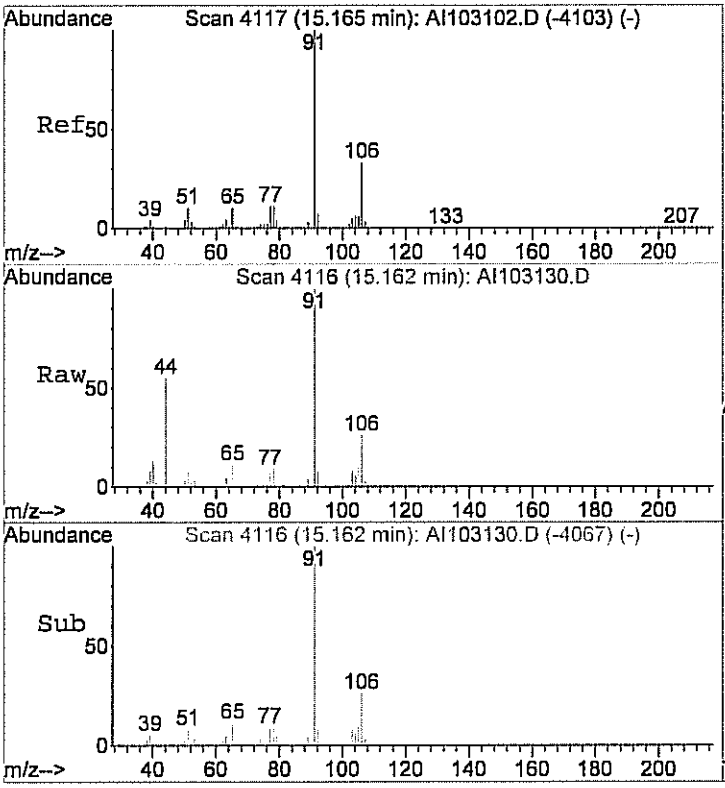


#53
Tetrachloroethylene
Concen: 0.22 ppb
RT: 13.95 min Scan# 3713
Delta R.T. 0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion:164 Resp: 8535

Ion	Ratio	Lower	Upper
164	100		
166	129.4	109.4	149.4

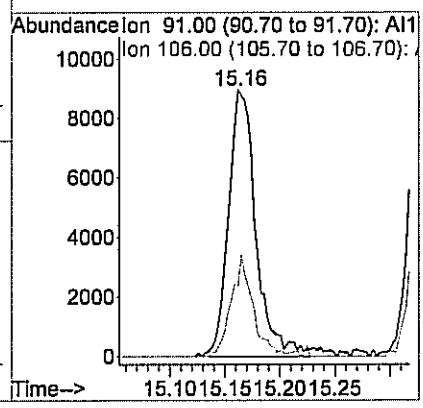


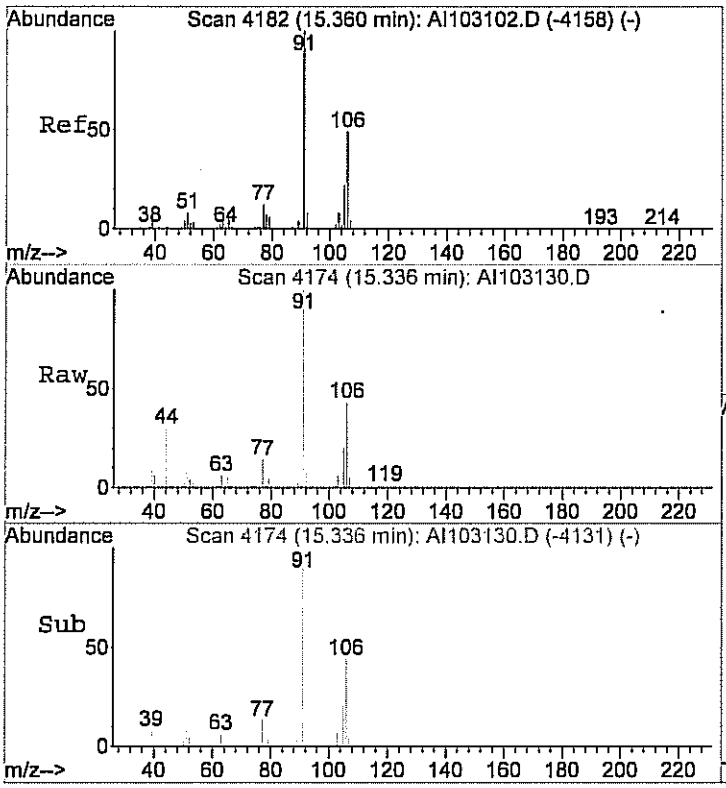


#55
Ethylbenzene
Concen: 0.25 ppb
RT: 15.16 min Scan# 4116
Delta R.T. -0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 91 Resp: 15760

Ion	Ratio	Lower	Upper
91	100		
106	30.2	10.7	50.7

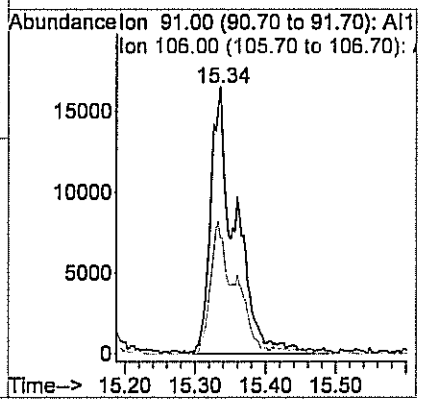


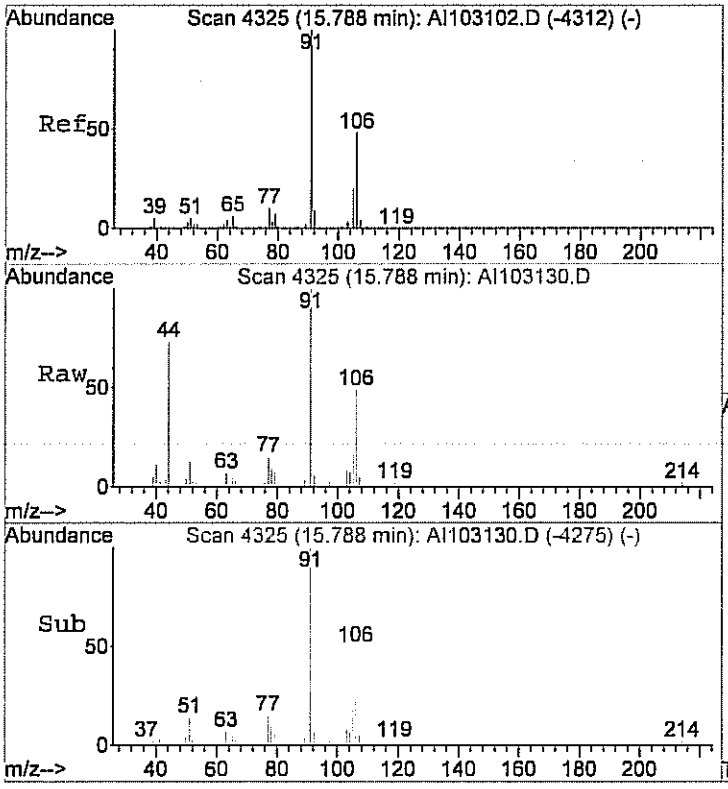


#56
m&p-xylene
Concen: 0.77 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 91 Resp: 40529

Ion	Ratio	Lower	Upper
91	100		
106	50.9	27.5	67.5

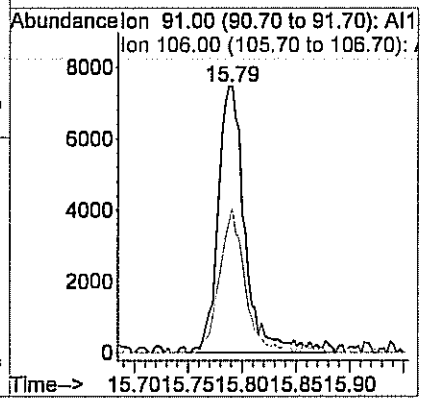


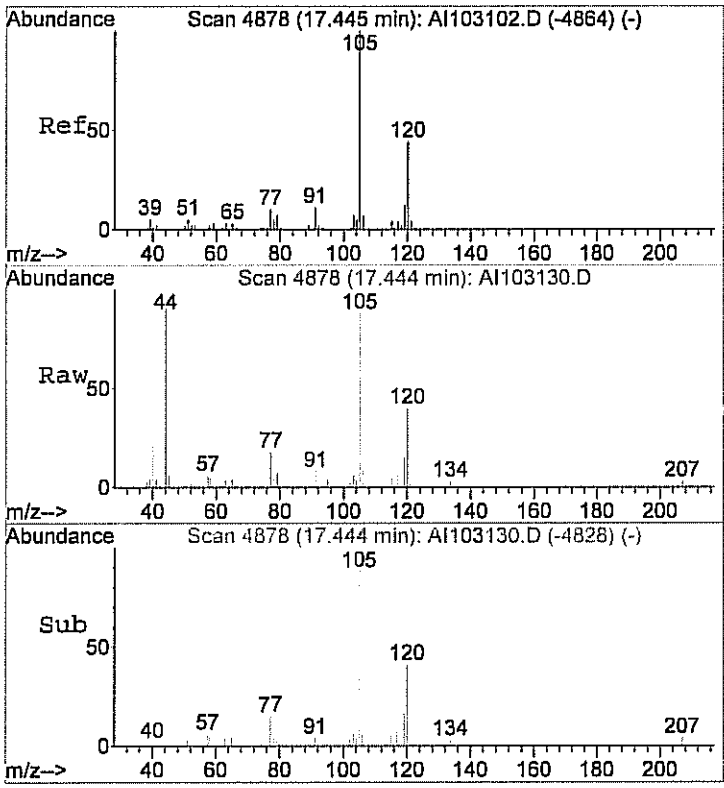


#59
o-xylene
Concen: 0.19 ppb
RT: 15.79 min Scan# 4325
Delta R.T. -0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion: 91 Resp: 12966

Ion	Ratio	Lower	Upper
91	100		
106	50.2	26.2	66.2

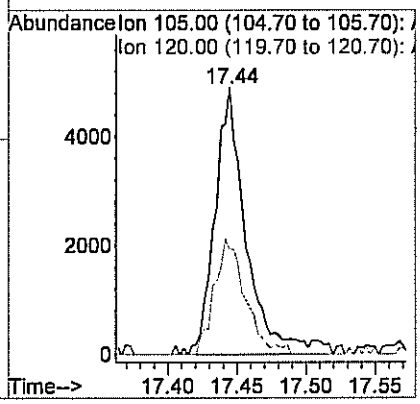




#65
1,2,4-trimethylbenzene
Concen: 0.16 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103130.D
Acq: 1 Nov 2011 2:21 am

Tgt Ion:105 Resp: 7691

Ion	Ratio	Lower	Upper
105	100		
120	43.0	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110112.D Vial: 13
Acq On : 1 Nov 2011 6:40 pm Operator: RJP
Sample : C1110054-015A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 19:01:41 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

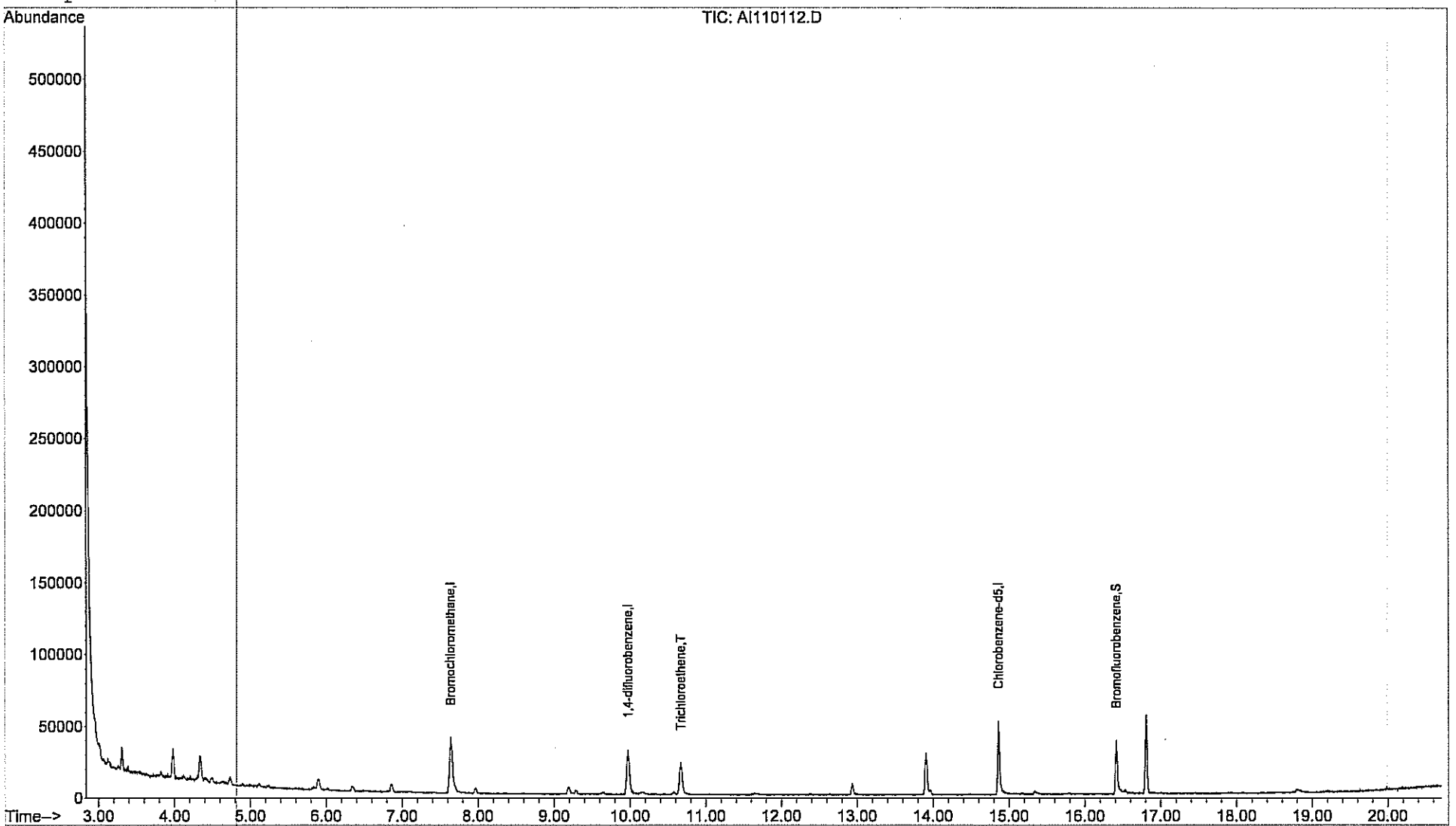
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	17713	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.98	114	37569	1.00	ppb	0.02
47) Chlorobenzene-d5	14.86	117	35426	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.42	95	14376	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.67	130	10615	0.43	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

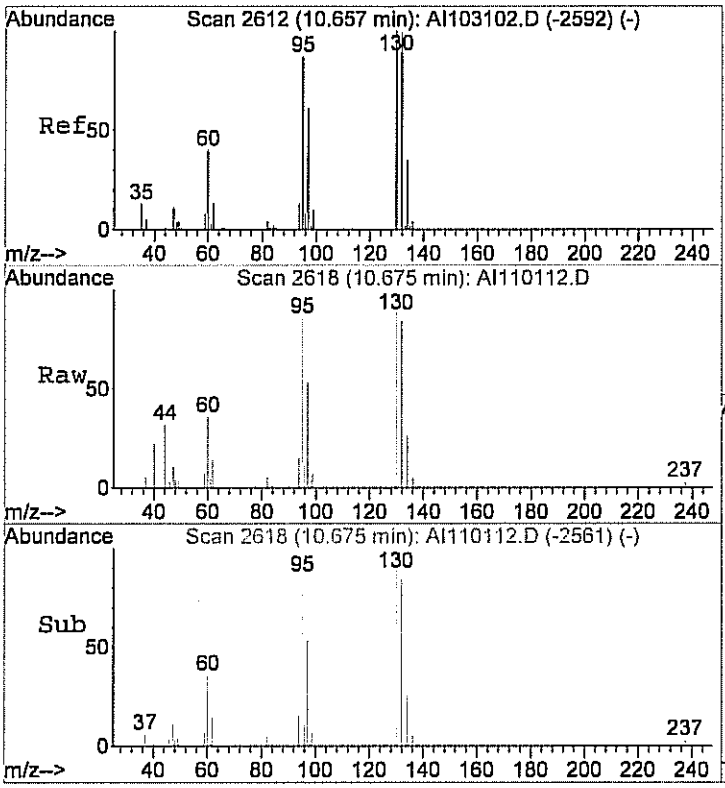
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110112.D Vial: 13
Acq On : 1 Nov 2011 6:40 pm Operator: RJP
Sample : C1110054-015A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:10 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



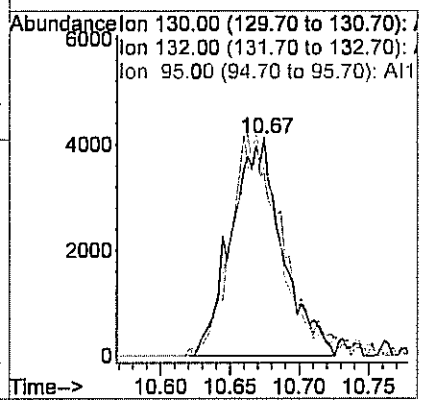
Centek laboratories, LLC



#41
Trichloroethene
Concen: 0.43 ppb
RT: 10.67 min Scan# 2618
Delta R.T. 0.02 min
Lab File: AI110112.D
Acq: 1 Nov 2011 6:40 pm

Tgt Ion:130 Resp: 10615

Ion	Ratio	Lower	Upper
130	100		
132	101.2	79.0	119.0
95	99.0	76.8	116.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.11	0.15	J	ppbV	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Acetone	4.6	1.5		ppbV	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroform	0.95	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	7851A06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 12	0.45	0.15		ppbV	1	10/31/2011 2:43:00 PM
Heptane	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexane	0.65	0.15		ppbV	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
m&p-Xylene	0.55	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
o-Xylene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	3.1	0.75		ppbV	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 2:43:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.52	0.71	J	ug/m3	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Acetone	11	3.6		ug/m3	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:43:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:43:00 PM
Chloroform	4.7	0.74		ug/m3	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:43:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.3	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Heptane	0.71	0.62		ug/m3	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Hexane	2.3	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 2:43:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:43:00 PM
o-Xylene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	21	5.2		ug/m3	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:43:00 PM
Toluene	4.0	0.57		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:43:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103109.D Vial: 24
Acq On : 31 Oct 2011 2:43 pm Operator: RJP
Sample : C1110054-016A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 15:04:40 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

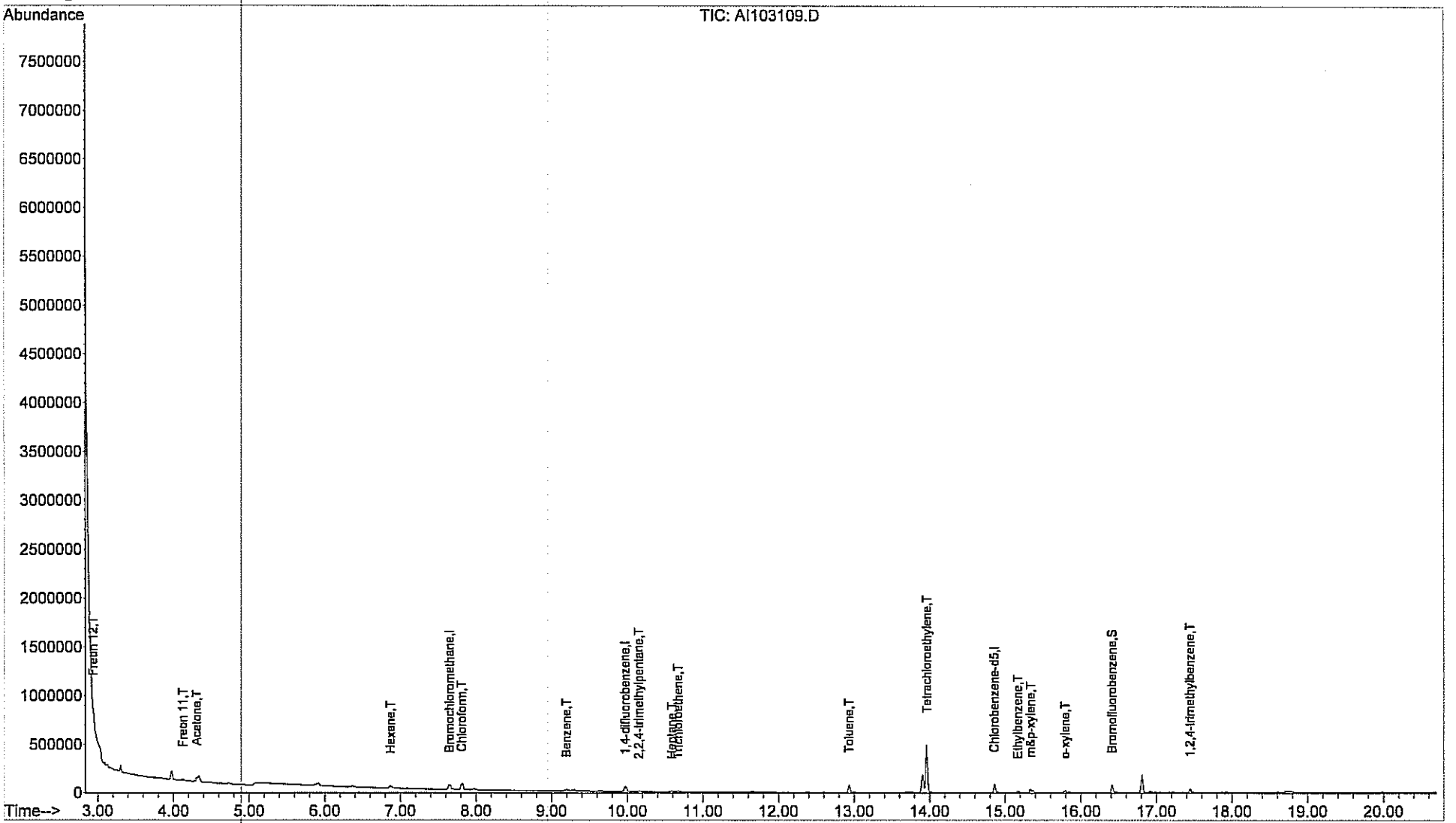
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	21352	1.00	ppb		0.03
32) 1,4-difluorobenzene	9.97	114	59863	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	56115	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	27400	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	36878m	0.45	ppb		
13) Freon 11	4.12	101	10995	0.23	ppb		94
14) Acetone	4.31	58	23917	3.85	ppb	#	87
27) Hexane	6.87	57	11991	0.65	ppb		92
29) Chloroform	7.81	83	58313	0.95	ppb		97
36) Benzene	9.19	78	21859	0.39	ppb		95
39) 2,2,4-trimethylpentane	10.16	57	6839	0.11	ppb		78
40) Heptane	10.58	43	3073	0.17	ppb	#	66
41) Trichloroethene	10.67	130	3728	0.10	ppb		93
48) Toluene	12.93	92	36184	1.05	ppb		95
53) Tetrachloroethylene	13.96	164	114680	2.66	ppb		100
55) Ethylbenzene	15.17	91	11761	0.17	ppb		100
56) m&p-xylene	15.34	91	31895	0.55	ppb		97
59) o-xylene	15.79	91	12844	0.17	ppb		97
65) 1,2,4-trimethylbenzene	17.45	105	14273	0.28	ppb		92

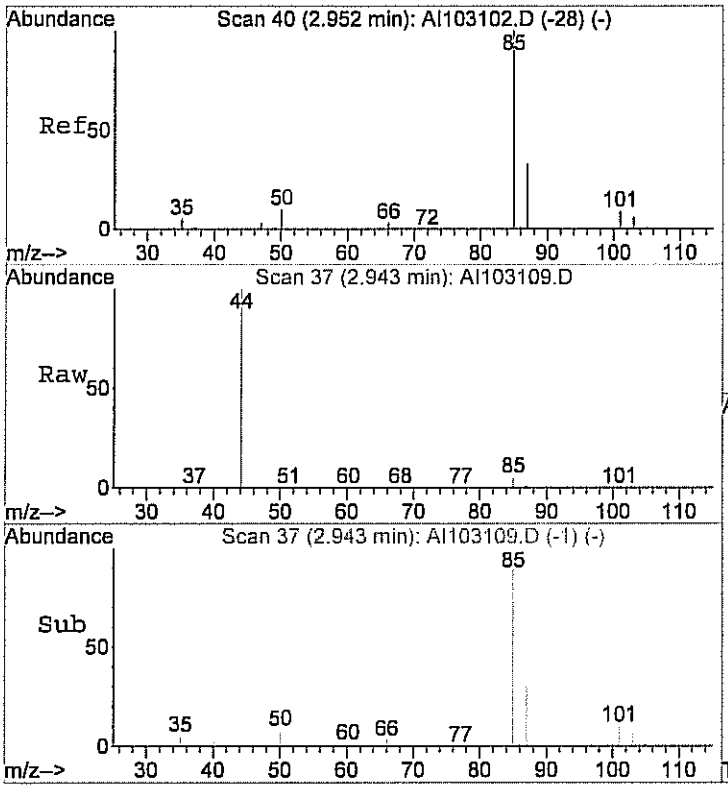
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103109.D Vial: 24
Acq On : 31 Oct 2011 2:43 pm Operator: RJP
Sample : C1110054-016A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:10 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration

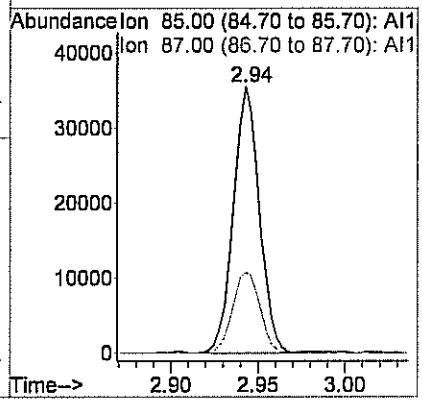


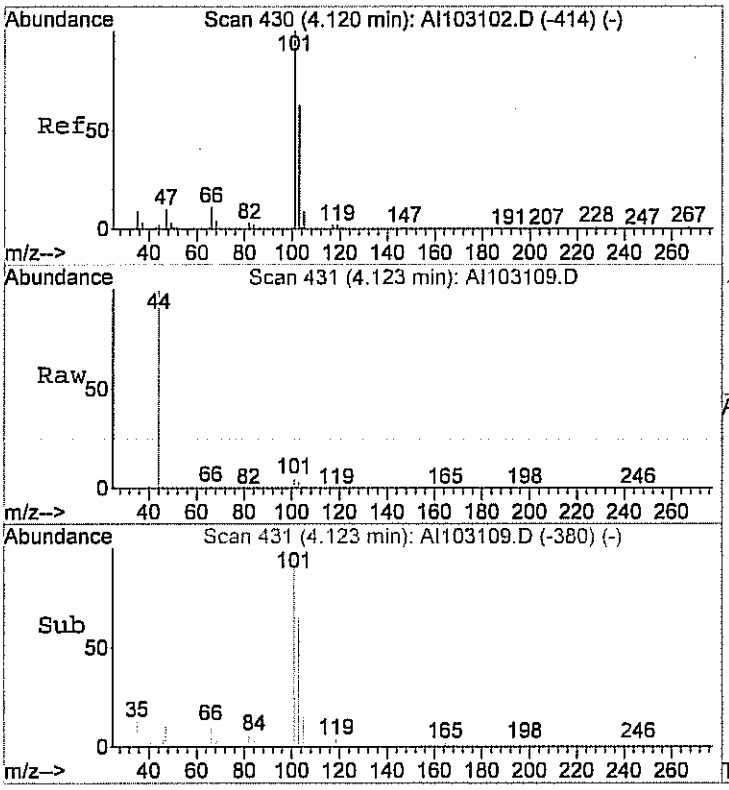


#3
Freon 12
Concen: 0.45 ppb m
RT: 2.94 min Scan# 37
Delta R.T. -0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 85 Resp: 36878

Ion	Ratio	Lower	Upper
85	100		
87	0.0	12.2	52.2#

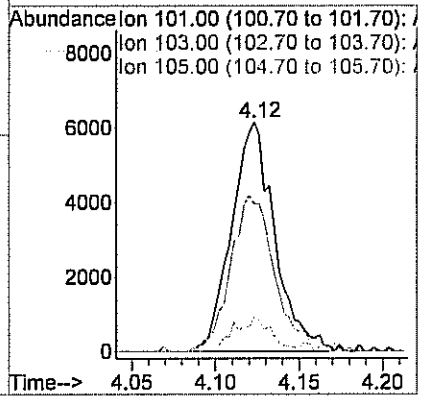


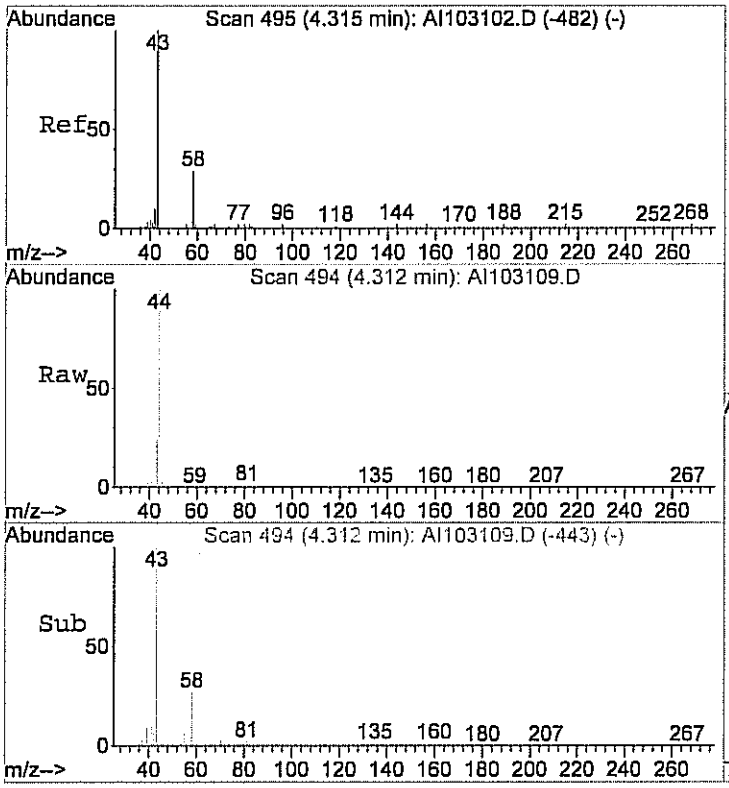


#13
Freon 11
Concen: 0.23 ppb
RT: 4.12 min Scan# 431
Delta R.T. 0.00 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion:101 Resp: 10995

Ion	Ratio	Lower	Upper
101	100		
103	69.8	44.9	84.9
105	13.6	0.0	30.9

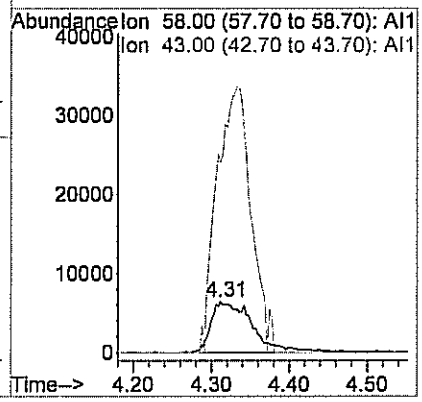


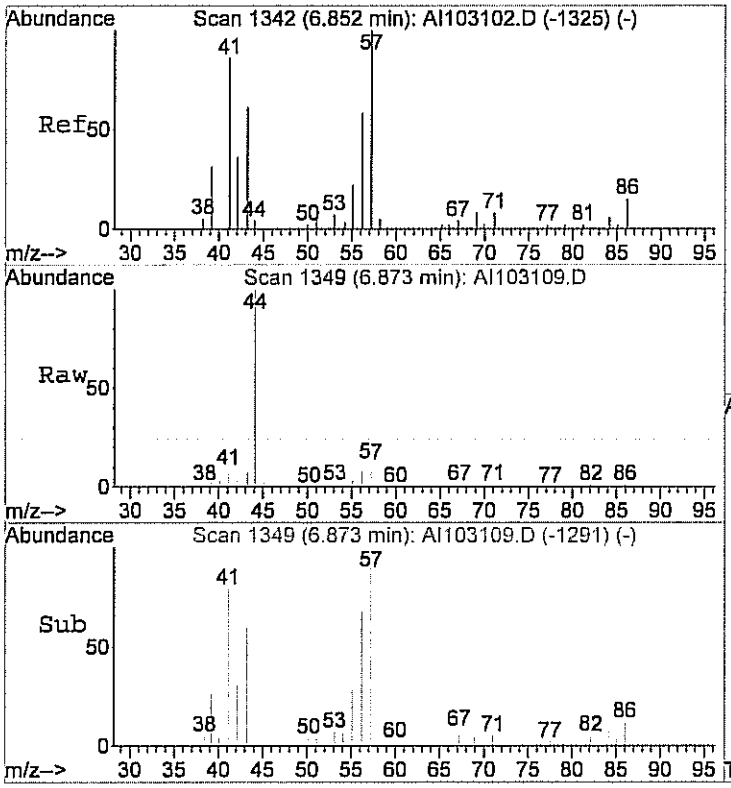


#14
Acetone
Concen: 3.85 ppb
RT: 4.31 min Scan# 494
Delta R.T. 0.00 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 58 Resp: 23917

Ion	Ratio	Lower	Upper
58	100		
43	421.4	360.8	420.8#

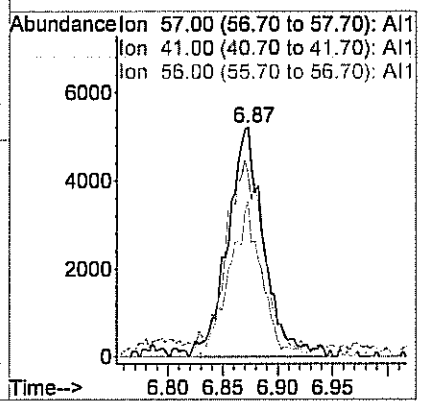


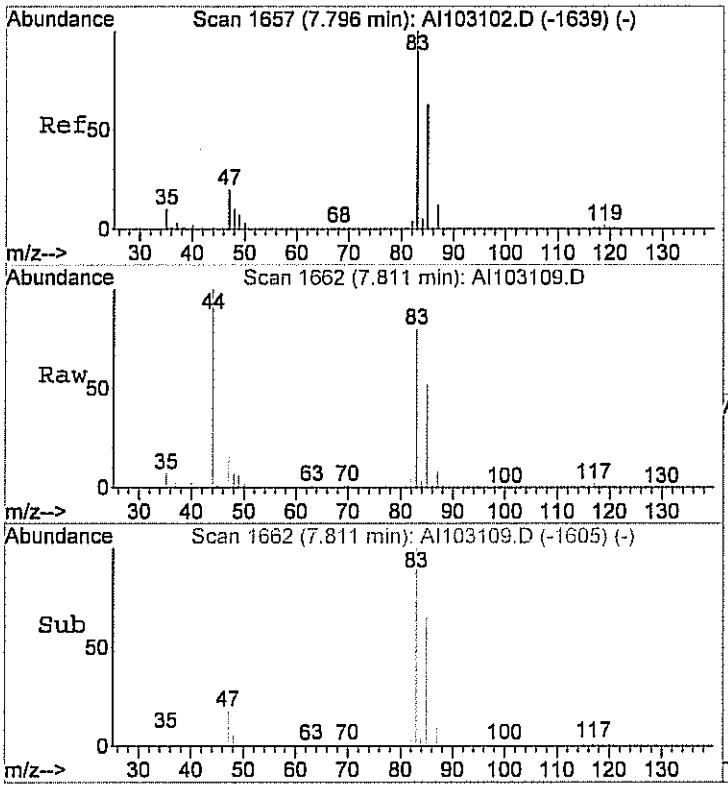


#27
Hexane
Concen: 0.65 ppb
RT: 6.87 min Scan# 1349
Delta R.T. 0.02 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 57 Resp: 11991

Ion	Ratio	Lower	Upper
57	100		
41	87.1	75.5	115.5
56	60.4	35.9	75.9

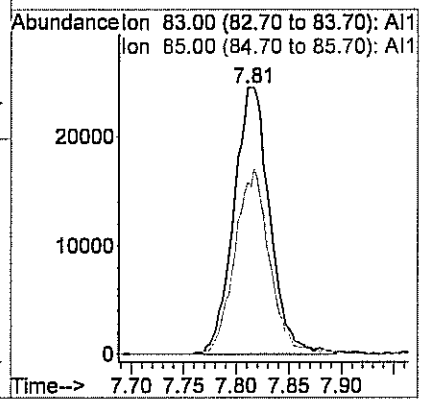


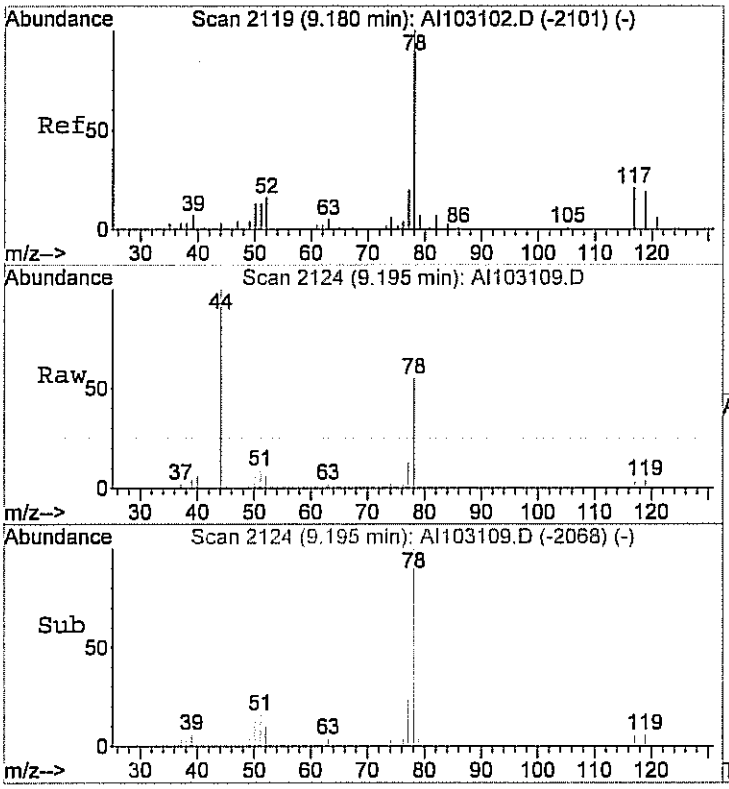


#29
Chloroform
Concen: 0.95 ppb
RT: 7.81 min Scan# 1662
Delta R.T. 0.02 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 83 Resp: 58313

Ion	Ratio	Lower	Upper
83	100		
85	67.3	45.0	85.0

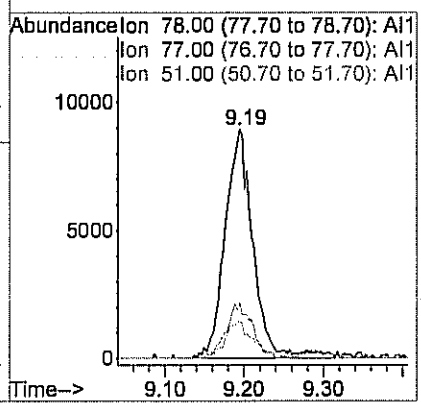


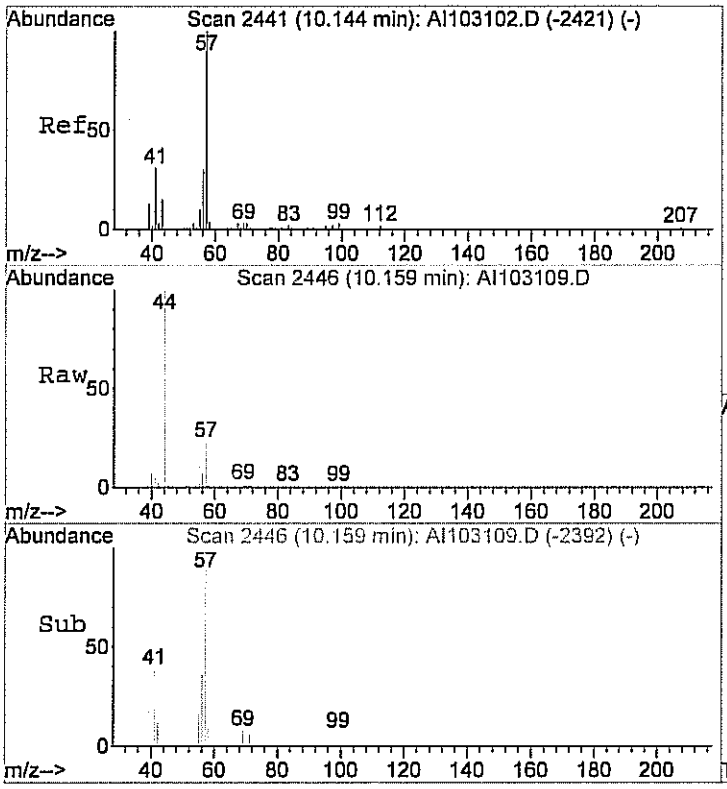


#36
Benzene
Concen: 0.39 ppb
RT: 9.19 min Scan# 2124
Delta R.T. 0.02 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 78 Resp: 21859

Ion	Ratio	Lower	Upper
78	100		
77	22.4	5.2	45.2
51	15.5	0.0	37.6

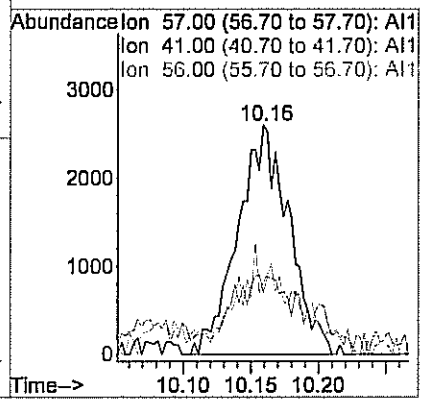


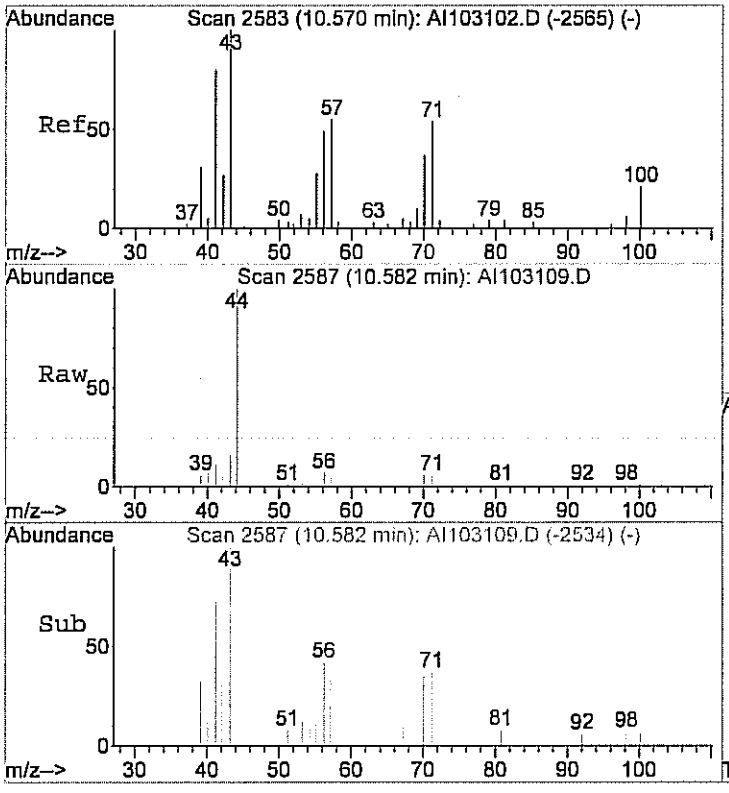


#39
2,2,4-trimethylpentane
Concen: 0.11 ppb
RT: 10.16 min Scan# 2446
Delta R.T. 0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 57 Resp: 6839

Ion	Ratio	Lower	Upper
57	100		
41	48.6	17.9	57.9
56	49.2	13.7	53.7

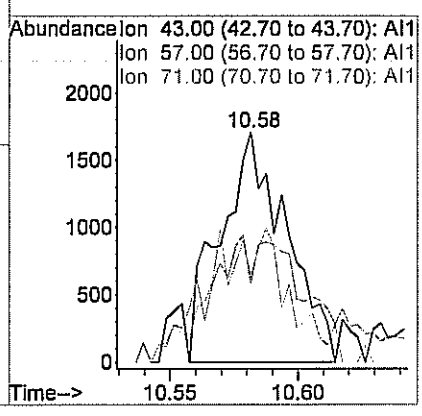


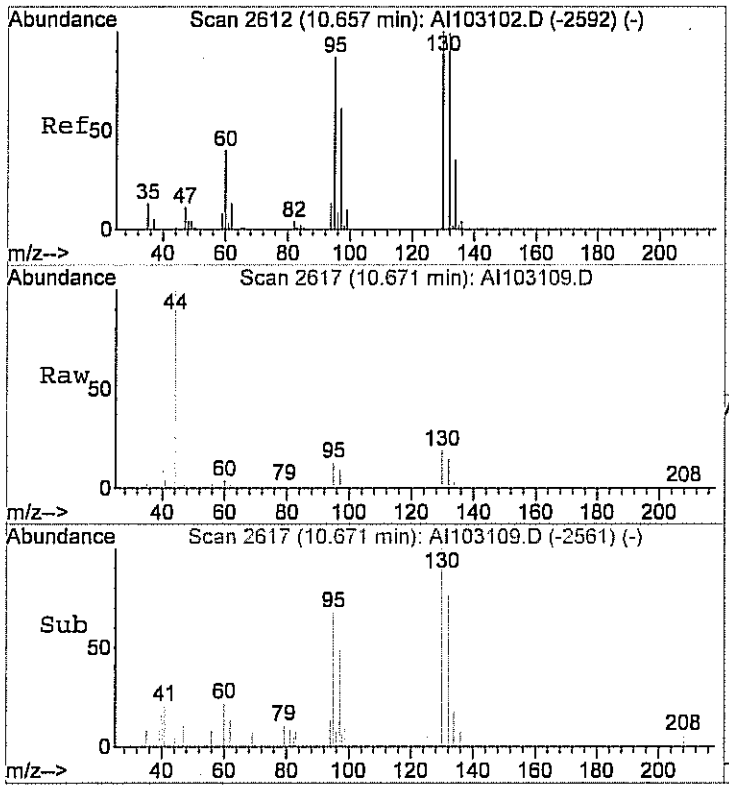


#40
Heptane
Concen: 0.17 ppb
RT: 10.58 min Scan# 2587
Delta R.T. 0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 43 Resp: 3073

Ion	Ratio	Lower	Upper
43	100		
57	90.5	32.1	72.1#
71	66.5	35.5	75.5

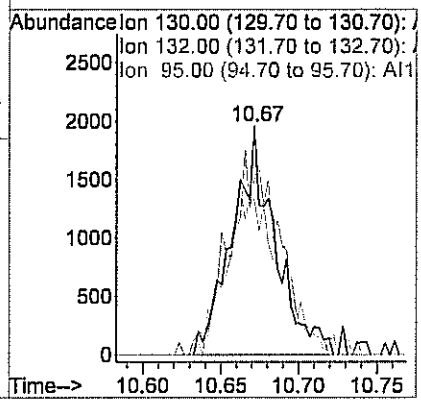


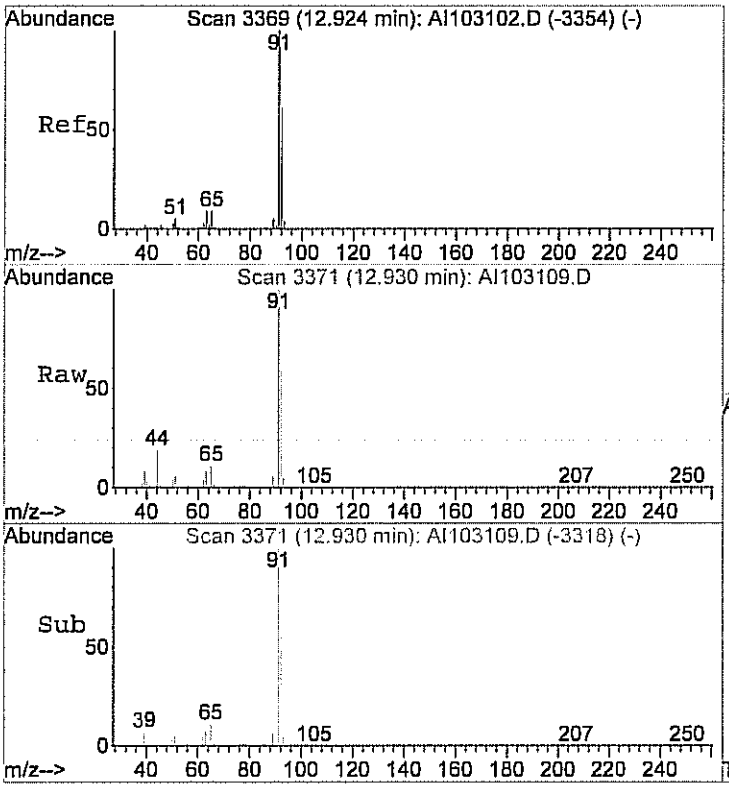


#41
Trichloroethene
Concen: 0.10 ppb
RT: 10.67 min Scan# 2617
Delta R.T. 0.02 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion:130 Resp: 3728

Ion	Ratio	Lower	Upper
130	100		
132	104.3	79.0	119.0
95	87.9	76.8	116.8

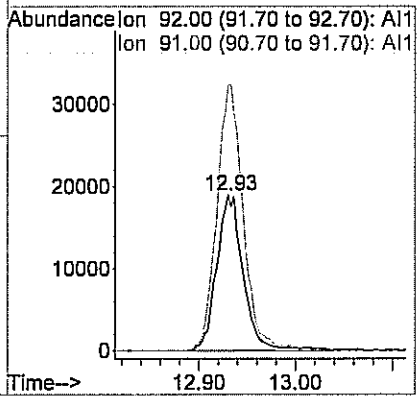


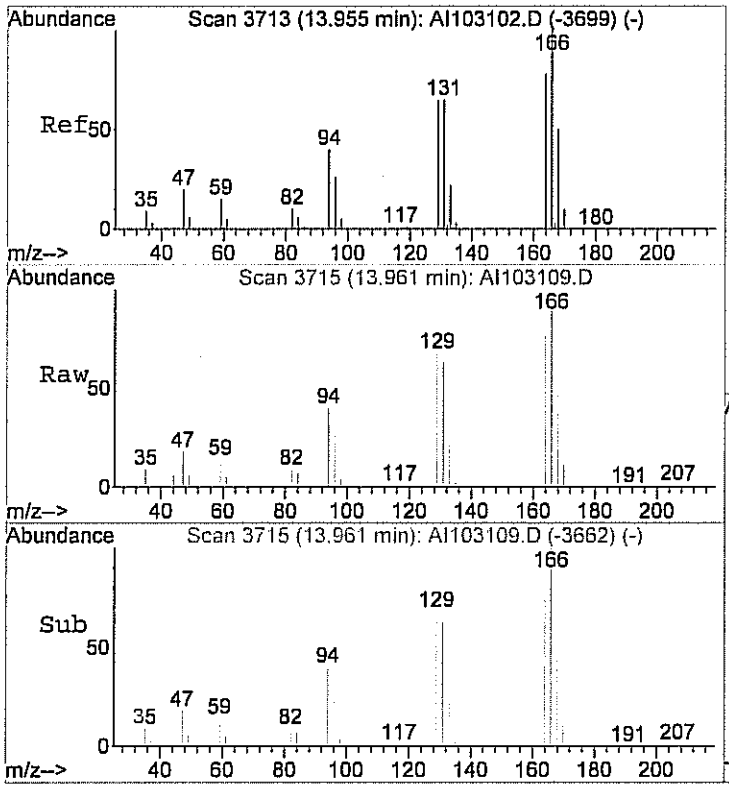


#48
Toluene
Concen: 1.05 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 92 Resp: 36184

Ion	Ratio	Lower	Upper
92	100		
91	172.2	159.8	199.8

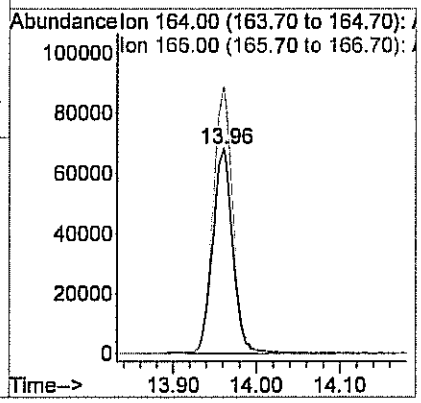


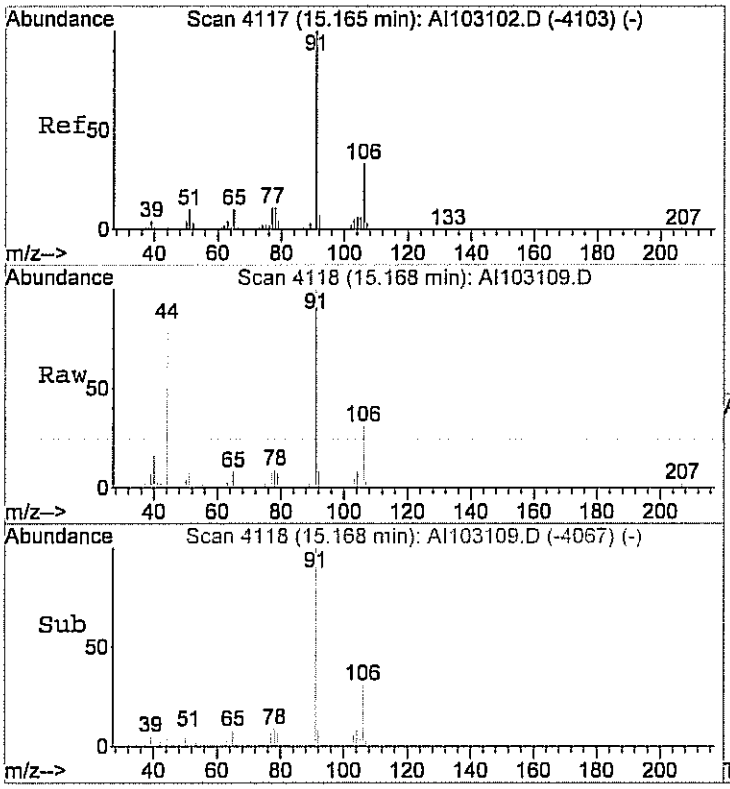


#53
Tetrachloroethylene
Concen: 2.66 ppb
RT: 13.96 min Scan# 3715
Delta R.T. 0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion:164 Resp: 114680

Ion	Ratio	Lower	Upper
164	100		
166	128.9	109.4	149.4

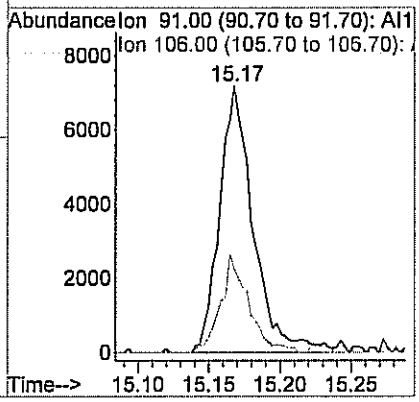


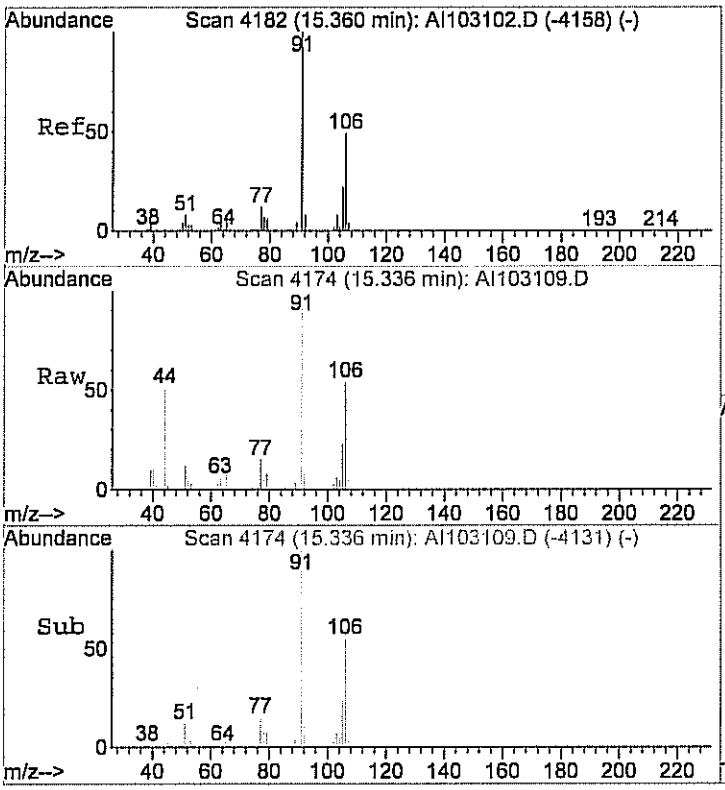


#55
Ethylbenzene
Concen: 0.17 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 91 Resp: 11761

Ion	Ratio	Lower	Upper
91	100		
106	30.7	10.7	50.7

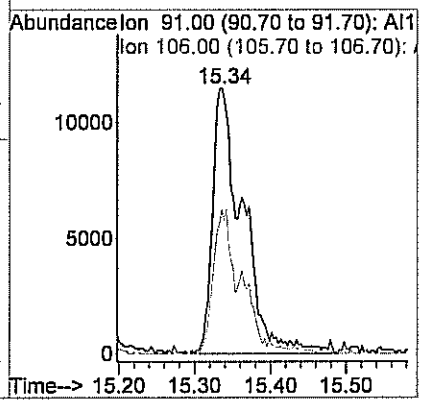


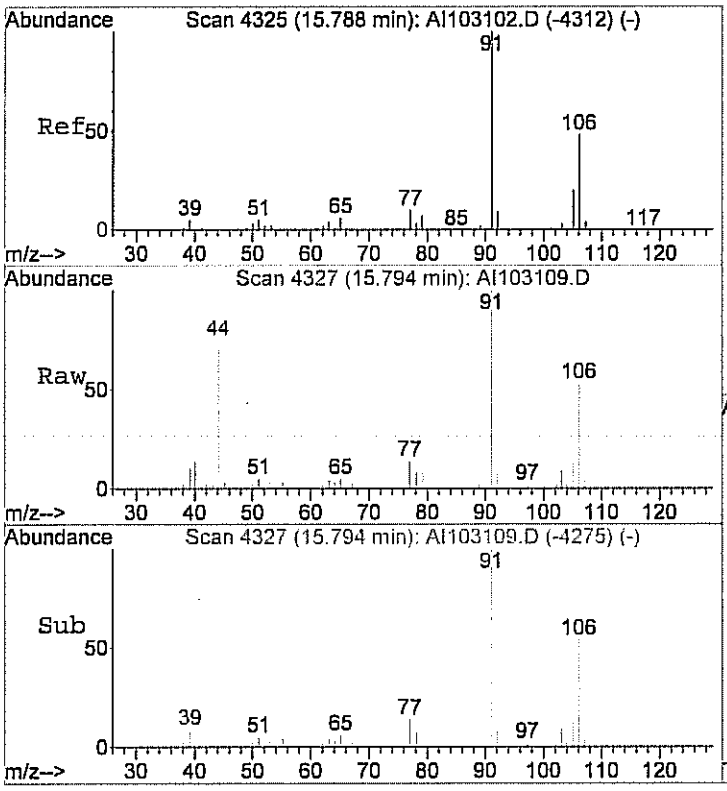


#56
m&p-xylene
Concen: 0.55 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 91 Resp: 31895

Ion	Ratio	Lower	Upper
91	100		
106	49.8	27.5	67.5

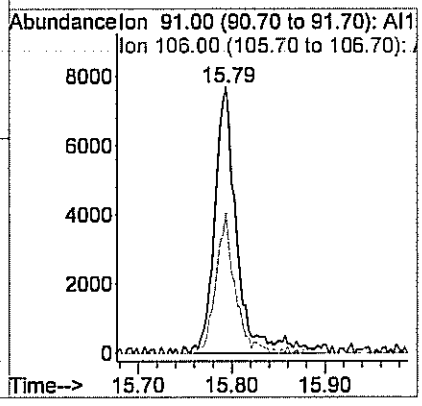


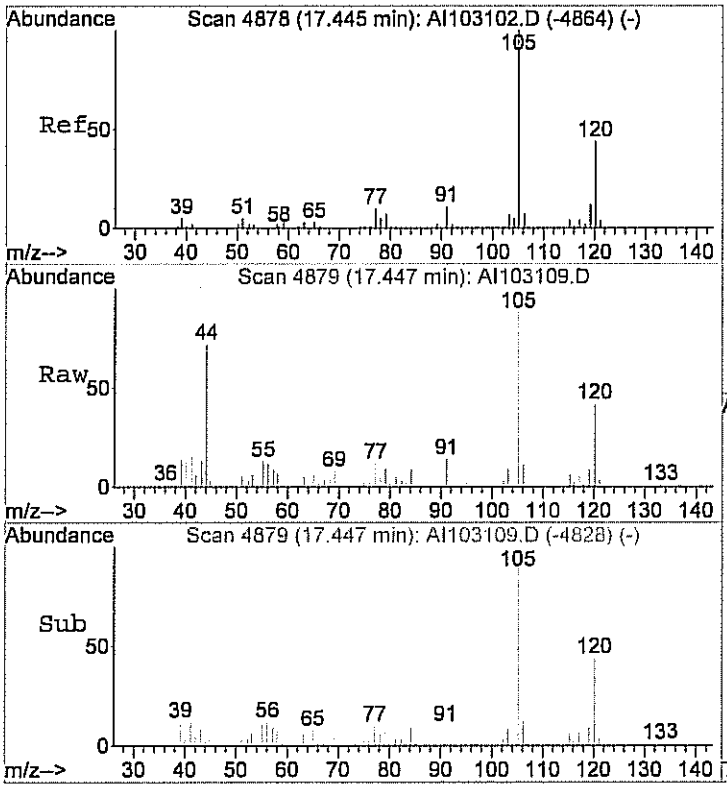


#59
o-xylene
Concen: 0.17 ppb
RT: 15.79 min Scan# 4327
Delta R.T. 0.01 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion: 91 Resp: 12844

Ion	Ratio	Lower	Upper
91	100		
106	44.4	26.2	66.2

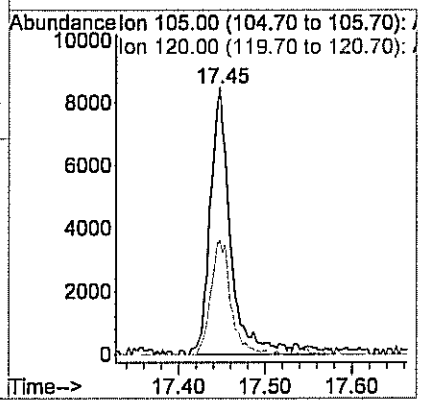




#65
1,2,4-trimethylbenzene
Concen: 0.28 ppb
RT: 17.45 min Scan# 4879
Delta R.T. 0.00 min
Lab File: AI103109.D
Acq: 31 Oct 2011 2:43 pm

Tgt Ion:105 Resp: 14273

Ion	Ratio	Lower	Upper
105	100		
120	39.9	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103115.D Vial: 24
Acq On : 31 Oct 2011 6:15 pm Operator: RJP
Sample : C1110054-016A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 18:36:20 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	20237	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	50577	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	47942	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	19816	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue
14) Acetone	4.33	58	5482	0.93	ppb	89
53) Tetrachloroethylene	13.96	164	22725m	0.62	ppb	

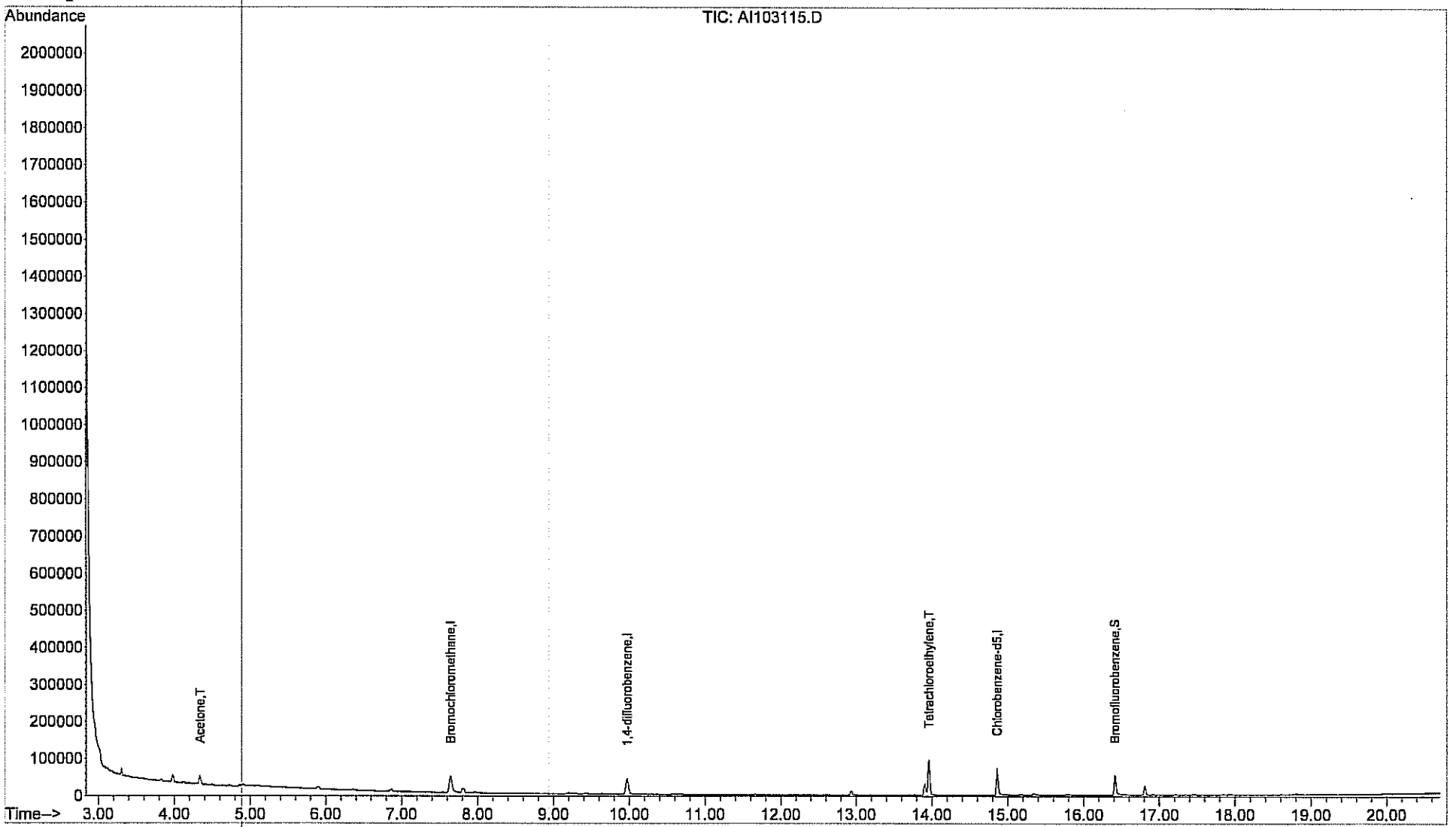
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

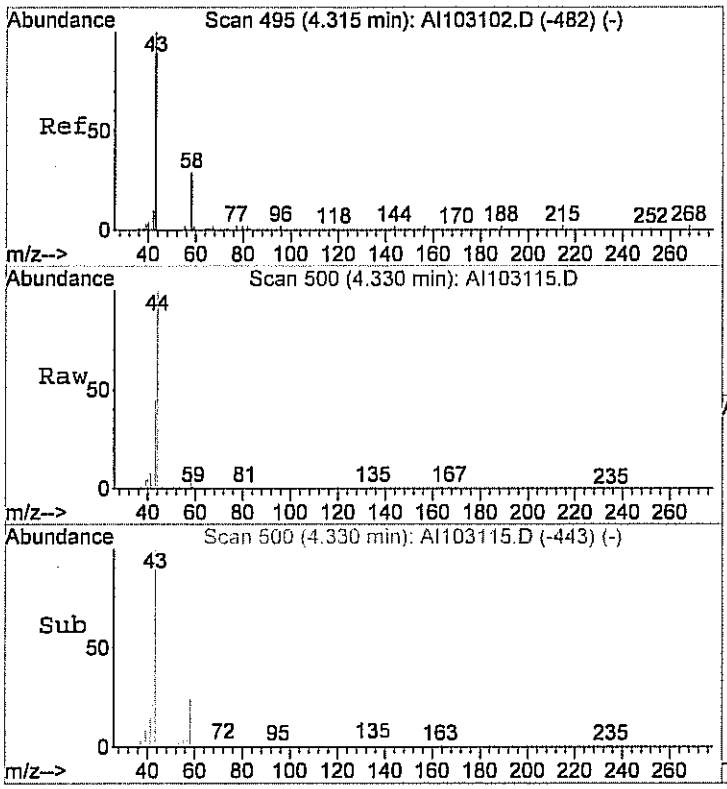
Data File : C:\HPCHEM\1\DATA\AI103115.D
Acq On : 31 Oct 2011 6:15 pm
Sample : C1110054-016A 5X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 9:43 2011

Vial: 24
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



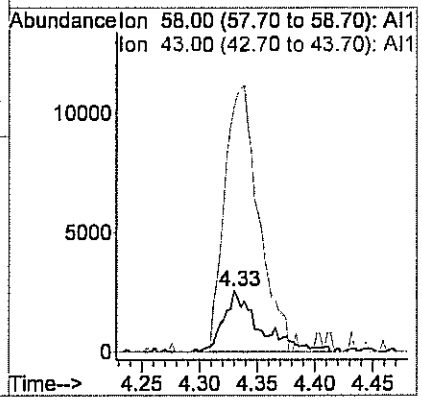
Centek laboratories, LLC

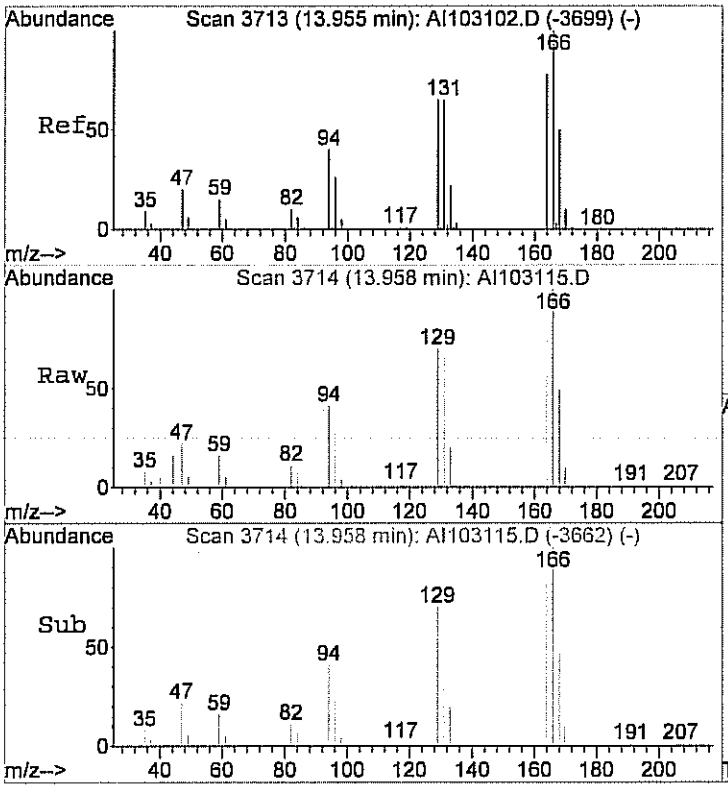


#14
Acetone
Concen: 0.93 ppb
RT: 4.33 min Scan# 500
Delta R.T. 0.02 min
Lab File: AI103115.D
Acq: 31 Oct 2011 6:15 pm

Tgt Ion: 58 Resp: 5482

Ion	Ratio	Lower	Upper
58	100		
43	417.3	360.8	420.8

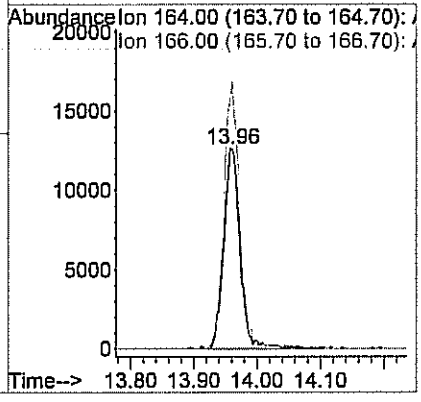




#53
Tetrachloroethylene
Concen: 0.62 ppb m
RT: 13.96 min Scan# 3714
Delta R.T. 0.01 min
Lab File: AI103115.D
Acq: 31 Oct 2011 6:15 pm

Tgt Ion:164 Resp: 22725

Ion	Ratio	Lower	Upper
164	100		
166	0.0	109.4	149.4#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	0.52	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.16	0.15		ppbV	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.13	0.15	J	ppbV	1	10/31/2011 3:16:00 PM
Acetone	5.1	1.5		ppbV	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzene	0.55	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 11	0.24	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 3:16:00 PM
Heptane	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexane	1.1	0.15		ppbV	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	0.89	0.15		ppbV	1	10/31/2011 3:16:00 PM
m&p-Xylene	0.98	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Methylene chloride	0.36	0.15		ppbV	1	10/31/2011 3:16:00 PM
o-Xylene	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Toluene	1.9	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Trichloroethene	0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	2.6	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.76	0.71		ug/m3	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.65	0.75	J	ug/m3	1	10/31/2011 3:16:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:16:00 PM
Benzene	1.8	0.49		ug/m3	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Freon 11	1.4	0.86		ug/m3	1	10/31/2011 3:16:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 3:16:00 PM
Heptane	1.2	0.62		ug/m3	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Hexane	3.8	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	2.2	0.37		ug/m3	1	10/31/2011 3:16:00 PM
m&p-Xylene	4.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:16:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	10/31/2011 3:16:00 PM
o-Xylene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:16:00 PM
Toluene	7.2	0.57		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103110.D Vial: 25
Acq On : 31 Oct 2011 3:16 pm Operator: RJP
Sample : C1110054-017A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 15:37:29 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

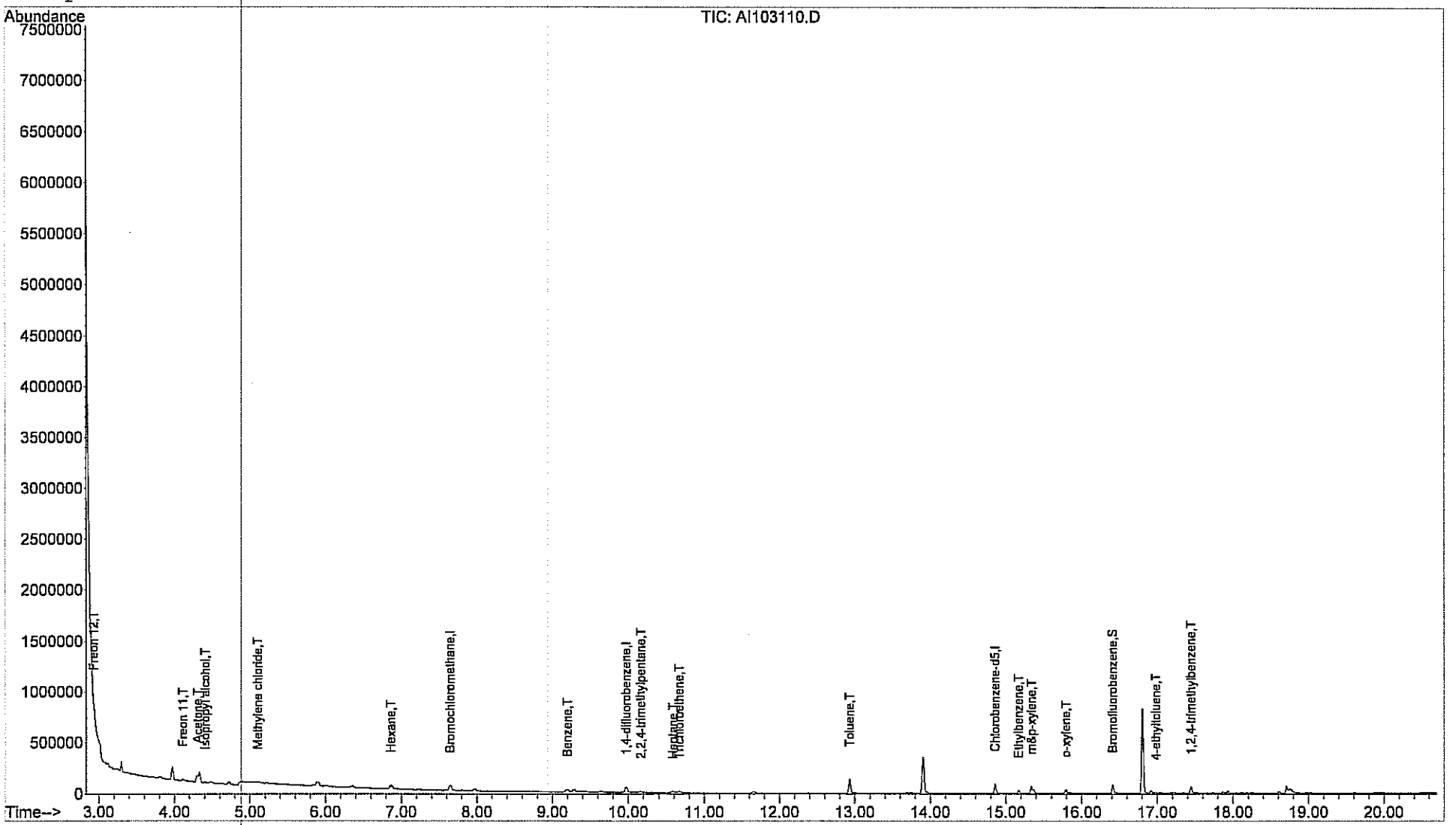
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	21078	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.98	114	60679	1.00	ppb		0.02
47) Chlorobenzene-d5	14.86	117	56819	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	29098	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	35935m M	0.44	ppb		
13) Freon 11	4.12	101	11377	0.24	ppb		96
14) Acetone	4.31	58	30816	5.02	ppb	#	79
15) Isopropyl alcohol	4.41	45	14324	0.89	ppb	#	100
18) Methylene chloride	5.10	84	7929	0.36	ppb	#	80
27) Hexane	6.86	57	19283	1.06	ppb		98
36) Benzene	9.19	78	31541	0.55	ppb		94
39) 2,2,4-trimethylpentane	10.16	57	10003	0.16	ppb	#	63
40) Heptane	10.58	43	5270	0.29	ppb	#	75
41) Trichloroethene	10.67	130	6000	0.15	ppb		94
48) Toluene	12.93	92	65398	1.87	ppb		92
55) Ethylbenzene	15.17	91	21062	0.30	ppb		99
56) m&p-xylene	15.34	91	56865	0.98	ppb		93
59) o-xylene	15.79	91	21667	0.29	ppb		96
63) 4-ethyltoluene	16.98	105	7659	0.13	ppb		90
65) 1,2,4-trimethylbenzene	17.44	105	27274	0.52	ppb		99

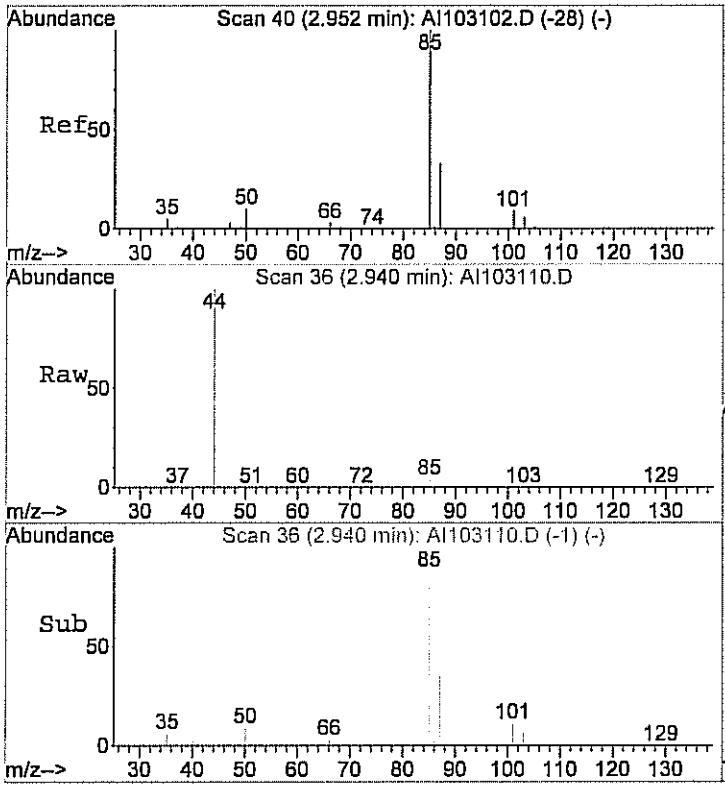
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103110.D Vial: 25
Acq On : 31 Oct 2011 3:16 pm Operator: RJP
Sample : C1110054-017A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 8:51 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration

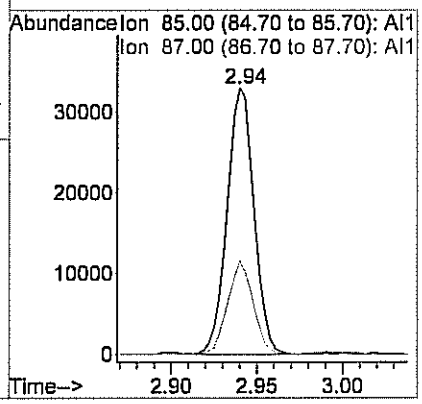


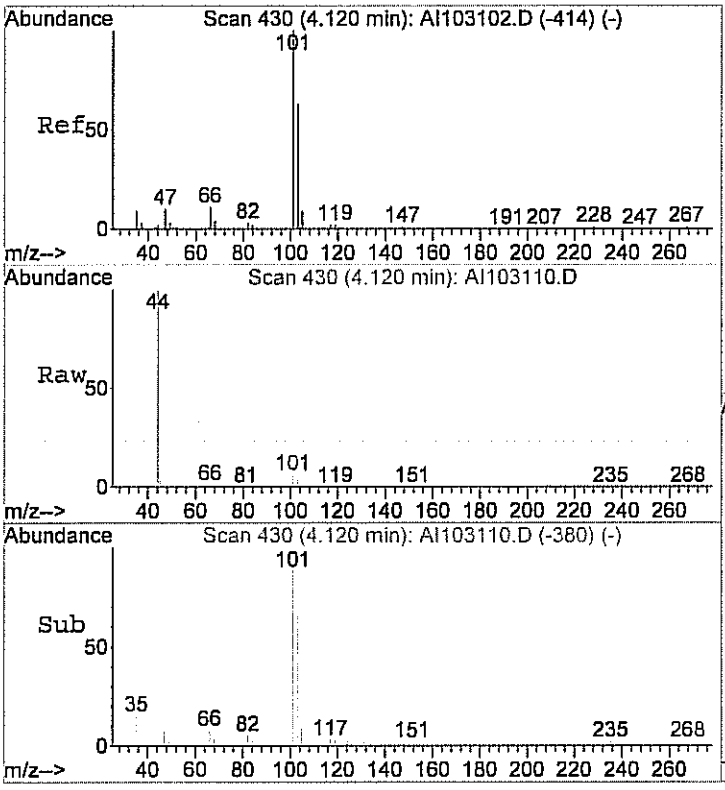


#3
Freon 12
Concen: 0.44 ppb m
RT: 2.94 min Scan# 36
Delta R.T. -0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 85 Resp: 35935

Ion	Ratio	Lower	Upper
85	100		
87	0.0	12.2	52.2#

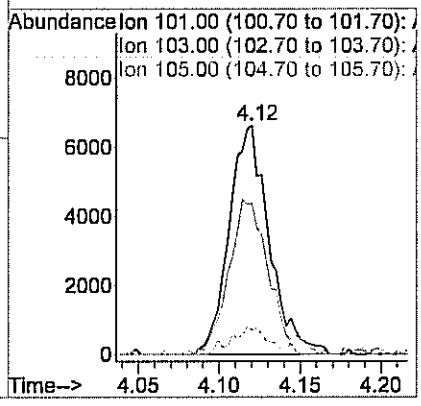


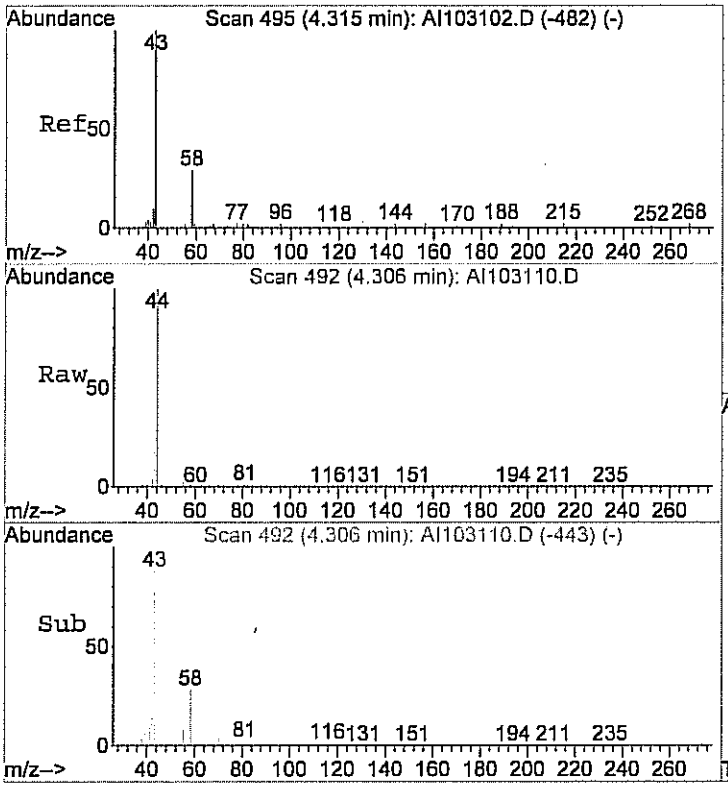


#13
Freon 11
Concen: 0.24 ppb
RT: 4.12 min Scan# 430
Delta R.T. 0.00 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion:101 Resp: 11377

Ion	Ratio	Lower	Upper
101	100		
103	68.6	44.9	84.9
105	11.4	0.0	30.9

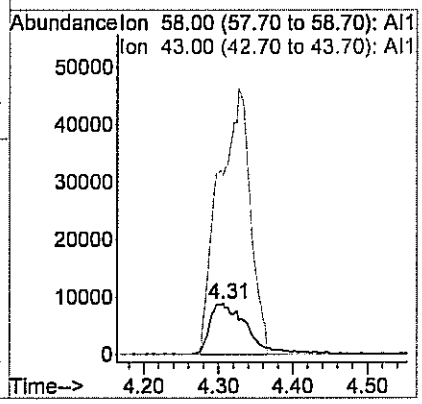


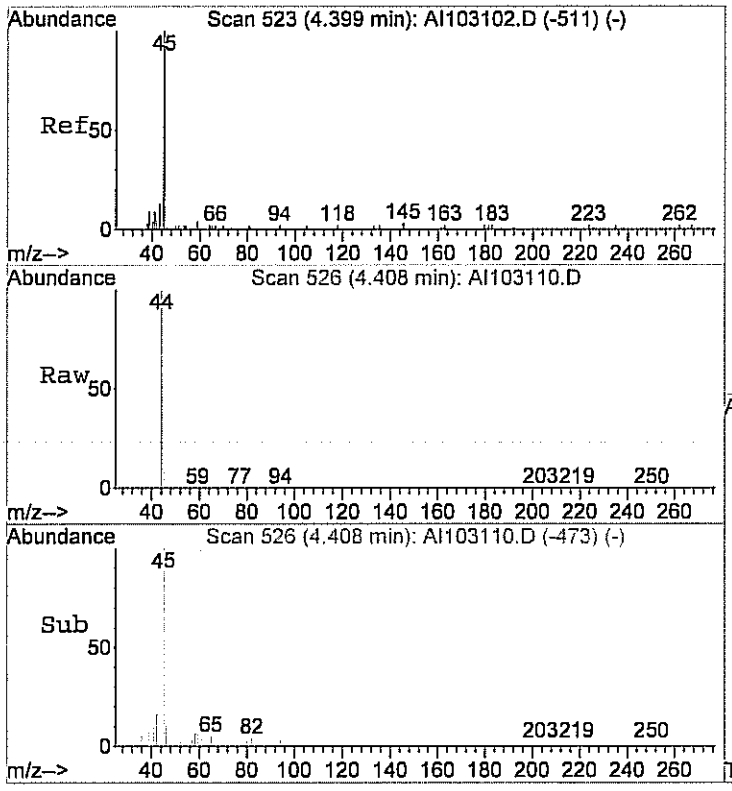


#14
Acetone
Concen: 5.02 ppb
RT: 4.31 min Scan# 492
Delta R.T. -0.00 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 58 Resp: 30816

Ion	Ratio	Lower	Upper
58	100		
43	439.2	360.8	420.8#

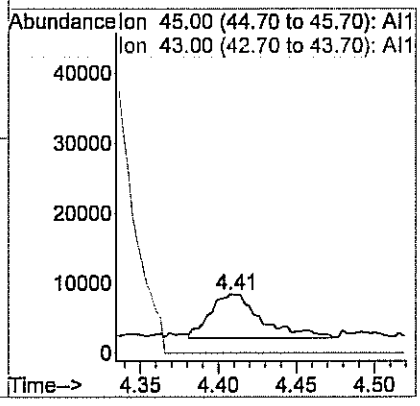


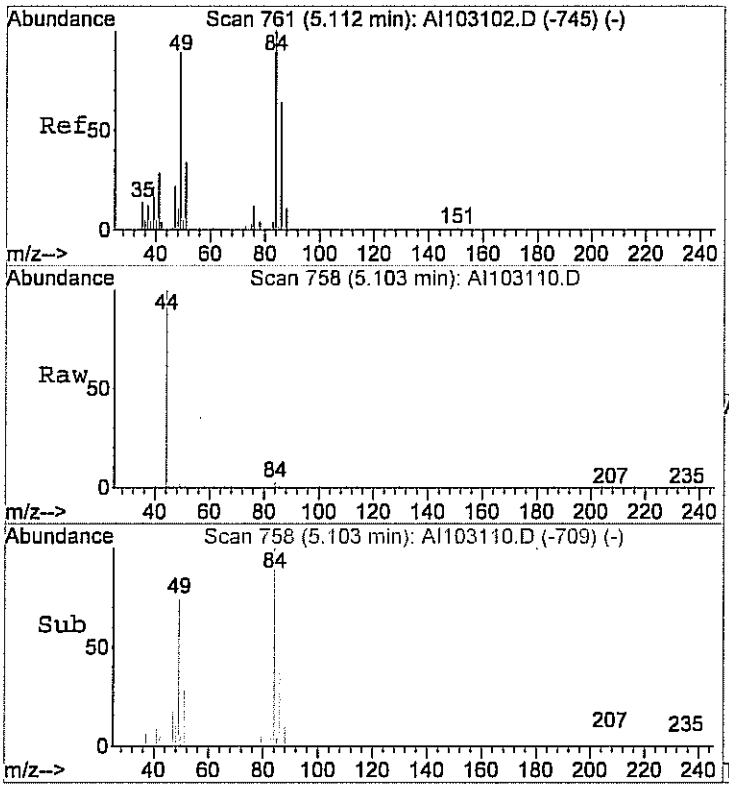


#15
Isopropyl alcohol
Concen: 0.89 ppb
RT: 4.41 min Scan# 526
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 45 Resp: 14324

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

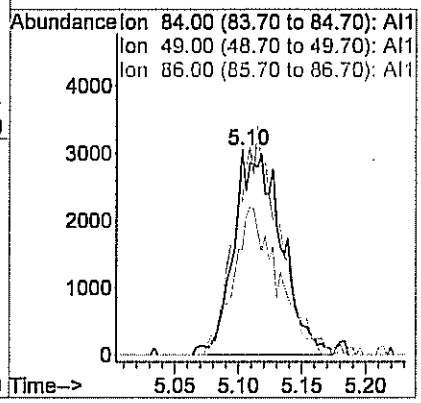


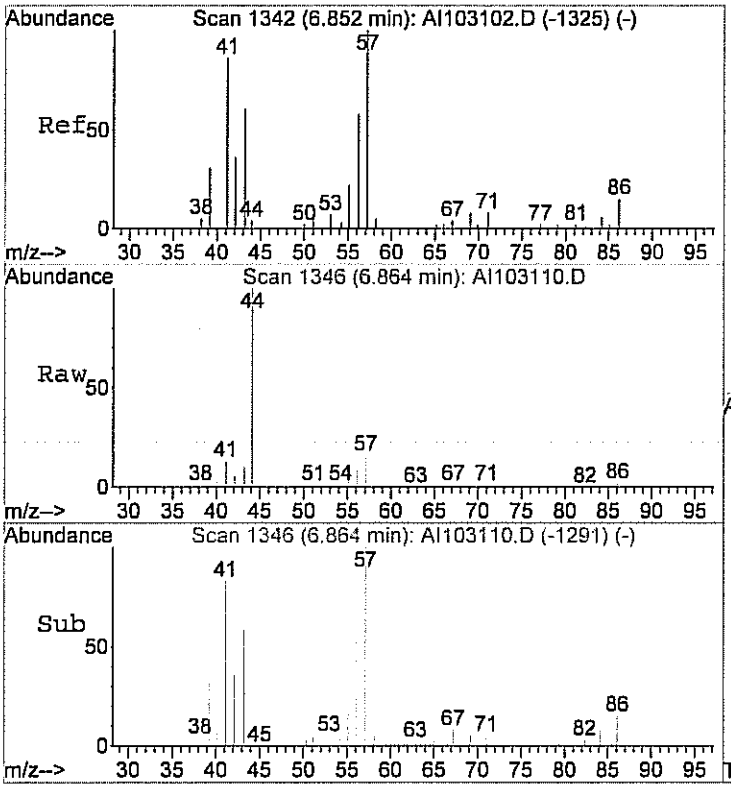


#18
Methylene chloride
Concen: 0.36 ppb
RT: 5.10 min Scan# 758
Delta R.T. -0.00 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 84 Resp: 7929

Ion	Ratio	Lower	Upper
84	100		
49	102.2	116.9	156.9#
86	66.3	46.7	86.7

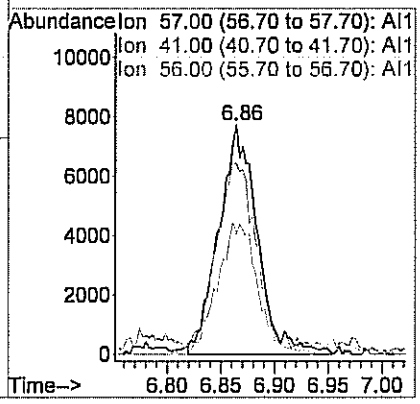


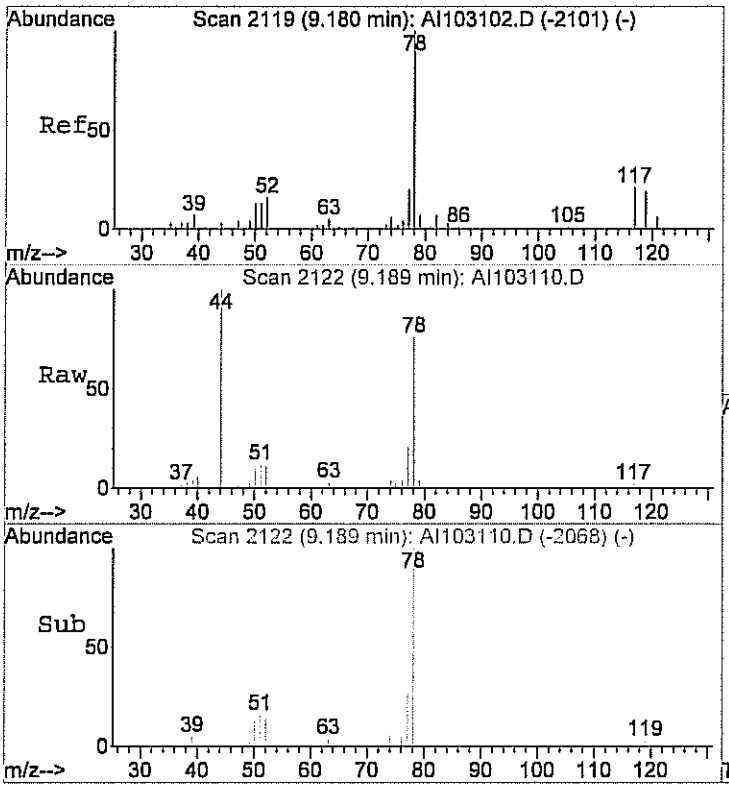


#27
Hexane
Concen: 1.06 ppb
RT: 6.86 min Scan# 1346
Delta R.T. 0.02 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 57 Resp: 19283

Ion	Ratio	Lower	Upper
57	100		
41	96.3	75.5	115.5
56	58.7	35.9	75.9

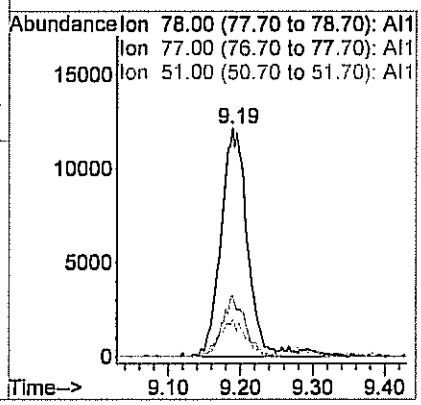


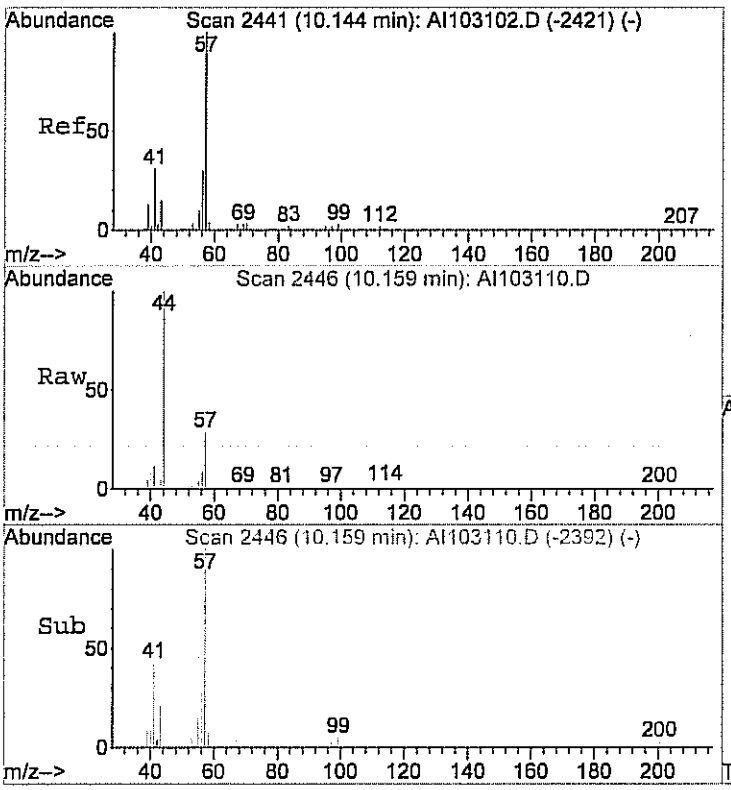


#36
Benzene
Concen: 0.55 ppb
RT: 9.19 min Scan# 2122
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 78 Resp: 31541

Ion	Ratio	Lower	Upper
78	100		
77	22.5	5.2	45.2
51	15.1	0.0	37.6

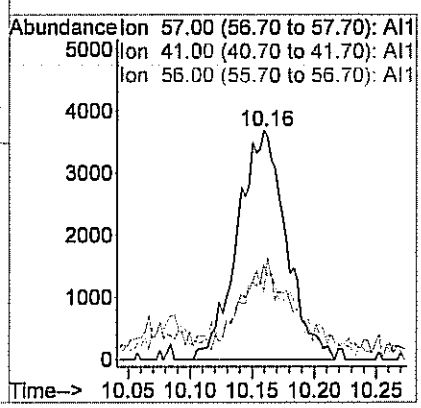


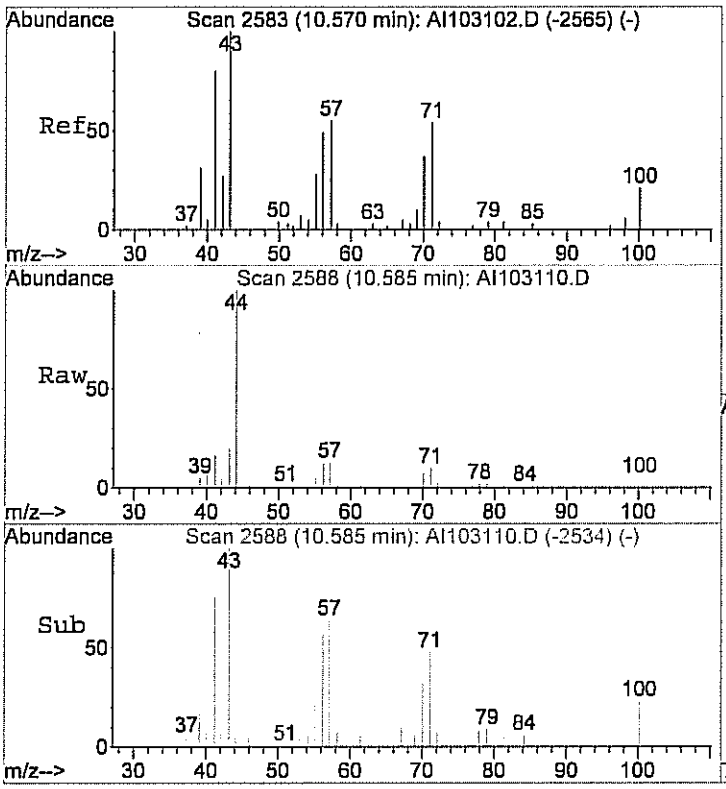


#39
2,2,4-trimethylpentane
Concen: 0.16 ppb
RT: 10.16 min Scan# 2446
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 57 Resp: 10003

Ion	Ratio	Lower	Upper
57	100		
41	51.4	17.9	57.9
56	64.5	13.7	53.7#

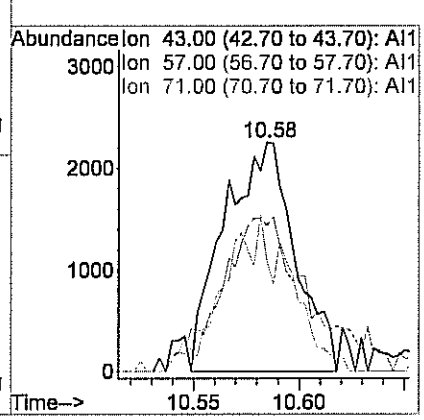


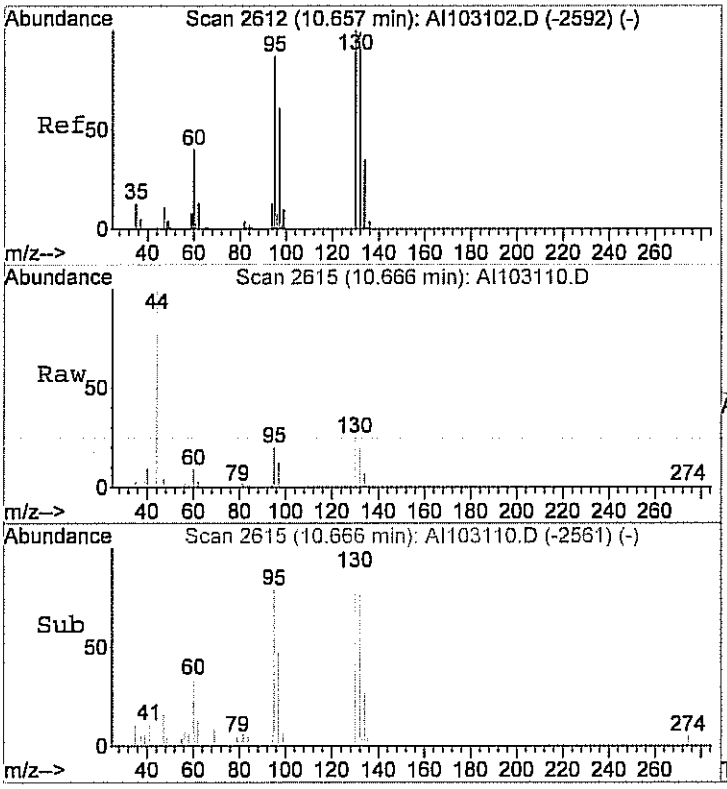


#40
Heptane
Concen: 0.29 ppb
RT: 10.58 min Scan# 2588
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 43 Resp: 5270

Ion	Ratio	Lower	Upper
43	100		
57	83.1	32.1	72.1#
71	60.6	35.5	75.5

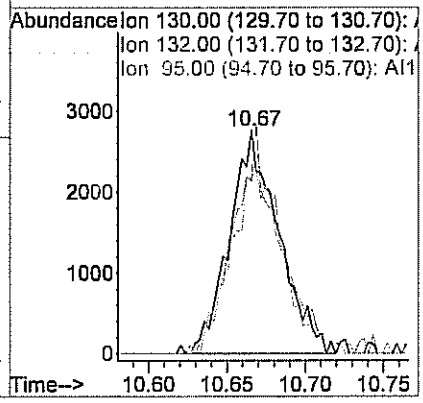


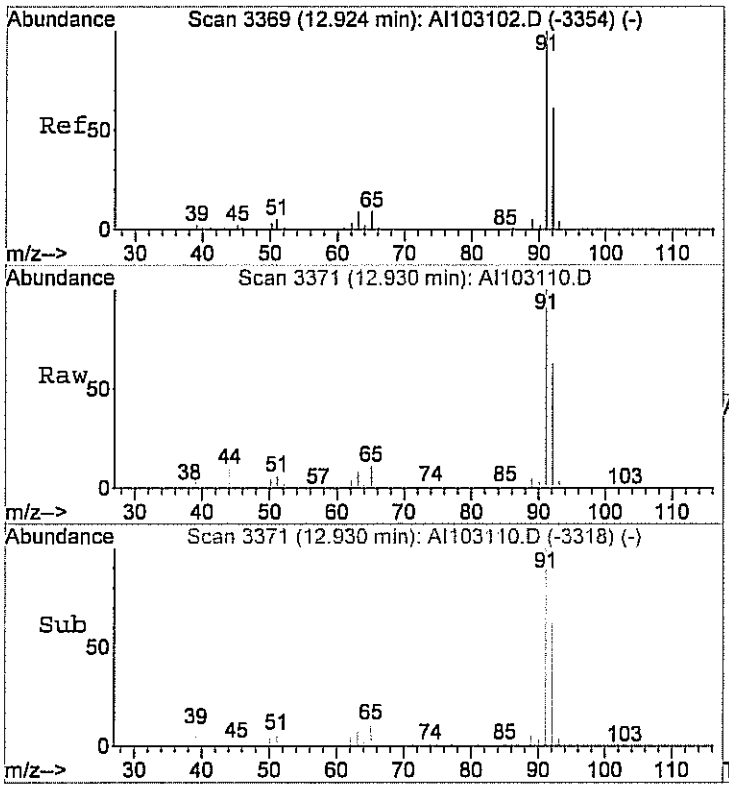


#41
Trichloroethene
Concen: 0.15 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion:130 Resp: 6000

Ion	Ratio	Lower	Upper
130	100		
132	98.0	79.0	119.0
95	86.1	76.8	116.8

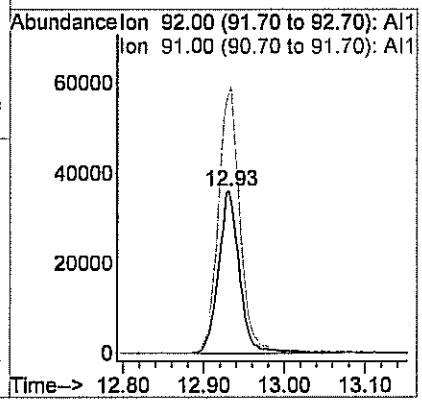


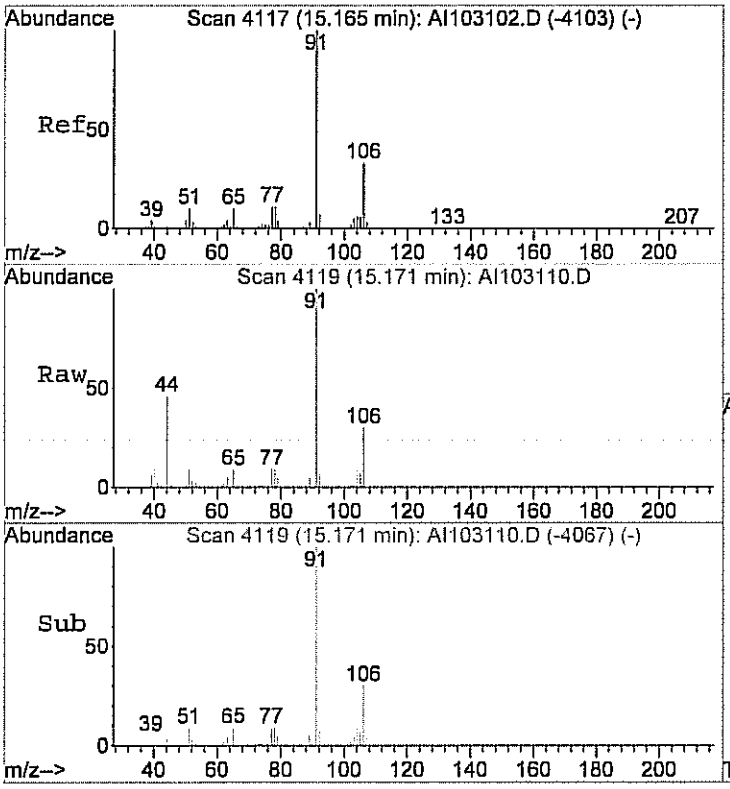


#48
Toluene
Concen: 1.87 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 92 Resp: 65398

Ion	Ratio	Lower	Upper
92	100		
91	169.1	159.8	199.8

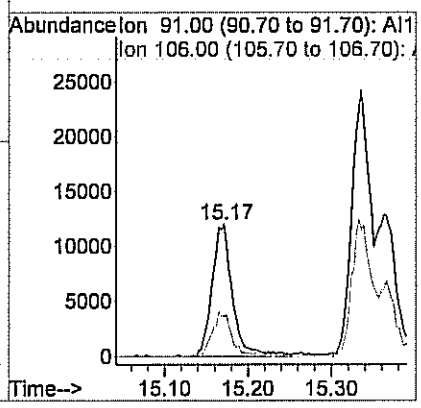


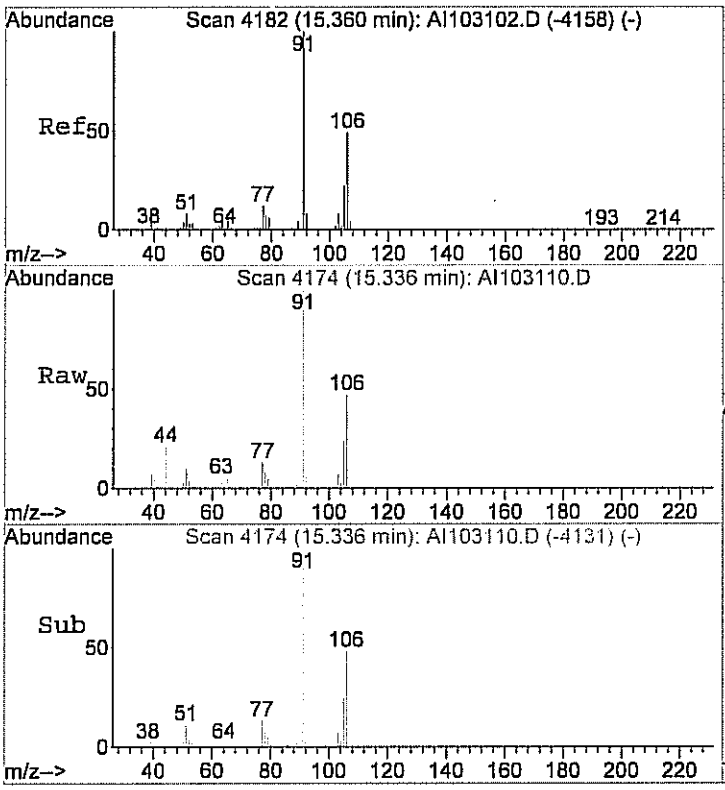


#55
Ethylbenzene
Concen: 0.30 ppb
RT: 15.17 min Scan# 4119
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 91 Resp: 21062

Ion	Ratio	Lower	Upper
91	100		
106	31.2	10.7	50.7

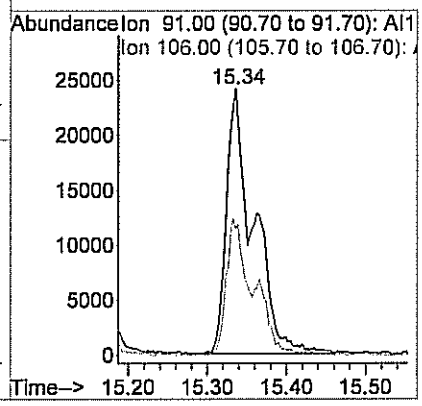


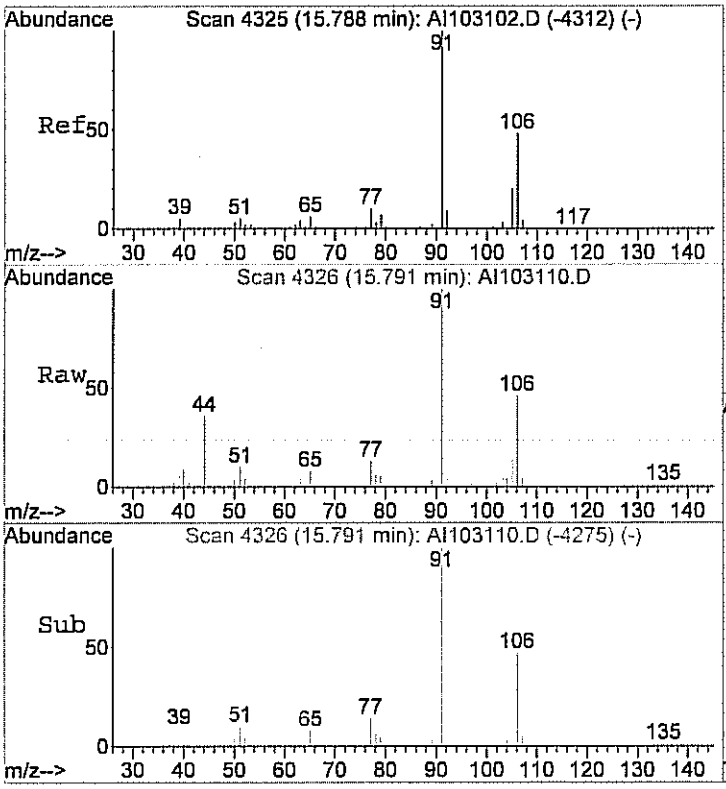


#56
m&p-xylene
Concen: 0.98 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 91 Resp: 56865

Ion	Ratio	Lower	Upper
91	100		
106	52.1	27.5	67.5

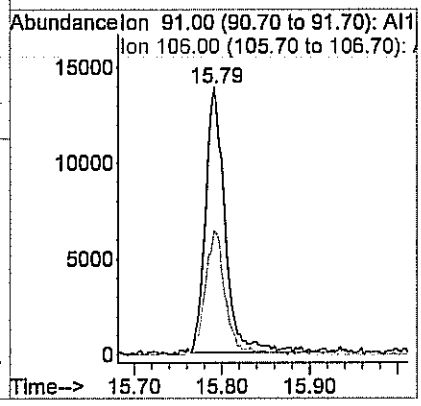


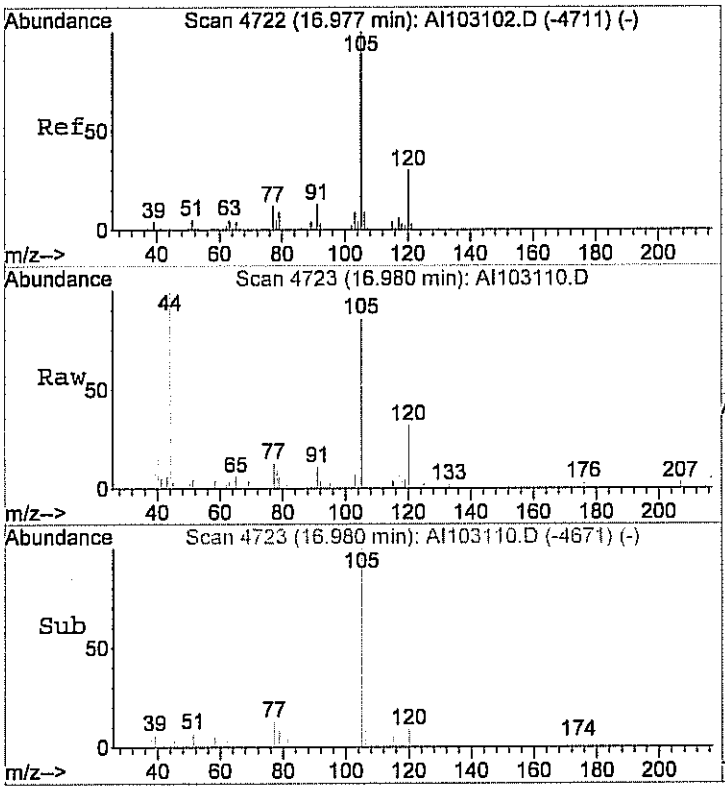


#59
o-xylene
Concen: 0.29 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion: 91 Resp: 21667

Ion	Ratio	Lower	Upper
91	100		
106	48.8	26.2	66.2

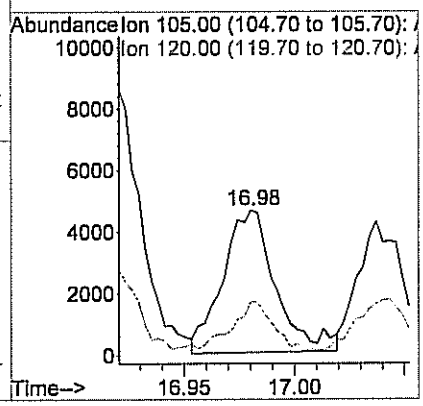


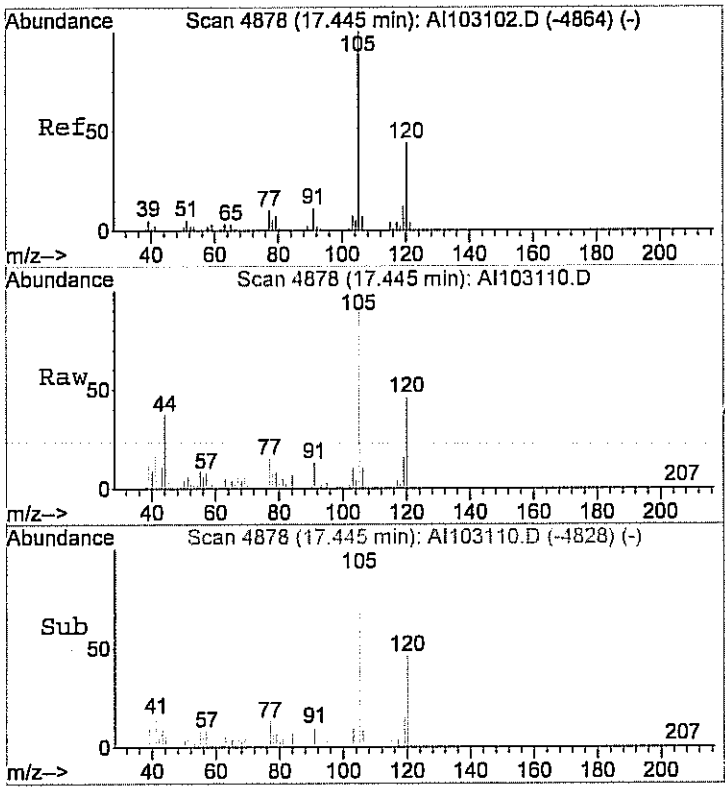


#63
4-ethyltoluene
Concen: 0.13 ppb
RT: 16.98 min Scan# 4723
Delta R.T. 0.01 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion:105 Resp: 7659

Ion	Ratio	Lower	Upper
105	100		
120	33.5	8.1	48.1

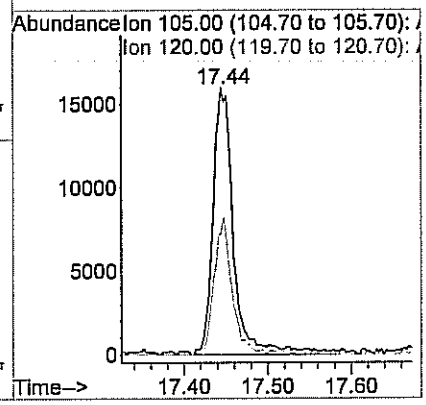




#65
1,2,4-trimethylbenzene
Concen: 0.52 ppb
RT: 17.44 min Scan# 4878
Delta R.T. 0.00 min
Lab File: AI103110.D
Acq: 31 Oct 2011 3:16 pm

Tgt Ion:105 Resp: 27274

Ion	Ratio	Lower	Upper
105	100		
120	44.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103116.D Vial: 25
Acq On : 31 Oct 2011 6:47 pm Operator: RJP
Sample : C1110054-017A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 19:08:02 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	20869	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	52639	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	49386	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	21761	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue
14) Acetone	4.34	58	6215	1.02	ppb	# 82

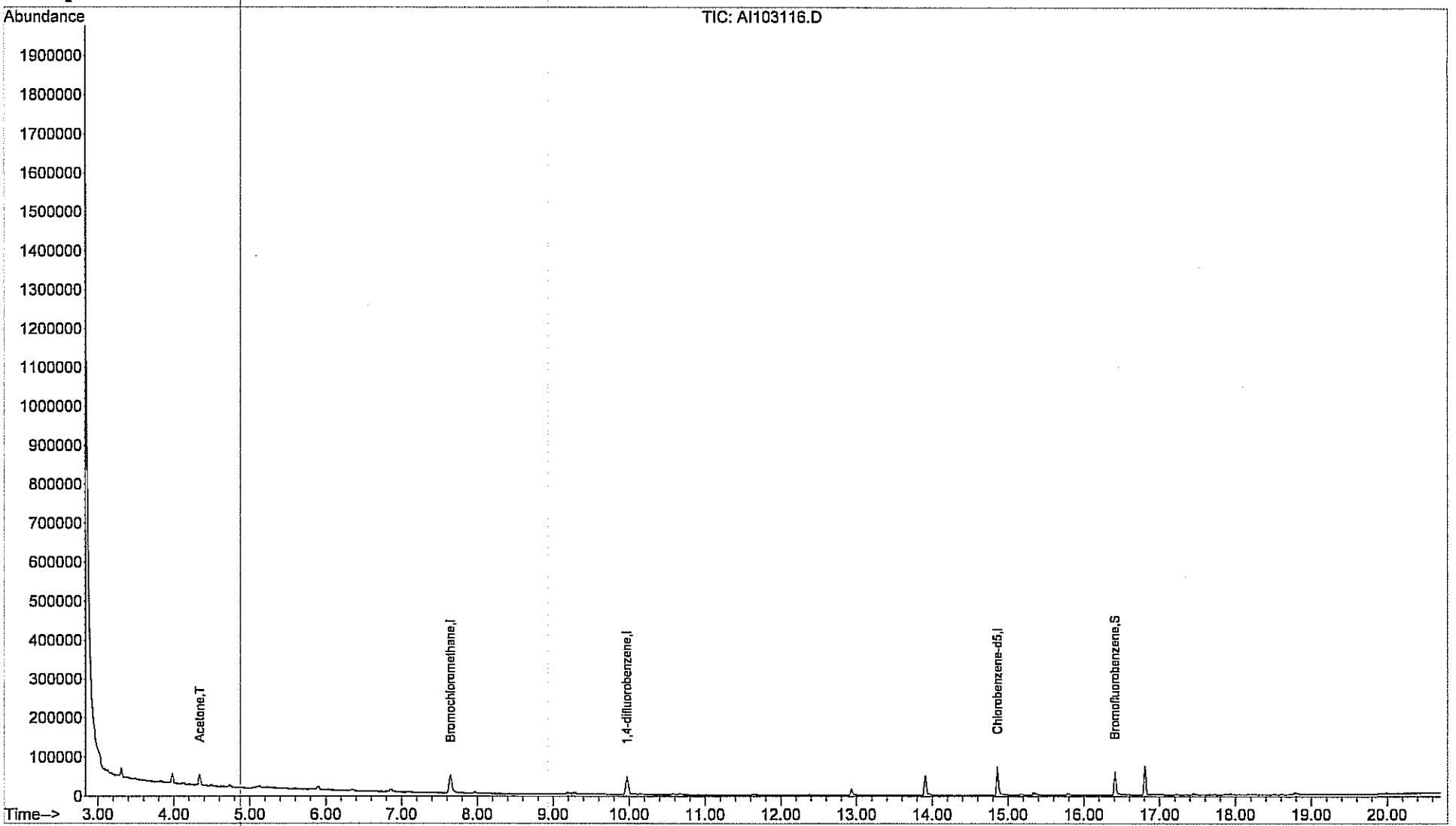
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

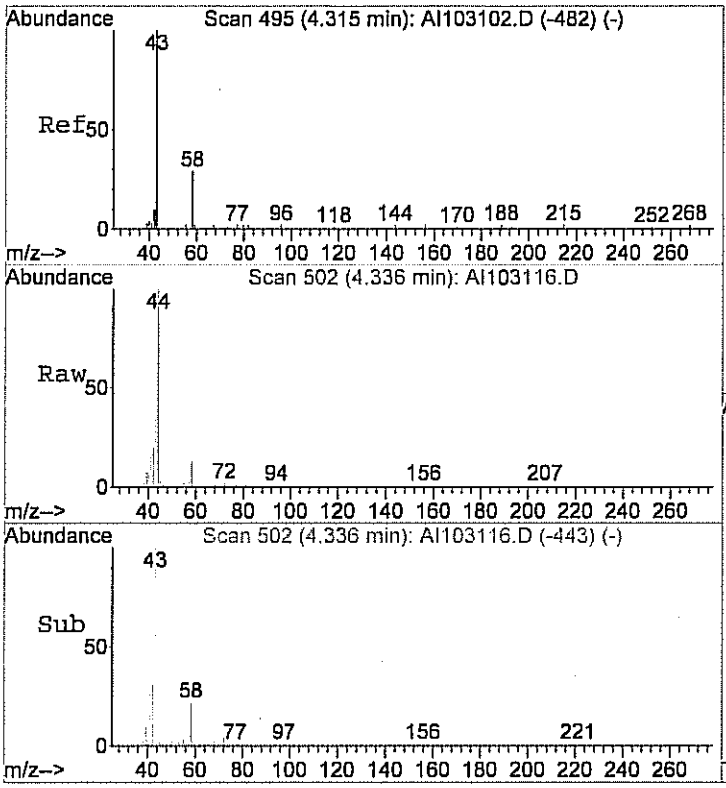
Data File : C:\HPCHEM\1\DATA\AI103116.D
Acq On : 31 Oct 2011 6:47 pm
Sample : C1110054-017A 5X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 7:58 2011

Vial: 25
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



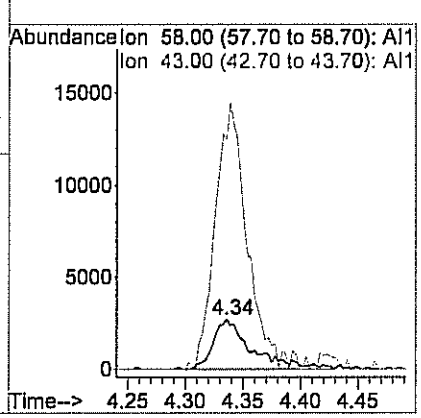
Centek laboratories, LLC



#14
Acetone
Concen: 1.02 ppb
RT: 4.34 min Scan# 502
Delta R.T. 0.03 min
Lab File: AI103116.D
Acq: 31 Oct 2011 6:47 pm

Tgt Ion: 58 Resp: 6215

Ion	Ratio	Lower	Upper
58	100		
43	433.7	360.8	420.8#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.12	0.15	J	ppbV	1	10/31/2011 3:49:00 PM
Acetone	5.2	1.5		ppbV	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Cyclohexane	0.50	0.15		ppbV	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.41	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 11	0.20	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 12	0.40	0.15		ppbV	1	10/31/2011 3:49:00 PM
Heptane	0.23	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexane	0.73	0.15		ppbV	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	1.2	0.15		ppbV	1	10/31/2011 3:49:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
o-Xylene	0.38	0.15		ppbV	1	10/31/2011 3:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Toluene	2.4	0.75		ppbV	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	10/31/2011 3:49:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	1.9	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.60	0.75	J	ug/m3	1	10/31/2011 3:49:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:49:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:49:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Cyclohexane	1.7	0.52		ug/m3	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
Ethylbenzene	1.8	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Freon 11	1.1	0.86		ug/m3	1	10/31/2011 3:49:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.0	0.75		ug/m3	1	10/31/2011 3:49:00 PM
Heptane	0.96	0.62		ug/m3	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Hexane	2.6	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	3.0	0.37		ug/m3	1	10/31/2011 3:49:00 PM
m&p-Xylene	6.2	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 3:49:00 PM
o-Xylene	1.7	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:49:00 PM
Toluene	9.4	2.9		ug/m3	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103111.D Vial: 26
Acq On : 31 Oct 2011 3:49 pm Operator: RJP
Sample : C1110054-018A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 16:10:18 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	22932	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	65774	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	64200	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	31977	1.04	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%				
Target Compounds							Qvalue
3) Freon 12	2.94	85	35746	0.40	ppb		98
13) Freon 11	4.12	101	10463	0.20	ppb		96
14) Acetone	4.30	58	25736	3.85	ppb	#	81
15) Isopropyl alcohol	4.40	45	21419	1.22	ppb	#	100
27) Hexane	6.87	57	14360	0.73	ppb		96
34) Cyclohexane	9.29	56	10306	0.50	ppb	#	58
36) Benzene	9.19	78	24161	0.39	ppb		92
40) Heptane	10.58	43	4537	0.23	ppb		76
48) Toluene	12.93	92	93024	2.35	ppb		90
55) Ethylbenzene	15.17	91	32858	0.41	ppb		96
56) m&p-xylene	15.34	91	92775	1.41	ppb		96
59) o-xylene	15.79	91	31855	0.38	ppb		96
63) 4-ethyltoluene	16.98	105	7836	0.12	ppb		94
65) 1,2,4-trimethylbenzene	17.44	105	22935	0.39	ppb		98

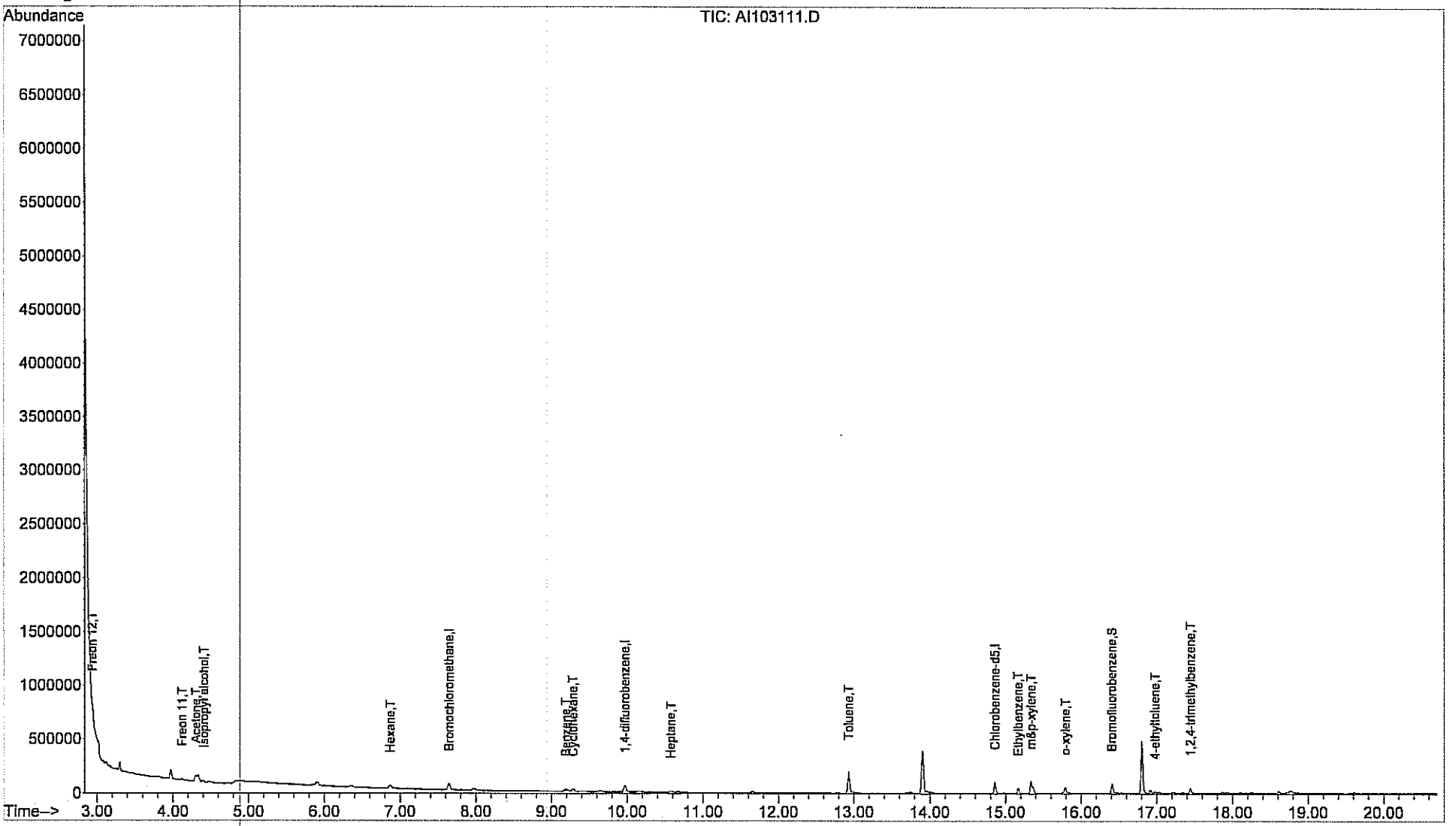
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

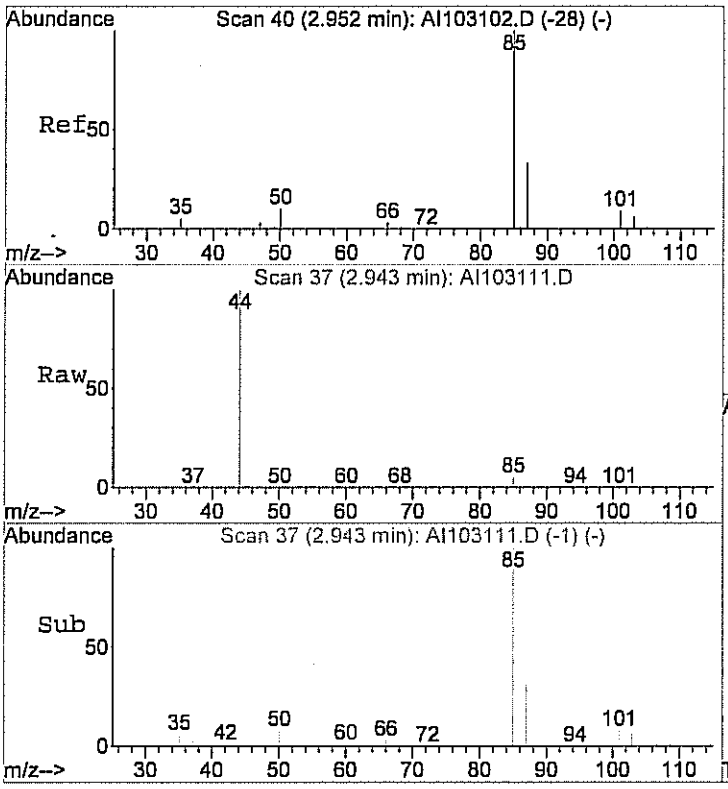
Data File : C:\HPCHEM\1\DATA\AI103111.D
Acq On : 31 Oct 2011 3:49 pm
Sample : C1110054-018A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 8:52 2011

Vial: 26
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



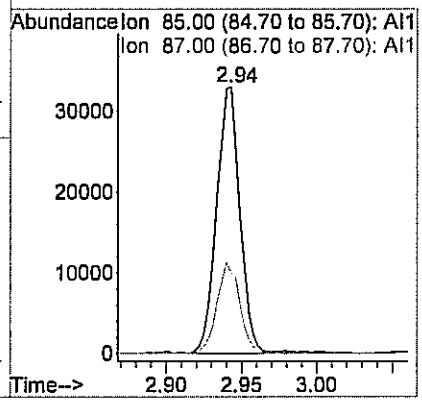
Centek laboratories, LLC

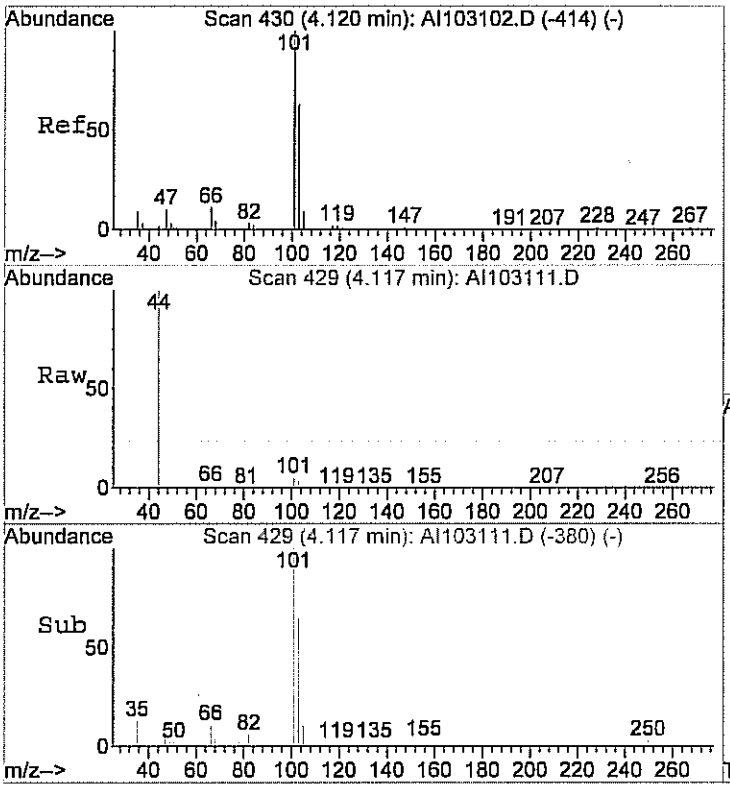


#3
Freon 12
Concen: 0.40 ppb
RT: 2.94 min Scan# 37
Delta R.T. -0.01 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 85 Resp: 35746

Ion	Ratio	Lower	Upper
85	100		
87	33.0	12.2	52.2

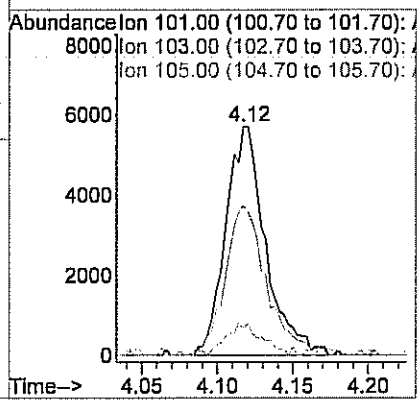


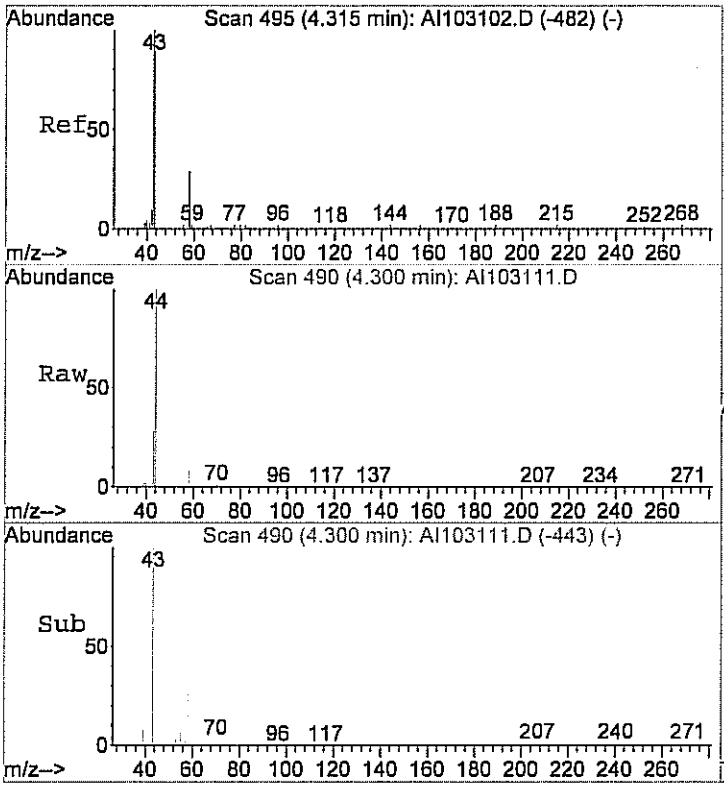


#13
Freon 11
Concen: 0.20 ppb
RT: 4.12 min Scan# 429
Delta R.T. -0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion:101 Resp: 10463

Ion	Ratio	Lower	Upper
101	100		
103	68.2	44.9	84.9
105	12.8	0.0	30.9

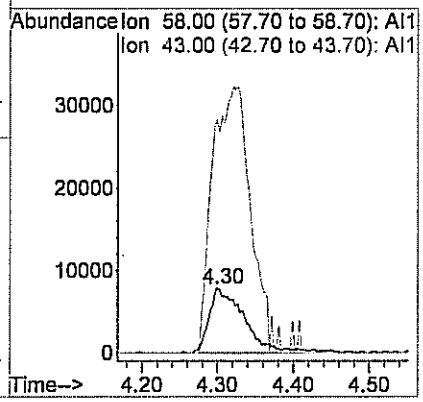


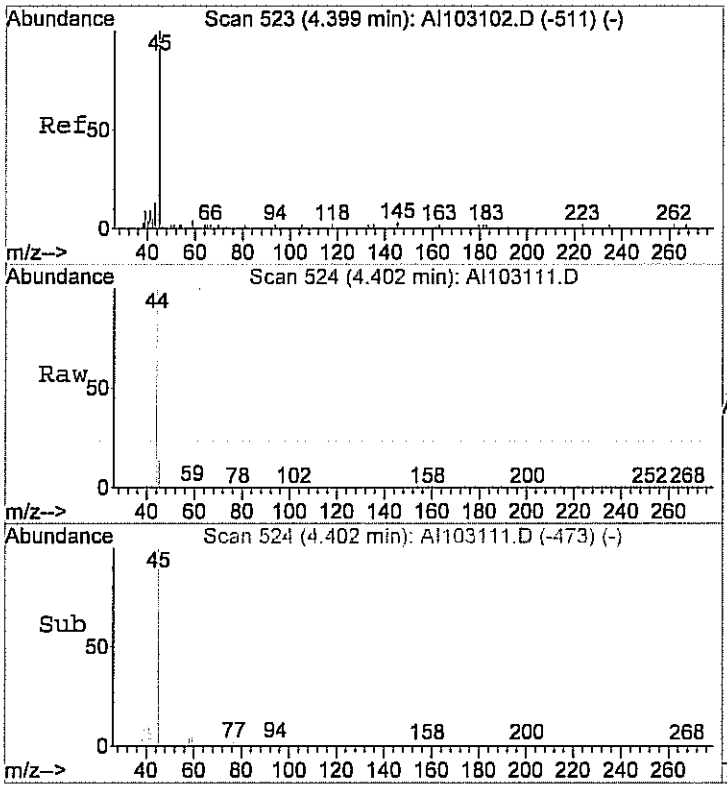


#14
Acetone
Concen: 3.85 ppb
RT: 4.30 min Scan# 490
Delta R.T. -0.01 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 58 Resp: 25736

Ion	Ratio	Lower	Upper
58	100		
43	435.7	360.8	420.8#

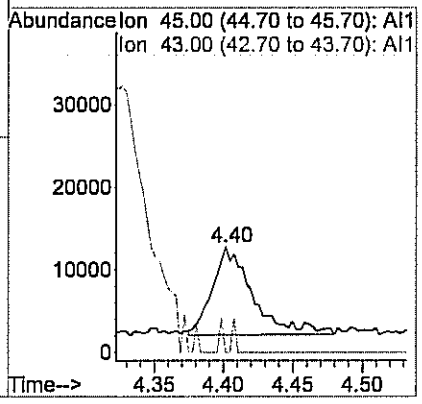


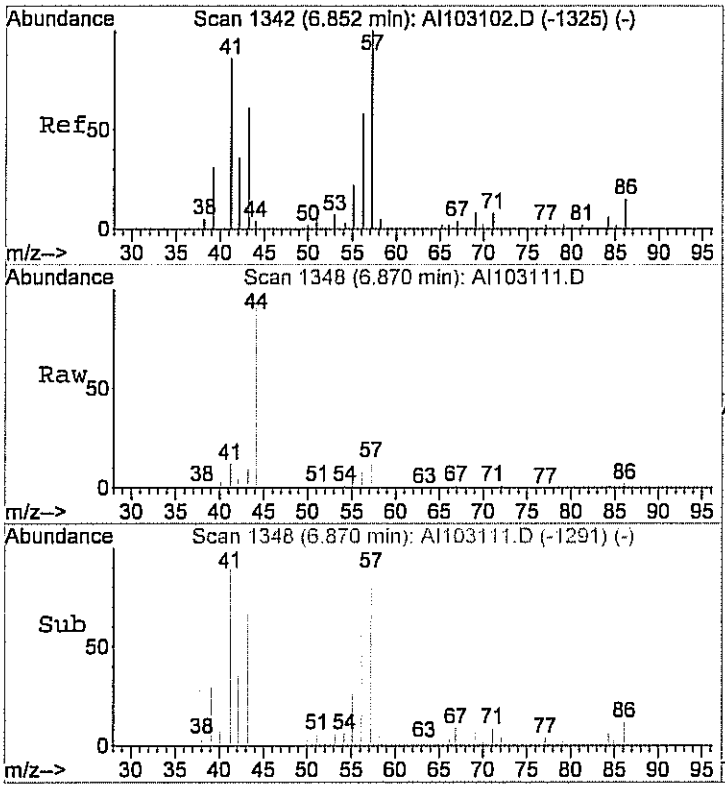


#15
Isopropyl alcohol
Concen: 1.22 ppb
RT: 4.40 min Scan# 524
Delta R.T. 0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 45 Resp: 21419

Ion	Ratio	Lower	Upper
45	100		
43	0.0	0.0	20.0

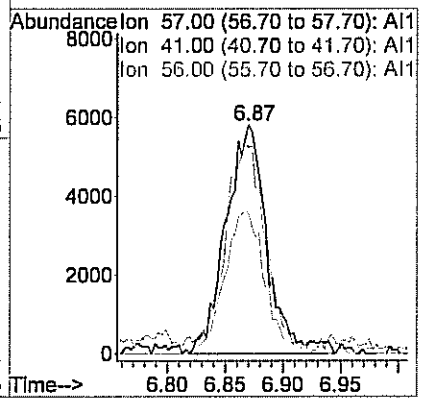


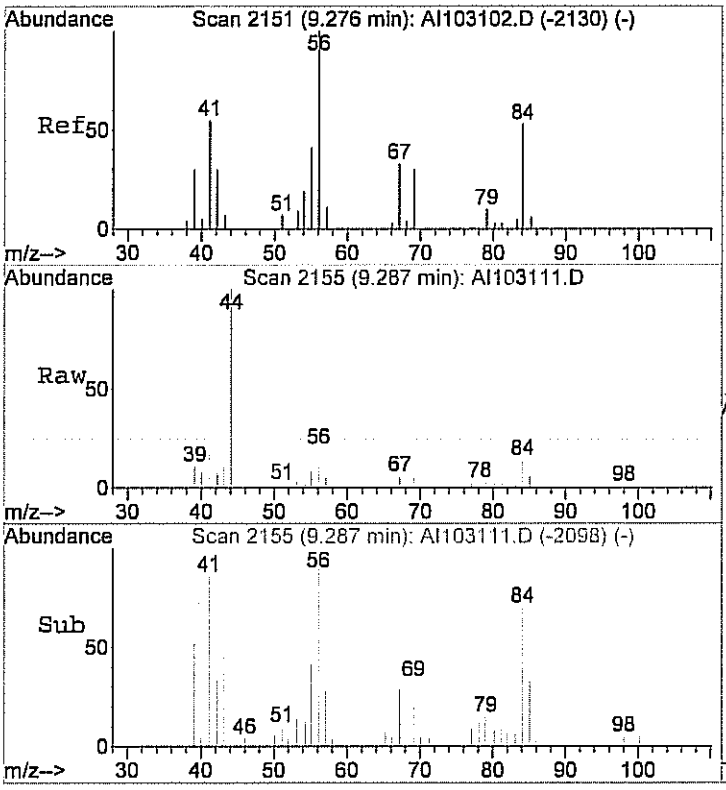


#27
Hexane
Concen: 0.73 ppb
RT: 6.87 min Scan# 1348
Delta R.T. 0.02 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 57 Resp: 14360

Ion	Ratio	Lower	Upper
57	100		
41	93.0	75.5	115.5
56	61.5	35.9	75.9

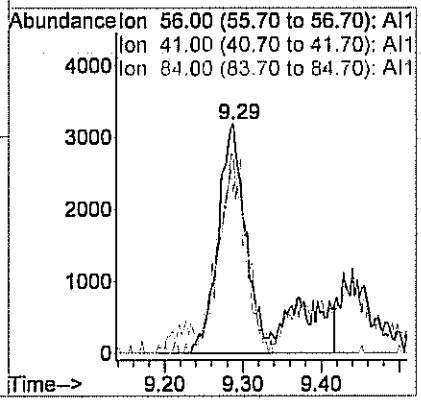


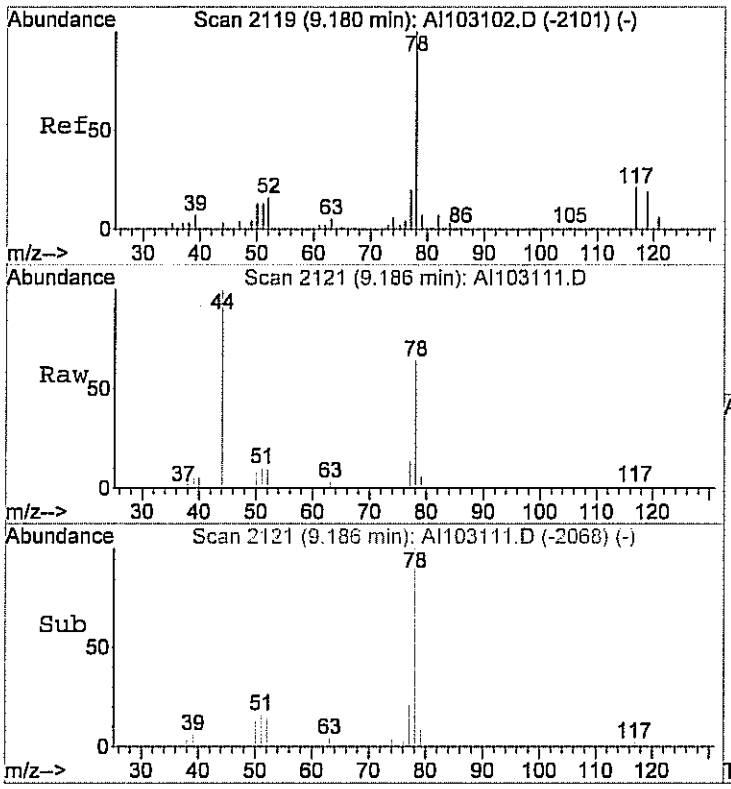


#34
Cyclohexane
Concen: 0.50 ppb
RT: 9.29 min Scan# 2155
Delta R.T. 0.02 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 56 Resp: 10306

Ion	Ratio	Lower	Upper
56	100		
41	68.2	49.1	89.1
84	59.3	114.6	154.6#

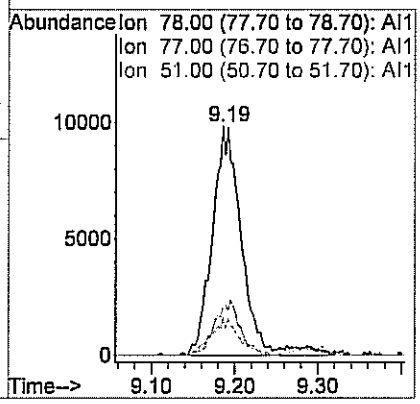


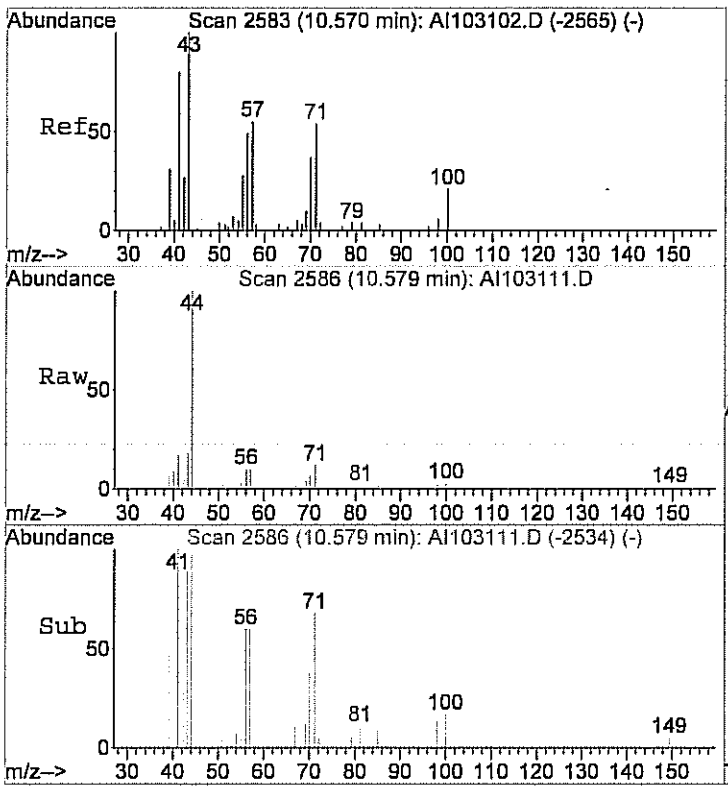


#36
Benzene
Concen: 0.39 ppb
RT: 9.19 min Scan# 2121
Delta R.T. 0.01 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 78 Resp: 24161

Ion	Ratio	Lower	Upper
78	100		
77	21.0	5.2	45.2
51	14.4	0.0	37.6

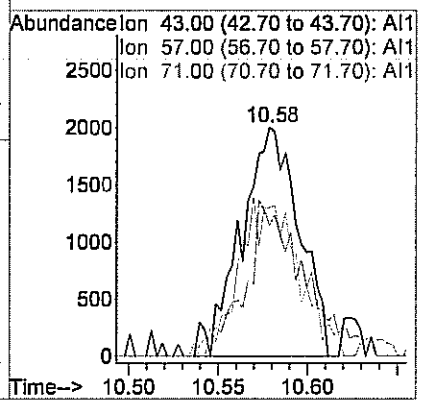


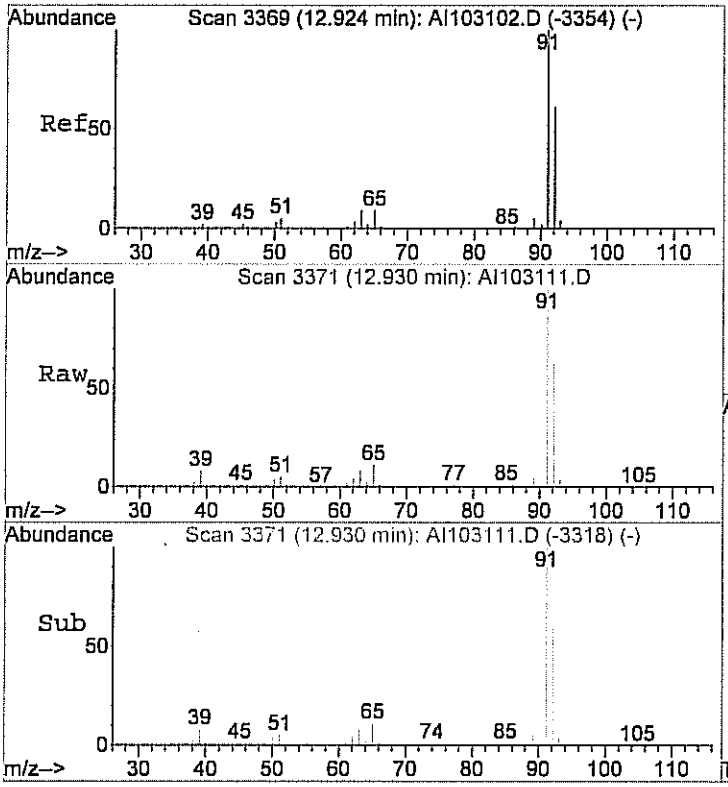


#40
Heptane
Concen: 0.23 ppb
RT: 10.58 min Scan# 2586
Delta R.T. 0.01 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 43 Resp: 4537

Ion	Ratio	Lower	Upper
43	100		
57	72.0	32.1	72.1
71	69.4	35.5	75.5

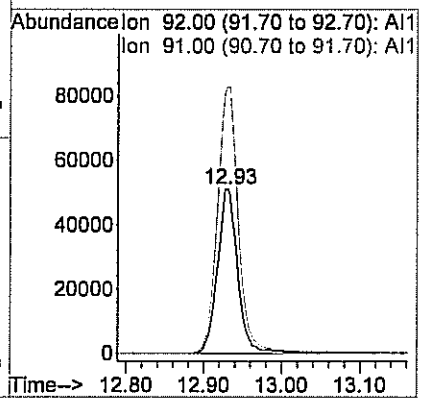


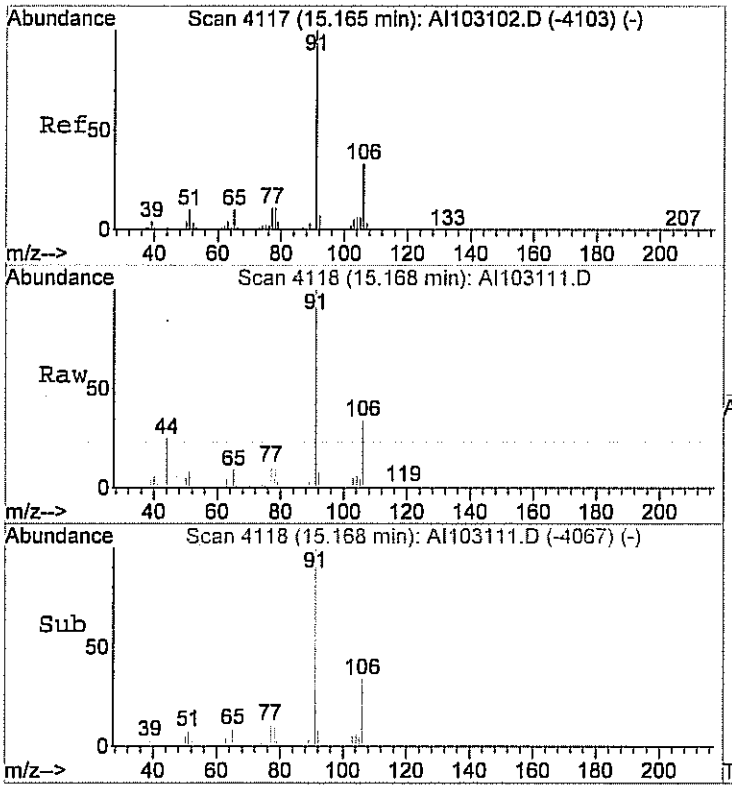


#48
Toluene
Concen: 2.35 ppb
RT: 12.93 min Scan# 3371
Delta R.T. 0.01 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 92 Resp: 93024

Ion	Ratio	Lower	Upper
92	100		
91	166.0	159.8	199.8

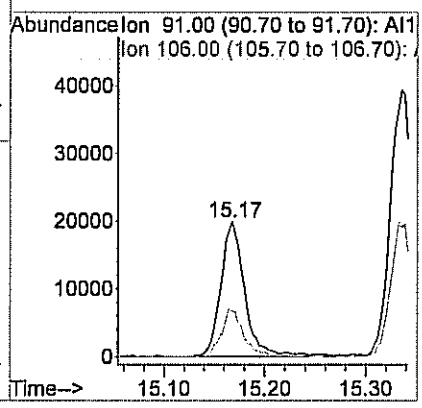


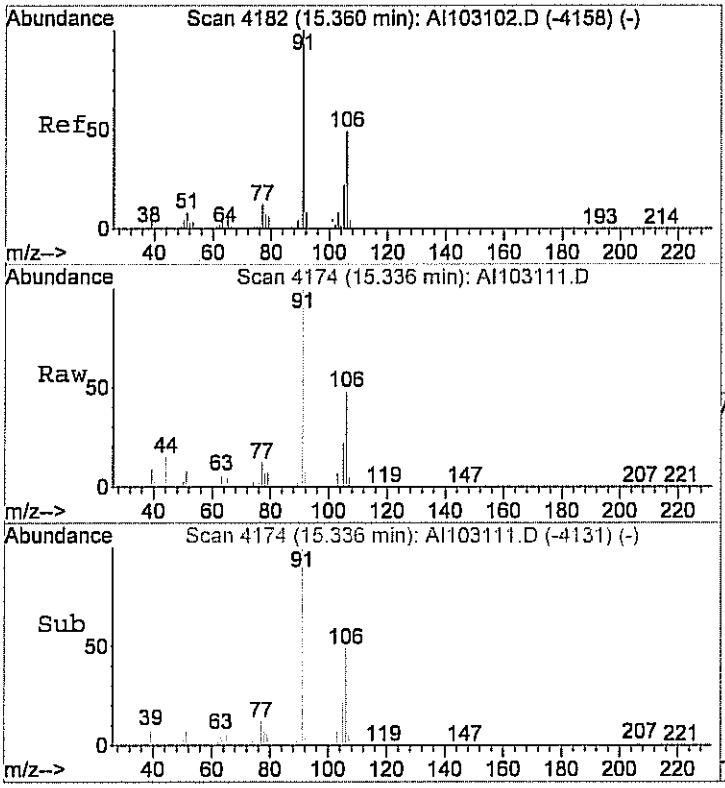


#55
Ethylbenzene
Concen: 0.41 ppb
RT: 15.17 min Scan# 4118
Delta R.T. 0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 91 Resp: 32858

Ion	Ratio	Lower	Upper
91	100		
106	33.0	10.7	50.7

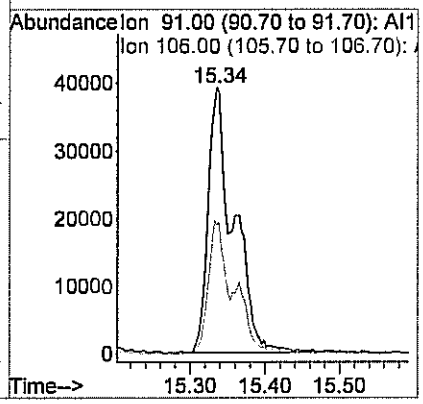


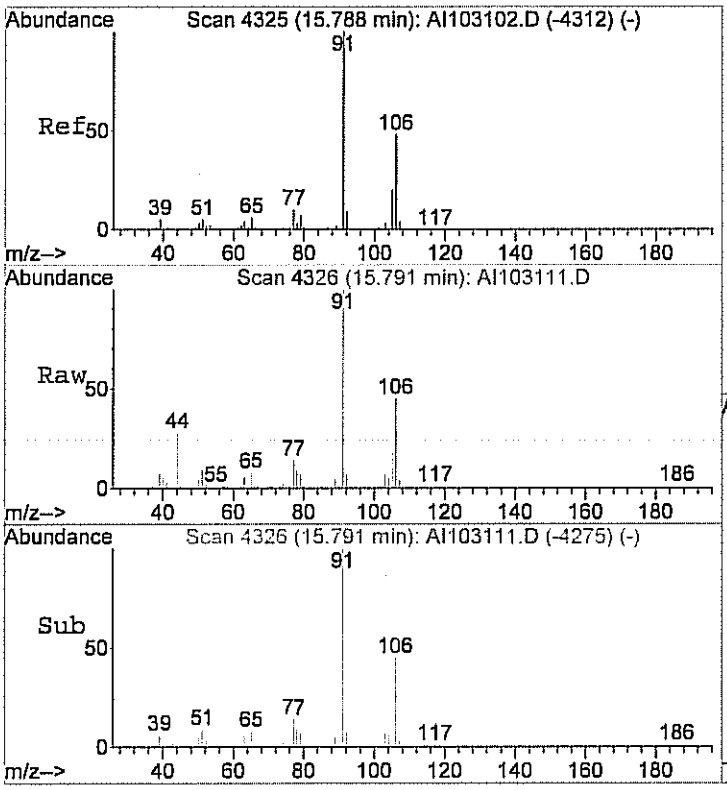


#56
m&p-xylene
Concen: 1.41 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 91 Resp: 92775

Ion	Ratio	Lower	Upper
91	100		
106	50.3	27.5	67.5

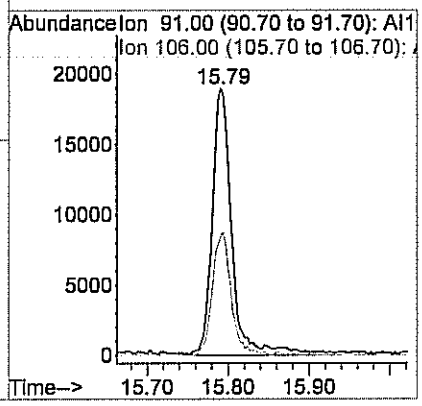


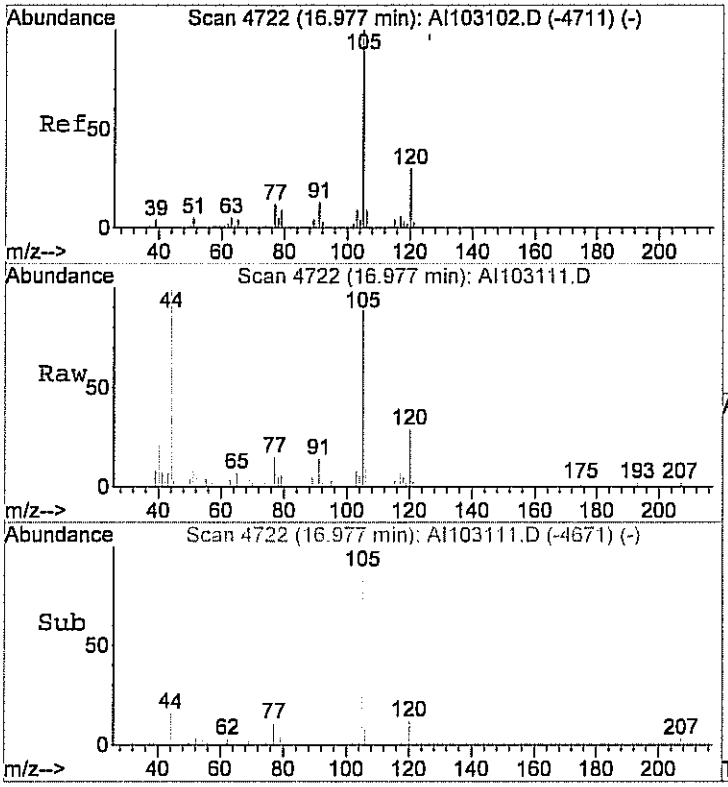


#59
o-xylene
Concen: 0.38 ppb
RT: 15.79 min Scan# 4326
Delta R.T. 0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion: 91 Resp: 31855

Ion	Ratio	Lower	Upper
91	100		
106	43.8	26.2	66.2

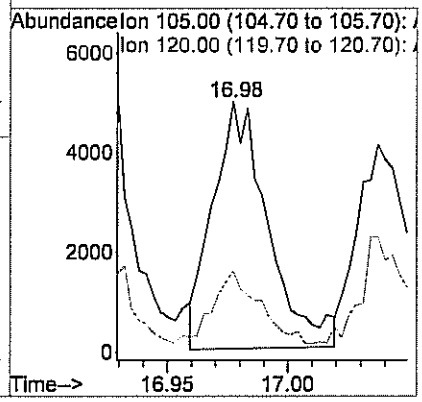


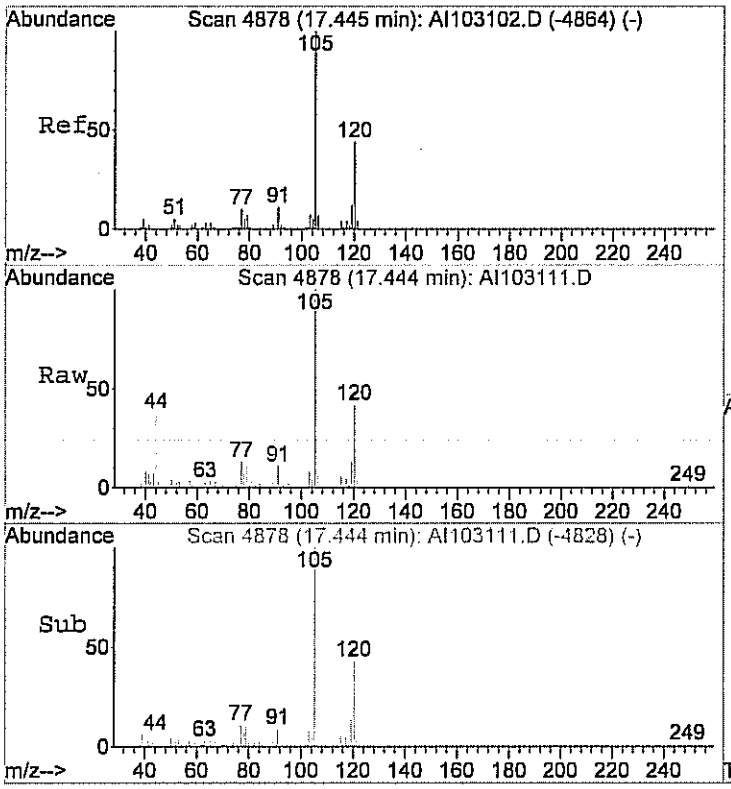


#63
4-ethyltoluene
Concen: 0.12 ppb
RT: 16.98 min Scan# 4722
Delta R.T. 0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion:105 Resp: 7836

Ion	Ratio	Lower	Upper
105	100		
120	31.5	8.1	48.1

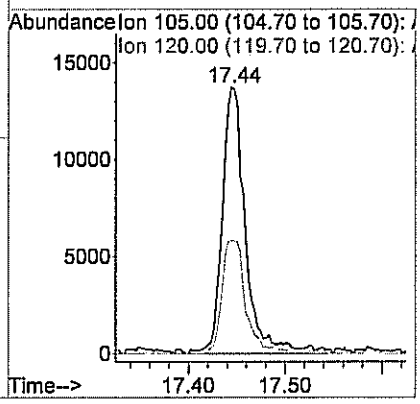




#65
1,2,4-trimethylbenzene
Concen: 0.39 ppb
RT: 17.44 min Scan# 4878
Delta R.T. -0.00 min
Lab File: AI103111.D
Acq: 31 Oct 2011 3:49 pm

Tgt Ion:105 Resp: 22935

Ion	Ratio	Lower	Upper
105	100		
120	43.4	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103117.D Vial: 26
Acq On : 31 Oct 2011 7:18 pm Operator: RJP
Sample : C1110054-018A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 19:39:42 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

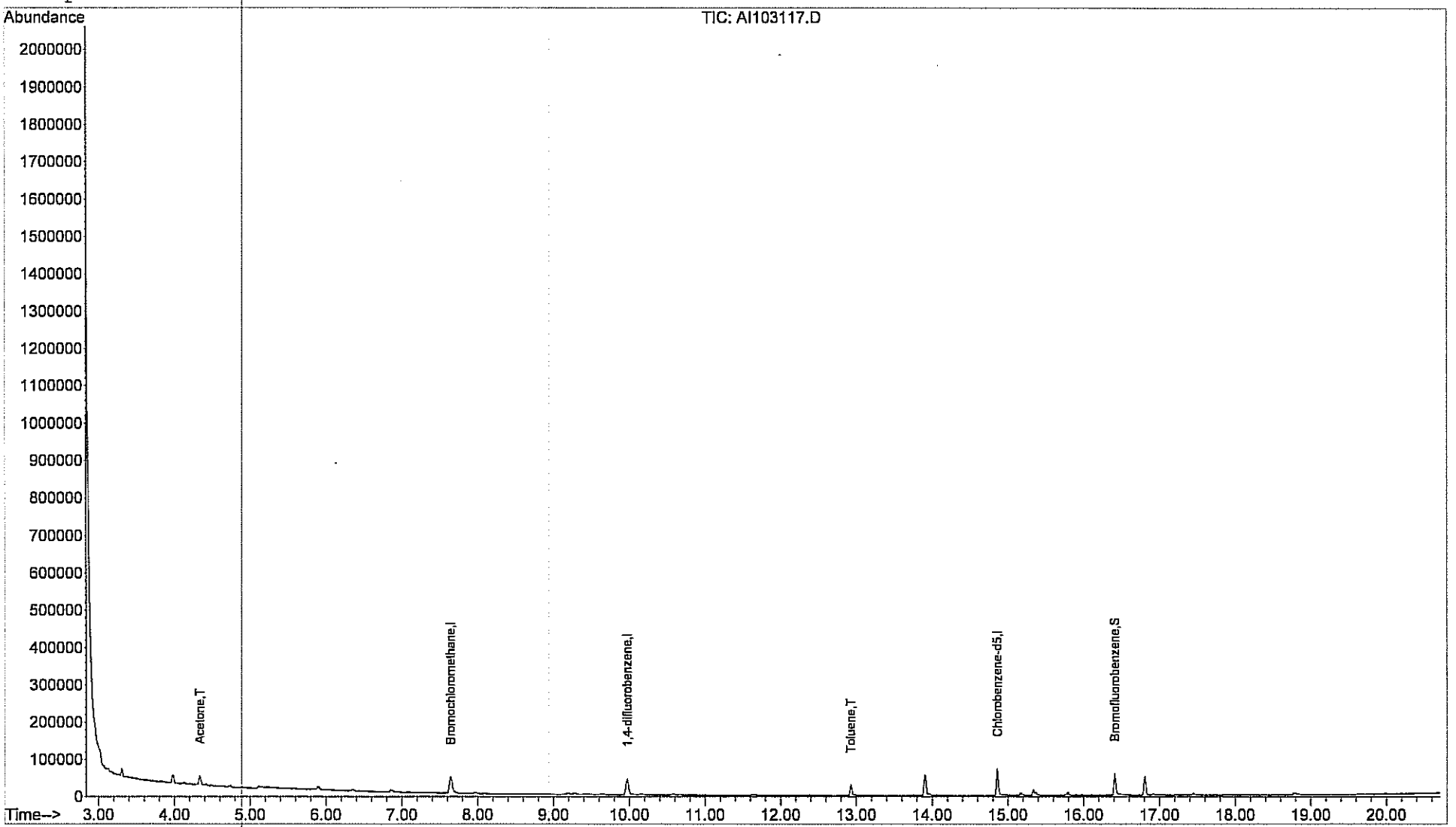
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	20318	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	50594	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	47281	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	21283	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
14) Acetone	4.34	58	6079	1.03	ppb	88
48) Toluene	12.92	92	14187	0.49	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

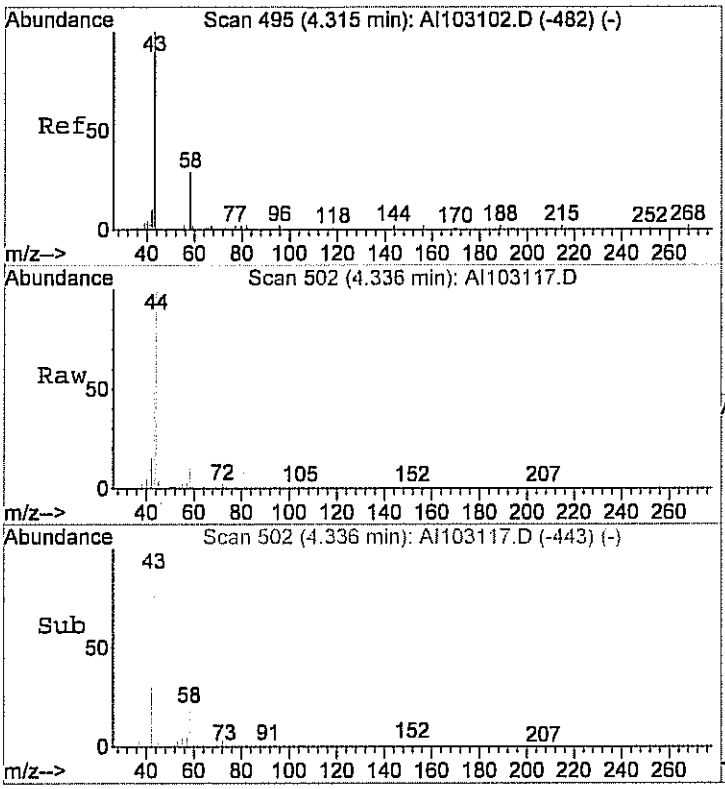
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103117.D Vial: 26
Acq On : 31 Oct 2011 7:18 pm Operator: RJP
Sample : C1110054-018A 5X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 7:59 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



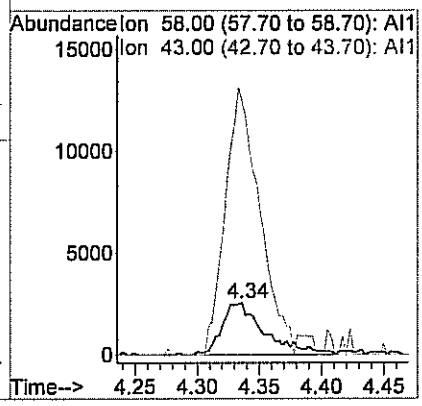
Centek laboratories, LLC

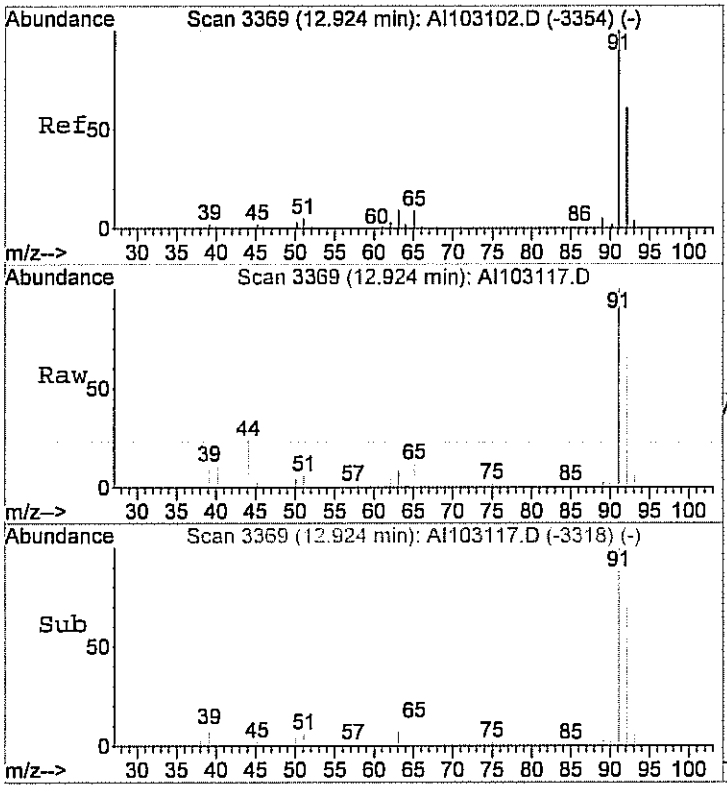


#14
Acetone
Concen: 1.03 ppb
RT: 4.34 min Scan# 502
Delta R.T. 0.03 min
Lab File: AI103117.D
Acq: 31 Oct 2011 7:18 pm

Tgt Ion: 58 Resp: 6079

Ion	Ratio	Lower	Upper
58	100		
43	419.0	360.8	420.8

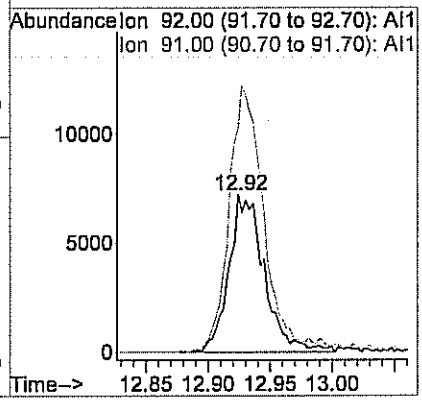




#48
Toluene
Concen: 0.49 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103117.D
Acq: 31 Oct 2011 7:18 pm

Tgt Ion: 92 Resp: 14187

Ion	Ratio	Lower	Upper
92	100		
91	169.7	159.8	199.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	J	ppbV	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Acetone	11	3.0		ppbV	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzene	0.30	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroform	0.93	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 11	8.5	1.5		ppbV	10	11/1/2011 8:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 12	1.3	0.15		ppbV	1	11/1/2011 2:53:00 AM
Heptane	0.21	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	5.1	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
o-Xylene	0.23	0.15		ppbV	1	11/1/2011 2:53:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	0.51	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	1.7	0.15		ppbV	1	11/1/2011 2:53:00 AM
Toluene	0.58	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Trichloroethene	120	14		ppbV	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	11/1/2011 2:53:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	6.5	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	J	ug/m3	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Acetone	27	7.2		ug/m3	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:53:00 AM
Benzene	0.97	0.49		ug/m3	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.96	0.96		ug/m3	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:53:00 AM
Chloroform	4.6	0.74		ug/m3	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Freon 11	49	8.6		ug/m3	10	11/1/2011 8:10:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM

Qualifiers:

- ****** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.4	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Heptane	0.87	0.62		ug/m3	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:53:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	15	0.90		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:53:00 AM
o-Xylene	1.0	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:53:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	3.5	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	5.2	0.45		ug/m3	1	11/1/2011 2:53:00 AM
Toluene	2.2	0.57		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Trichloroethene	650	76		ug/m3	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103131.D Vial: 10
Acq On : 1 Nov 2011 2:53 am Operator: RJP
Sample : C1110054-019A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 03:13:57 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.62	128	19116	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.98	114	52619	1.00	ppb		0.02
47) Chlorobenzene-d5	14.86	117	52411	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24592	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
3) Freon 12	2.91	85	94121	1.28	ppb		97
13) Freon 11	4.11	101	271296	6.23	ppb		99
14) Acetone	4.31	58	39285	7.06	ppb	#	57
25) Methyl Ethyl Ketone	6.87	72	24715	5.14	ppb	#	100
29) Chloroform	7.83	83	50938	0.93	ppb		98
30) Tetrahydrofuran	8.01	42	14668	1.74	ppb		92
33) 1,1,1-trichloroethane	8.58	97	57394	1.17	ppb		99
35) Carbon tetrachloride	9.21	117	7605	0.15	ppb		100
36) Benzene	9.20	78	14664	0.30	ppb		93
40) Heptane	10.60	43	3340	0.21	ppb	#	6
41) Trichloroethene	10.67	130	2887459	84.23	ppb		96
48) Toluene	12.94	92	18781	0.58	ppb		99
53) Tetrachloroethylene	13.96	164	20480	0.51	ppb		100
55) Ethylbenzene	15.17	91	11834	0.18	ppb		98
56) m&p-xylene	15.34	91	28799	0.54	ppb		98
59) o-xylene	15.79	91	15974	0.23	ppb		99
64) 1,3,5-trimethylbenzene	17.04	105	6657	0.11	ppb		95
65) 1,2,4-trimethylbenzene	17.44	105	16580	0.34	ppb		93

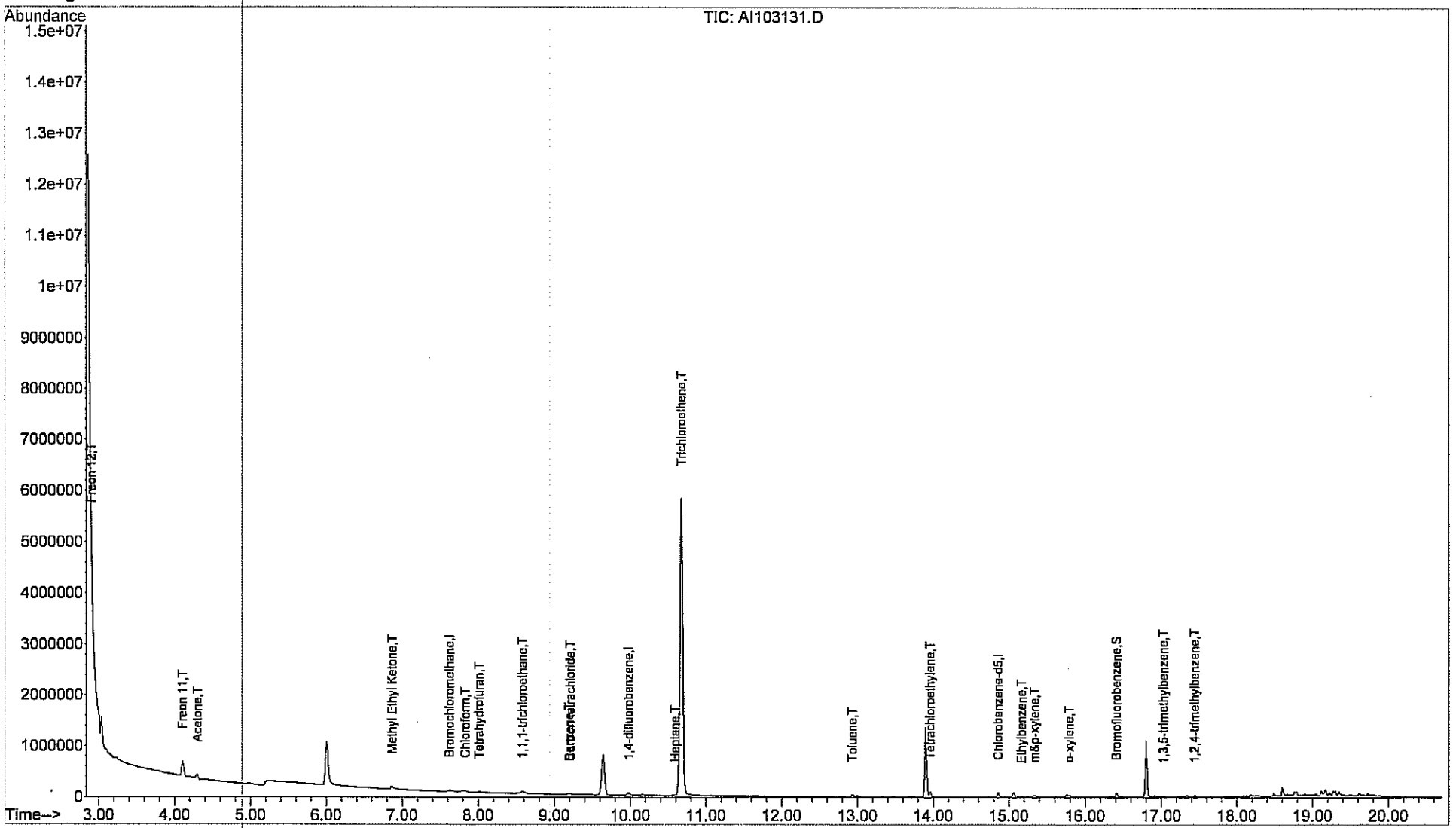
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

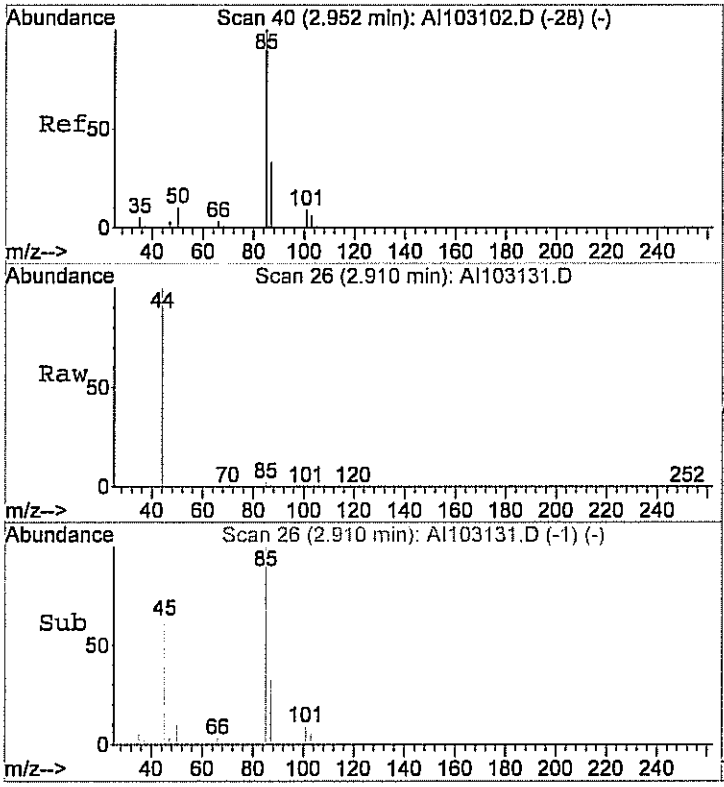
Data File : C:\HPCHEM\1\DATA\AI103131.D
Acq On : 1 Nov 2011 2:53 am
Sample : C1110054-019A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:31 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



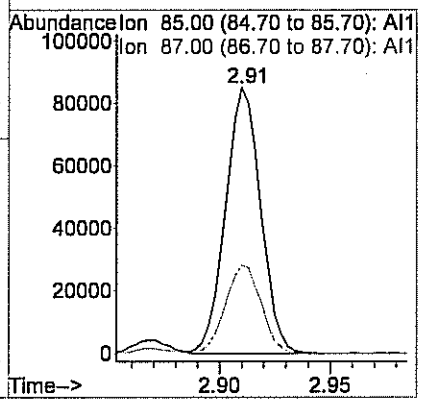
Centek laboratories, LLC

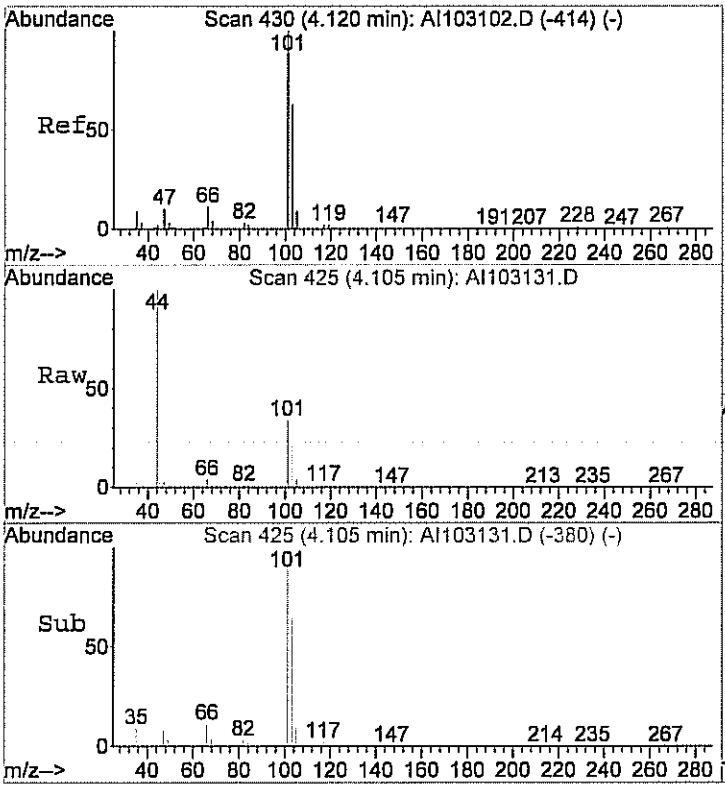


#3
Freon 12
Concen: 1.28 ppb
RT: 2.91 min Scan# 26
Delta R.T. -0.04 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 85 Resp: 94121

Ion	Ratio	Lower	Upper
85	100		
87	33.6	12.2	52.2

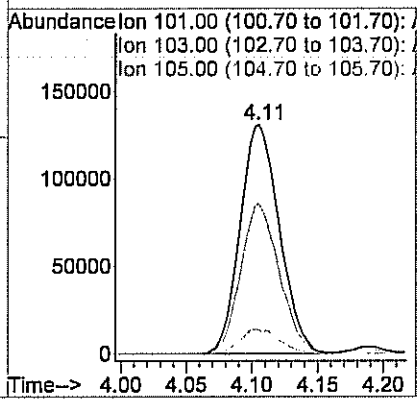


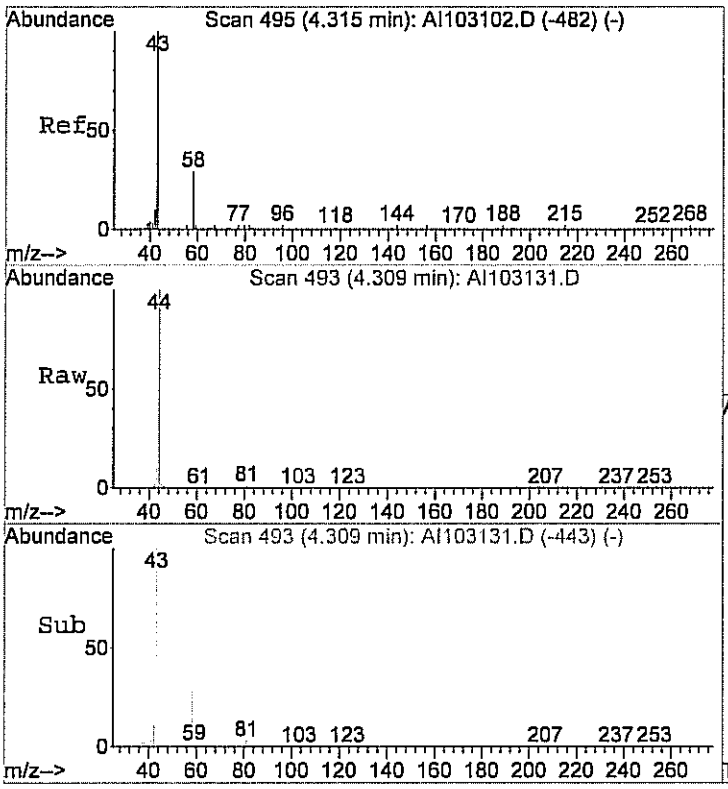


#13
Freon 11
Concen: 6.23 ppb
RT: 4.11 min Scan# 425
Delta R.T. -0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:101 Resp: 271296

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.9	84.9
105	10.8	0.0	30.9

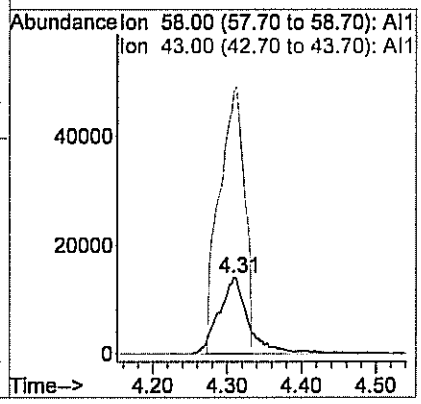


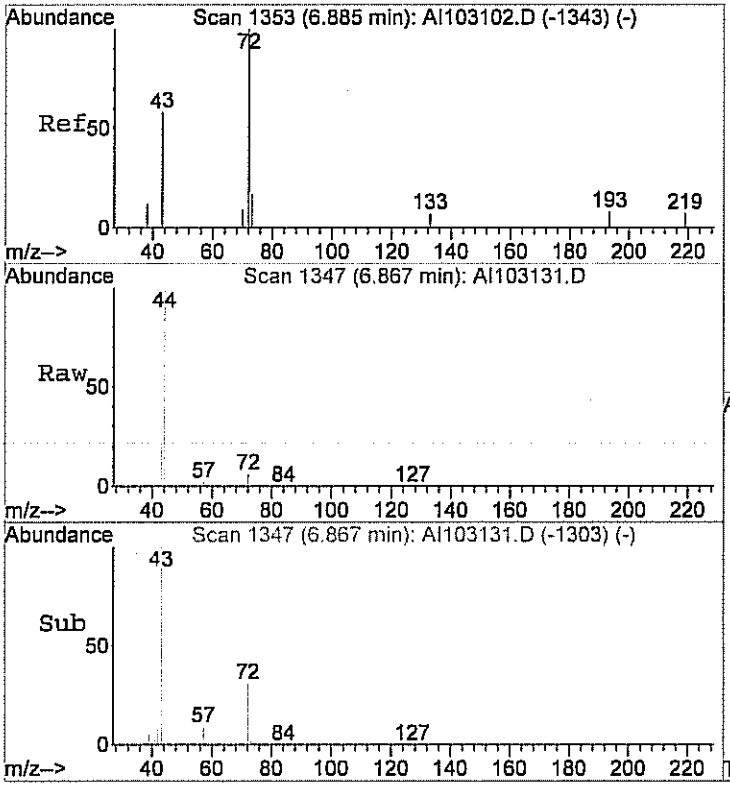


#14
Acetone
Concen: 7.06 ppb
RT: 4.31 min Scan# 493
Delta R.T. -0.00 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 58 Resp: 39285

Ion	Ratio	Lower	Upper
58	100		
43	289.3	360.8	420.8#

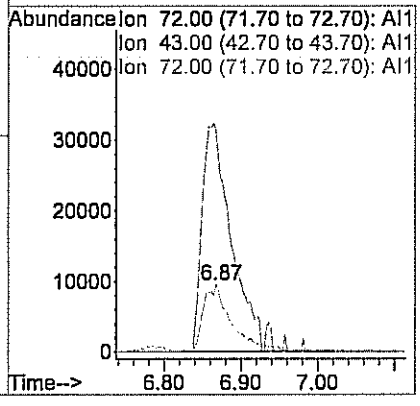


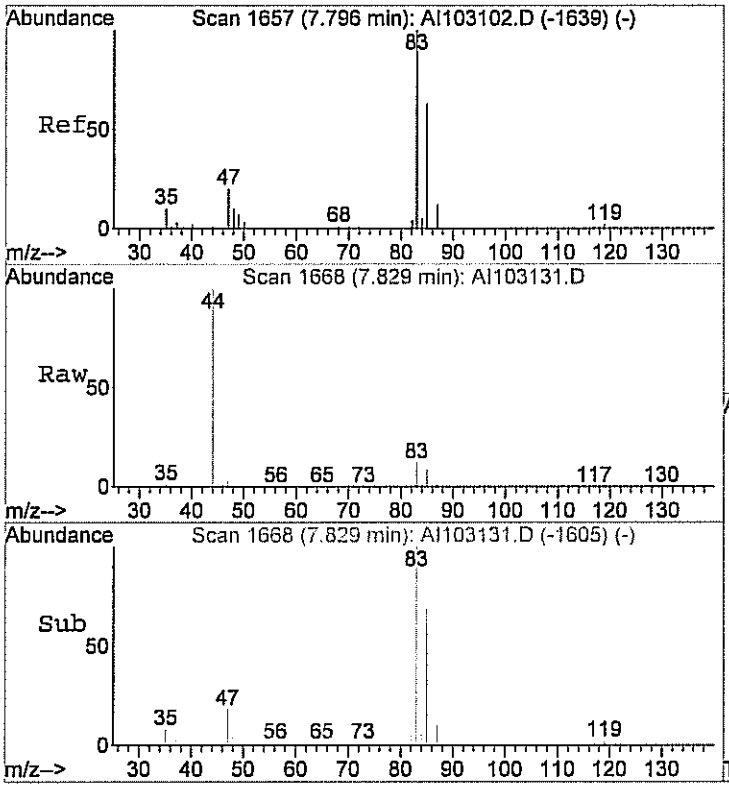


#25
Methyl Ethyl Ketone
Concen: 5.14 ppb
RT: 6.87 min Scan# 1347
Delta R.T. -0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 72 Resp: 24715

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

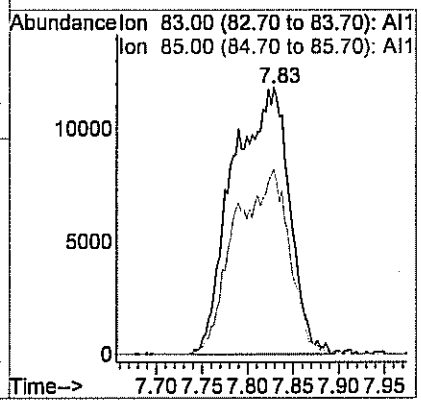


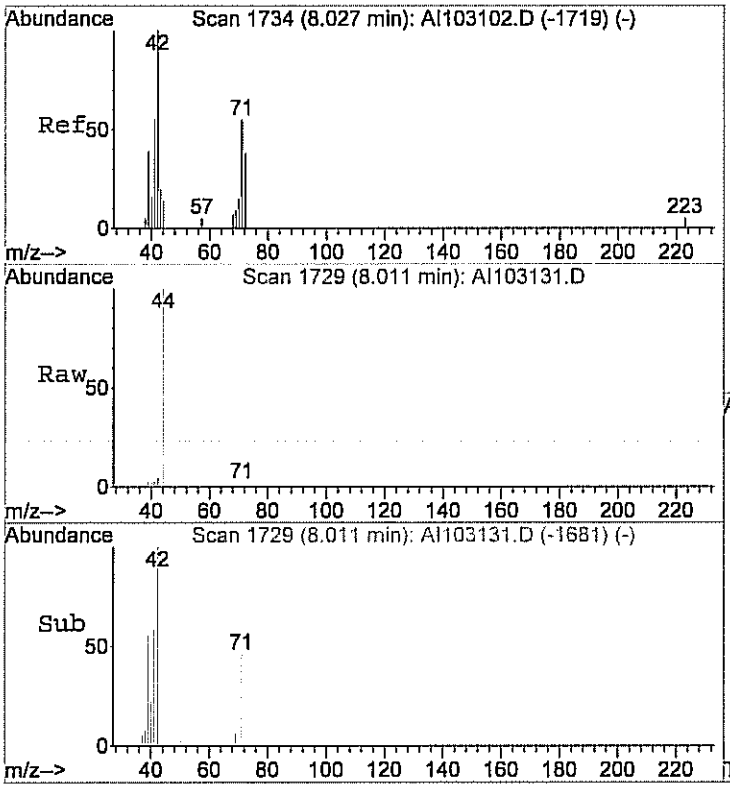


#29
Chloroform
Concen: 0.93 ppb
RT: 7.83 min Scan# 1668
Delta R.T. 0.04 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 83 Resp: 50938

Ion	Ratio	Lower	Upper
83	100		
85	66.5	45.0	85.0

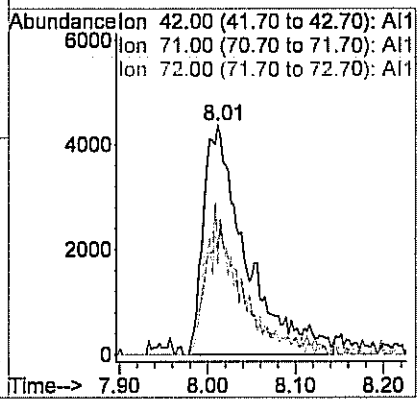


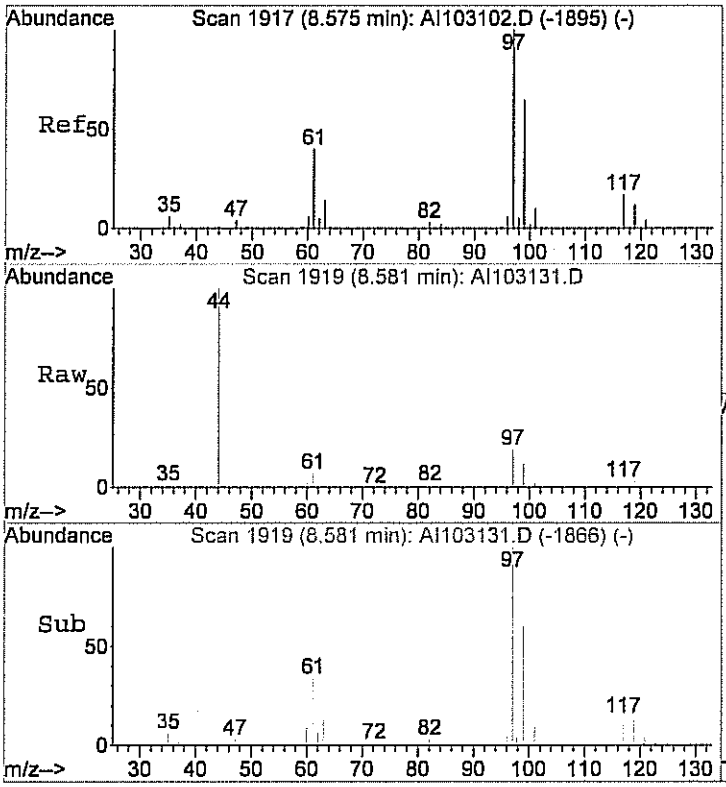


#30
Tetrahydrofuran
Concen: 1.74 ppb
RT: 8.01 min Scan# 1729
Delta R.T. -0.01 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 42 Resp: 14668

Ion	Ratio	Lower	Upper
42	100		
71	52.8	24.6	64.6
72	48.9	26.5	66.5

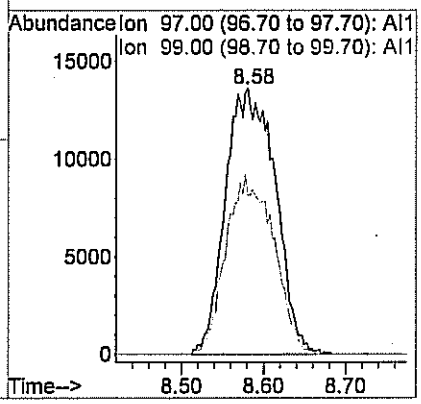


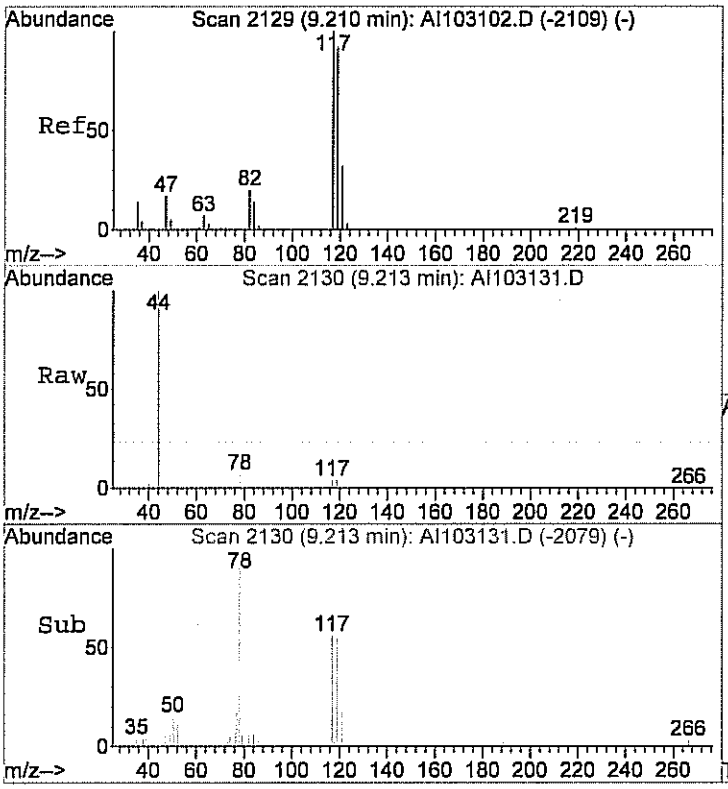


#33
1,1,1-trichloroethane
Concen: 1.17 ppb
RT: 8.58 min Scan# 1919
Delta R.T. 0.01 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 97 Resp: 57394

Ion	Ratio	Lower	Upper
97	100		
99	64.5	43.8	83.8

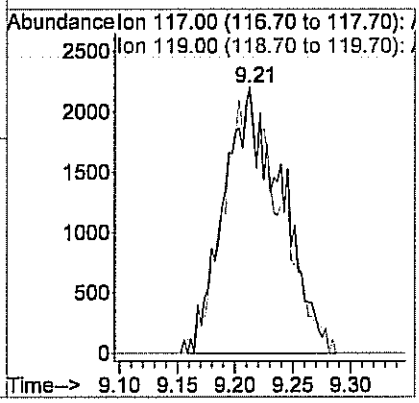


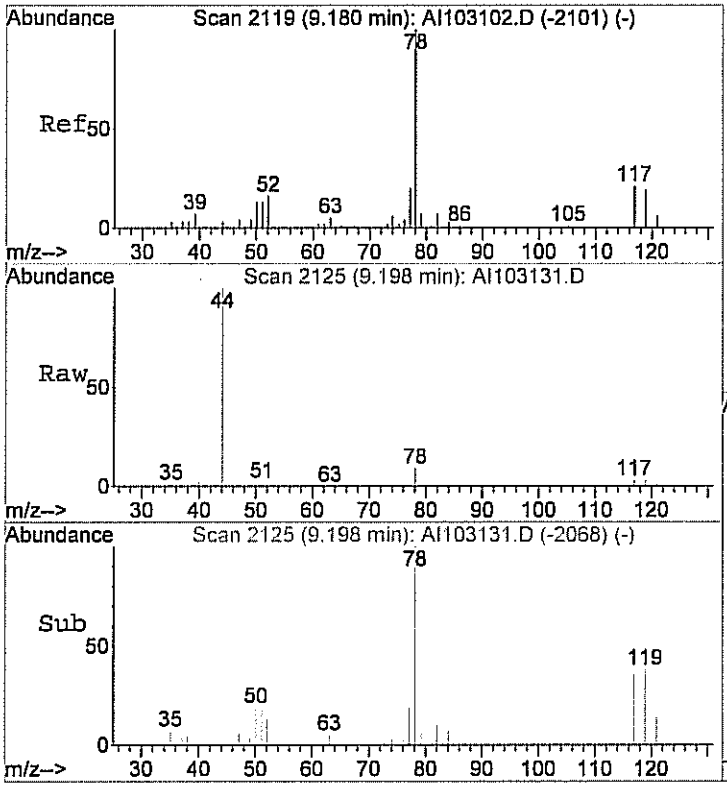


#35
Carbon tetrachloride
Concen: 0.15 ppb
RT: 9.21 min Scan# 2130
Delta R.T. 0.00 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:117 Resp: 7605

Ion	Ratio	Lower	Upper
117	100		
119	97.0	77.2	117.2

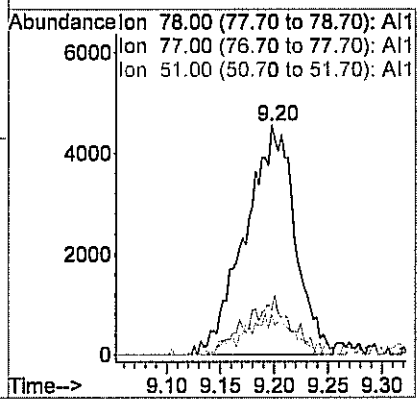


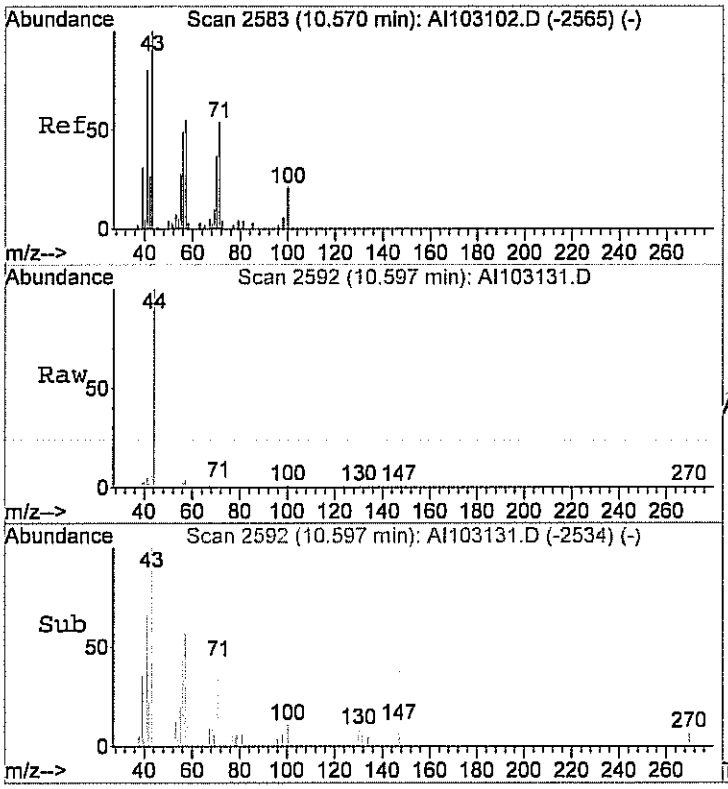


#36
Benzene
Concen: 0.30 ppb
RT: 9.20 min Scan# 2125
Delta R.T. 0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 78 Resp: 14664

Ion	Ratio	Lower	Upper
78	100		
77	21.9	5.2	45.2
51	14.1	0.0	37.6

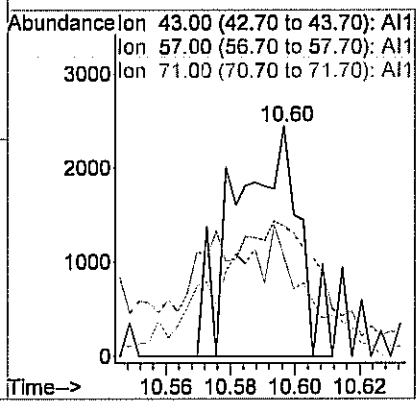


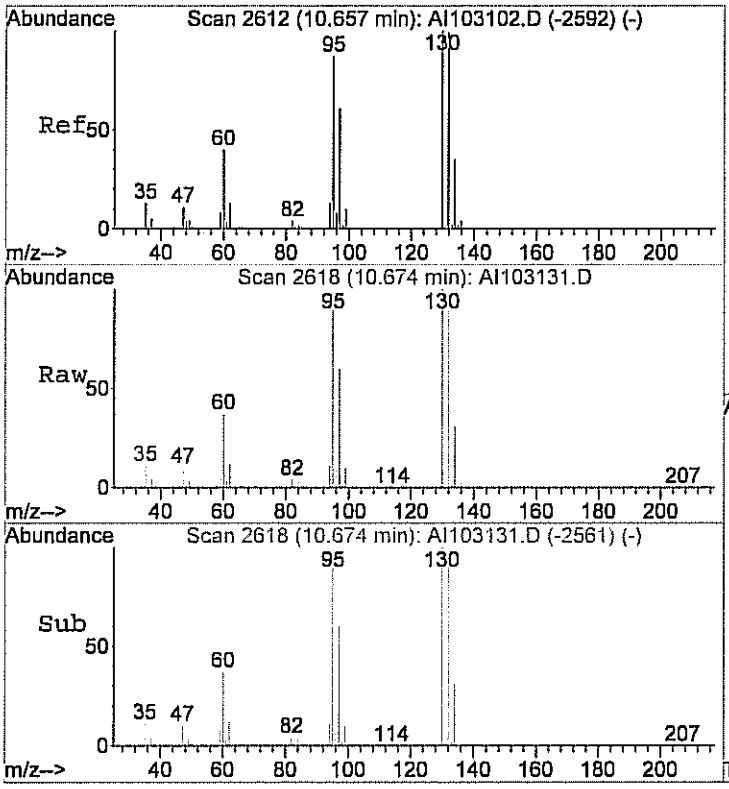


#40
Heptane
Concen: 0.21 ppb
RT: 10.60 min Scan# 2592
Delta R.T. 0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 43 Resp: 3340

Ion	Ratio	Lower	Upper
43	100		
57	161.0	32.1	72.1#
71	82.8	35.5	75.5#

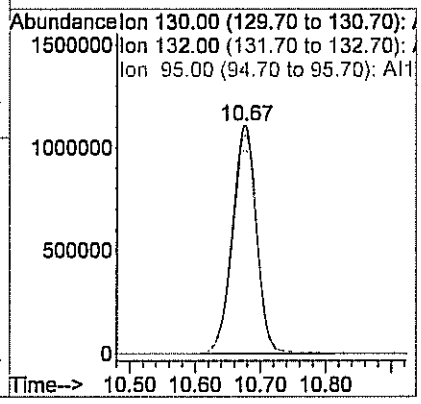


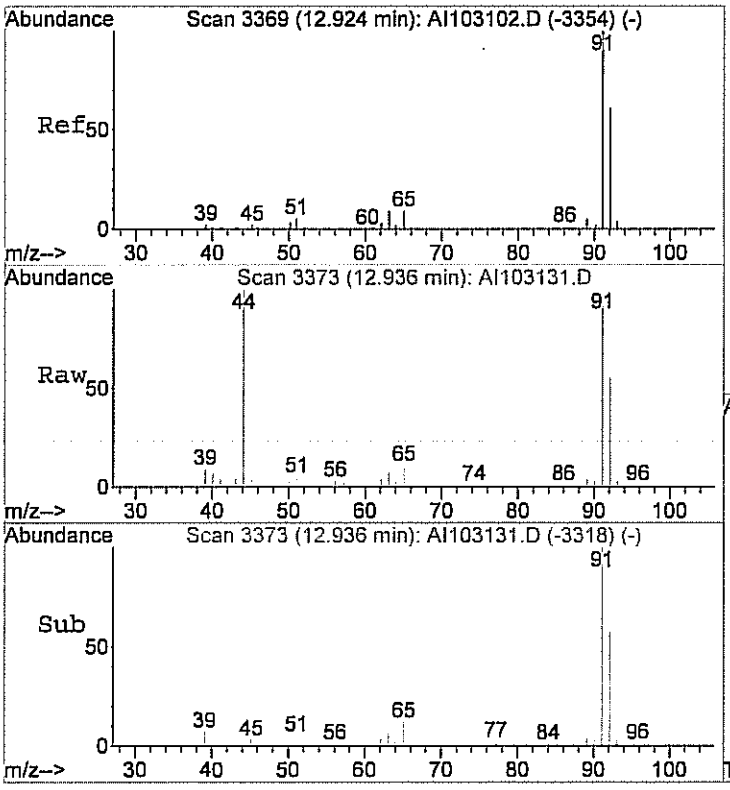


#41
Trichloroethene
Concen: 84.23 ppb
RT: 10.67 min Scan# 2618
Delta R.T. 0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:130 Resp: 2887459

Ion	Ratio	Lower	Upper
130	100		
132	96.9	79.0	119.0
95	91.4	76.8	116.8

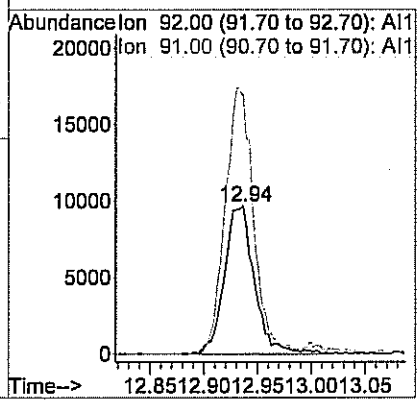


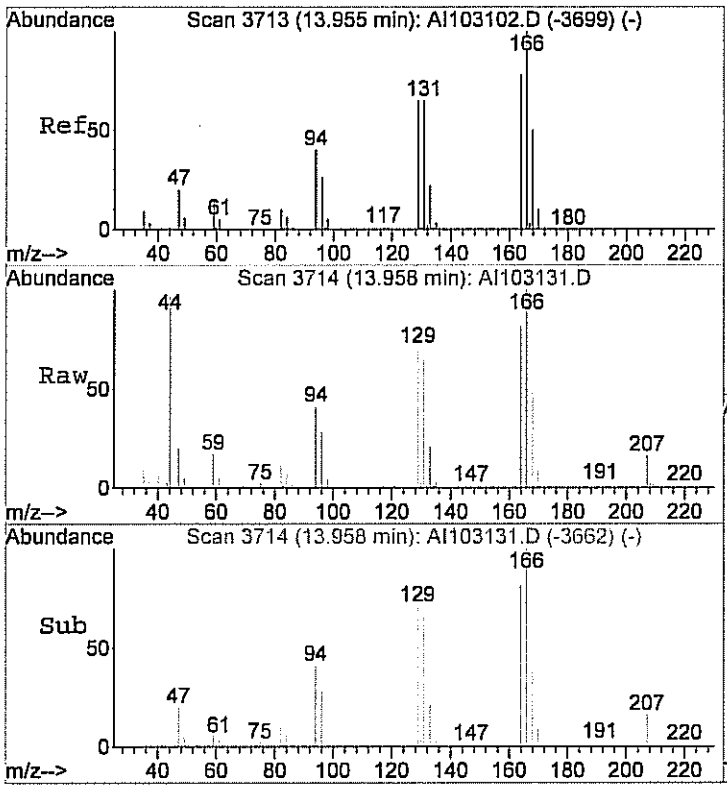


#48
Toluene
Concen: 0.58 ppb
RT: 12.94 min Scan# 3373
Delta R.T. 0.01 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 92 Resp: 18781

Ion	Ratio	Lower	Upper
92	100		
91	177.7	159.8	199.8

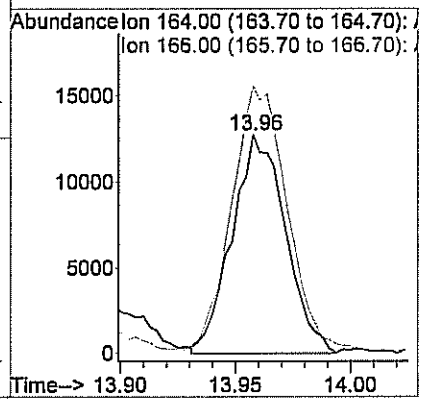


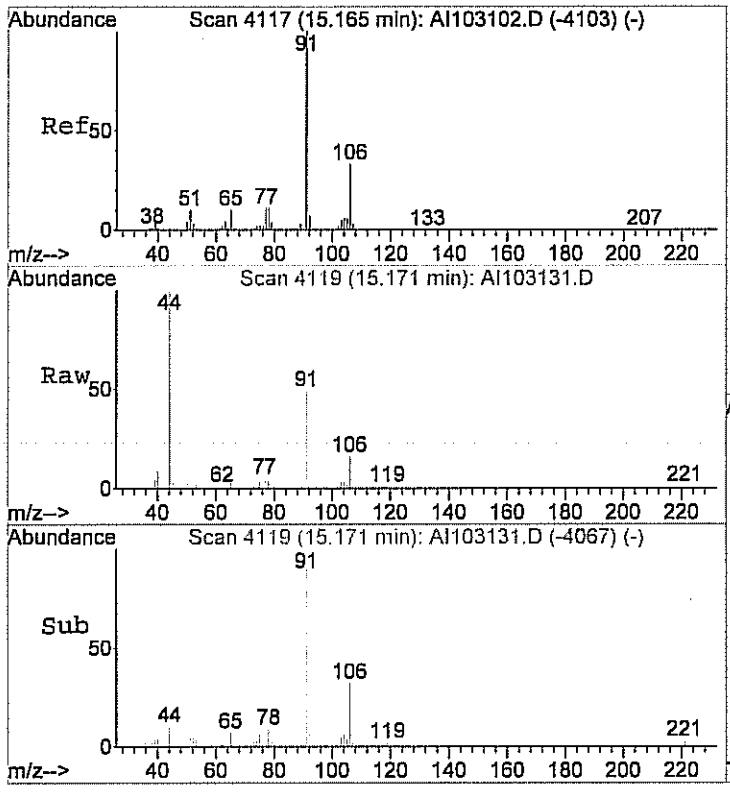


#53
Tetrachloroethylene
Concen: 0.51 ppb
RT: 13.96 min Scan# 3714
Delta R.T. 0.01 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:164 Resp: 20480

Ion	Ratio	Lower	Upper
164	100		
166	129.2	109.4	149.4

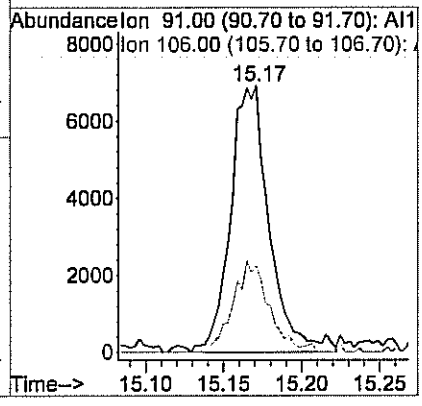


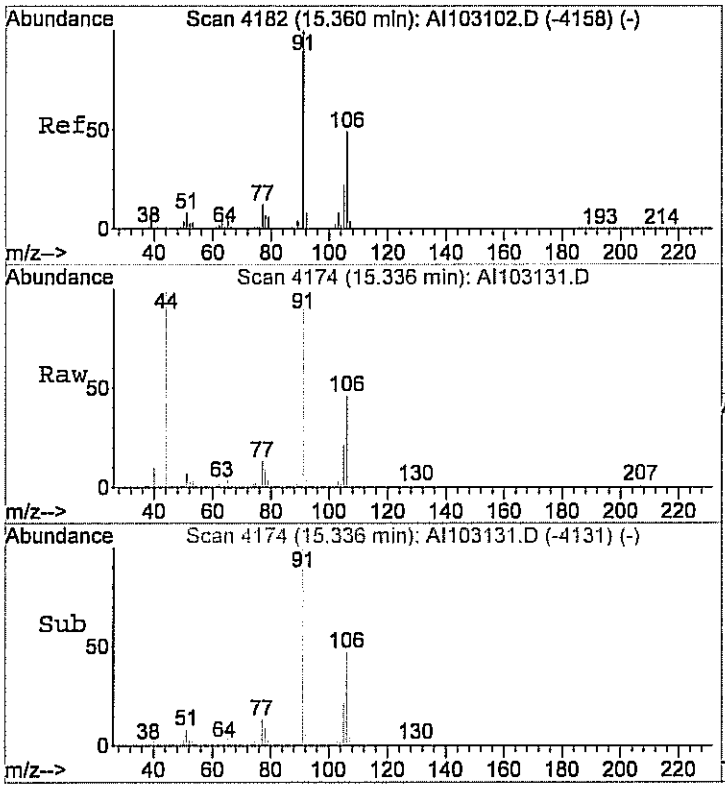


#55
Ethylbenzene
Concen: 0.18 ppb
RT: 15.17 min Scan# 4119
Delta R.T. 0.01 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 91 Resp: 11834

Ion	Ratio	Lower	Upper
91	100		
106	31.8	10.7	50.7

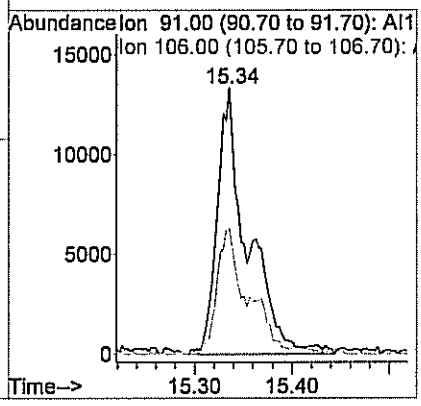


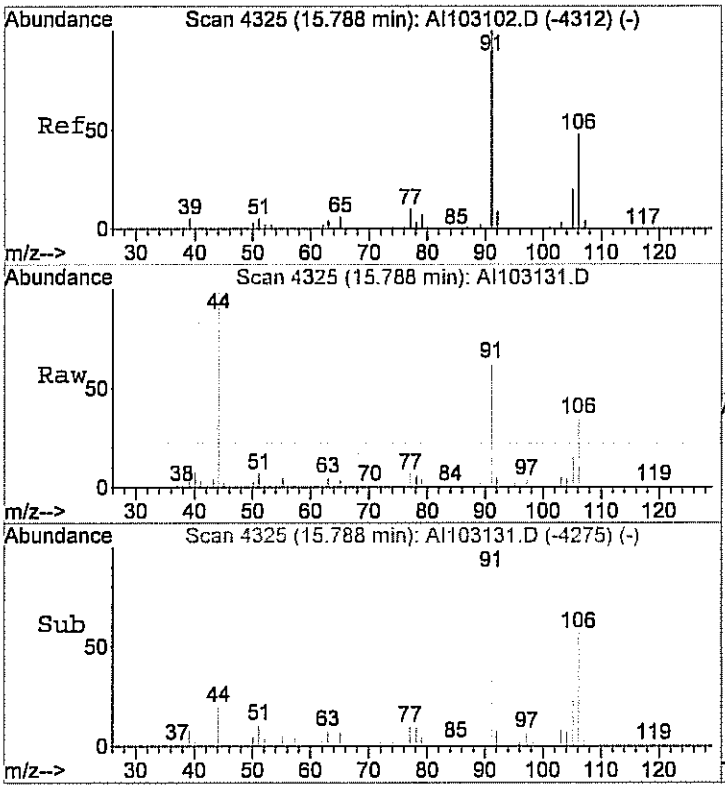


#56
m&p-xylene
Concen: 0.54 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 91 Resp: 28799

Ion	Ratio	Lower	Upper
91	100		
106	48.9	27.5	67.5

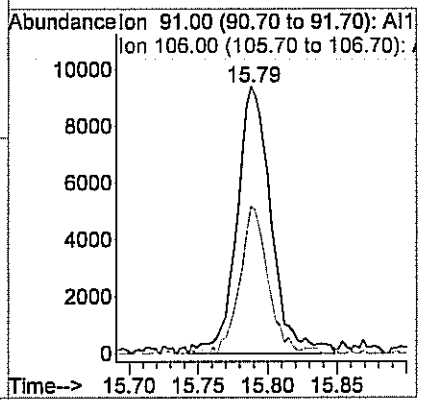


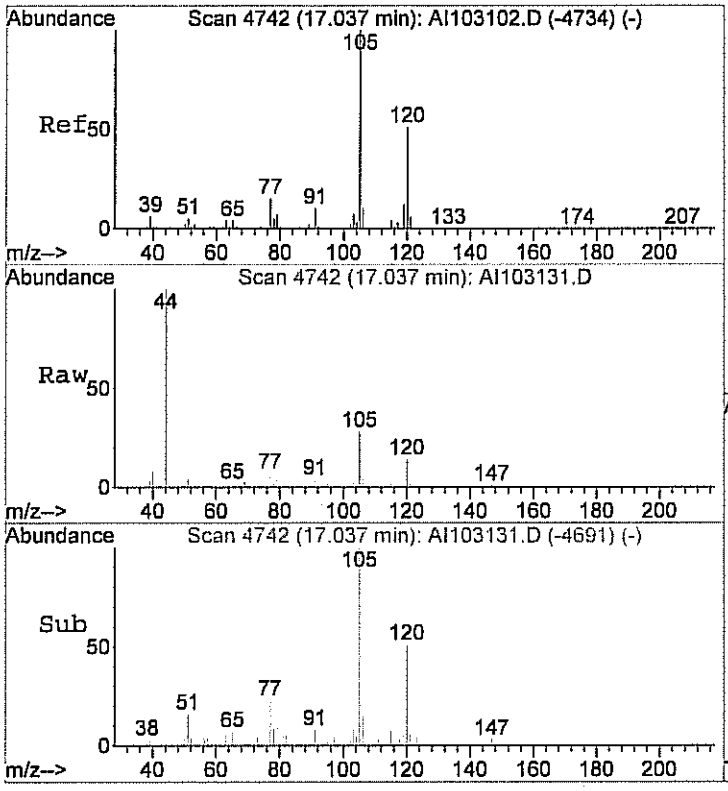


#59
o-xylene
Concen: 0.23 ppb
RT: 15.79 min Scan# 4325
Delta R.T. -0.00 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion: 91 Resp: 15974

Ion	Ratio	Lower	Upper
91	100		
106	45.5	26.2	66.2

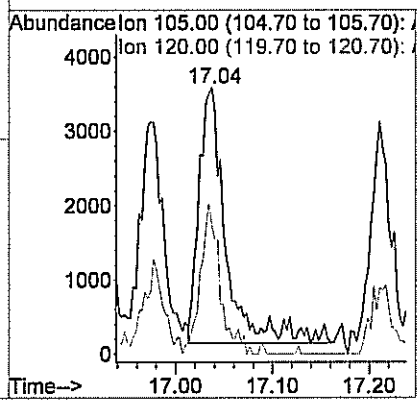


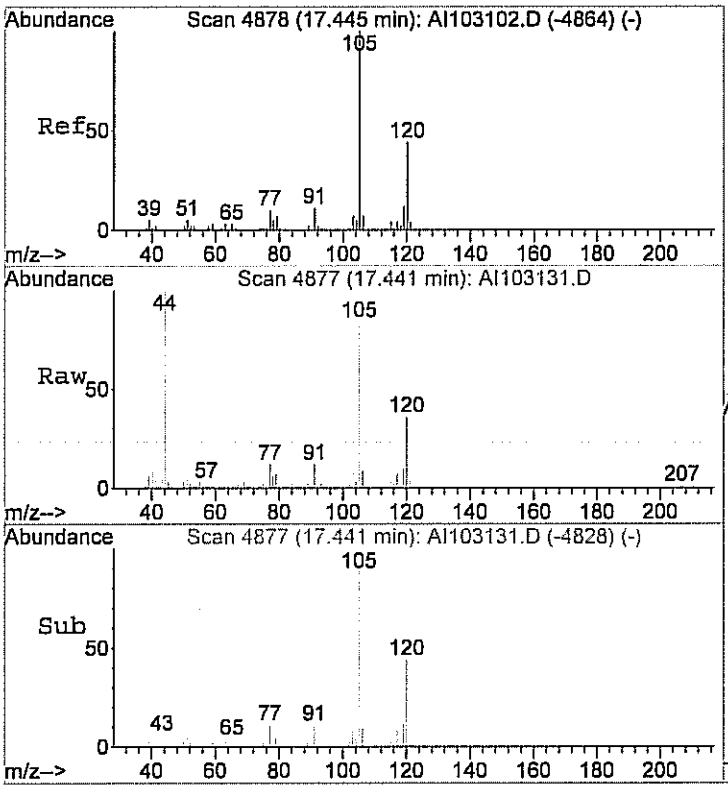


#64
1,3,5-trimethylbenzene
Concen: 0.11 ppb
RT: 17.04 min Scan# 4742
Delta R.T. 0.00 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:105 Resp: 6657

Ion	Ratio	Lower	Upper
105	100		
120	42.8	26.2	66.2

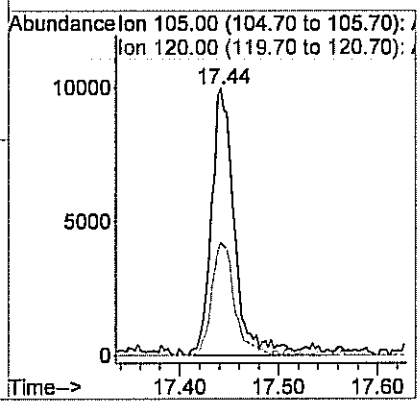




#65
1,2,4-trimethylbenzene
Concen: 0.34 ppb
RT: 17.44 min Scan# 4877
Delta R.T. -0.00 min
Lab File: AI103131.D
Acq: 1 Nov 2011 2:53 am

Tgt Ion:105 Resp: 16580

Ion	Ratio	Lower	Upper
105	100		
120	40.5	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103141.D Vial: 48
Acq On : 1 Nov 2011 8:10 am Operator: RJP
Sample : C1110054-019A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 08:31:12 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

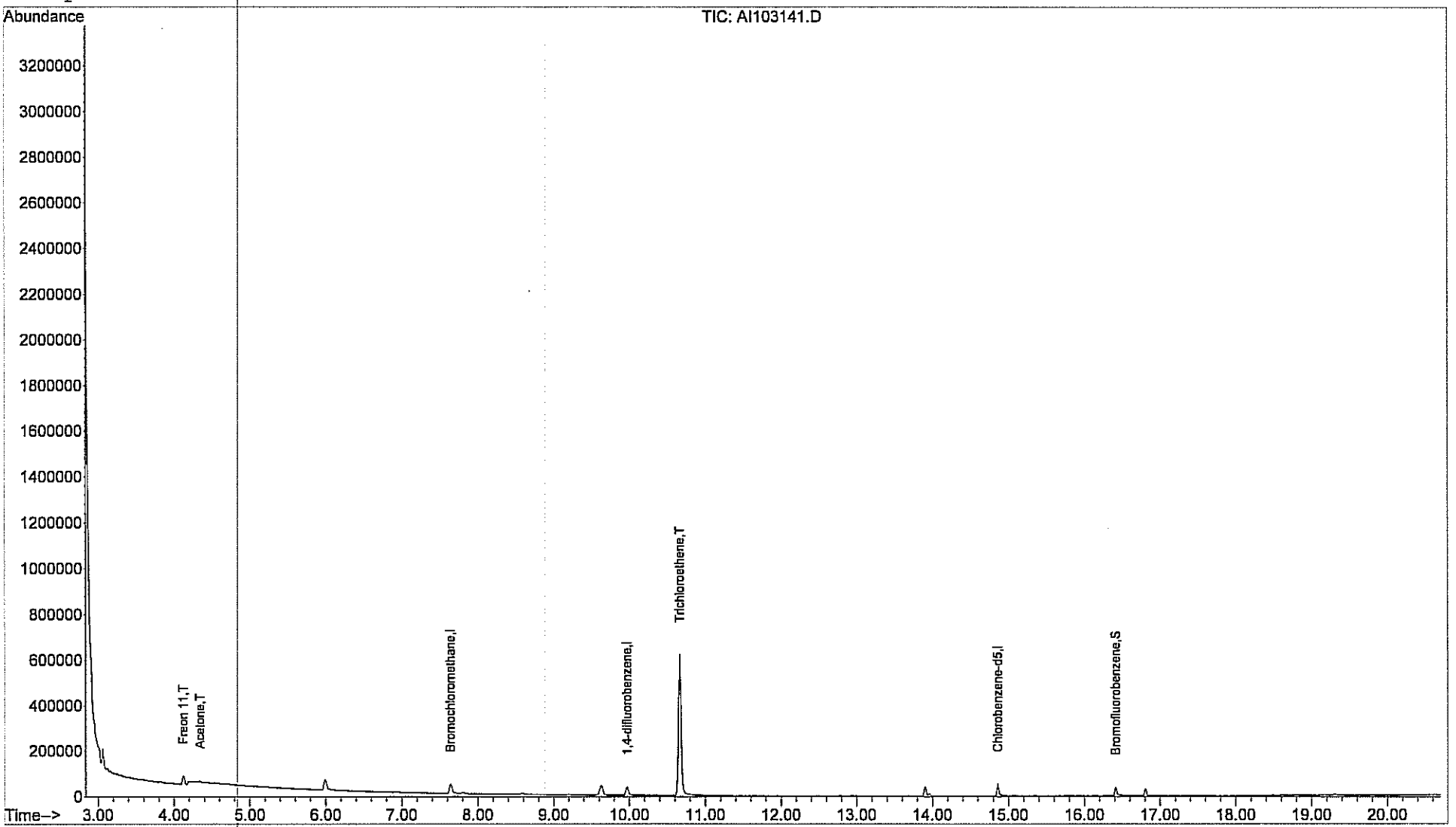
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	17329	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	41812	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	35679	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	14790	0.87	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%				
Target Compounds							Qvalue
13) Freon 11	4.12	101	33718	0.85	ppb		100
14) Acetone	4.34	58	5540	1.10	ppb	#	52
41) Trichloroethene	10.66	130	278396	10.22	ppb		98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

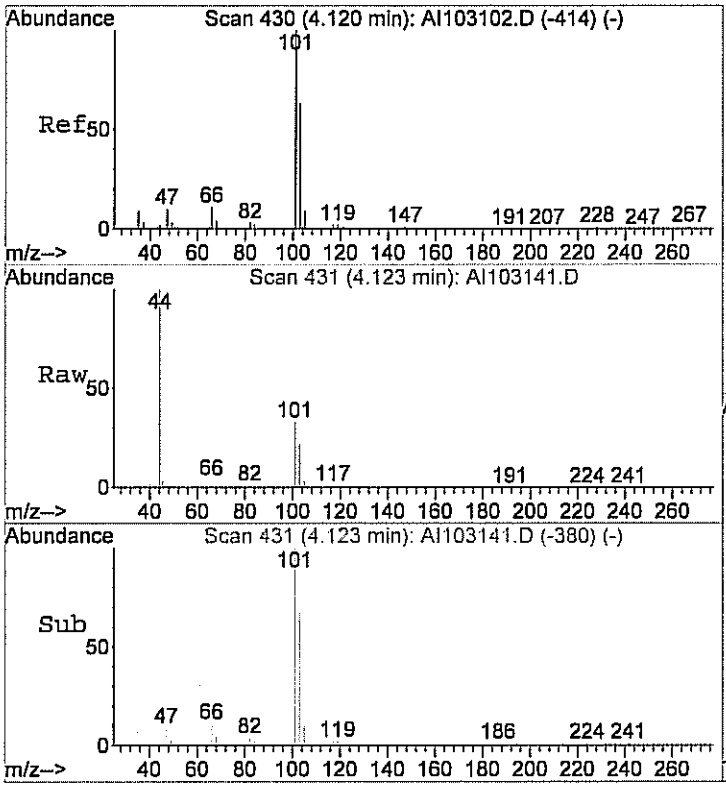
Quantitation Report (Qt Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103141.D Vial: 48
Acq On : 1 Nov 2011 8:10 am Operator: RJP
Sample : C1110054-019A 10x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:11 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



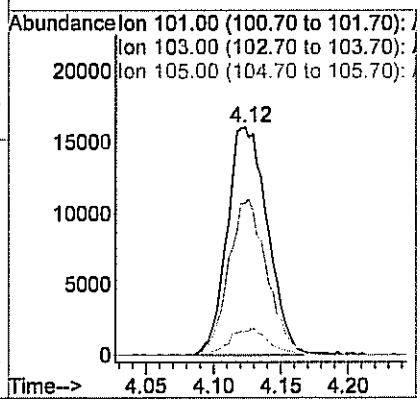
Centek laboratories, LLC

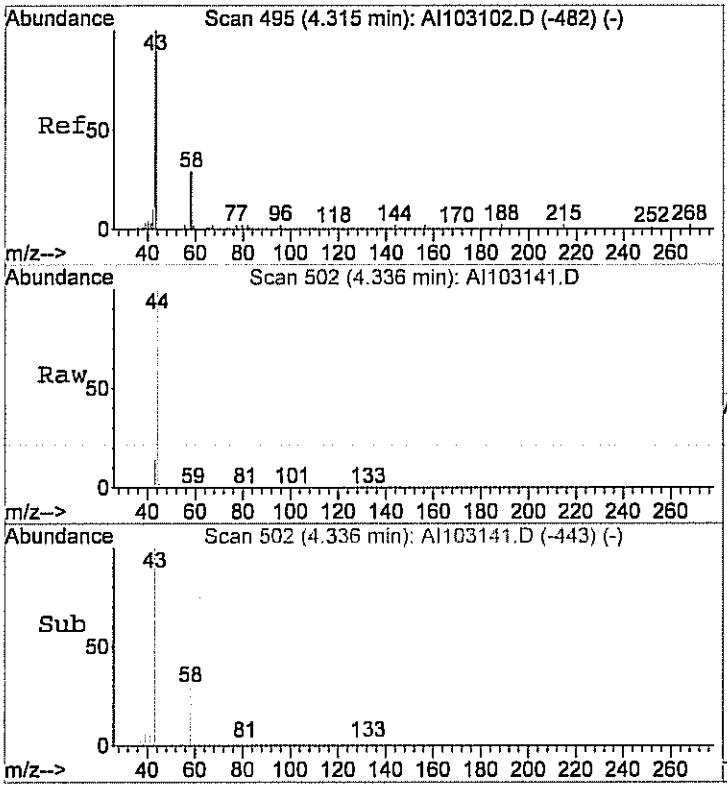


#13
Freon 11
Concen: 0.85 ppb
RT: 4.12 min Scan# 431
Delta R.T. 0.00 min
Lab File: AI103141.D
Acq: 1 Nov 2011 8:10 am

Tgt Ion:101 Resp: 33718

Ion	Ratio	Lower	Upper
101	100		
103	64.9	44.9	84.9
105	11.2	0.0	30.9

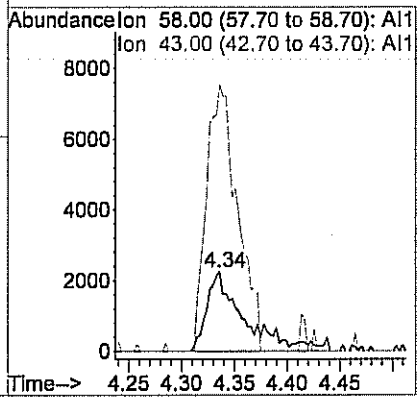


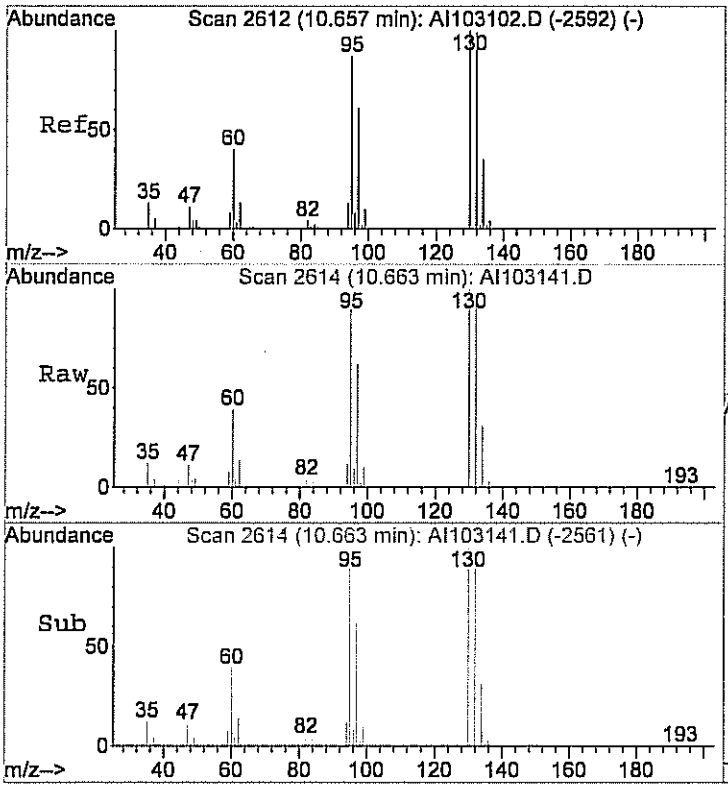


#14
Acetone
Concen: 1.10 ppb
RT: 4.34 min Scan# 502
Delta R.T. 0.03 min
Lab File: AI103141.D
Acq: 1 Nov 2011 8:10 am

Tgt Ion: 58 Resp: 5540

Ion	Ratio	Lower	Upper
58	100		
43	278.4	360.8	420.8#

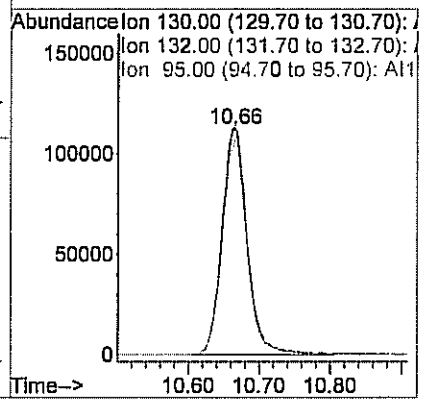




#41
Trichloroethene
Concen: 10.22 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI103141.D
Acq: 1 Nov 2011 8:10 am

Tgt Ion:130 Resp: 278396

Ion	Ratio	Lower	Upper
130	100		
132	98.1	79.0	119.0
95	93.9	76.8	116.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110116.D Vial: 17
Acq On : 1 Nov 2011 8:51 pm Operator: RJP
Sample : C1110054-019A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 21:12:25 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

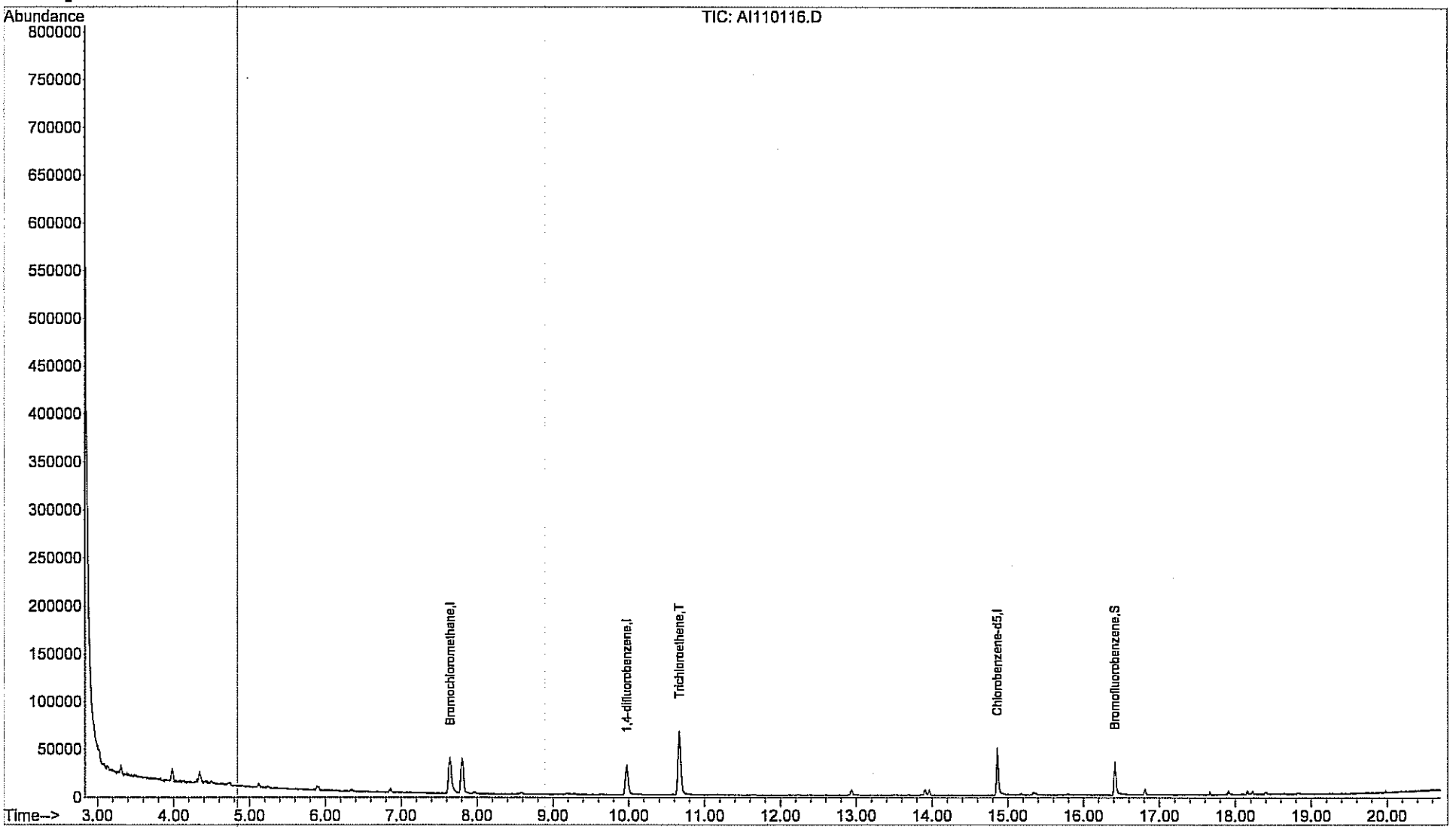
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	17478	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	36814	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	34510	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	13495	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.66	130	31899	1.33	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

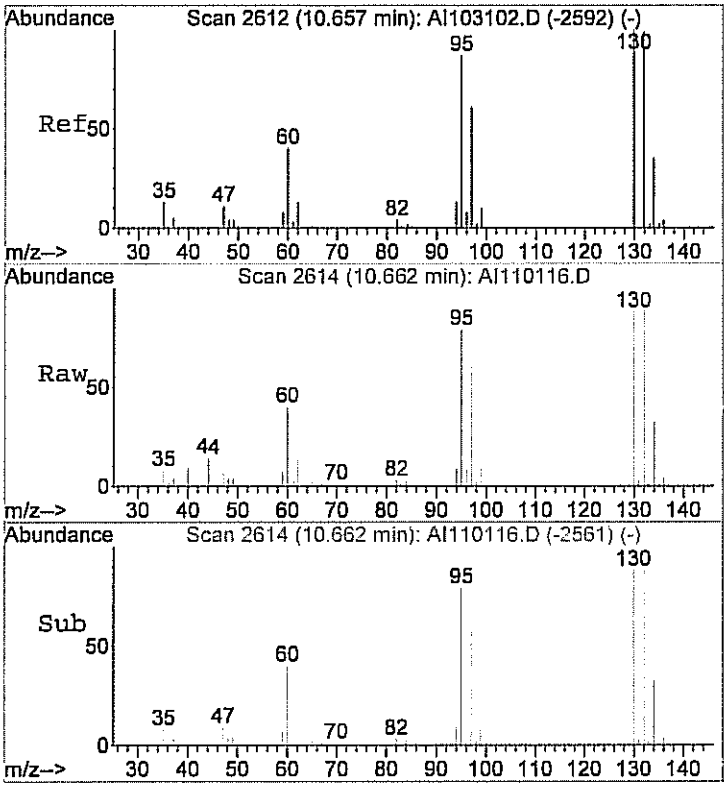
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110116.D Vial: 17
Acq On : 1 Nov 2011 8:51 pm Operator: RJP
Sample : C1110054-019A 90X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:17 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



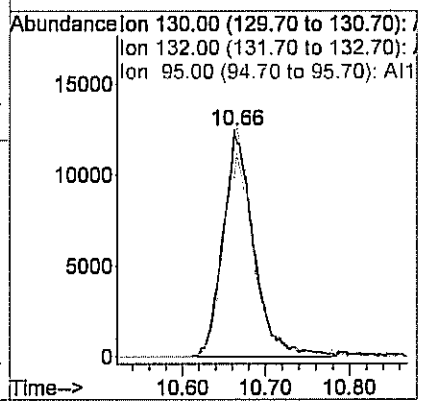
Centek laboratories, LLC



#41
Trichloroethene
Concen: 1.33 ppb
RT: 10.66 min Scan# 2614
Delta R.T. 0.01 min
Lab File: AI110116.D
Acq: 1 Nov 2011 8:51 pm

Tgt Ion:130 Resp: 31899

Ion	Ratio	Lower	Upper
130	100		
132	99.7	79.0	119.0
95	94.8	76.8	116.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Acetone	4.5	1.5		ppbV	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 11	4.5	0.75		ppbV	5	11/1/2011 9:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 12	1.5	0.15		ppbV	1	11/1/2011 3:25:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
m&p-Xylene	0.23	0.30	J	ppbV	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	4.3	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Toluene	0.27	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Surr: Bromofluorobenzene	102	70-130		%REC	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Acetone	11	3.6		ug/m3	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:25:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:25:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Freon 11	26	4.3		ug/m3	5	11/1/2011 9:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	7.3	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:25:00 AM
m&p-Xylene	1.0	1.3	J	ug/m3	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	13	0.90		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:25:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:25:00 AM
Toluene	1.0	0.57		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103132.D Vial: 11
Acq On : 1 Nov 2011 3:25 am Operator: RJP
Sample : C1110054-020A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 03:46:05 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

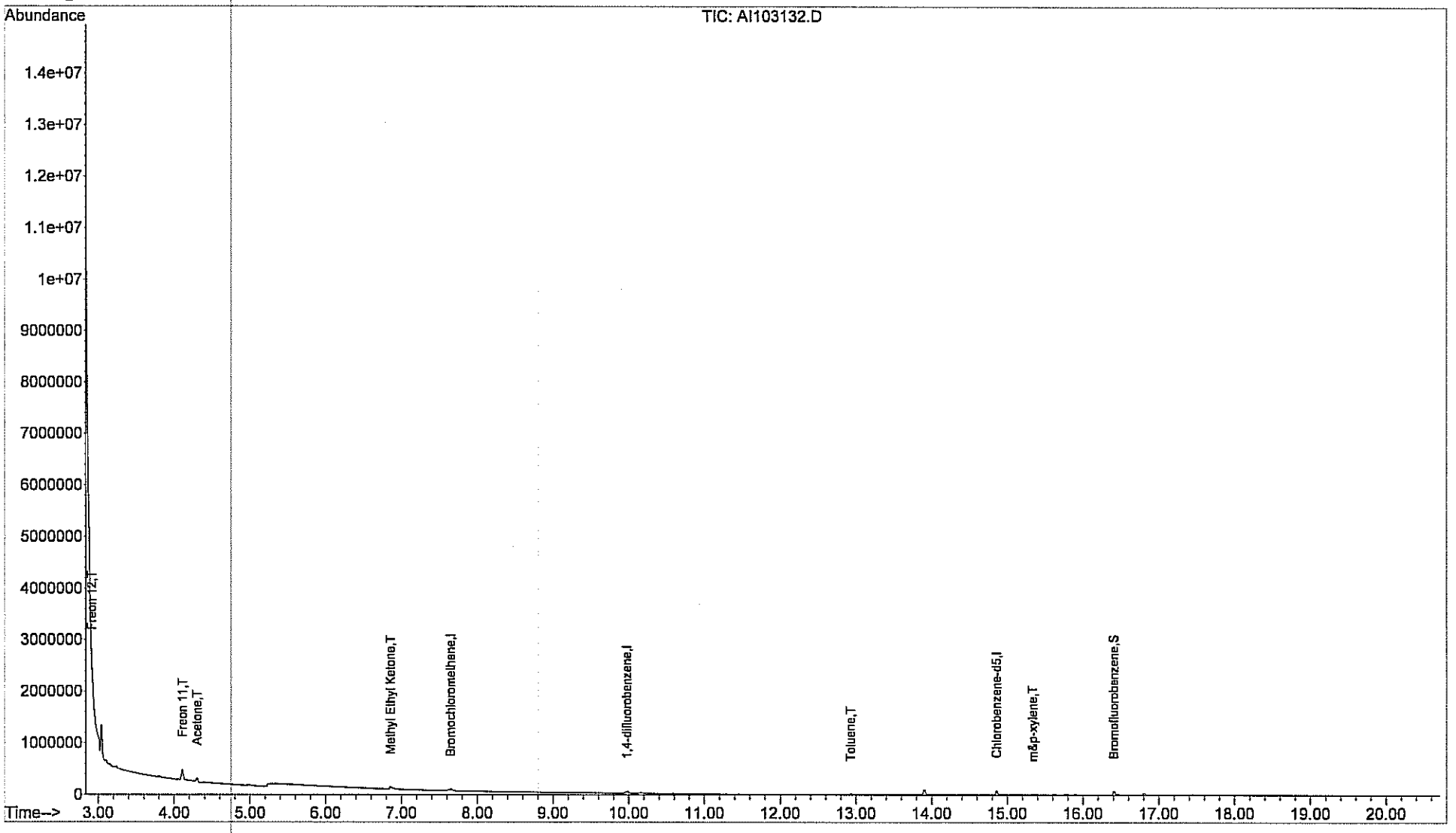
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	19611	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	47847	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	49527	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24030	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	110259	1.46	ppb		99
13) Freon 11	4.11	101	157283	3.52	ppb		99
14) Acetone	4.30	58	28561	5.00	ppb	#	46
25) Methyl Ethyl Ketone	6.86	72	21149	4.29	ppb	#	100
48) Toluene	12.92	92	8368	0.27	ppb		94
56) m&p-xylene	15.34	91	11685	0.23	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

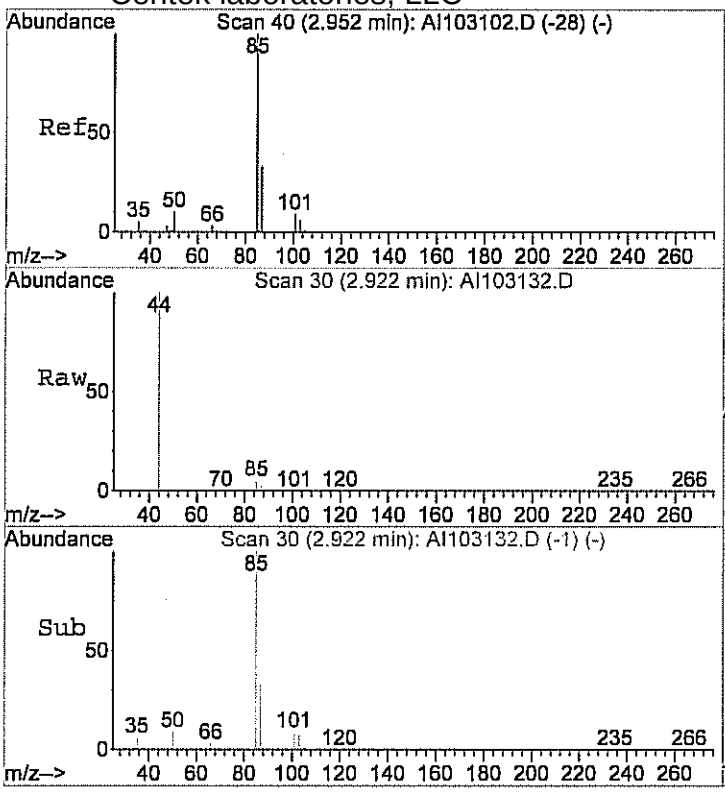
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103132.D Vial: 11
Acq On : 1 Nov 2011 3:25 am Operator: RJP
Sample : C1110054-020A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:33 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



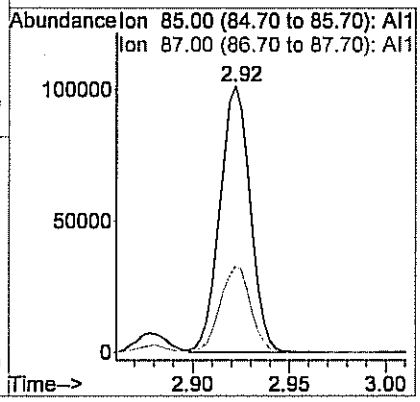
Centek laboratories, LLC

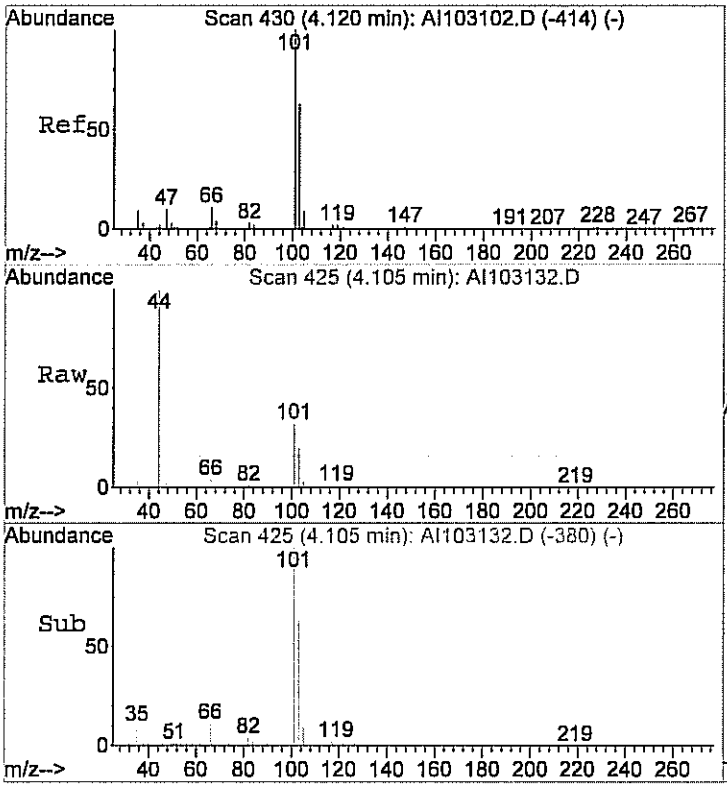


#3
Freon 12
Concen: 1.46 ppb
RT: 2.92 min Scan# 30
Delta R.T. -0.03 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion: 85 Resp: 110259

Ion	Ratio	Lower	Upper
85	100		
87	32.5	12.2	52.2

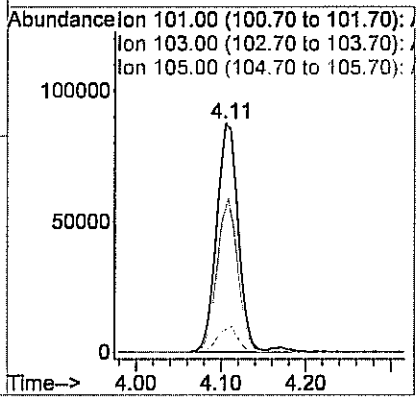


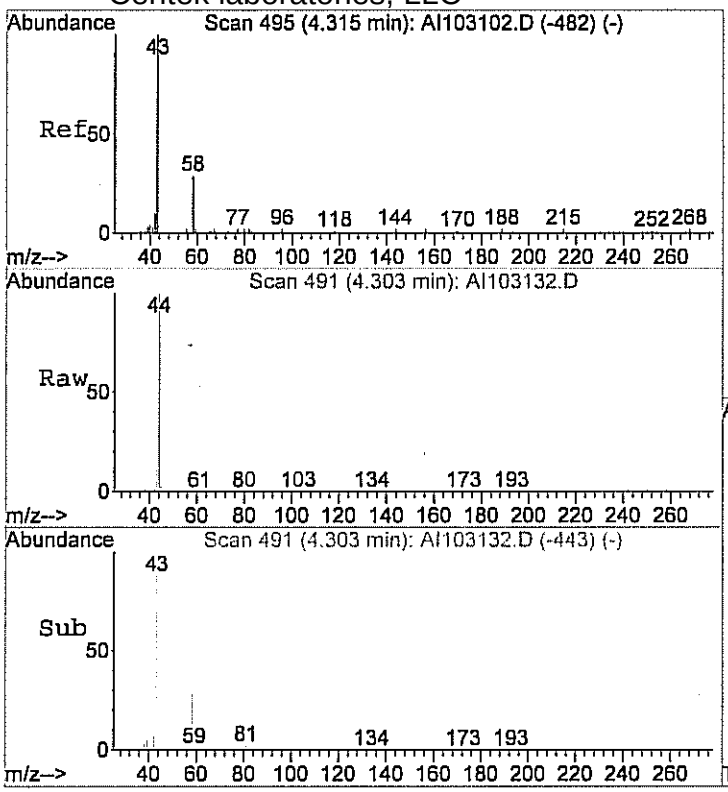


#13
Freon 11
Concen: 3.52 ppb
RT: 4.11 min Scan# 425
Delta R.T. -0.02 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion:101 Resp: 157283

Ion	Ratio	Lower	Upper
101	100		
103	65.4	44.9	84.9
105	10.8	0.0	30.9

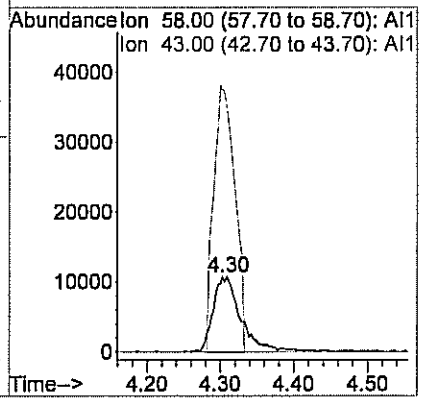


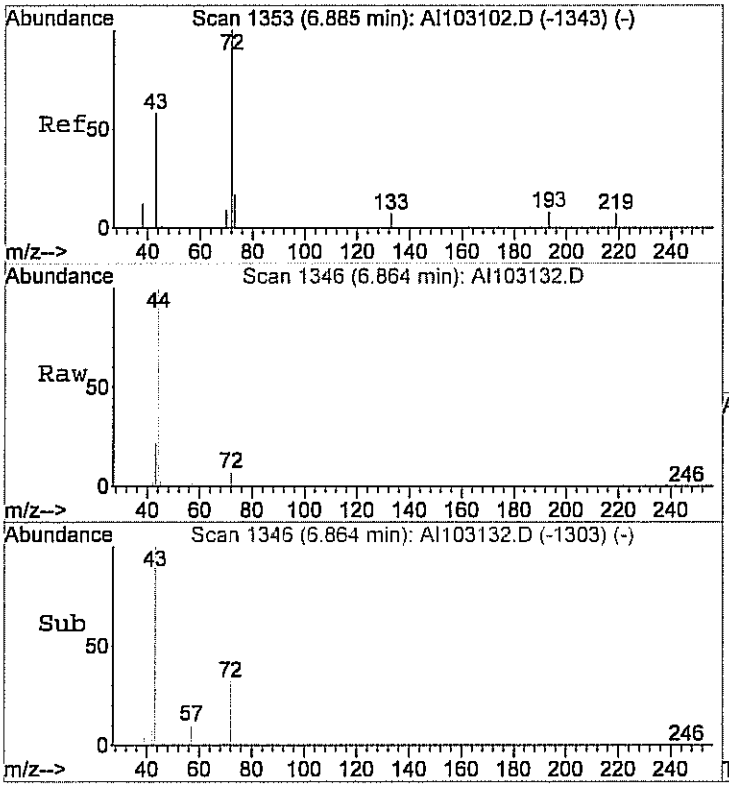


#14
Acetone
Concen: 5.00 ppb
RT: 4.30 min Scan# 491
Delta R.T. -0.01 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion: 58 Resp: 28561

Ion	Ratio	Lower	Upper
58	100		
43	265.8	360.8	420.8#

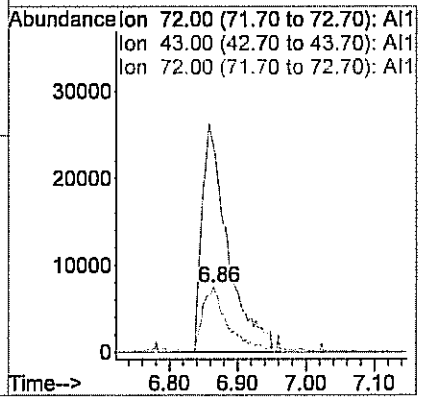


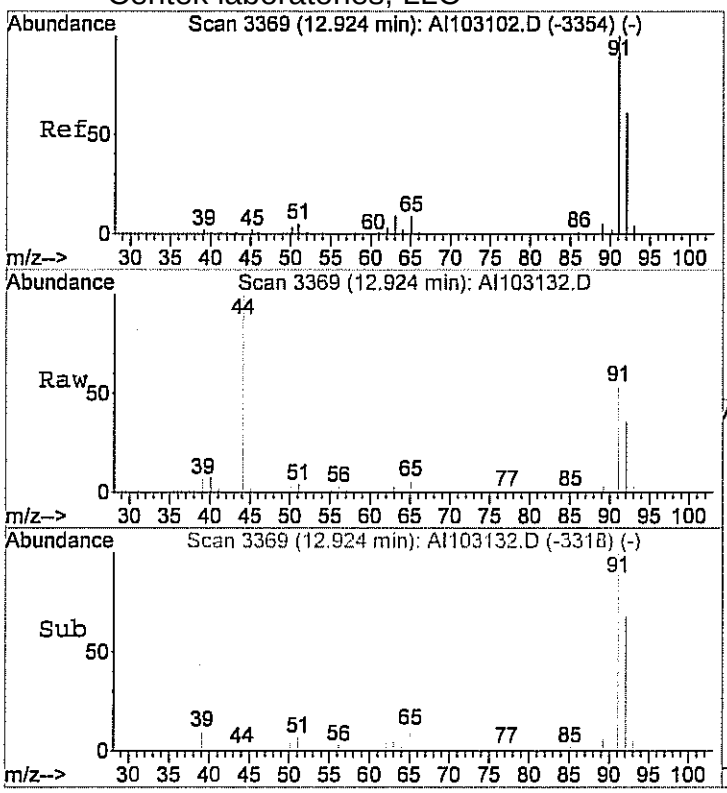


#25
Methyl Ethyl Ketone
Concen: 4.29 ppb
RT: 6.86 min Scan# 1346
Delta R.T. -0.02 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion: 72 Resp: 21149

Ion	Ratio	Lower	Upper
72	100		
43	0.0	0.0	20.0
72	100.0	80.0	120.0

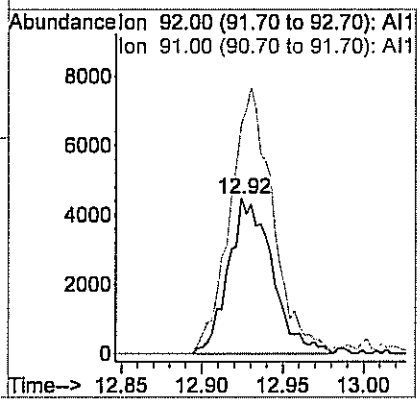


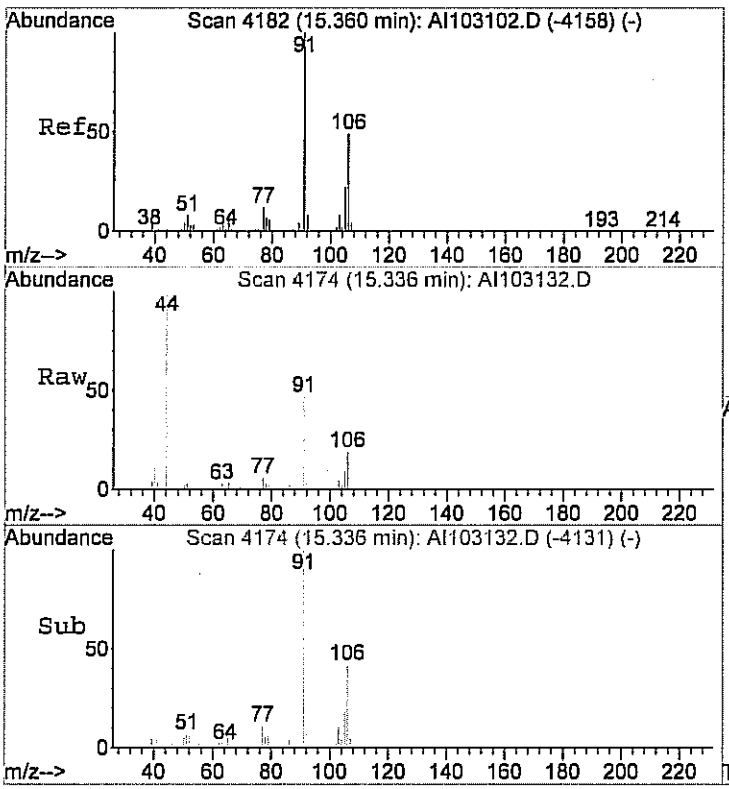


#48
Toluene
Concen: 0.27 ppb
RT: 12.92 min Scan# 3369
Delta R.T. 0.00 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion: 92 Resp: 8368

Ion	Ratio	Lower	Upper
92	100		
91	170.7	159.8	199.8

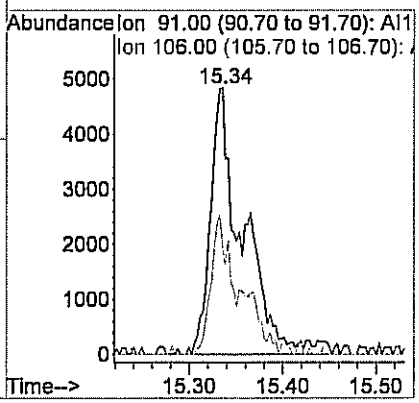




#56
m&p-xylene
Concen: 0.23 ppb
RT: 15.34 min Scan# 4174
Delta R.T. -0.02 min
Lab File: AI103132.D
Acq: 1 Nov 2011 3:25 am

Tgt Ion: 91 Resp: 11685

Ion	Ratio	Lower	Upper
91	100		
106	45.2	27.5	67.5



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103143.D Vial: 50
Acq On : 1 Nov 2011 9:14 am Operator: RJP
Sample : C1110054-020A 5x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 09:35:32 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

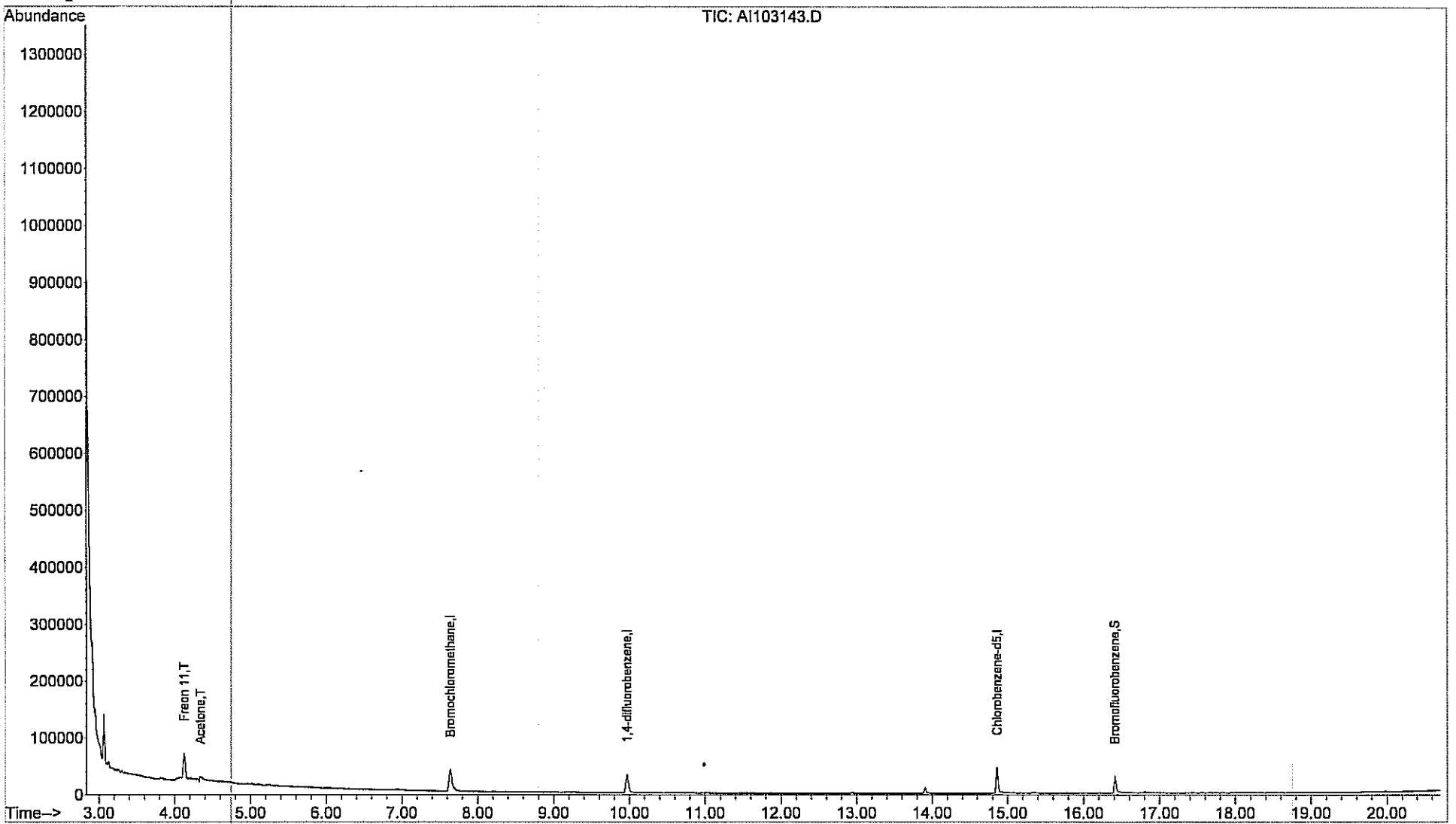
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	17110	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.97	114	38155	1.00	ppb		0.01
47) Chlorobenzene-d5	14.86	117	31802	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	12331	0.81	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%				
Target Compounds							Qvalue
13) Freon 11	4.13	101	35016	0.90	ppb		99
14) Acetone	4.35	58	4467	0.90	ppb	#	51

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103143.D AO30_1UG.M Mon Nov 21 09:00:49 2011 MSD1 Page 1

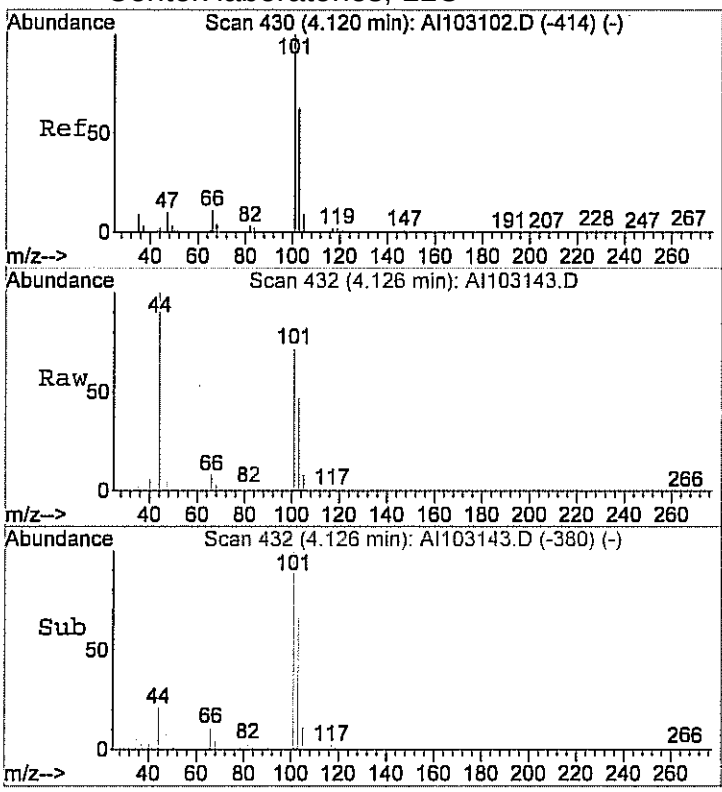
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103143.D Vial: 50
Acq On : 1 Nov 2011 9:14 am Operator: RJP
Sample : C1110054-020A 5x Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:13 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



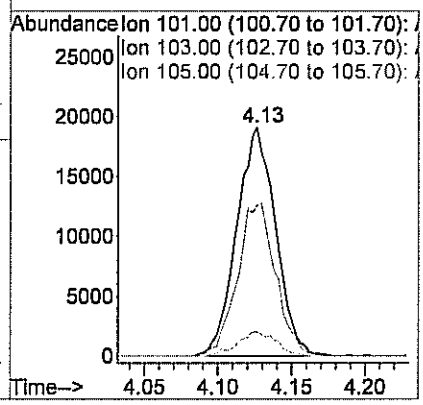
Centek laboratories, LLC

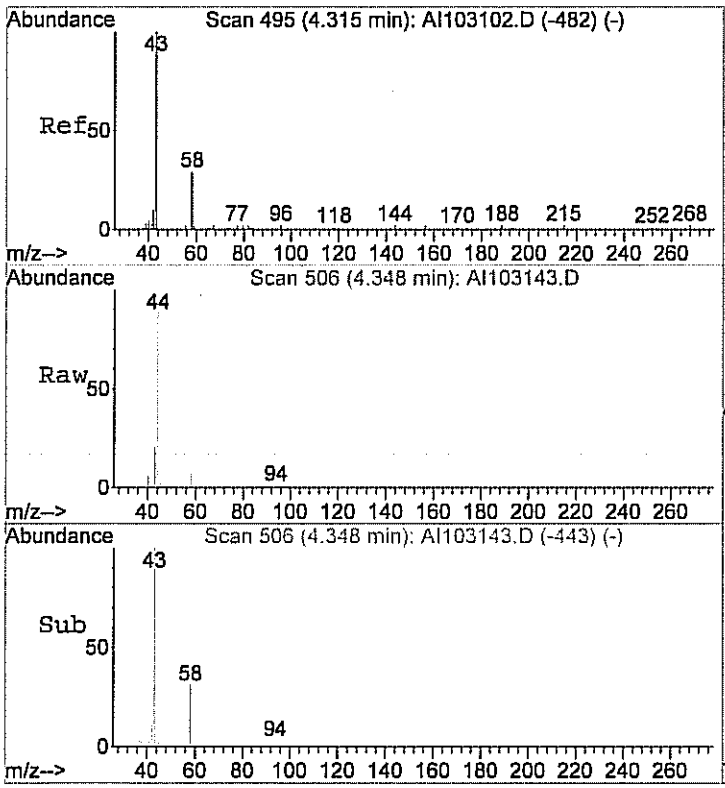


#13
Freon 11
Concen: 0.90 ppb
RT: 4.13 min Scan# 432
Delta R.T. 0.01 min
Lab File: AI103143.D
Acq: 1 Nov 2011 9:14 am

Tgt Ion:101 Resp: 35016

Ion	Ratio	Lower	Upper
101	100		
103	65.5	44.9	84.9
105	10.6	0.0	30.9

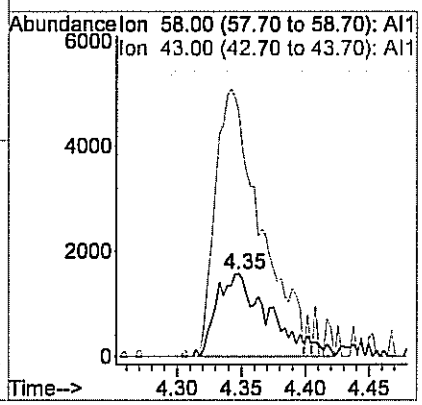




#14
Acetone
Concen: 0.90 ppb
RT: 4.35 min Scan# 506
Delta R.T. 0.04 min
Lab File: AI103143.D
Acq: 1 Nov 2011 9:14 am

Tgt Ion: 58 Resp: 4467

Ion	Ratio	Lower	Upper
58	100		
43	275.4	360.8	420.8#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	0.57	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	6.9	1.5		ppbV	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroform	1.6	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	0.74	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.38	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Heptane	6.3	1.5		ppbV	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
m&p-Xylene	1.4	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
o-Xylene	0.42	0.15		ppbV	1	11/1/2011 3:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	10	1.5		ppbV	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Toluene	1.0	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Trichloroethene	140	40		ppbV	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 3:56:00 AM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT: FPM
Lab Order: C1110054
Project: 1000-08-17
Lab ID: C1110054-021A

Client Sample ID: 785786CA01AC
Tag Number: 457
Collection Date: 10/25/2011
Matrix:

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	1.6	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	2.8	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	33	7.1		ug/m3	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:56:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:56:00 AM
Chloroform	7.8	0.74		ug/m3	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	3.0	0.60		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
Ethylbenzene	1.7	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 3:56:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Heptane	26	6.2		ug/m3	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:56:00 AM
m&p-Xylene	6.0	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:56:00 AM
o-Xylene	1.9	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	72	10		ug/m3	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:56:00 AM
Toluene	3.8	0.57		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Trichloroethene	740	220		ug/m3	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103133.D Vial: 12
Acq On : 1 Nov 2011 3:56 am Operator: RJP
Sample : C1110054-021A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 04:17:32 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

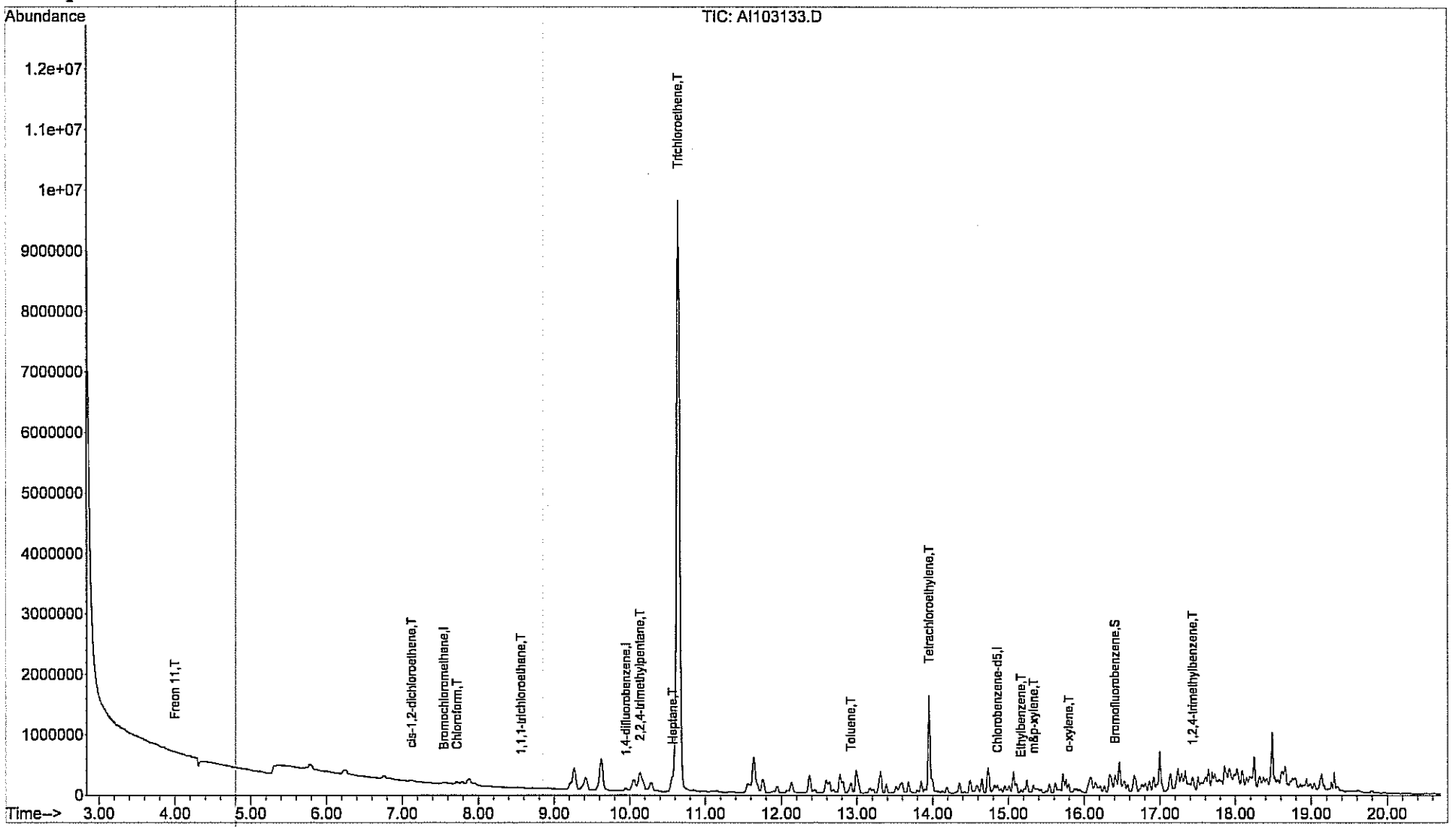
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.54	128	19329	1.00	ppb		-0.08
32) 1,4-difluorobenzene	9.95	114	56711m	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	69666	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	35064m	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
13) Freon 11	4.00	101	11417	0.26	ppb		98
26) cis-1,2-dichloroethene	7.12	61	16636	0.74	ppb		88
29) Chloroform	7.72	83	87266	1.58	ppb		85
33) 1,1,1-trichloroethane	8.56	97	15126	0.29	ppb		98
39) 2,2,4-trimethylpentane	10.14	57	363773	6.32	ppb	#	58
40) Heptane	10.56	43	106738	6.21	ppb		85
41) Trichloroethene	10.65	130	5342414	144.60	ppb		96
48) Toluene	12.92	92	42783	1.00	ppb		94
53) Tetrachloroethylene	13.95	164	396258	7.41	ppb		99
55) Ethylbenzene	15.16	91	32491	0.38	ppb		96
56) m&p-xylene	15.33	91	96450	1.35	ppb		96
59) o-xylene	15.79	91	38396	0.42	ppb		93
65) 1,2,4-trimethylbenzene	17.44	105	36732	0.57	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

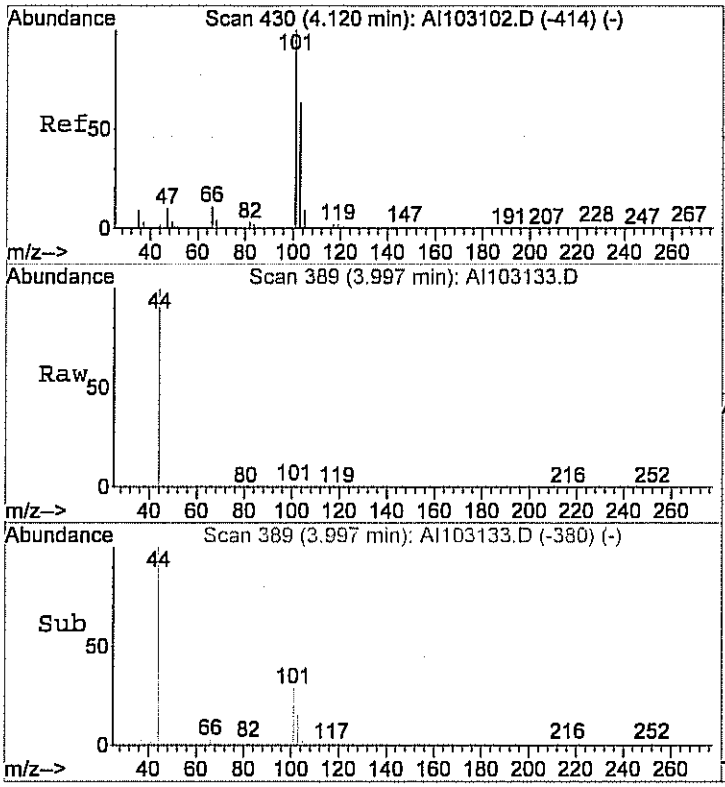
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103133.D Vial: 12
Acq On : 1 Nov 2011 3:56 am Operator: RJP
Sample : C1110054-021A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:47 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



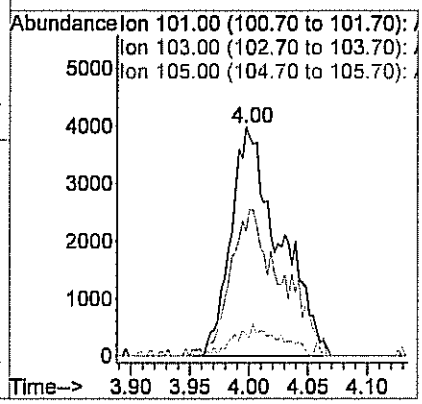
Centek laboratories, LLC

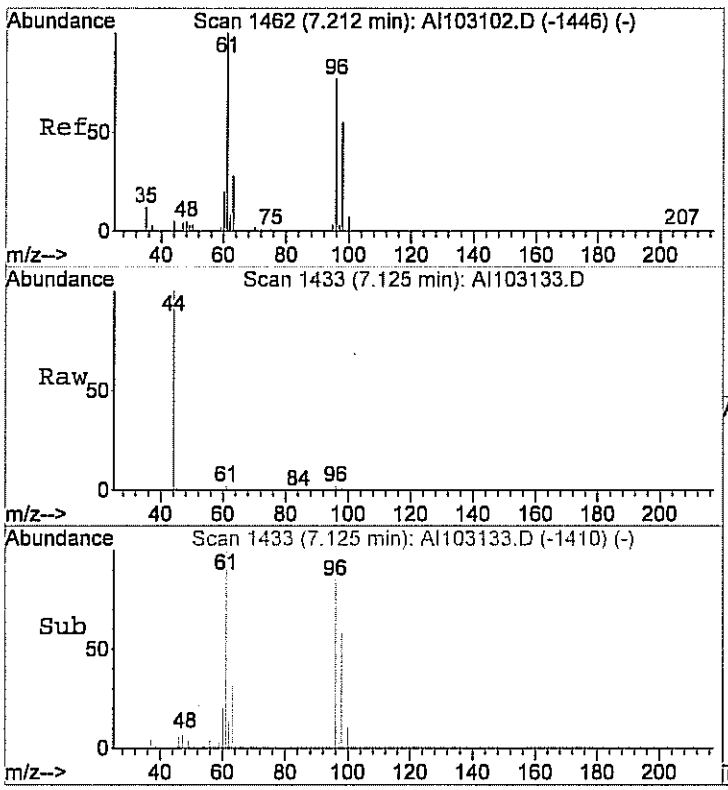


#13
Freon 11
Concen: 0.26 ppb
RT: 4.00 min Scan# 389
Delta R.T. -0.12 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion:101 Resp: 11417

Ion	Ratio	Lower	Upper
101	100		
103	66.6	44.9	84.9
105	12.0	0.0	30.9

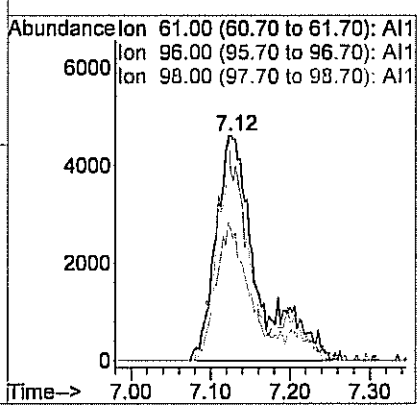


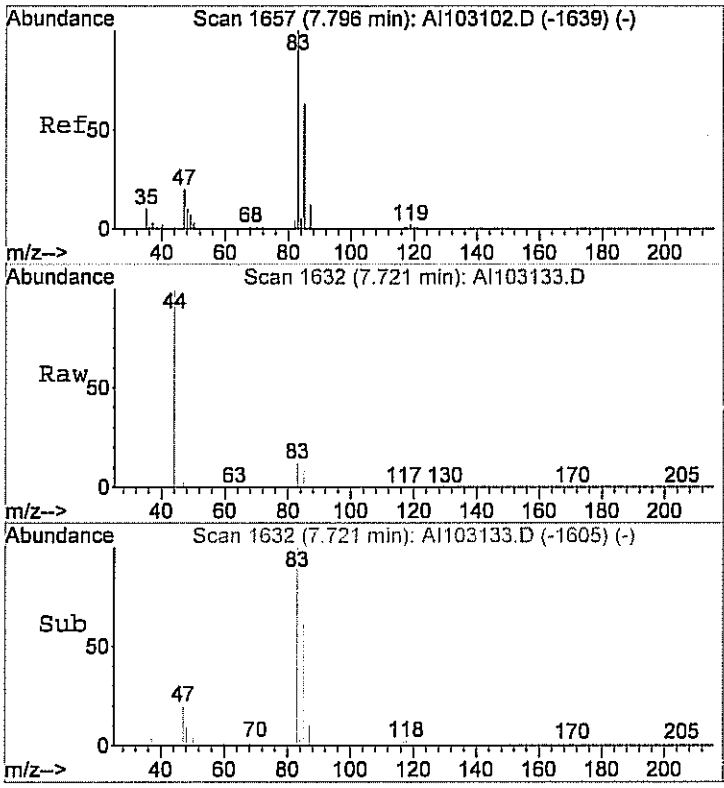


#26
cis-1,2-dichloroethene
Concen: 0.74 ppb
RT: 7.12 min Scan# 1433
Delta R.T. -0.08 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 61 Resp: 16636

Ion	Ratio	Lower	Upper
61	100		
96	87.2	56.6	96.6
98	57.6	30.4	70.4

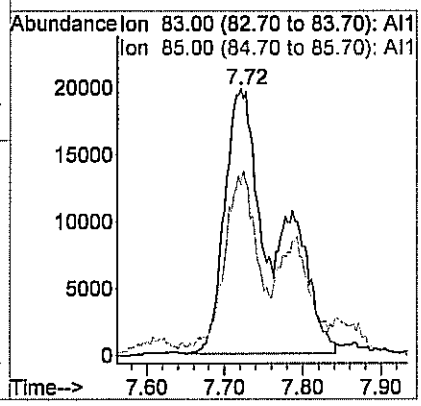


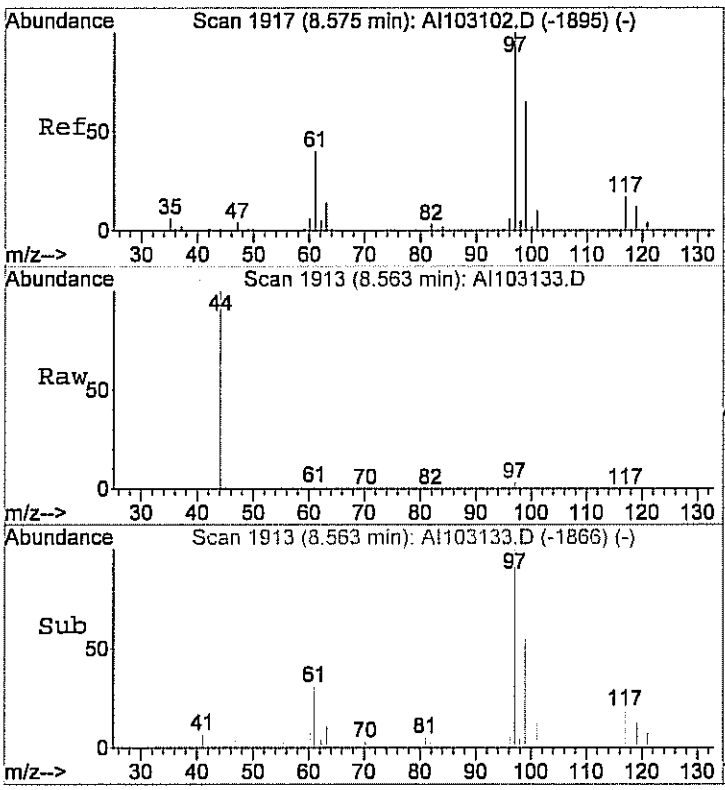


#29
Chloroform
Concen: 1.58 ppb
RT: 7.72 min Scan# 1632
Delta R.T. -0.07 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 83 Resp: 87266

Ion	Ratio	Lower	Upper
83	100		
85	76.9	45.0	85.0

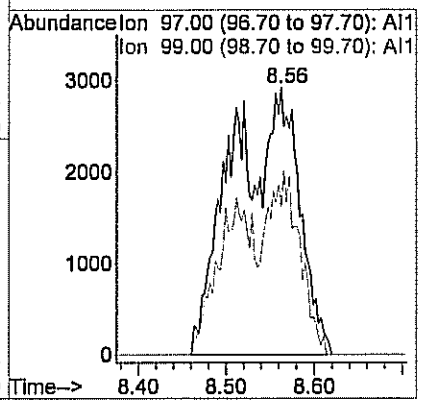


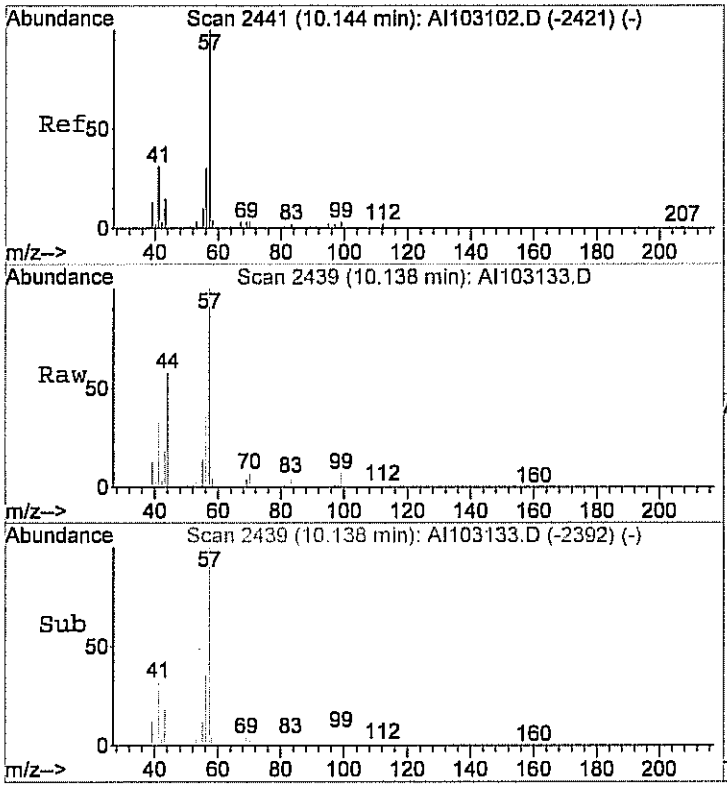


#33
1,1,1-trichloroethane
Concen: 0.29 ppb
RT: 8.56 min Scan# 1913
Delta R.T. -0.01 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 97 Resp: 15126

Ion	Ratio	Lower	Upper
97	100		
99	65.6	43.8	83.8

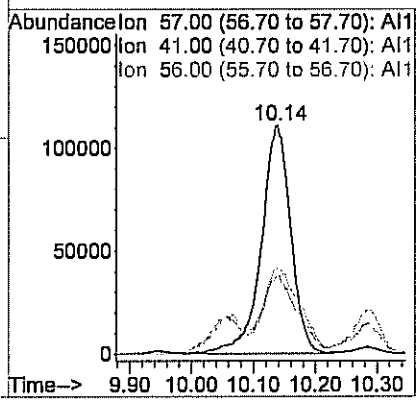


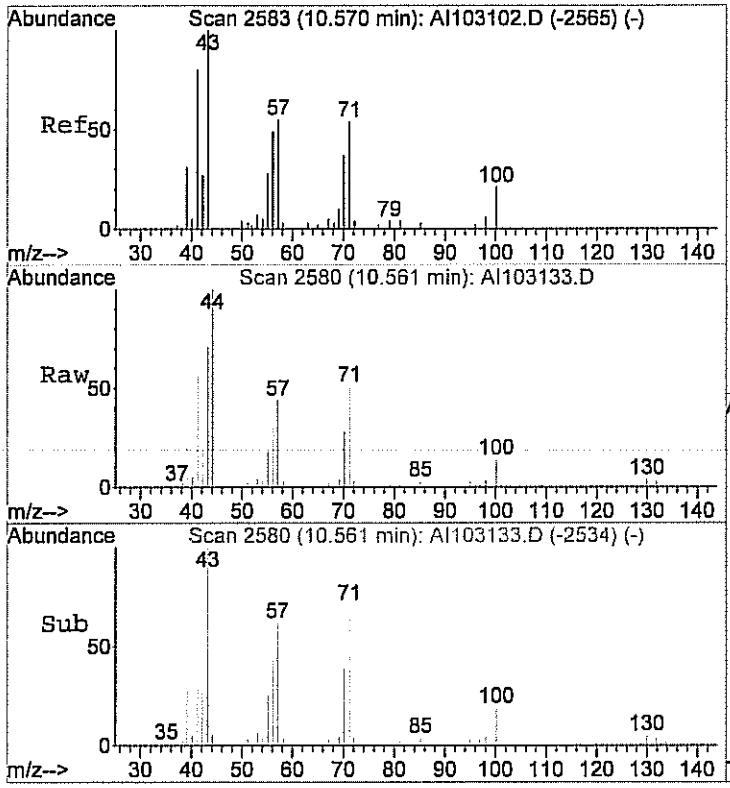


#39
2,2,4-trimethylpentane
Concen: 6.32 ppb
RT: 10.14 min Scan# 2439
Delta R.T. -0.01 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 57 Resp: 363773

Ion	Ratio	Lower	Upper
57	100		
41	56.5	17.9	57.9
56	65.1	13.7	53.7#

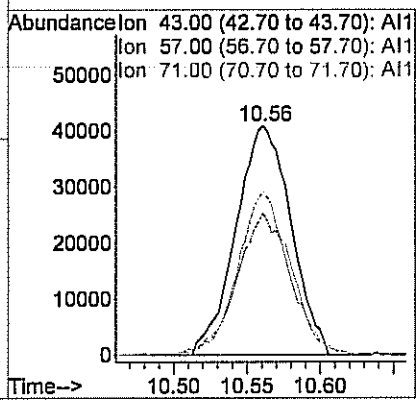


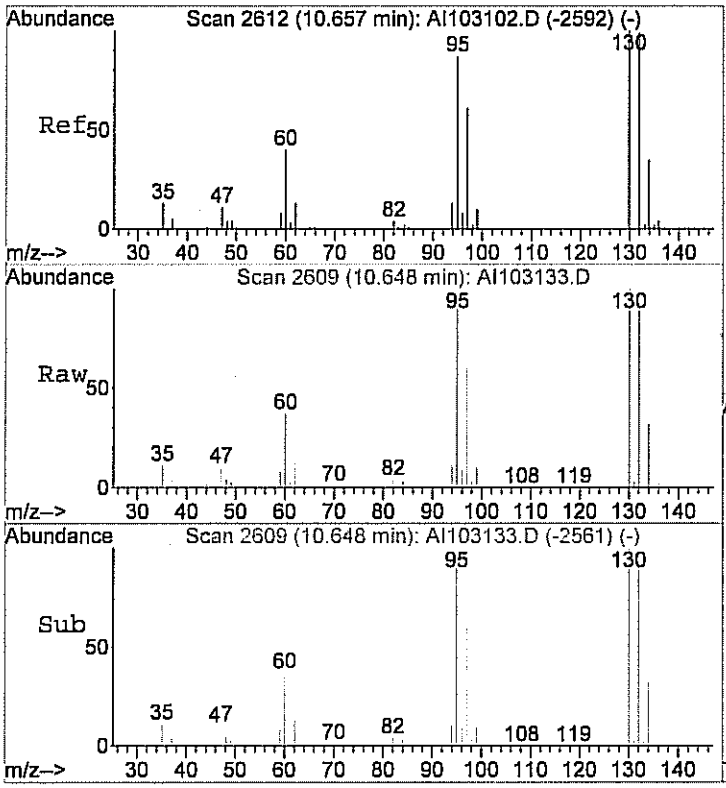


#40
Heptane
Concen: 6.21 ppb
RT: 10.56 min Scan# 2580
Delta R.T. -0.01 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 43 Resp: 106738

Ion	Ratio	Lower	Upper
43	100		
57	60.5	32.1	72.1
71	68.2	35.5	75.5

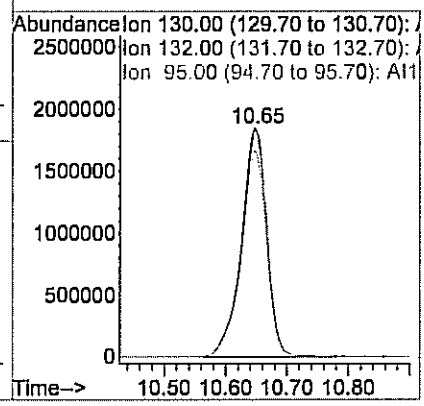


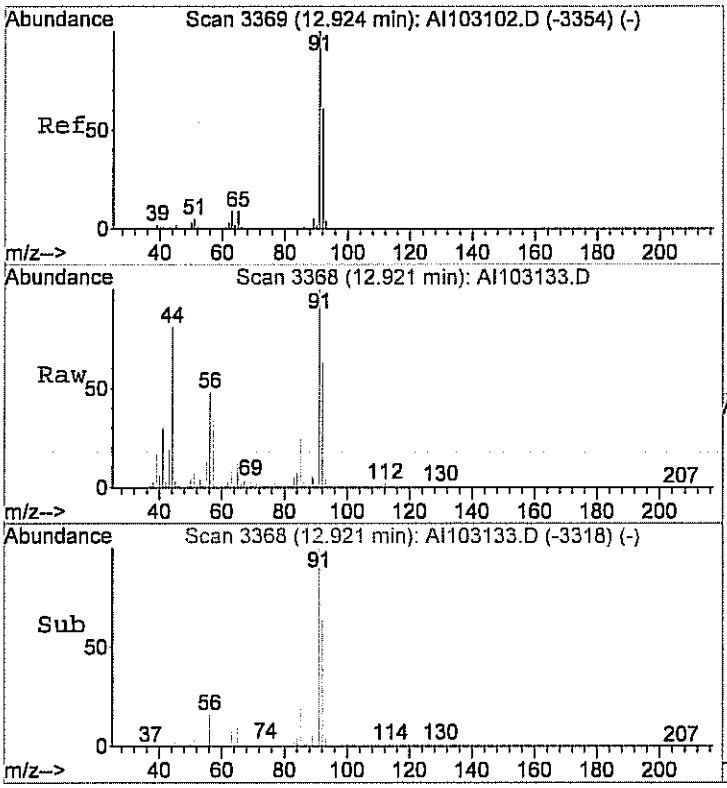


#41
Trichloroethene
Concen: 144.60 ppb
RT: 10.65 min Scan# 2609
Delta R.T. -0.01 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion:130 Resp: 5342414

Ion	Ratio	Lower	Upper
130	100		
132	97.1	79.0	119.0
95	90.6	76.8	116.8

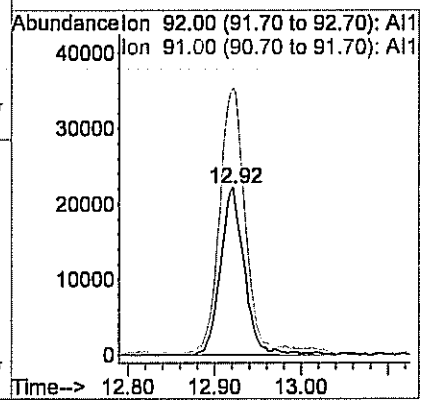


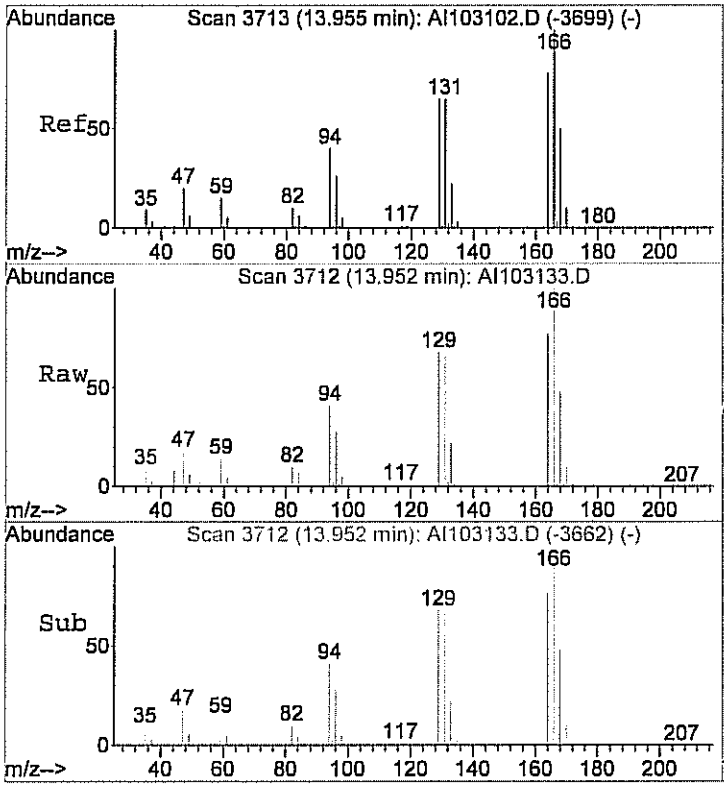


#48
Toluene
Concen: 1.00 ppb
RT: 12.92 min Scan# 3368
Delta R.T. 0.00 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 92 Resp: 42783

Ion	Ratio	Lower	Upper
92	100		
91	171.9	159.8	199.8

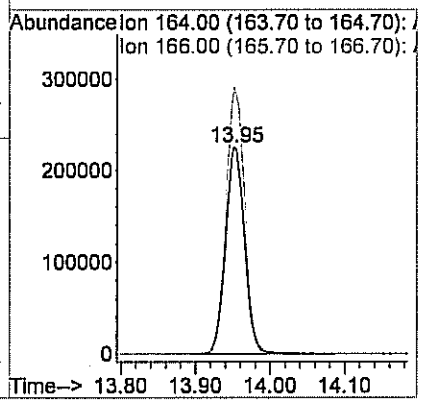


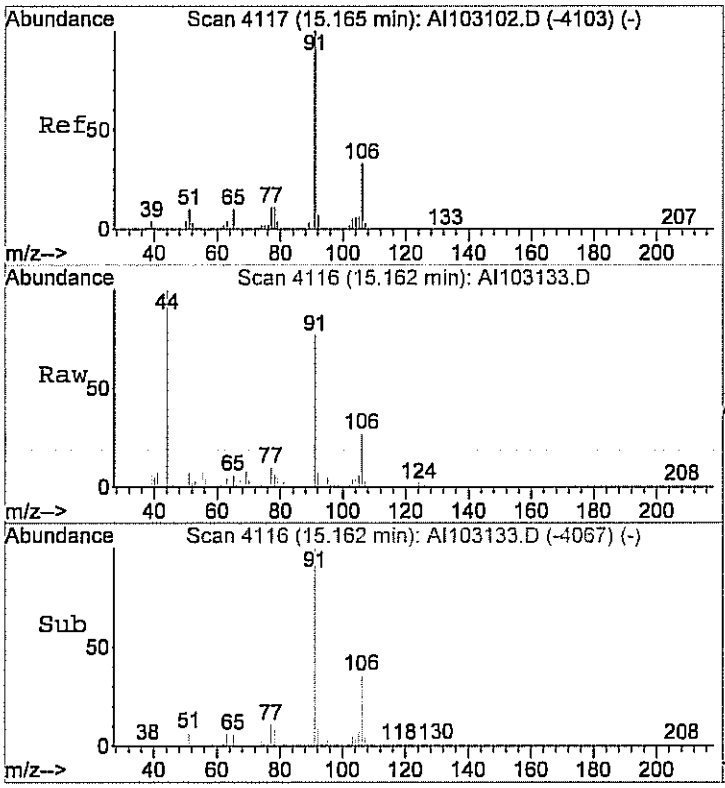


#53
Tetrachloroethylene
Concen: 7.41 ppb
RT: 13.95 min Scan# 3712
Delta R.T. 0.00 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion:164 Resp: 396258

Ion	Ratio	Lower	Upper
164	100		
166	128.6	109.4	149.4

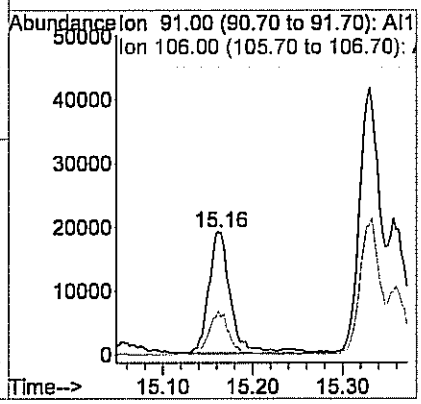


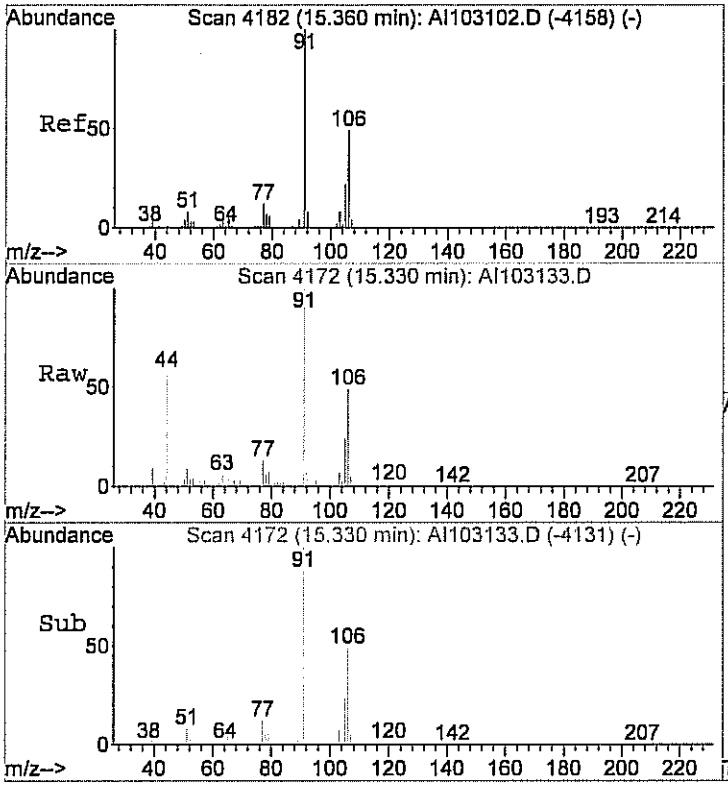


#55
Ethylbenzene
Concen: 0.38 ppb
RT: 15.16 min Scan# 4116
Delta R.T. -0.00 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 91 Resp: 32491

Ion	Ratio	Lower	Upper
91	100		
106	33.0	10.7	50.7

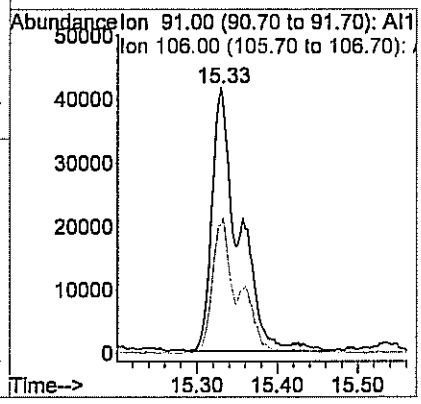


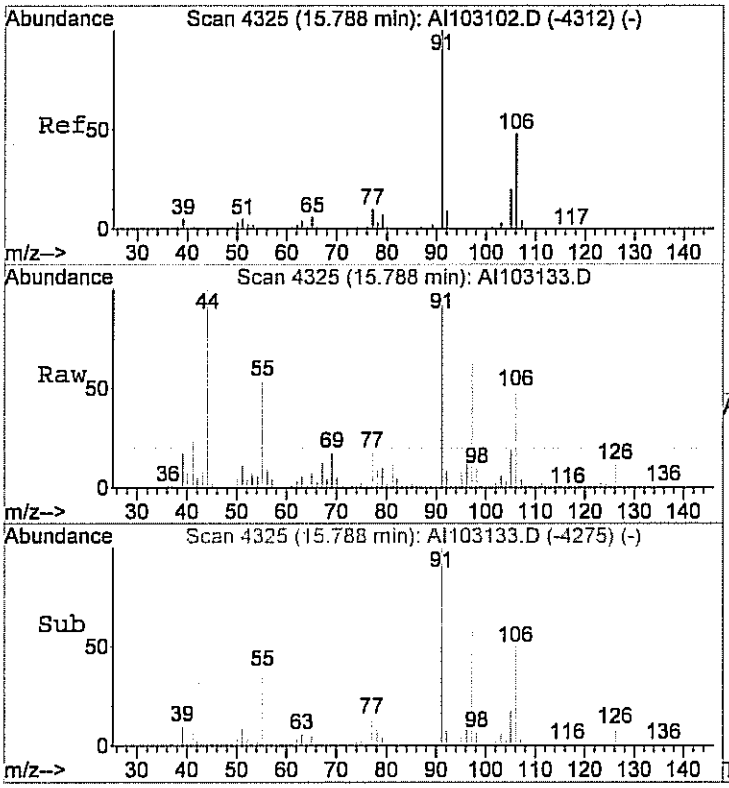


#56
m&p-xylene
Concen: 1.35 ppb
RT: 15.33 min Scan# 4172
Delta R.T. -0.03 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 91 Resp: 96450

Ion	Ratio	Lower	Upper
91	100		
106	50.4	27.5	67.5

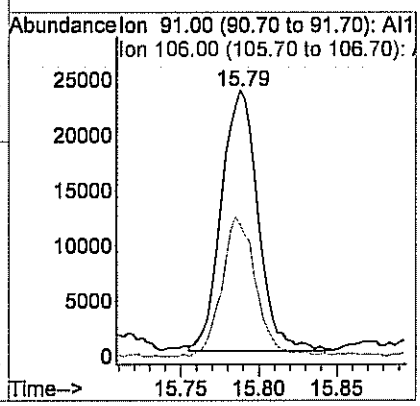


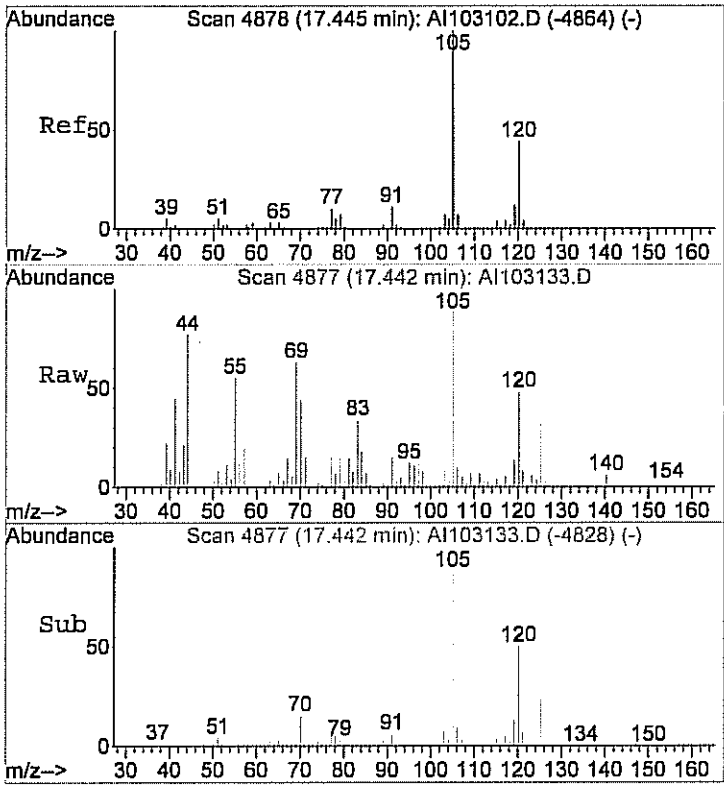


#59
o-xylene
Concen: 0.42 ppb
RT: 15.79 min Scan# 4325
Delta R.T. 0.00 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion: 91 Resp: 38396

Ion	Ratio	Lower	Upper
91	100		
106	51.1	26.2	66.2

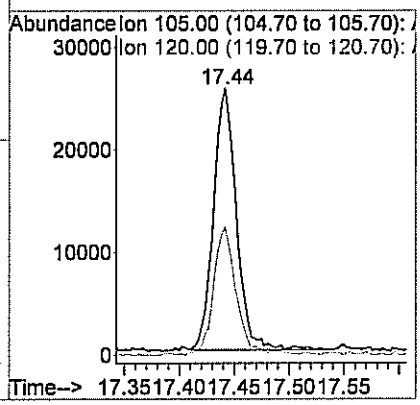




#65
1,2,4-trimethylbenzene
Concen: 0.57 ppb
RT: 17.44 min Scan# 4877
Delta R.T. -0.00 min
Lab File: AI103133.D
Acq: 1 Nov 2011 3:56 am

Tgt Ion:105 Resp: 36732

Ion	Ratio	Lower	Upper
105	100		
120	49.3	25.0	65.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110107.D Vial: 8
Acq On : 1 Nov 2011 3:29 pm Operator: RJP
Sample : C1110054-021A 10X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 15:50:06 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	18720	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	47648	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	51033	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.42	95	26937	1.11	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%			
Target Compounds						Qvalue
39) 2,2,4-trimethylpentane	10.16	57	33181	0.69	ppb	# 32
40) Heptane	10.57	43	9157	0.63	ppb	88
41) Trichloroethene	10.67	130	628280	20.24	ppb	97
53) Tetrachloroethylene	13.96	164	41002	1.05	ppb	99

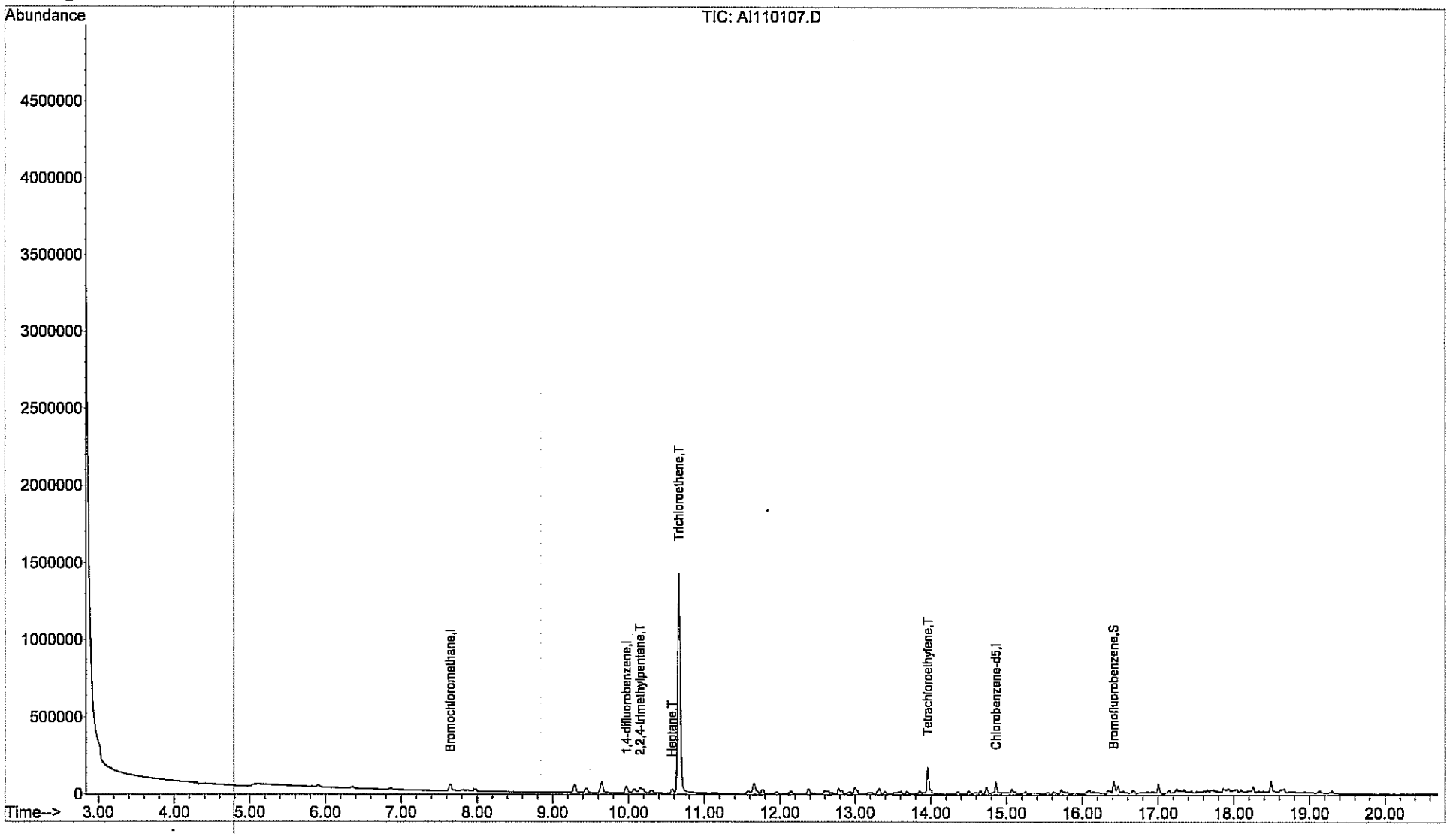
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

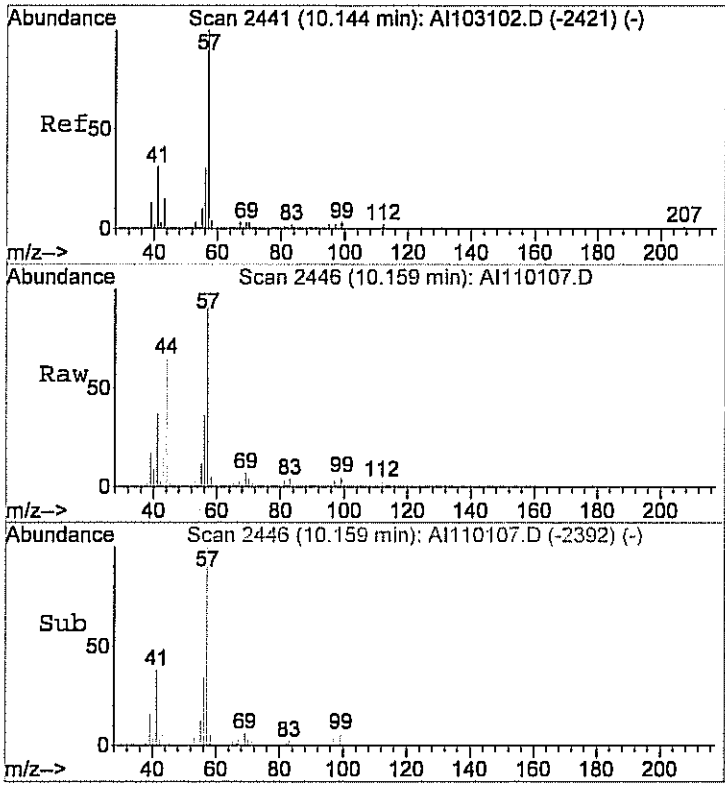
Data File : C:\HPCHEM\1\DATA\AI110107.D
Acq On : 1 Nov 2011 3:29 pm
Sample : C1110054-021A 10X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:14 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



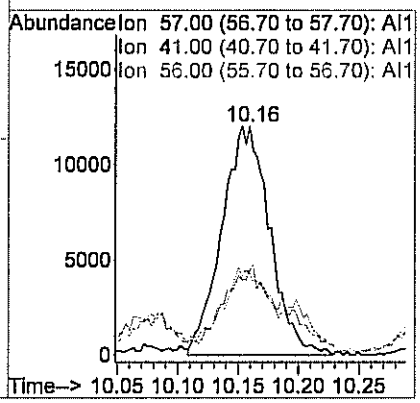
Centek laboratories, LLC

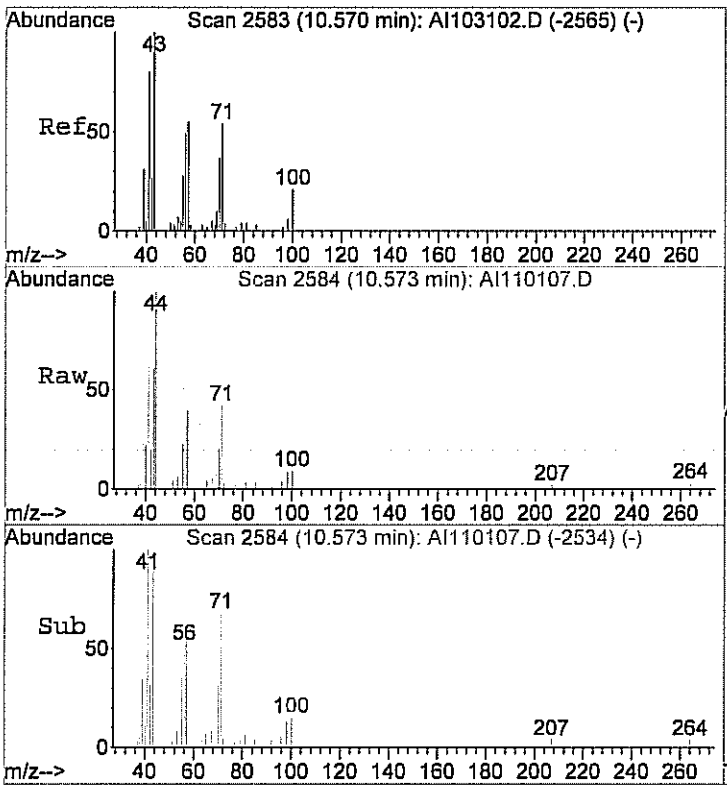


#39
2,2,4-trimethylpentane
Concen: 0.69 ppb
RT: 10.16 min Scan# 2446
Delta R.T. 0.01 min
Lab File: AI110107.D
Acq: 1 Nov 2011 3:29 pm

Tgt Ion: 57 Resp: 33181

Ion	Ratio	Lower	Upper
57	100		
41	73.6	17.9	57.9#
56	77.6	13.7	53.7#

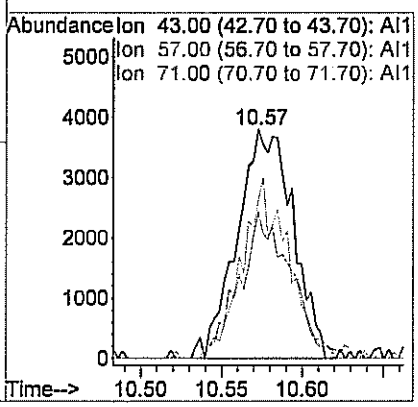


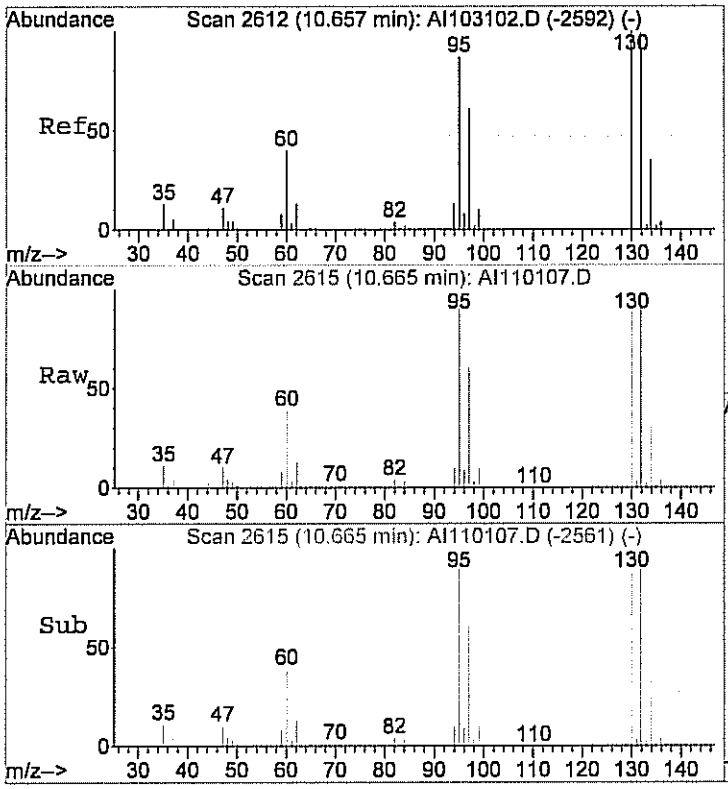


#40
Heptane
Concen: 0.63 ppb
RT: 10.57 min Scan# 2584
Delta R.T. -0.00 min
Lab File: AI110107.D
Acq: 1 Nov 2011 3:29 pm

Tgt Ion: 43 Resp: 9157

Ion	Ratio	Lower	Upper
43	100		
57	60.2	32.1	72.1
71	64.8	35.5	75.5

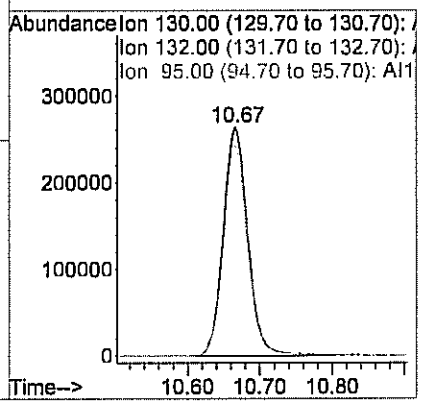


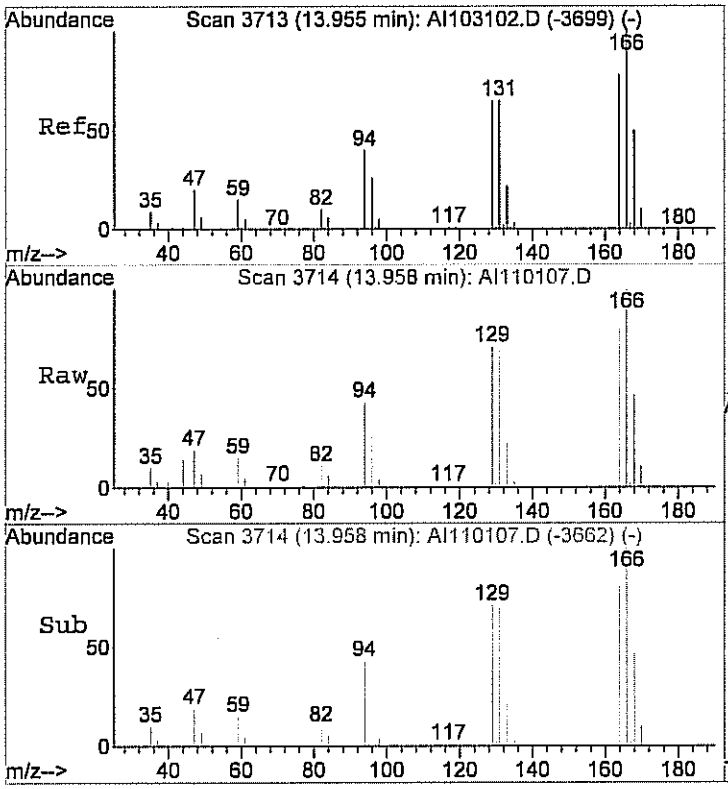


#41
Trichloroethene
Concen: 20.24 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI110107.D
Acq: 1 Nov 2011 3:29 pm

Tgt Ion:130 Resp: 628280

Ion	Ratio	Lower	Upper
130	100		
132	97.3	79.0	119.0
95	93.0	76.8	116.8

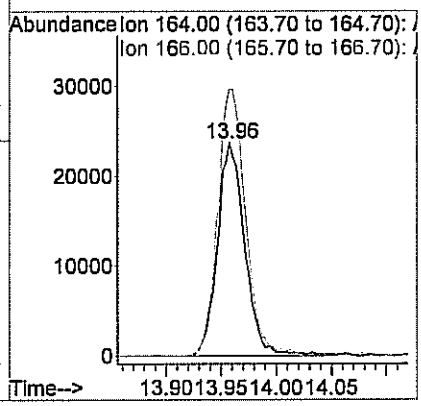




#53
Tetrachloroethylene
Concen: 1.05 ppb
RT: 13.96 min Scan# 3714
Delta R.T. 0.01 min
Lab File: AI110107.D
Acq: 1 Nov 2011 3:29 pm

Tgt Ion:164 Resp: 41002

Ion	Ratio	Lower	Upper
164	100		
166	128.3	109.4	149.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110115.D Vial: 16
Acq On : 1 Nov 2011 8:18 pm Operator: RJP
Sample : C1110054-021A 270X Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 20:39:41 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.65	128	17830	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.97	114	38129	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	33570	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	13449	0.84	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%			
Target Compounds						Qvalue
41) Trichloroethene	10.67	130	12304	0.50	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI110115.D AO30_1UG.M Mon Nov 21 09:01:27 2011 MSD1 Page 1

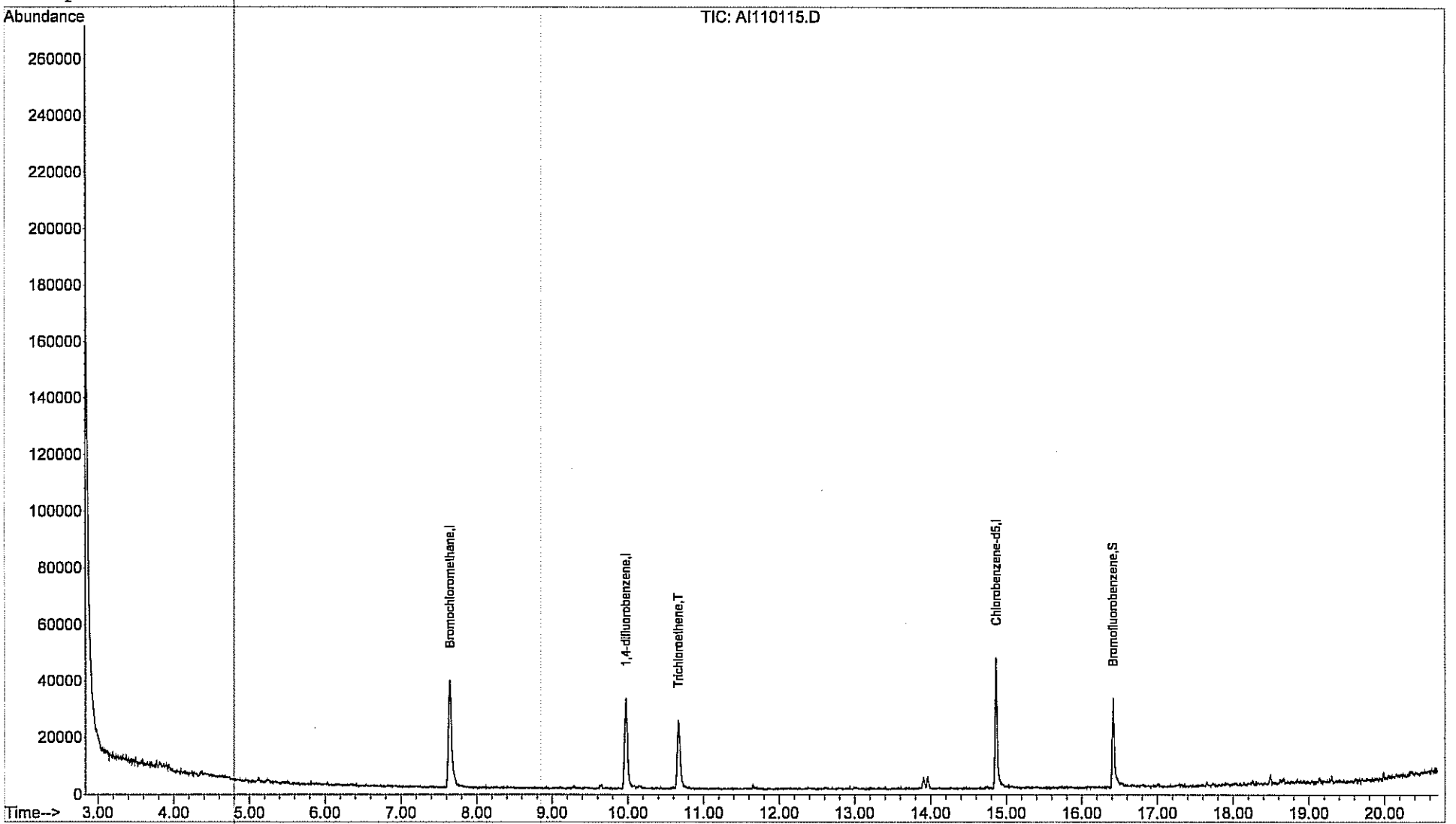
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110115.D
Acq On : 1 Nov 2011 8:18 pm
Sample : C1110054-021A 270X
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:14 2011

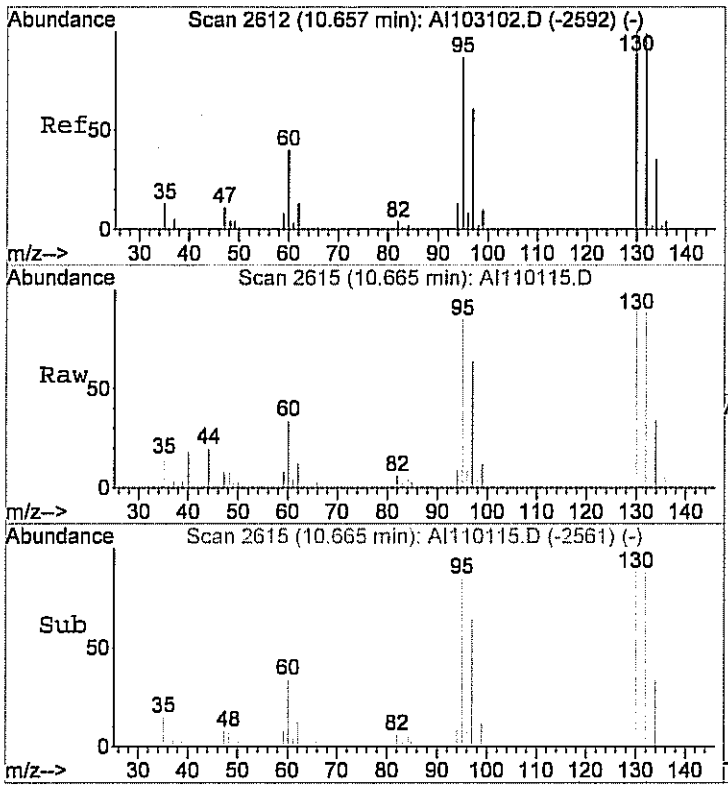
Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



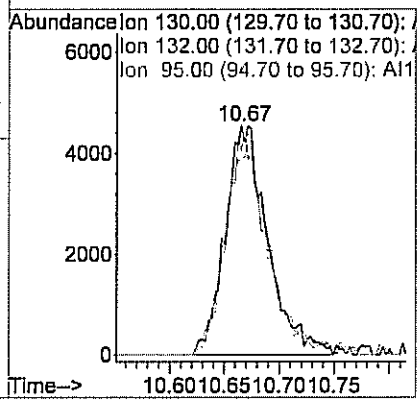
Centek laboratories, LLC



#41
Trichloroethene
Concen: 0.50 ppb
RT: 10.67 min Scan# 2615
Delta R.T. 0.01 min
Lab File: AI110115.D
Acq: 1 Nov 2011 8:18 pm

Tgt Ion:130 Resp: 12304

Ion	Ratio	Lower	Upper
130	100		
132	94.7	79.0	119.0
95	93.3	76.8	116.8



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 11	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
m&p-Xylene	0.58	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
o-Xylene	0.17	0.15		ppbV	1	11/1/2011 4:27:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Toluene	0.50	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Trichloroethene	0.12	0.15	J	ppbV	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 4:27:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 4:27:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Freon 11	1.0	0.86		ug/m3	1	11/1/2011 4:27:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 4:27:00 AM
m&p-Xylene	2.6	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 4:27:00 AM
o-Xylene	0.75	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 4:27:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 4:27:00 AM
Toluene	1.9	0.57		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Trichloroethene	0.66	0.82	J	ug/m3	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103134.D Vial: 41
Acq On : 1 Nov 2011 4:27 am Operator: RJP
Sample : C1110054-022A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 04:48:44 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

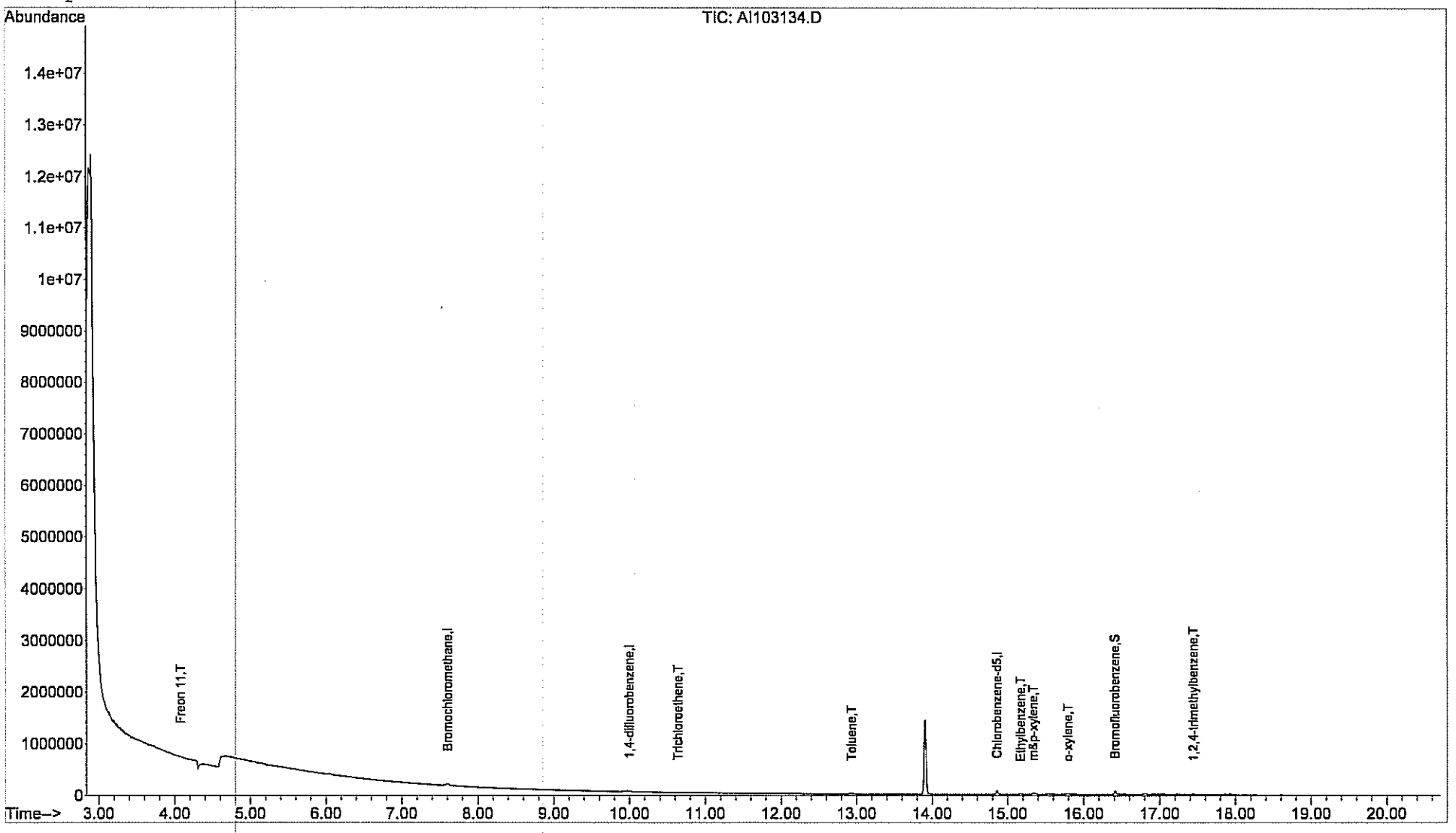
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	18934	1.00	ppb	-0.02
32) 1,4-difluorobenzene	9.99	114	43634	1.00	ppb	0.04
47) Chlorobenzene-d5	14.86	117	46788	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	23563	1.05	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%			
Target Compounds						Qvalue
13) Freon 11	4.07	101	7742	0.18	ppb	95
41) Trichloroethene	10.65	130	3389	0.12	ppb	93
48) Toluene	12.93	92	14415	0.50	ppb	95
55) Ethylbenzene	15.17	91	10426	0.18	ppb	99
56) m&p-xylene	15.33	91	27707	0.58	ppb	99
59) o-xylene	15.79	91	10221	0.17	ppb	94
65) 1,2,4-trimethylbenzene	17.44	105	12115m	0.28	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

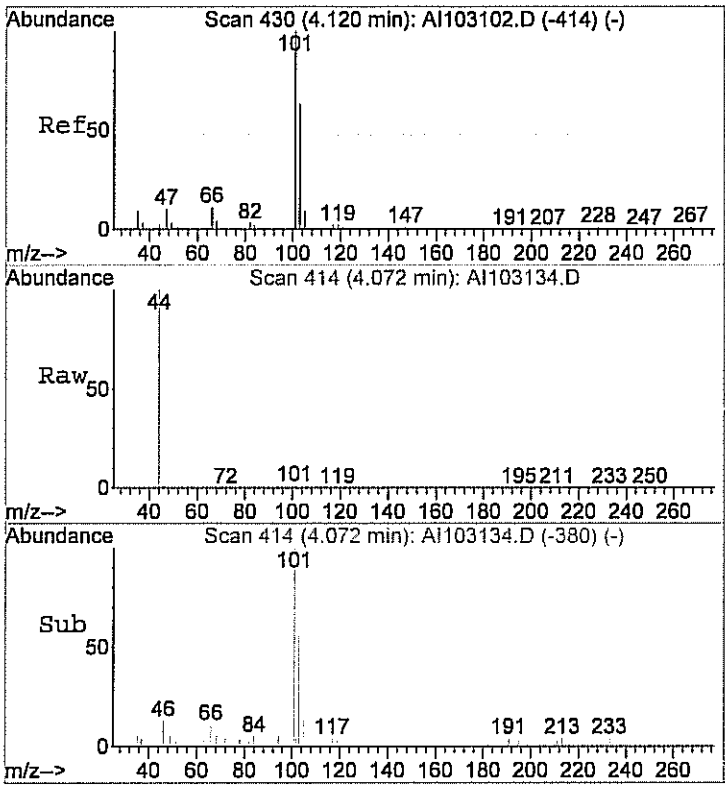
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103134.D Vial: 41
Acq On : 1 Nov 2011 4:27 am Operator: RJP
Sample : C1110054-022A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 12:48 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



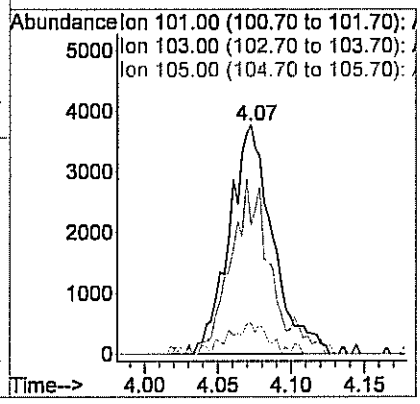
Centek laboratories, LLC

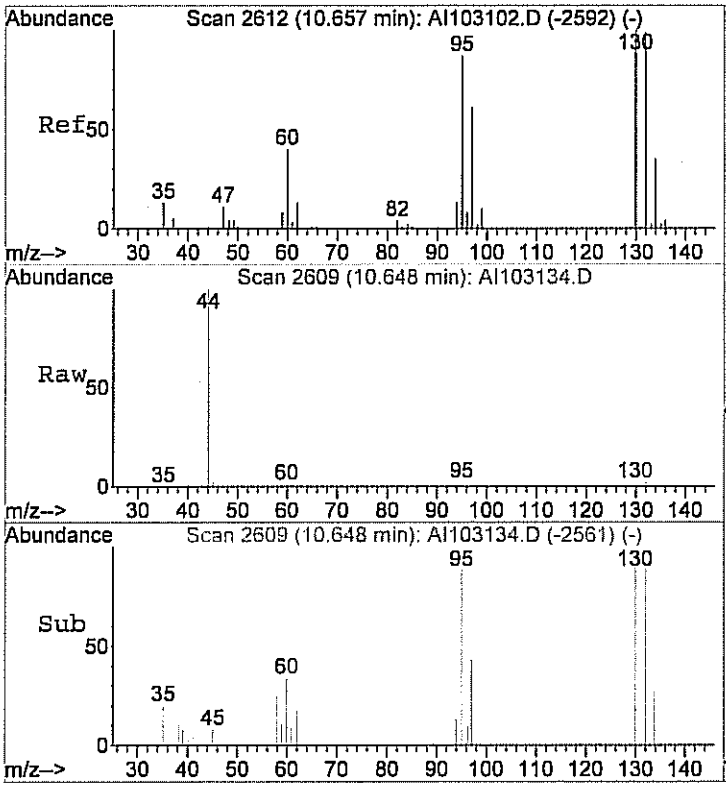


#13
Freon 11
Concen: 0.18 ppb
RT: 4.07 min Scan# 414
Delta R.T. -0.05 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion:101 Resp: 7742

Ion	Ratio	Lower	Upper
101	100		
103	69.2	44.9	84.9
105	12.2	0.0	30.9

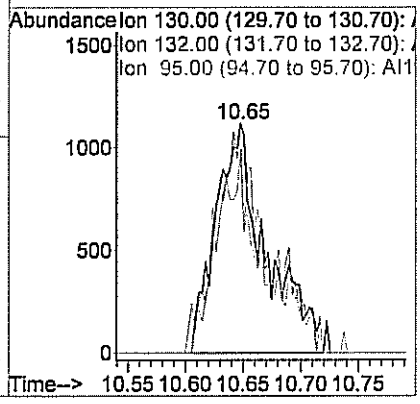


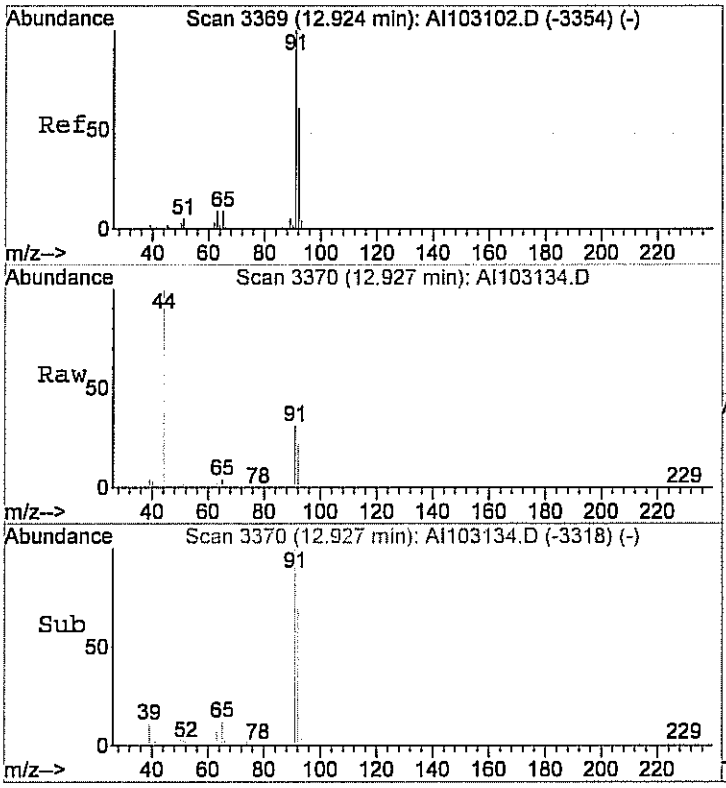


#41
Trichloroethene
Concen: 0.12 ppb
RT: 10.65 min Scan# 2609
Delta R.T. -0.01 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion:130 Resp: 3389

Ion	Ratio	Lower	Upper
130	100		
132	96.6	79.0	119.0
95	85.0	76.8	116.8

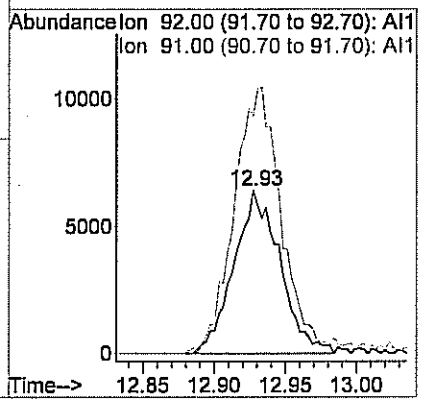


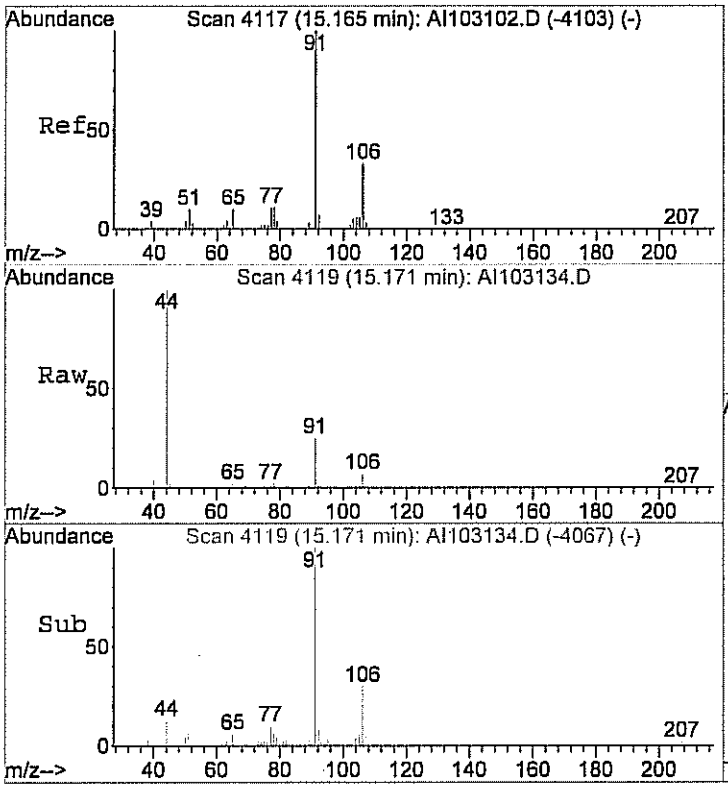


#48
Toluene
Concen: 0.50 ppb
RT: 12.93 min Scan# 3370
Delta R.T. 0.01 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion: 92 Resp: 14415

Ion	Ratio	Lower	Upper
92	100		
91	172.1	159.8	199.8

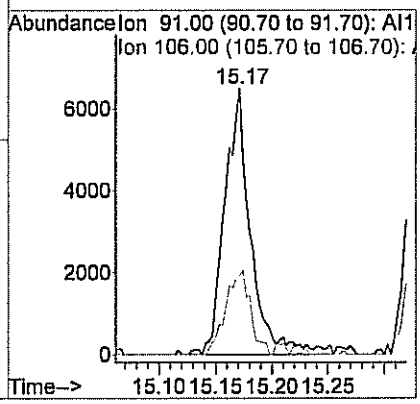


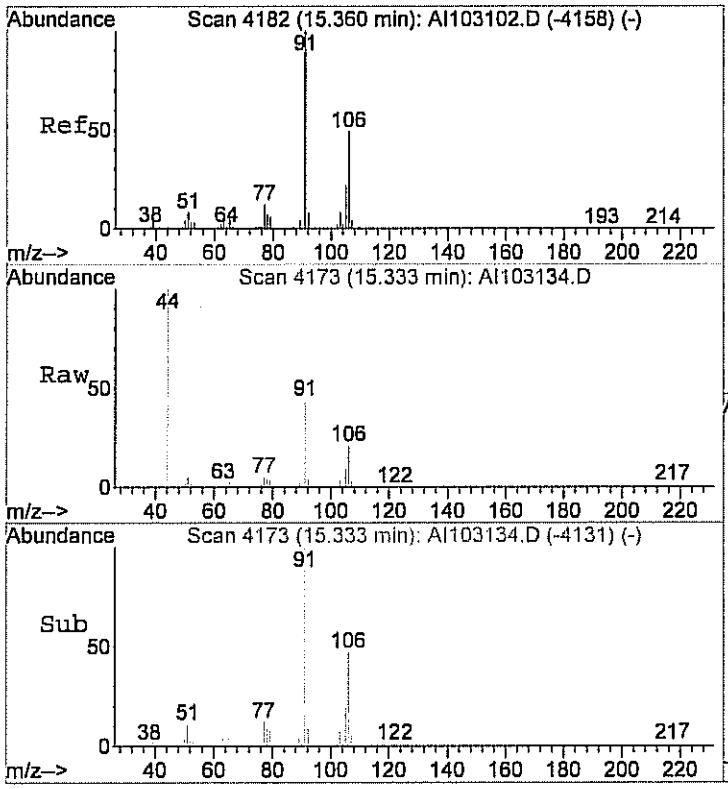


#55
Ethylbenzene
Concen: 0.18 ppb
RT: 15.17 min Scan# 4119
Delta R.T. 0.01 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion: 91 Resp: 10426

Ion	Ratio	Lower	Upper
91	100		
106	29.9	10.7	50.7

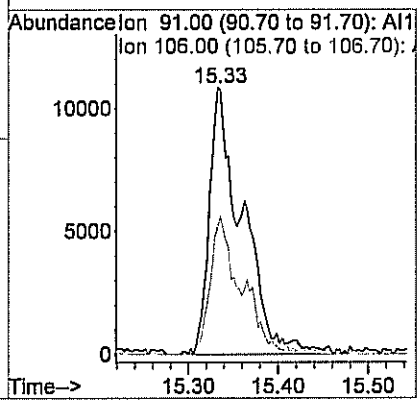


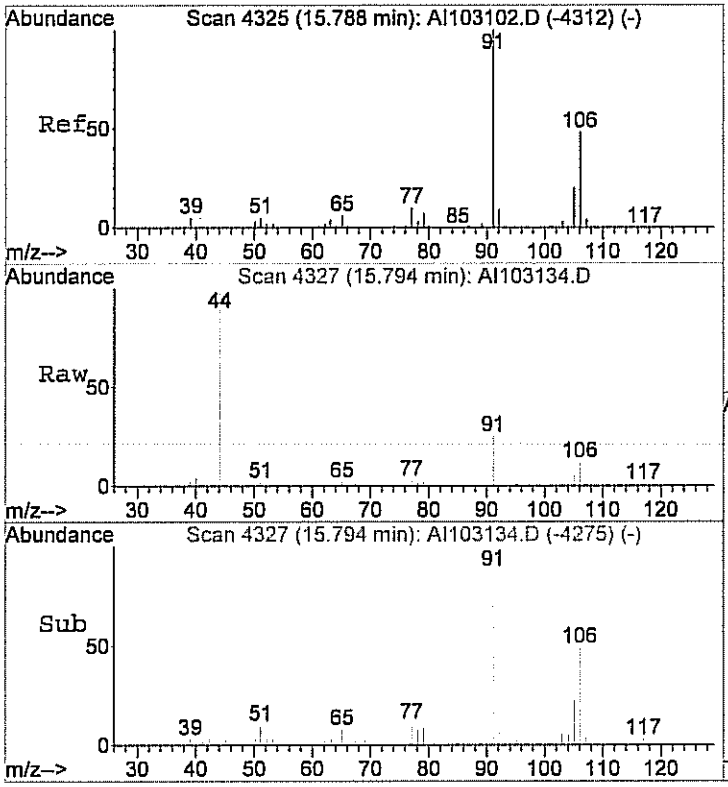


#56
m&p-xylene
Concen: 0.58 ppb
RT: 15.33 min Scan# 4173
Delta R.T. -0.02 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion: 91 Resp: 27707

Ion	Ratio	Lower	Upper
91	100		
106	48.4	27.5	67.5

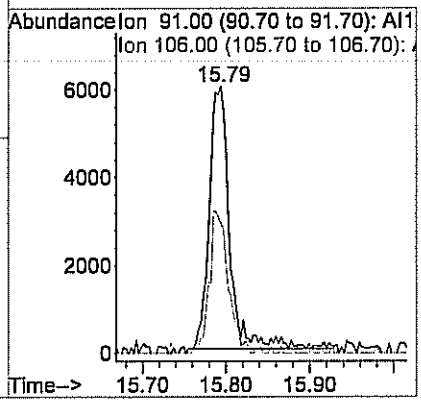


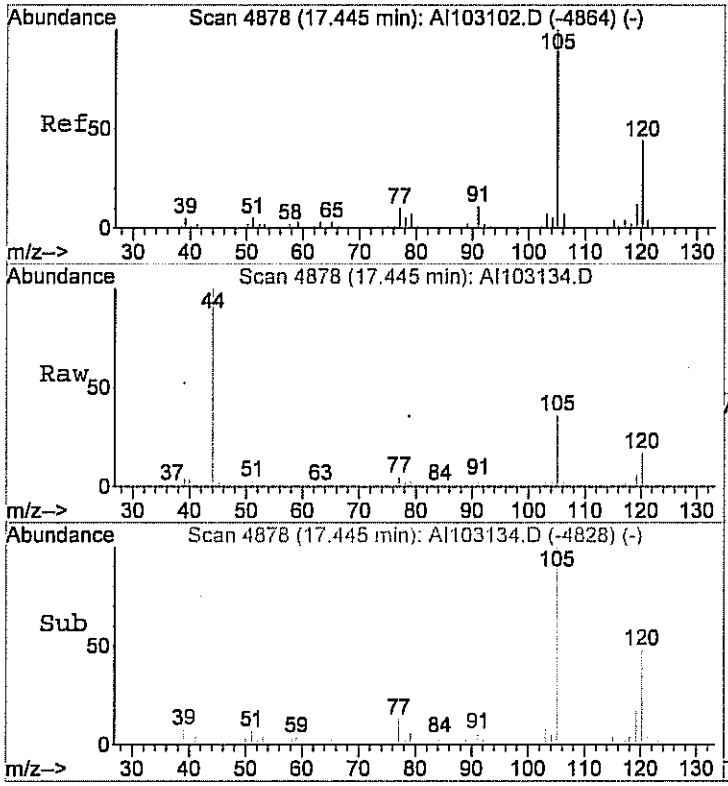


#59
o-xylene
Concen: 0.17 ppb
RT: 15.79 min Scan# 4327
Delta R.T. 0.01 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion: 91 Resp: 10221

Ion	Ratio	Lower	Upper
91	100		
106	49.9	26.2	66.2

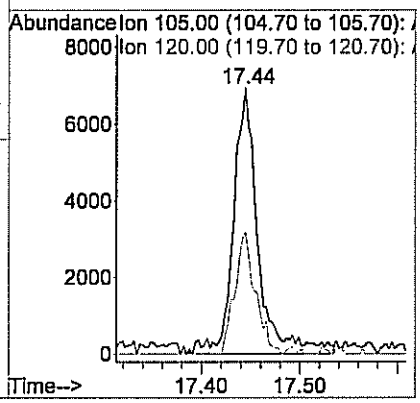




#65
1,2,4-trimethylbenzene
Concen: 0.28 ppb m
RT: 17.44 min Scan# 4878
Delta R.T. 0.00 min
Lab File: AI103134.D
Acq: 1 Nov 2011 4:27 am

Tgt Ion:105 Resp: 12115

Ion	Ratio	Lower	Upper
105	100		
120	0.0	25.0	65.0#



Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	10/31/2011 12:27:00 PM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 12:27:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 12:27:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/31/2011 12:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 12:27:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 12:27:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103105.D Vial: 21
Acq On : 31 Oct 2011 12:27 pm Operator: RJP
Sample : C1110054-023A Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 12:48:16 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	19741	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	54144	1.00	ppb	0.01
47) Chlorobenzene-d5	14.86	117	45399	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	18948	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103105.D AO30_1UG.M Mon Nov 21 08:57:05 2011 MSD1 Page 1

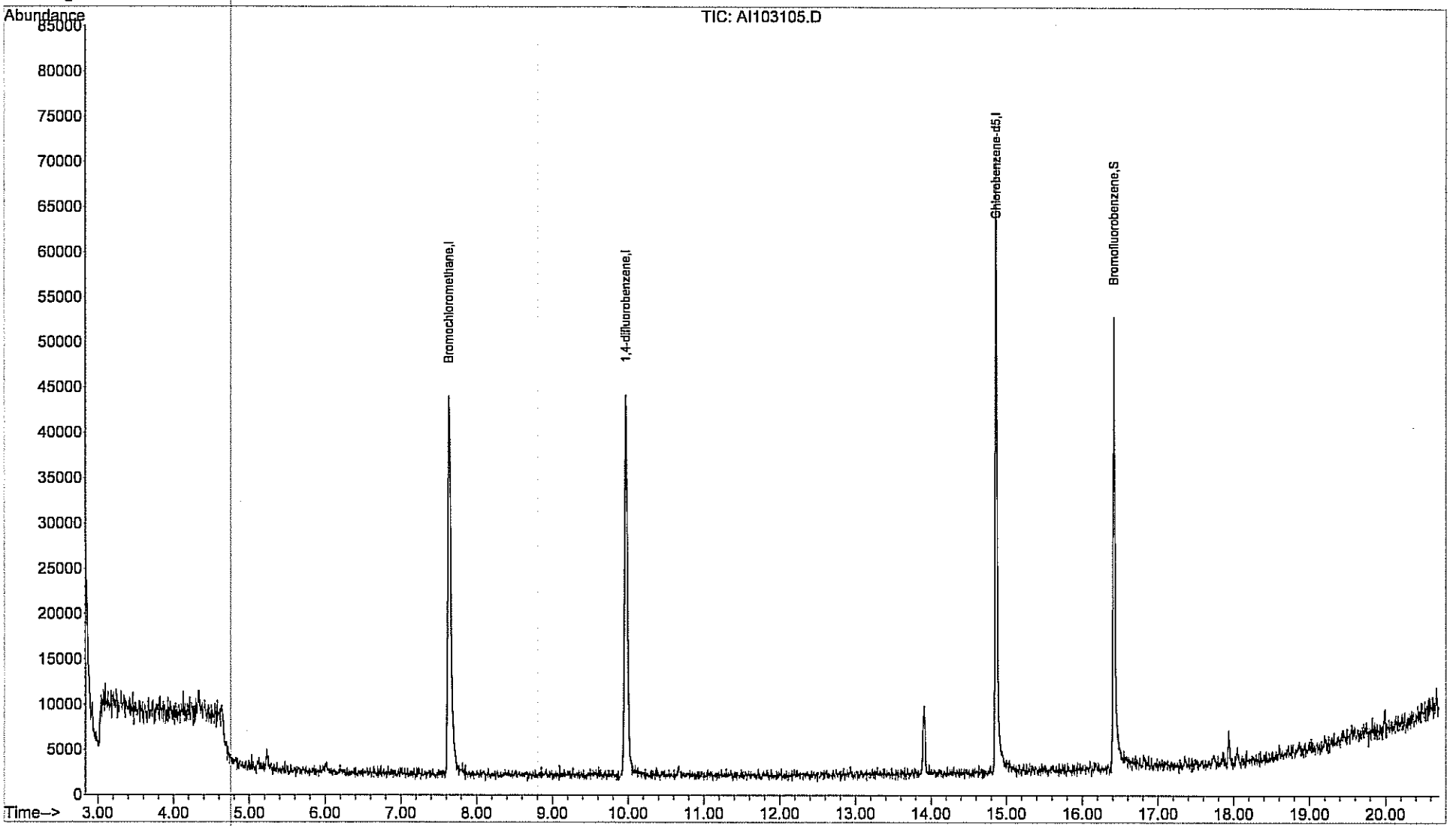
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103105.D
Acq On : 31 Oct 2011 12:27 pm
Sample : C1110054-023A
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:06 2011

Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Initial Calibration

Calibration Files
.04 =AI103029.D 0.1 =AI103028.D 0.15 =AI103026.D
0.30 =AI103025.D 0.50 =AI103024.D 0.75 =AI103023.D

		Compound	.04	0.1	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.556	0.491	0.474	0.484	0.481	6.87
3)	T	Freon 12			4.261	4.092	3.852	3.860	3.856	5.61
4)	T	Chloromethane			0.857	0.810	0.706	0.704	0.732	8.73
5)	T	Freon 114			2.477	2.283	2.126	2.100	2.179	6.19
6)	T	Vinyl Chloride		0.693	0.662	0.647	0.614	0.591	0.616	6.69
7)	T	1,3-butadiene			0.601	0.521	0.533	0.419	0.489	12.02
8)	T	Bromomethane			1.103	0.924	0.946	0.778	0.844	15.91
9)	T	Ethanol			0.231	0.411	0.289	0.239	0.264	24.51
10)	T	Acrolein			0.215	0.220	0.191	0.168	0.183	12.84
11)	T	Chloroethane			0.274	0.259	0.247	0.244	0.249	5.15
12)	T	Vinyl Bromide			0.787	0.797	0.747	0.785	0.776	2.70
13)	T	Freon 11			2.487	2.388	2.258	2.214	2.278	4.55
14)	T	Acetone			0.391	0.344	0.252	0.272	0.291	16.92
15)	T	Isopropyl alcoh			0.828	1.121	0.806	0.663	0.764	21.06
16)	T	1,1-dichloroeth			0.896	0.789	1.027	1.004	0.934	14.67
17)	T	Freon 113			1.750	2.826	2.648	2.729	2.437	20.90
18)	T	Methylene chlor			1.068	1.104	0.991	1.050	1.040	3.37
19)	T	Allyl chloride			0.783	0.798	0.713	0.701	0.743	5.38
20)	T	Carbon disulfid			3.652	3.479	3.150	3.090	3.165	8.18
21)	T	trans-1,2-dichl			1.302	1.286	1.288	1.279	1.295	1.57
22)	T	methyl tert-but			1.999	1.797	1.655	1.703	1.815	6.46
23)	T	1,1-dichloroeth			1.781	1.785	1.718	1.711	1.761	1.92
24)	T	Vinyl acetate			0.915	1.011	0.999	0.901	0.985	5.11
25)	T	Methyl Ethyl Ke			0.229	0.245	0.228	0.222	0.251	11.10
26)	T	cis-1,2-dichlor			1.083	1.217	1.154	1.116	1.168	4.07
27)	T	Hexane			0.762	0.798	0.789	0.839	0.859	8.83
28)	T	Ethyl acetate			0.934	0.967	0.861	0.832	0.916	7.59
29)	T	Chloroform			3.115	2.934	2.811	2.810	2.863	4.08
30)	T	Tetrahydrofuran			0.373	0.481	0.379	0.425	0.440	11.09
31)	T	1,2-dichloroeth			1.679	1.655	1.483	1.521	1.603	4.48
32)	I	1,4-difluorobenzene	----------ISTD----------							
33)	T	1,1,1-trichloro			0.985	0.976	0.910	0.921	0.936	3.12
34)	T	Cyclohexane			0.303	0.307	0.290	0.309	0.316	5.95
35)	T	Carbon tetrachl	1.349	1.074	0.998	0.954	0.901	0.939	0.986	14.05
36)	T	Benzene			0.968	0.948	0.909	0.935	0.945	2.00
37)	T	Methyl methacry			0.151	0.135	0.168	0.148	0.163	11.63
38)	T	1,4-dioxane				0.075	0.069	0.072	0.085	17.54
39)	T	2,2,4-trimethyl			1.047	1.006	0.924	1.003	1.015	4.13
40)	T	Heptane			0.301	0.301	0.275	0.286	0.303	5.88
41)	T	Trichloroethene	0.851	0.681	0.659	0.636	0.600	0.612	0.651	11.40
42)	T	1,2-dichloropro			0.339	0.345	0.329	0.329	0.336	2.04
43)	T	Bromodichlorome			0.967	1.002	0.925	0.938	0.954	2.57
44)	T	cis-1,3-dichlor			0.346	0.360	0.354	0.388	0.400	11.18
45)	T	trans-1,3-dichl			0.232	0.242	0.241	0.268	0.267	10.08
46)	T	1,1,2-trichloro			0.509	0.549	0.503	0.537	0.528	2.96
47)	I	Chlorobenzene-d5	----------ISTD----------							
48)	T	Toluene			0.557	0.573	0.566	0.600	0.616	8.33
49)	T	Methyl Isobutyl				0.167	0.183	0.168	0.188	12.08
50)	T	Dibromochlorome			1.148	1.131	1.047	1.113	1.097	3.04
51)	T	Methyl Butyl Ke				0.121	0.070	0.109	0.112	17.31

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Initial Calibration

Calibration Files
.04 =AI103029.D 0.1 =AI103028.D 0.15 =AI103026.D
0.30 =AI103025.D 0.50 =AI103024.D 0.75 =AI103023.D

		Compound	.04	0.1	0.15	0.30	0.50	0.75	Avg	%RSD
52)	T	1,2-dibromoetha			0.777	0.759	0.755	0.806	0.803	4.68
53)	T	Tetrachloroethy			0.858	0.788	0.737	0.765	0.767	5.34
54)	T	Chlorobenzene			1.034	1.060	1.031	1.057	1.065	2.46
55)	T	Ethylbenzene			1.088	1.102	1.106	1.186	1.238	11.24
56)	T	m&p-xylene			0.857	0.906	0.883	0.994	1.025	13.43
57)	T	Styrene			0.586	0.580	0.534	0.619	0.663	15.58
58)	T	Bromoform			1.014	1.027	0.963	1.037	1.033	3.29
59)	T	o-xylene			1.161	1.276	1.201	1.271	1.319	9.92
60)	S	Bromofluorobenz	0.465	0.436	0.455	0.450	0.471	0.474	0.478	6.59
61)	T	1,1,2,2-tetrach			1.151	1.089	0.919	1.001	1.030	6.80
62)	T	2-Chlorotoluene			0.866	0.887	0.834	0.921	0.966	11.56
63)	T	4-ethyltoluene			0.844	0.791	0.740	0.960	1.020	22.93
64)	T	1,3,5-trimethyl			1.019	0.925	0.919	1.075	1.152	17.79
65)	T	1,2,4-trimethyl			0.748	0.913	0.733	0.846	0.924	17.78
66)	T	1,3-dichloroben			0.810	0.839	0.772	0.914	0.939	13.87
67)	T	benzyl chloride			0.275	0.349	0.392	0.311	0.326	12.02
68)	T	1,4-dichloroben			0.854	0.894	0.695	0.796	0.887	13.66
69)	T	1,2-dichloroben			0.876	1.056	0.772	0.913	0.952	11.00
70)	T	1,2,4-trichloro			0.554	0.506	0.438	0.495	0.514	7.39
71)	T	Naphthalene			0.659	0.606	0.484	0.569	0.614	12.28
72)	T	Hexachloro-1,3-			0.987	0.881	0.722	0.811	0.841	9.28

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103019.D Vial: 1
Acq On : 31 Oct 2011 12:38 am Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:43 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.62	128	21467	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	62162	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	63358	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	31828	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	19461	1.99	ppb		96
3) Freon 12	2.95	85	157954	2.00	ppb		98
4) Chloromethane	3.09	50	29536	1.98	ppb		99
5) Freon 114	3.09	85	90041	1.99	ppb		95
6) Vinyl Chloride	3.23	62	24984	1.98	ppb		99
7) 1,3-butadiene	3.30	39	18914m	1.87	ppb		
8) Bromomethane	3.55	94	32484	2.13	ppb		96
9) Ethanol	3.81	45	9654m	2.03	ppb		
10) Acrolein	4.21	56	7377	2.03	ppb		96
11) Chloroethane	3.67	64	10668	2.12	ppb		99
12) Vinyl Bromide	3.92	106	33789	2.06	ppb		96
13) Freon 11	4.12	101	95000	2.01	ppb		98
14) Acetone	4.29	58	11750	2.10	ppb		95
15) Isopropyl alcohol	4.39	45	30975	2.33	ppb	#	100
16) 1,1-dichloroethene	4.72	96	45204	2.06	ppb		89
17) Freon 113	4.88	101	115860	2.04	ppb		94
18) Methylene chloride	5.11	84	44080	2.03	ppb	#	84
19) Allyl chloride	5.09	41	32449	2.21	ppb		86
20) Carbon disulfide	5.23	76	127241	1.98	ppb		99
21) trans-1,2-dichloroethene	5.94	61	54504	1.99	ppb		83
22) methyl tert-butyl ether	6.00	73	82750	2.23	ppb	#	49
23) 1,1-dichloroethane	6.33	63	76637	2.05	ppb		96
24) Vinyl acetate	6.38	43	44284	2.11	ppb		96
25) Methyl Ethyl Ketone	6.86	72	12759	2.57	ppb	#	100
26) cis-1,2-dichloroethene	7.20	61	50772	1.99	ppb		81
27) Hexane	6.85	57	41435	2.22	ppb		89
28) Ethyl acetate	7.45	43	42085	2.38	ppb		91
29) Chloroform	7.79	83	122262	2.08	ppb		99
30) Tetrahydrofuran	7.99	42	21634	2.52	ppb		90
31) 1,2-dichloroethane	8.87	62	70461	2.09	ppb		100
33) 1,1,1-trichloroethane	8.57	97	115843	1.99	ppb		98
34) Cyclohexane	9.27	56	43502	2.14	ppb		95
35) Carbon tetrachloride	9.21	117	114141	1.99	ppb		100
36) Benzene	9.18	78	119939	2.03	ppb		99
37) Methyl methacrylate	11.02	41	24208	2.51	ppb	#	77
38) 1,4-dioxane	11.04	88	13066	2.77	ppb		94
39) 2,2,4-trimethylpentane	10.14	57	131608	2.08	ppb		94
40) Heptane	10.57	43	40952	2.12	ppb		88
41) Trichloroethene	10.65	130	78472	2.01	ppb		96
42) 1,2-dichloropropane	10.78	63	43037	2.08	ppb		99
43) Bromodichloromethane	11.17	83	118996	1.98	ppb		100
44) cis-1,3-dichloropropene	12.08	75	58035	2.22	ppb		95
45) trans-1,3-dichloropropene	12.88	75	37826	2.23	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103019.D Vial: 1
Acq On : 31 Oct 2011 12:38 am Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:43 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	67202	2.04	ppb	100
48)	Toluene	12.92	92	87719	2.22	ppb	90
49)	Methyl Isobutyl Ketone	12.05	43	27032	2.39	ppb	93
50)	Dibromochloromethane	13.86	129	137892	1.98	ppb	99
51)	Methyl Butyl Ketone	13.45	43	15043m	1.99	ppb	
52)	1,2-dibromoethane	14.11	107	107200	2.09	ppb	99
53)	Tetrachloroethylene	13.95	164	92994	1.92	ppb	99
54)	Chlorobenzene	14.90	112	139265	2.08	ppb	98
55)	Ethylbenzene	15.16	91	183493	2.31	ppb	96
56)	m&p-xylene	15.36	91	308752	4.66	ppb	94
57)	Styrene	15.76	104	103163	2.47	ppb	92
58)	Bromoform	15.84	173	134979	2.05	ppb	99
59)	o-xylene	15.79	91	172198	1.88	ppb	95
61)	1,1,2,2-tetrachloroethane	16.21	83	130118	2.08	ppb	99
62)	2-Chlorotoluene	16.84	91	141331	2.34	ppb	96
63)	4-ethyltoluene	16.97	105	171654	2.66	ppb	95
64)	1,3,5-trimethylbenzene	17.03	105	181419	2.46	ppb	96
65)	1,2,4-trimethylbenzene	17.44	105	150259	2.71	ppb	97
66)	1,3-dichlorobenzene	17.70	146	138554	2.24	ppb	98
67)	benzyl chloride	17.77	91	42645	2.30	ppb	99
68)	1,4-dichlorobenzene	17.82	146	133117	2.46	ppb	99
69)	1,2-dichlorobenzene	18.10	146	136182	2.34	ppb	99
70)	1,2,4-trichlorobenzene	19.72	180	68180	2.18	ppb	98
71)	Naphthalene	19.88	128	89461	2.42	ppb	99
72)	Hexachloro-1,3-butadiene	19.98	225	104453	2.02	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

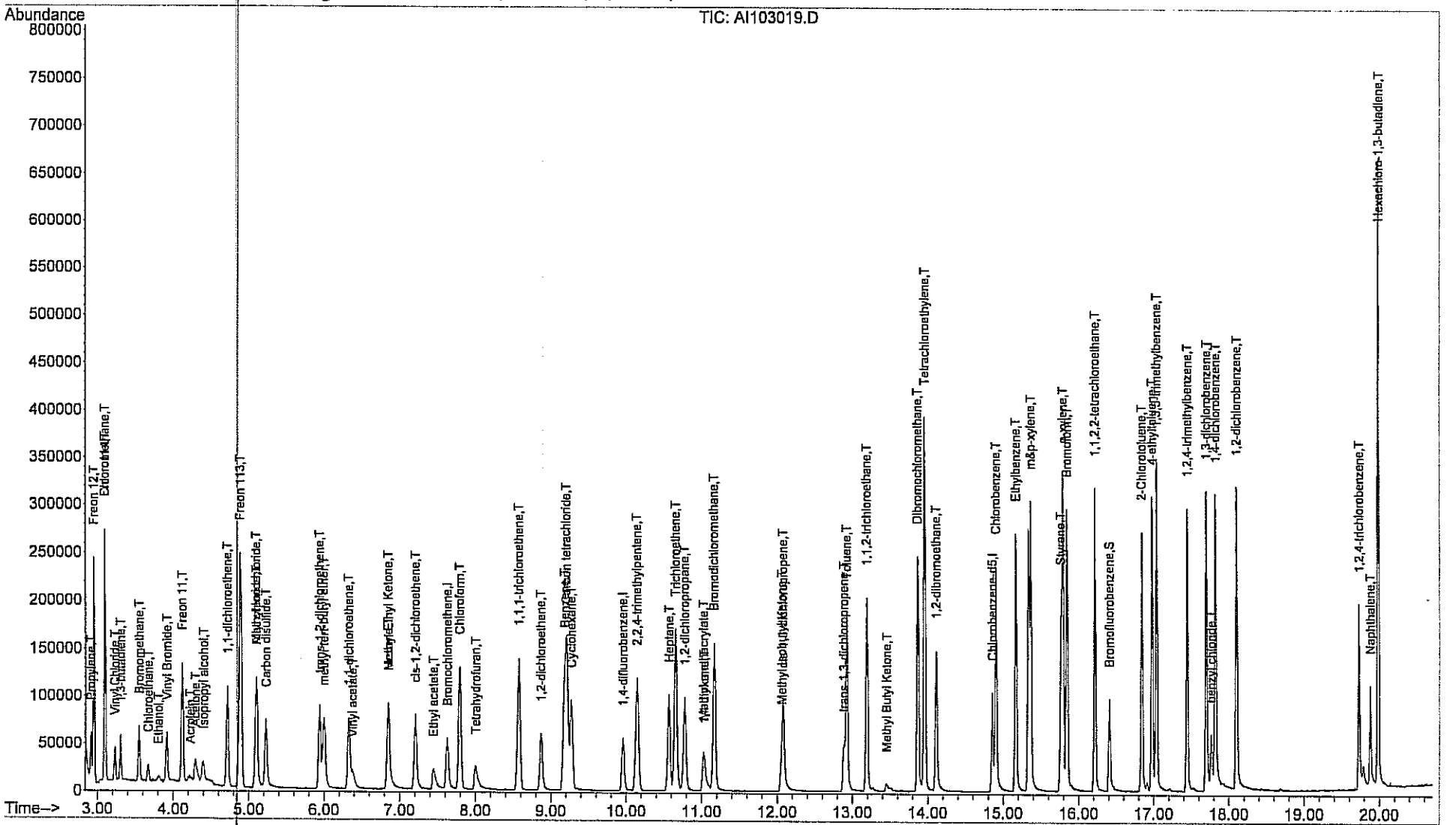
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103019.D
Acq On : 31 Oct 2011 12:38 am
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:44 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103019.D AO30_1UG.M Mon Nov 21 10:10:18 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103020.D Vial: 2
Acq On : 31 Oct 2011 1:13 am Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:53 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	21313	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	63876	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	61358	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	32869	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	15146	1.56	ppb		94
3) Freon 12	2.95	85	119896	1.53	ppb		99
4) Chloromethane	3.09	50	22310	1.50	ppb		100
5) Freon 114	3.10	85	67942	1.51	ppb		97
6) Vinyl Chloride	3.23	62	18892	1.51	ppb		95
7) 1,3-butadiene	3.31	39	15068m	1.50	ppb		
8) Bromomethane	3.55	94	25148	1.66	ppb		92
9) Ethanol	3.81	45	6740m	1.43	ppb		
10) Acrolein	4.23	56	5523	1.53	ppb		91
11) Chloroethane	3.67	64	7559	1.51	ppb		99
12) Vinyl Bromide	3.92	106	25354	1.56	ppb		98
13) Freon 11	4.12	101	71354	1.52	ppb		99
14) Acetone	4.30	58	8254	1.48	ppb	#	78
15) Isopropyl alcohol	4.40	45	21785	1.65	ppb	#	100
16) 1,1-dichloroethene	4.71	96	21515m	0.99	ppb		
17) Freon 113	4.88	101	47884	0.85	ppb		95
18) Methylene chloride	5.11	84	33030	1.54	ppb	#	80
19) Allyl chloride	5.09	41	24203	1.66	ppb		85
20) Carbon disulfide	5.23	76	95752	1.50	ppb		99
21) trans-1,2-dichloroethene	5.94	61	42449	1.56	ppb		86
22) methyl tert-butyl ether	6.01	73	60016	1.63	ppb	#	48
23) 1,1-dichloroethane	6.33	63	57617	1.55	ppb		97
24) Vinyl acetate	6.38	43	32962	1.58	ppb		98
25) Methyl Ethyl Ketone	6.87	72	9162	1.86	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	38812	1.54	ppb		84
27) Hexane	6.85	57	30478	1.65	ppb		91
28) Ethyl acetate	7.45	43	32648	1.86	ppb		96
29) Chloroform	7.79	83	91444	1.56	ppb		100
30) Tetrahydrofuran	8.00	42	15477	1.81	ppb		88
31) 1,2-dichloroethane	8.87	62	53189	1.59	ppb		100
33) 1,1,1-trichloroethane	8.57	97	87038	1.45	ppb		99
34) Cyclohexane	9.27	56	31698	1.52	ppb		95
35) Carbon tetrachloride	9.21	117	85289	1.44	ppb		98
36) Benzene	9.18	78	91087	1.50	ppb		97
37) Methyl methacrylate	11.03	41	17008	1.72	ppb	#	76
38) 1,4-dioxane	11.05	88	9803	2.02	ppb		96
39) 2,2,4-trimethylpentane	10.14	57	100144	1.54	ppb		94
40) Heptane	10.57	43	30960	1.56	ppb		91
41) Trichloroethene	10.65	130	58728	1.46	ppb		98
42) 1,2-dichloropropane	10.77	63	31629	1.49	ppb		97
43) Bromodichloromethane	11.16	83	89235	1.45	ppb		98
44) cis-1,3-dichloropropene	12.08	75	41894	1.56	ppb		96
45) trans-1,3-dichloropropene	12.88	75	28690	1.65	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103020.D Vial: 2
Acq On : 31 Oct 2011 1:13 am Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:53 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	50298	1.49	ppb	100
48)	Toluene	12.92	92	62545	1.64	ppb	91
49)	Methyl Isobutyl Ketone	12.05	43	20852	1.91	ppb	100
50)	Dibromochloromethane	13.86	129	99113	1.47	ppb	96
51)	Methyl Butyl Ketone	13.46	43	11787m	1.61	ppb	
52)	1,2-dibromoethane	14.11	107	78956	1.59	ppb	99
53)	Tetrachloroethylene	13.95	164	68288	1.46	ppb	99
54)	Chlorobenzene	14.90	112	101325	1.56	ppb	96
55)	Ethylbenzene	15.16	91	127001	1.65	ppb	97
56)	m&p-xylene	15.36	91	216078	3.36	ppb	95
57)	Styrene	15.76	104	73082	1.81	ppb	91
58)	Bromoform	15.84	173	98828	1.55	ppb	99
59)	o-xylene	15.79	91	143295	1.62	ppb	95
61)	1,1,2,2-tetrachloroethane	16.21	83	97434	1.61	ppb	99
62)	2-Chlorotoluene	16.84	91	103735	1.78	ppb	96
63)	4-ethyltoluene	16.97	105	122278	1.95	ppb	94
64)	1,3,5-trimethylbenzene	17.03	105	130768	1.83	ppb	94
65)	1,2,4-trimethylbenzene	17.44	105	104290	1.94	ppb	97
66)	1,3-dichlorobenzene	17.70	146	104049	1.74	ppb	99
67)	benzyl chloride	17.77	91	32588	1.82	ppb	95
68)	1,4-dichlorobenzene	17.82	146	96751	1.85	ppb	98
69)	1,2-dichlorobenzene	18.10	146	96898	1.72	ppb	99
70)	1,2,4-trichlorobenzene	19.73	180	51028	1.68	ppb	97
71)	Naphthalene	19.88	128	65317	1.83	ppb	100
72)	Hexachloro-1,3-butadiene	19.98	225	81758	1.64	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

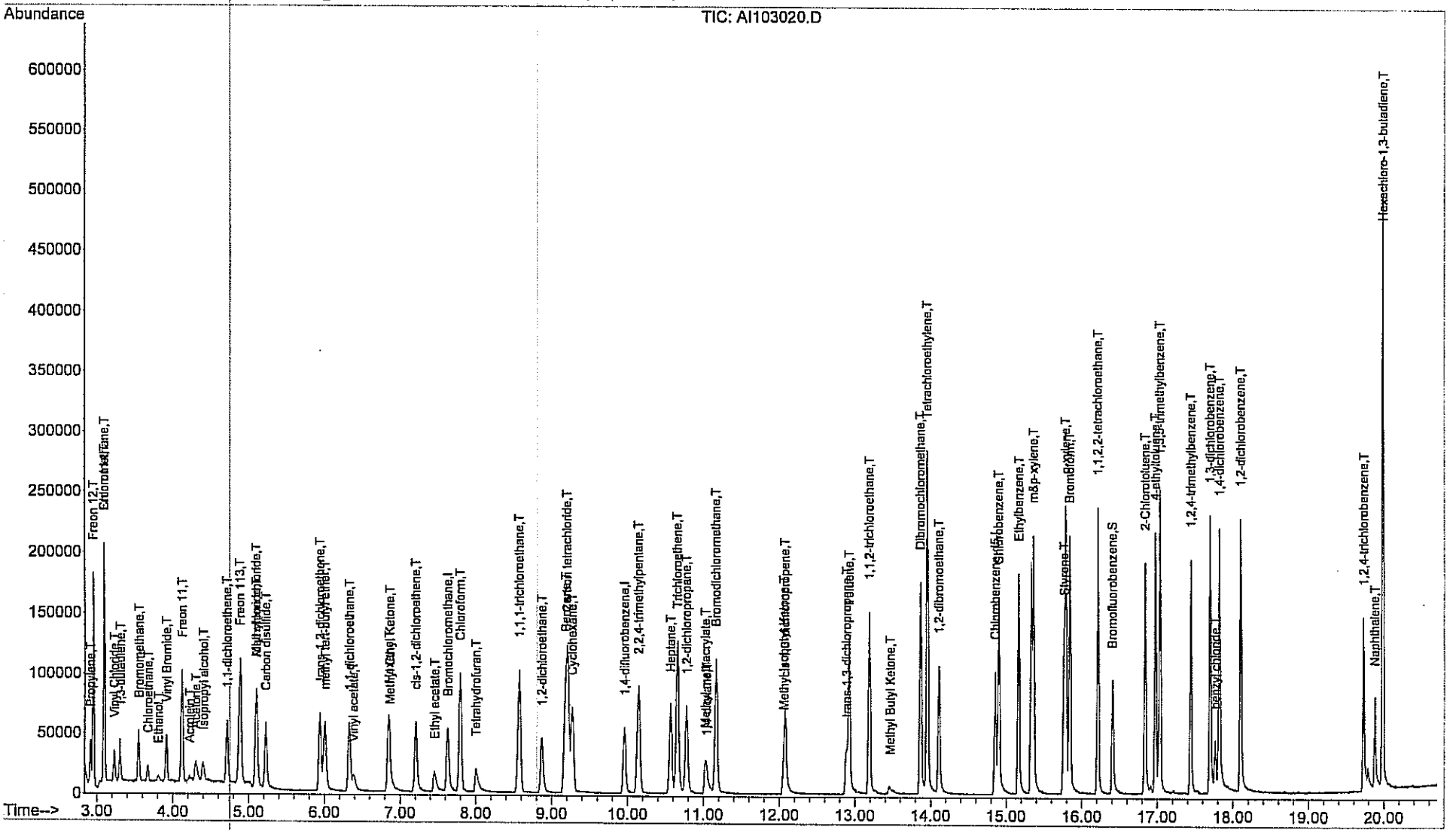
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103020.D
Acq On : 31 Oct 2011 1:13 am
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:45 2011

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103020.D AO30_1UG.M Mon Nov 21 10:10:21 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103021.D Vial: 3
Acq On : 31 Oct 2011 1:47 am Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.62	128	21731	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	62861	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	61765	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.40	95	31987	1.11	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	12554	1.27	ppb		97
3) Freon 12	2.95	85	99782	1.25	ppb		99
4) Chloromethane	3.09	50	19013	1.26	ppb		100
5) Freon 114	3.09	85	57633	1.26	ppb		97
6) Vinyl Chloride	3.23	62	15731	1.23	ppb		98
7) 1,3-butadiene	3.31	39	12481	1.22	ppb		89
8) Bromomethane	3.54	94	20313	1.32	ppb		95
9) Ethanol	3.81	45	7425	1.54	ppb	#	38
10) Acrolein	4.23	56	4238	1.15	ppb		96
11) Chloroethane	3.67	64	6634	1.30	ppb		98
12) Vinyl Bromide	3.91	106	20246	1.22	ppb		97
13) Freon 11	4.12	101	60347	1.26	ppb		99
14) Acetone	4.30	58	7517	1.32	ppb		91
15) Isopropyl alcohol	4.40	45	18342	1.36	ppb	#	100
16) 1,1-dichloroethene	4.72	96	27326	1.23	ppb		93
17) Freon 113	4.89	101	73322	1.27	ppb		94
18) Methylene chloride	5.10	84	28266	1.29	ppb	#	82
19) Allyl chloride	5.09	41	20479	1.38	ppb		89
20) Carbon disulfide	5.23	76	81255	1.25	ppb		100
21) trans-1,2-dichloroethene	5.94	61	35851	1.29	ppb		88
22) methyl tert-butyl ether	6.01	73	49806	1.32	ppb	#	49
23) 1,1-dichloroethane	6.33	63	47793	1.26	ppb		97
24) Vinyl acetate	6.40	43	26632	1.25	ppb		98
25) Methyl Ethyl Ketone	6.88	72	7089	1.41	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	32329	1.25	ppb		85
27) Hexane	6.85	57	24400	1.29	ppb		93
28) Ethyl acetate	7.46	43	24018	1.34	ppb		96
29) Chloroform	7.80	83	75565	1.27	ppb		99
30) Tetrahydrofuran	8.01	42	12280	1.41	ppb		94
31) 1,2-dichloroethane	8.87	62	43863	1.29	ppb		99
33) 1,1,1-trichloroethane	8.57	97	72046	1.22	ppb		99
34) Cyclohexane	9.27	56	24894	1.21	ppb		90
35) Carbon tetrachloride	9.21	117	71831	1.24	ppb		100
36) Benzene	9.17	78	73312	1.23	ppb		97
37) Methyl methacrylate	11.03	41	13453	1.38	ppb	#	84
38) 1,4-dioxane	11.06	88	7147	1.50	ppb		87
39) 2,2,4-trimethylpentane	10.14	57	79863	1.25	ppb		95
40) Heptane	10.57	43	23480	1.20	ppb		89
41) Trichloroethene	10.66	130	47584	1.20	ppb		98
42) 1,2-dichloropropane	10.77	63	26296	1.26	ppb		96
43) Bromodichloromethane	11.17	83	74663	1.23	ppb		97
44) cis-1,3-dichloropropene	12.08	75	33914	1.28	ppb		96
45) trans-1,3-dichloropropene	12.89	75	21756	1.27	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103021.D Vial: 3
Acq On : 31 Oct 2011 1:47 am Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	42151	1.27	ppb	99
48)	Toluene	12.92	92	49259	1.28	ppb	91
49)	Methyl Isobutyl Ketone	12.06	43	14147	1.28	ppb	96
50)	Dibromochloromethane	13.86	129	82706	1.22	ppb	100
51)	Methyl Butyl Ketone	13.47	43	9551m	1.30	ppb	
52)	1,2-dibromoethane	14.11	107	62438	1.25	ppb	99
53)	Tetrachloroethylene	13.95	164	57814	1.22	ppb	100
54)	Chlorobenzene	14.90	112	83073	1.27	ppb	95
55)	Ethylbenzene	15.16	91	103255	1.33	ppb	96
56)	m&p-xylene	15.36	91	173117	2.68	ppb	94
57)	Styrene	15.76	104	55522	1.36	ppb	95
58)	Bromoform	15.84	173	80248	1.25	ppb	100
59)	o-xylene	15.79	91	98467	1.10	ppb	93
61)	1,1,2,2-tetrachloroethane	16.21	83	77923	1.28	ppb	99
62)	2-Chlorotoluene	16.84	91	78993	1.34	ppb	96
63)	4-ethyltoluene	16.97	105	86592	1.37	ppb	94
64)	1,3,5-trimethylbenzene	17.03	105	98146	1.37	ppb	95
65)	1,2,4-trimethylbenzene	17.44	105	73835	1.37	ppb	98
66)	1,3-dichlorobenzene	17.70	146	75647	1.25	ppb	98
67)	benzyl chloride	17.76	91	22757	1.26	ppb	98
68)	1,4-dichlorobenzene	17.82	146	70420	1.34	ppb	100
69)	1,2-dichlorobenzene	18.10	146	73618	1.30	ppb	98
70)	1,2,4-trichlorobenzene	19.73	180	40187m	1.32	ppb	
71)	Naphthalene	19.88	128	46223m	1.28	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	61942m	1.23	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

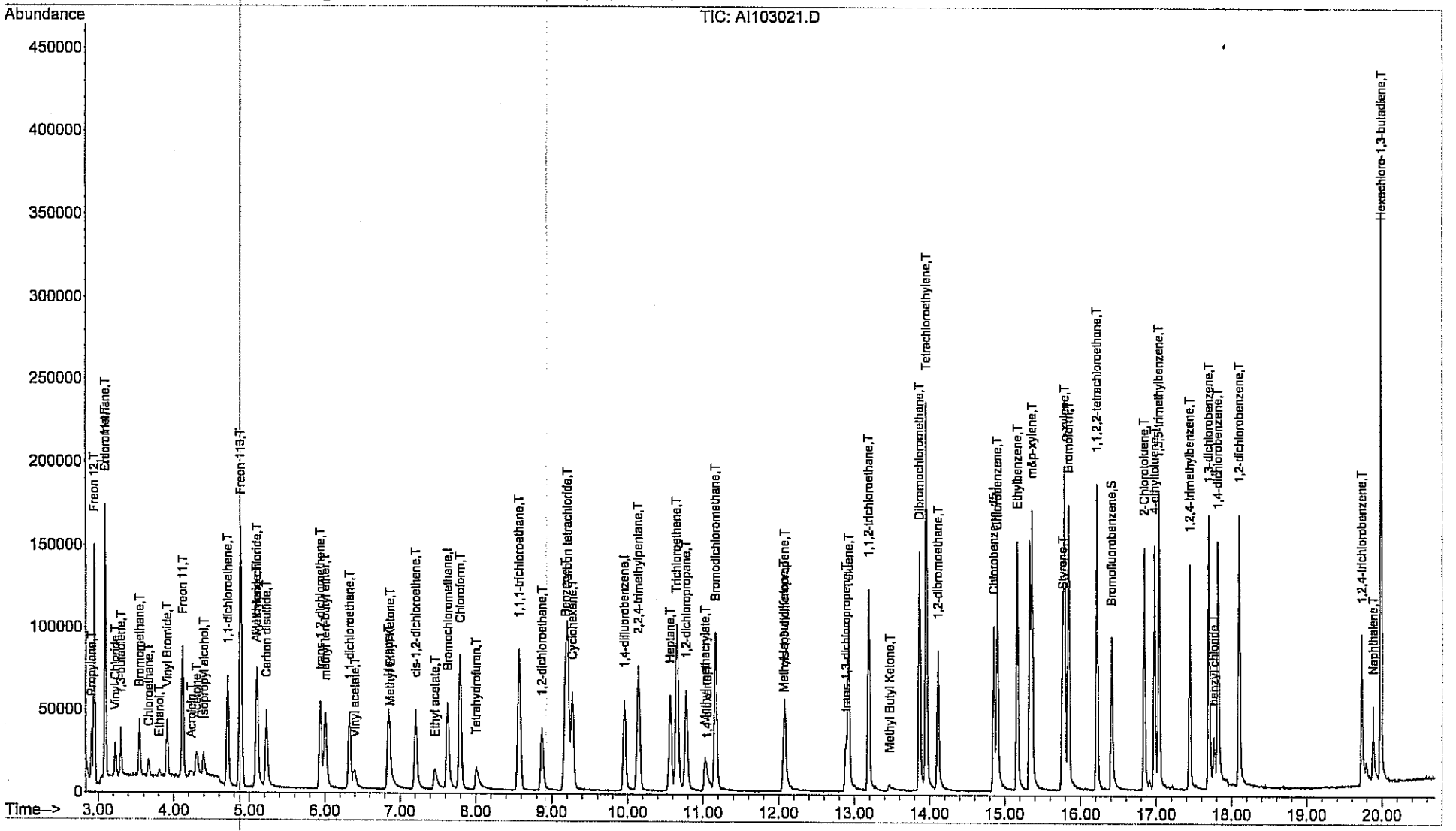
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103021.D
Acq On : 31 Oct 2011 1:47 am
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:46 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103022.D Vial: 4
Acq On : 31 Oct 2011 2:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:28 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	21488	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	60383	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	58872	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	27575	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	9786	1.00	ppb		96
3) Freon 12	2.95	85	79064	1.00	ppb		97
4) Chloromethane	3.09	50	14948	1.00	ppb		98
5) Freon 114	3.09	85	45225	1.00	ppb		97
6) Vinyl Chloride	3.23	62	12601	1.00	ppb		100
7) 1,3-butadiene	3.31	39	10103	1.00	ppb		92
8) Bromomethane	3.55	94	15266	1.00	ppb		100
9) Ethanol	3.81	45	4984m	1.05	ppb		
10) Acrolein	4.24	56	3629	1.00	ppb		91
11) Chloroethane	3.67	64	5044	1.00	ppb		93
12) Vinyl Bromide	3.91	106	16390	1.00	ppb		99
13) Freon 11	4.12	101	47416	1.00	ppb		99
14) Acetone	4.31	58	5640	1.01	ppb		96
15) Isopropyl alcohol	4.40	45	13290	1.00	ppb	#	100
16) 1,1-dichloroethene	4.72	96	21997	1.00	ppb		90
17) Freon 113	4.89	101	56879	1.00	ppb		93
18) Methylene chloride	5.11	84	21687	1.00	ppb	#	84
19) Allyl chloride	5.09	41	14713	1.00	ppb		80
20) Carbon disulfide	5.23	76	64416	1.00	ppb		99
21) trans-1,2-dichloroethene	5.94	61	27593	1.01	ppb		87
22) methyl tert-butyl ether	6.01	73	37195	1.00	ppb	#	47
23) 1,1-dichloroethane	6.33	63	37448	1.00	ppb		97
24) Vinyl acetate	6.41	43	21713m	1.03	ppb		
25) Methyl Ethyl Ketone	6.89	72	5198	1.05	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	25489	1.00	ppb		85
27) Hexane	6.85	57	18676	1.00	ppb		92
28) Ethyl acetate	7.46	43	18221	1.03	ppb		95
29) Chloroform	7.79	83	58936	1.00	ppb		99
30) Tetrahydrofuran	8.02	42	9080	1.06	ppb		90
31) 1,2-dichloroethane	8.87	62	33708	1.00	ppb		99
33) 1,1,1-trichloroethane	8.57	97	56583	1.00	ppb		99
34) Cyclohexane	9.27	56	19709	1.00	ppb		92
35) Carbon tetrachloride	9.21	117	55737	1.00	ppb		98
36) Benzene	9.18	78	57255	1.00	ppb		95
37) Methyl methacrylate	11.03	41	9520	1.02	ppb	#	83
38) 1,4-dioxane	11.08	88	4736	1.03	ppb	#	61
39) 2,2,4-trimethylpentane	10.15	57	61405	1.00	ppb		95
40) Heptane	10.57	43	18729	1.00	ppb		88
41) Trichloroethene	10.65	130	37857	1.00	ppb		96
42) 1,2-dichloropropane	10.78	63	20086	1.00	ppb		96
43) Bromodichloromethane	11.16	83	58203	1.00	ppb		97
44) cis-1,3-dichloropropene	12.08	75	25275	1.00	ppb		97
45) trans-1,3-dichloropropene	12.89	75	16499	1.00	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103022.D Vial: 4
Acq On : 31 Oct 2011 2:20 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:33:28 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	31882	1.00	ppb	98
48)	Toluene	12.92	92	36654	1.00	ppb	91
49)	Methyl Isobutyl Ketone	12.06	43	10501	1.00	ppb	99
50)	Dibromochloromethane	13.86	129	64853	1.00	ppb	100
51)	Methyl Butyl Ketone	13.47	43	6763m	0.96	ppb	
52)	1,2-dibromoethane	14.11	107	47737	1.00	ppb	100
53)	Tetrachloroethylene	13.95	164	45003	1.00	ppb	100
54)	Chlorobenzene	14.90	112	62312	1.00	ppb	97
55)	Ethylbenzene	15.16	91	73911	1.00	ppb	96
56)	m&p-xylene	15.36	91	123231	2.00	ppb	93
57)	Styrene	15.76	104	38804	1.00	ppb	95
58)	Bromoform	15.84	173	61252	1.00	ppb	98
59)	o-xylene	15.79	91	85282	1.00	ppb	93
61)	1,1,2,2-tetrachloroethane	16.21	83	58148	1.00	ppb	99
62)	2-Chlorotoluene	16.84	91	56074	1.00	ppb	95
63)	4-ethyltoluene	16.97	105	60040	1.00	ppb	96
64)	1,3,5-trimethylbenzene	17.03	105	68110	0.99	ppb	94
65)	1,2,4-trimethylbenzene	17.44	105	51650	1.00	ppb	97
66)	1,3-dichlorobenzene	17.70	146	57520	1.00	ppb	98
67)	benzyl chloride	17.77	91	17238	1.00	ppb	99
68)	1,4-dichlorobenzene	17.82	146	49471	0.98	ppb	94
69)	1,2-dichlorobenzene	18.10	146	54072	1.00	ppb	95
70)	1,2,4-trichlorobenzene	19.73	180	29982m	1.03	ppb	
71)	Naphthalene	19.88	128	34200m	1.00	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	47954	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

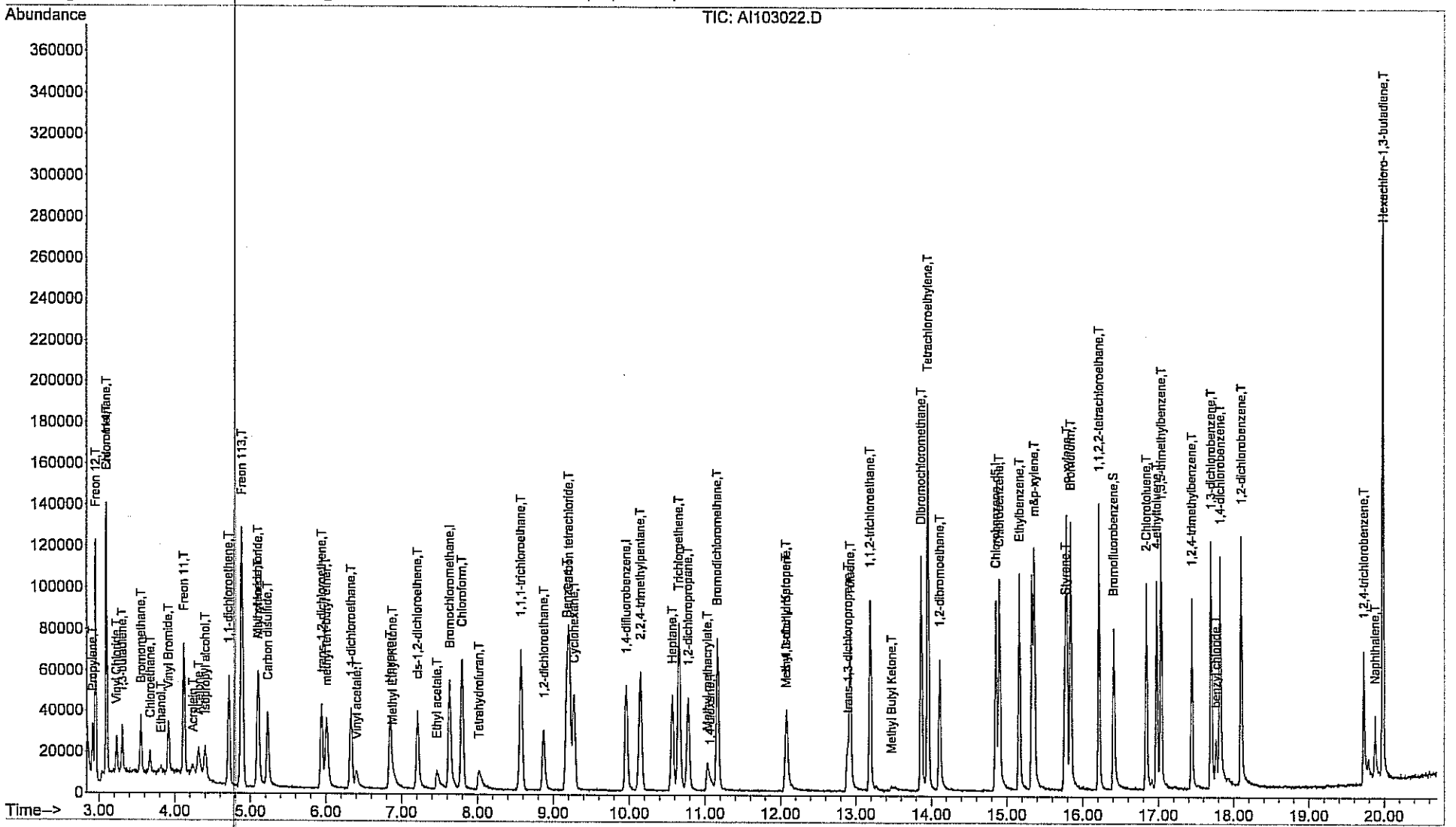
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103022.D
Acq On : 31 Oct 2011 2:20 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:47 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103022.D AO30_1UG.M Mon Nov 21 10:10:27 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103023.D Vial: 5
Acq On : 31 Oct 2011 2:53 am Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:31 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.62	128	20696	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	58588	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	56144	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	26610	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	7518	0.80	ppb		93
3) Freon 12	2.95	85	59914	0.79	ppb		99
4) Chloromethane	3.09	50	10921	0.76	ppb		99
5) Freon 114	3.09	85	32600	0.75	ppb		94
6) Vinyl Chloride	3.23	62	9170	0.76	ppb		99
7) 1,3-butadiene	3.30	39	6505	0.67	ppb		98
8) Bromomethane	3.55	94	12074	0.82	ppb		95
9) Ethanol	3.81	45	3714	0.81	ppb	#	48
10) Acrolein	4.24	56	2603	0.74	ppb		92
11) Chloroethane	3.67	64	3795	0.78	ppb		94
12) Vinyl Bromide	3.91	106	12187	0.77	ppb		95
13) Freon 11	4.12	101	34366	0.75	ppb		98
14) Acetone	4.32	58	4221m	0.78	ppb		
15) Isopropyl alcohol	4.40	45	10296m	0.80	ppb		
16) 1,1-dichloroethene	4.72	96	15590	0.74	ppb		93
17) Freon 113	4.88	101	42361	0.77	ppb		94
18) Methylene chloride	5.11	84	16295	0.78	ppb	#	81
19) Allyl chloride	5.09	41	10888	0.77	ppb		81
20) Carbon disulfide	5.23	76	47957	0.77	ppb		98
21) trans-1,2-dichloroethene	5.94	61	19855	0.75	ppb		86
22) methyl tert-butyl ether	6.02	73	26432	0.74	ppb	#	48
23) 1,1-dichloroethane	6.33	63	26558	0.74	ppb		97
24) Vinyl acetate	6.40	43	13985	0.69	ppb		99
25) Methyl Ethyl Ketone	6.89	72	3449	0.72	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	17317	0.71	ppb		83
27) Hexane	6.85	57	13019	0.72	ppb		96
28) Ethyl acetate	7.47	43	12913	0.76	ppb		96
29) Chloroform	7.79	83	43616	0.77	ppb		100
30) Tetrahydrofuran	8.03	42	6592	0.80	ppb		91
31) 1,2-dichloroethane	8.87	62	23614	0.73	ppb		97
33) 1,1,1-trichloroethane	8.57	97	40490	0.74	ppb		99
34) Cyclohexane	9.27	56	13564	0.71	ppb		89
35) Carbon tetrachloride	9.21	117	41242	0.76	ppb		100
36) Benzene	9.17	78	41094	0.74	ppb		95
37) Methyl methacrylate	11.04	41	6495	0.72	ppb	#	91
38) 1,4-dioxane	11.10	88	3157	0.71	ppb		81
39) 2,2,4-trimethylpentane	10.15	57	44084	0.74	ppb		95
40) Heptane	10.57	43	12577	0.69	ppb		82
41) Trichloroethene	10.65	130	26879	0.73	ppb		95
42) 1,2-dichloropropane	10.78	63	14471	0.74	ppb		98
43) Bromodichloromethane	11.17	83	41219	0.73	ppb		99
44) cis-1,3-dichloropropene	12.08	75	17039	0.69	ppb		97
45) trans-1,3-dichloropropene	12.89	75	11755	0.74	ppb		91

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103023.D Vial: 5
Acq On : 31 Oct 2011 2:53 am Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:31 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	23579	0.76	ppb	95
48)	Toluene	12.92	92	25258	0.72	ppb	91
49)	Methyl Isobutyl Ketone	12.07	43	7070	0.71	ppb	98
50)	Dibromochloromethane	13.86	129	46880	0.76	ppb	98
51)	Methyl Butyl Ketone	13.48	43	4594m	0.69	ppb	
52)	1,2-dibromoethane	14.11	107	33950	0.75	ppb	99
53)	Tetrachloroethylene	13.95	164	32226	0.75	ppb	99
54)	Chlorobenzene	14.90	112	44515	0.75	ppb	95
55)	Ethylbenzene	15.16	91	49929	0.71	ppb	99
56)	m&p-xylene	15.36	91	83698	1.42	ppb	94
57)	Styrene	15.76	104	26077	0.71	ppb	94
58)	Bromoform	15.84	173	43680	0.75	ppb	99
59)	o-xylene	15.78	91	53537	0.66	ppb	95
61)	1,1,2,2-tetrachloroethane	16.21	83	42148	0.76	ppb	98
62)	2-Chlorotoluene	16.84	91	38782	0.73	ppb	99
63)	4-ethyltoluene	16.98	105	40414	0.71	ppb	97
64)	1,3,5-trimethylbenzene	17.04	105	45276	0.69	ppb	92
65)	1,2,4-trimethylbenzene	17.44	105	35638	0.72	ppb	98
66)	1,3-dichlorobenzene	17.70	146	38480	0.70	ppb	98
67)	benzyl chloride	17.77	91	13093m	0.80	ppb	
68)	1,4-dichlorobenzene	17.82	146	33501	0.70	ppb	99
69)	1,2-dichlorobenzene	18.10	146	38437	0.75	ppb	98
70)	1,2,4-trichlorobenzene	19.73	180	20838m	0.75	ppb	
71)	Naphthalene	19.88	128	23960m	0.73	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	34156	0.75	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

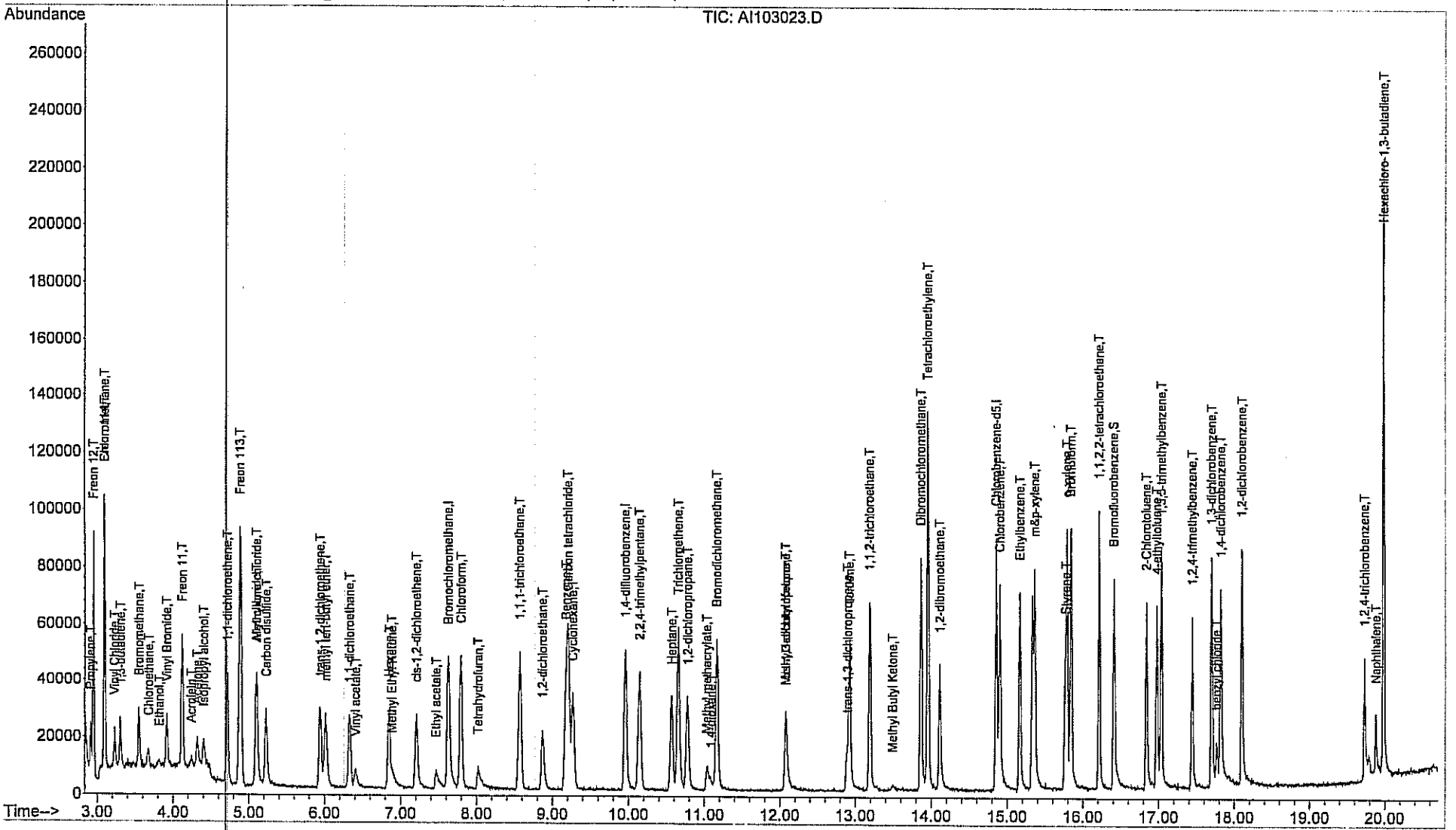
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103023.D
Acq On : 31 Oct 2011 2:53 am
Sample : A1UG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:49 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103023.D AO30_1UG.M Mon Nov 21 10:10:30 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103024.D Vial: 6
Acq On : 31 Oct 2011 3:26 am Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:53 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	21080	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	60326	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	56884	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	26771	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	4992	0.52	ppb		99
3) Freon 12	2.95	85	40599	0.52	ppb		99
4) Chloromethane	3.09	50	7441	0.51	ppb		98
5) Freon 114	3.10	85	22407	0.51	ppb		94
6) Vinyl Chloride	3.23	62	6473	0.52	ppb		100
7) 1,3-butadiene	3.31	39	5623	0.57	ppb		78
8) Bromomethane	3.55	94	9972	0.67	ppb	#	77
9) Ethanol	3.82	45	3049	0.65	ppb	#	16
10) Acrolein	4.24	56	2008m	0.56	ppb		
11) Chloroethane	3.67	64	2604	0.53	ppb		86
12) Vinyl Bromide	3.91	106	7869	0.49	ppb		96
13) Freon 11	4.12	101	23798	0.51	ppb		99
14) Acetone	4.32	58	2658	0.48	ppb		96
15) Isopropyl alcohol	4.40	45	8499	0.65	ppb	#	100
16) 1,1-dichloroethene	4.71	96	10824	0.50	ppb		90
17) Freon 113	4.88	101	27911	0.50	ppb		93
18) Methylene chloride	5.11	84	10440	0.49	ppb	#	88
19) Allyl chloride	5.09	41	7510	0.52	ppb		87
20) Carbon disulfide	5.23	76	33204	0.53	ppb		99
21) trans-1,2-dichloroethene	5.94	61	13573	0.50	ppb		85
22) methyl tert-butyl ether	6.02	73	17445	0.48	ppb	#	50
23) 1,1-dichloroethane	6.33	63	18106	0.49	ppb		96
24) Vinyl acetate	6.41	43	10525m	0.51	ppb		
25) Methyl Ethyl Ketone	6.91	72	2407m	0.49	ppb		
26) cis-1,2-dichloroethene	7.21	61	12162	0.49	ppb		87
27) Hexane	6.84	57	8313	0.45	ppb		97
28) Ethyl acetate	7.47	43	9080	0.52	ppb		96
29) Chloroform	7.79	83	29633	0.51	ppb		99
30) Tetrahydrofuran	8.03	42	3991	0.47	ppb		94
31) 1,2-dichloroethane	8.87	62	15632	0.47	ppb		98
33) 1,1,1-trichloroethane	8.57	97	27457	0.48	ppb		96
34) Cyclohexane	9.27	56	8735	0.44	ppb		91
35) Carbon tetrachloride	9.20	117	27177	0.49	ppb		99
36) Benzene	9.17	78	27421	0.48	ppb		94
37) Methyl methacrylate	11.05	41	5062m	0.54	ppb		
38) 1,4-dioxane	11.11	88	2076m	0.45	ppb		
39) 2,2,4-trimethylpentane	10.15	57	27878	0.45	ppb		96
40) Heptane	10.57	43	8304	0.44	ppb		90
41) Trichloroethene	10.66	130	18086	0.48	ppb		94
42) 1,2-dichloropropane	10.78	63	9935	0.49	ppb		96
43) Bromodichloromethane	11.17	83	27915	0.48	ppb		99
44) cis-1,3-dichloropropene	12.08	75	10682	0.42	ppb		96
45) trans-1,3-dichloropropene	12.89	75	7277	0.44	ppb		88

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103024.D Vial: 6
Acq On : 31 Oct 2011 3:26 am Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:34:53 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	15180	0.48	ppb	98
48)	Toluene	12.92	92	16097	0.45	ppb	87
49)	Methyl Isobutyl Ketone	12.07	43	5207m	0.51	ppb	
50)	Dibromochloromethane	13.86	129	29771	0.48	ppb	98
51)	Methyl Butyl Ketone	13.51	43	2004m	0.30	ppb	
52)	1,2-dibromoethane	14.11	107	21464	0.47	ppb	99
53)	Tetrachloroethylene	13.95	164	20949	0.48	ppb	98
54)	Chlorobenzene	14.90	112	29324	0.49	ppb	93
55)	Ethylbenzene	15.16	91	31454	0.44	ppb	98
56)	m&p-xylene	15.36	91	50251	0.84	ppb	97
57)	Styrene	15.76	104	15181	0.41	ppb	95
58)	Bromoform	15.84	173	27402	0.46	ppb	99
59)	o-xylene	15.79	91	34172	0.42	ppb	90
61)	1,1,2,2-tetrachloroethane	16.21	83	26132	0.47	ppb	99
62)	2-Chlorotoluene	16.84	91	23730	0.44	ppb	97
63)	4-ethyltoluene	16.97	105	21048	0.36	ppb	98
64)	1,3,5-trimethylbenzene	17.03	105	26124	0.39	ppb	96
65)	1,2,4-trimethylbenzene	17.44	105	20849	0.42	ppb	98
66)	1,3-dichlorobenzene	17.70	146	21949	0.39	ppb	96
67)	benzyl chloride	17.77	91	11155m	0.67	ppb	
68)	1,4-dichlorobenzene	17.82	146	19780	0.41	ppb	93
69)	1,2-dichlorobenzene	18.10	146	21959	0.42	ppb	94
70)	1,2,4-trichlorobenzene	19.73	180	12459m	0.44	ppb	
71)	Naphthalene	19.88	128	13780m	0.42	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	20543	0.44	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

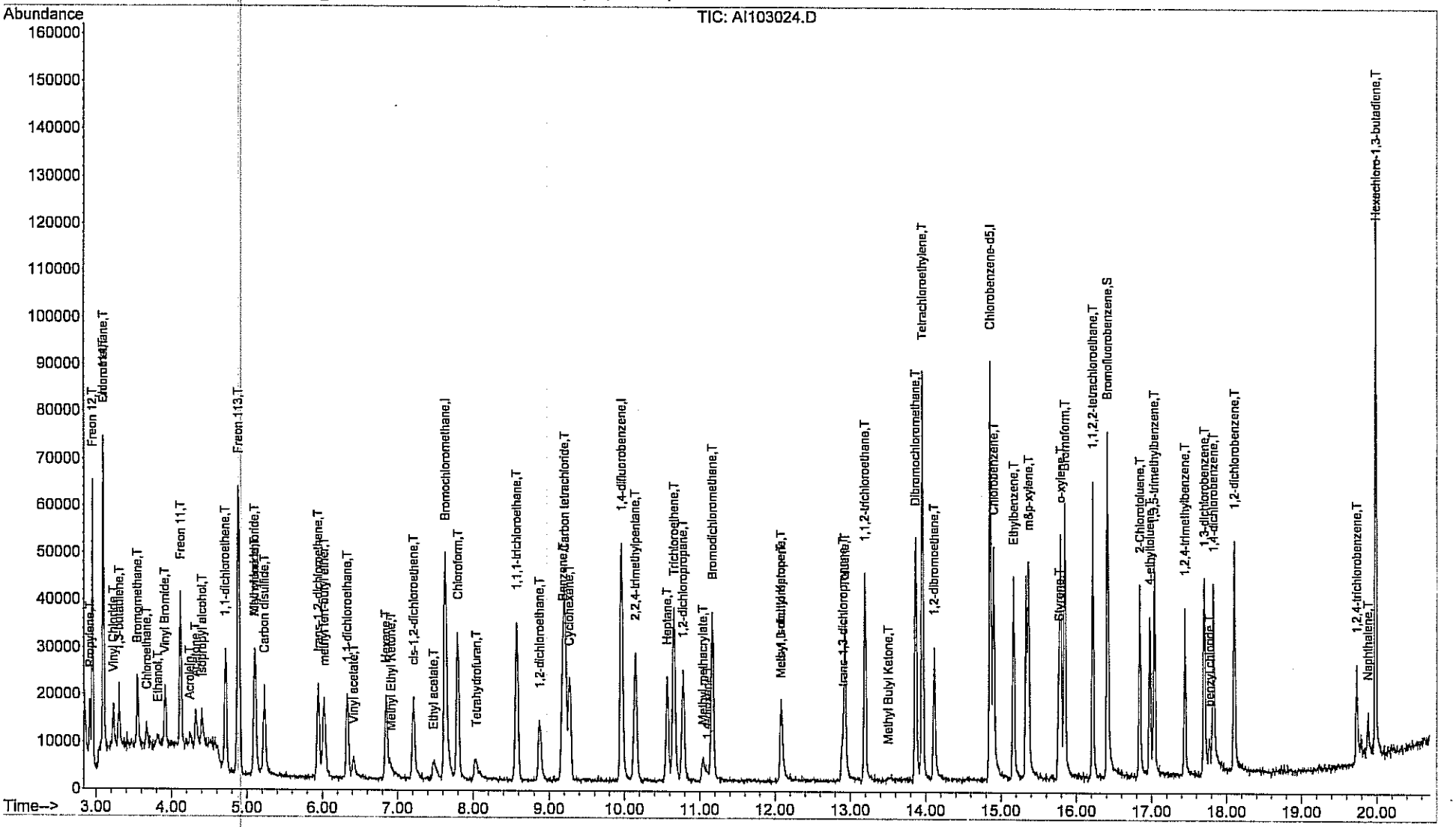
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103024.D
Acq On : 31 Oct 2011 3:26 am
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:51 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103025.D Vial: 7
Acq On : 31 Oct 2011 3:59 am Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:35:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	21158	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	59098	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	55642	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	25031	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	3119	0.32	ppb		92
3) Freon 12	2.95	85	25975	0.33	ppb		99
4) Chloromethane	3.10	50	5142	0.35	ppb		99
5) Freon 114	3.10	85	14492	0.33	ppb		94
6) Vinyl Chloride	3.23	62	4105	0.33	ppb		95
7) 1,3-butadiene	3.30	39	3305	0.33	ppb		97
8) Bromomethane	3.55	94	5865	0.39	ppb		84
9) Ethanol	3.81	45	2606	0.56	ppb	#	26
10) Acrolein	4.25	56	1398m	0.39	ppb		
11) Chloroethane	3.67	64	1642	0.33	ppb		87
12) Vinyl Bromide	3.92	106	5062	0.31	ppb		95
13) Freon 11	4.12	101	15157	0.32	ppb		98
14) Acetone	4.32	58	2181	0.39	ppb	#	77
15) Isopropyl alcohol	4.40	45	7118	0.54	ppb	#	100
16) 1,1-dichloroethene	4.72	96	5011	0.23	ppb		95
17) Freon 113	4.89	101	17935	0.32	ppb		92
18) Methylene chloride	5.10	84	7006	0.33	ppb	#	82
19) Allyl chloride	5.10	41	5067	0.35	ppb		92
20) Carbon disulfide	5.23	76	22083	0.35	ppb		100
21) trans-1,2-dichloroethene	5.94	61	8163	0.30	ppb		79
22) methyl tert-butyl ether	6.02	73	11406	0.31	ppb	#	46
23) 1,1-dichloroethane	6.33	63	11333	0.31	ppb		92
24) Vinyl acetate	6.42	43	6420m	0.31	ppb		
25) Methyl Ethyl Ketone	6.90	72	1556m	0.32	ppb		
26) cis-1,2-dichloroethene	7.21	61	7726	0.31	ppb		85
27) Hexane	6.85	57	5063	0.28	ppb		89
28) Ethyl acetate	7.48	43	6139	0.35	ppb		94
29) Chloroform	7.80	83	18623	0.32	ppb		94
30) Tetrahydrofuran	8.04	42	3055m	0.36	ppb		
31) 1,2-dichloroethane	8.88	62	10508	0.32	ppb		98
33) 1,1,1-trichloroethane	8.57	97	17305	0.31	ppb		94
34) Cyclohexane	9.27	56	5440	0.28	ppb	#	76
35) Carbon tetrachloride	9.21	117	16915	0.31	ppb		97
36) Benzene	9.18	78	16811	0.30	ppb		98
37) Methyl methacrylate	11.05	41	2389	0.26	ppb	#	84
38) 1,4-dioxane	11.10	88	1325m	0.30	ppb		
39) 2,2,4-trimethylpentane	10.15	57	17838	0.30	ppb		96
40) Heptane	10.57	43	5343	0.29	ppb		93
41) Trichloroethene	10.66	130	11284	0.30	ppb		96
42) 1,2-dichloropropane	10.78	63	6117	0.31	ppb		97
43) Bromodichloromethane	11.17	83	17768	0.31	ppb		99
44) cis-1,3-dichloropropene	12.09	75	6380	0.26	ppb		92
45) trans-1,3-dichloropropene	12.89	75	4288	0.27	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103025.D Vial: 7
Acq On : 31 Oct 2011 3:59 am Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:35:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	9728	0.31	ppb	98
48)	Toluene	12.92	92	9573	0.28	ppb	96
49)	Methyl Isobutyl Ketone	12.08	43	2788	0.28	ppb	83
50)	Dibromochloromethane	13.86	129	18881	0.31	ppb	97
51)	Methyl Butyl Ketone	13.49	43	2023m	0.30	ppb	
52)	1,2-dibromoethane	14.12	107	12676	0.28	ppb	95
53)	Tetrachloroethylene	13.95	164	13160	0.31	ppb	96
54)	Chlorobenzene	14.90	112	17693	0.30	ppb	99
55)	Ethylbenzene	15.16	91	18395	0.26	ppb	95
56)	m&p-xylene	15.36	91	30257	0.52	ppb	97
57)	Styrene	15.76	104	9680m	0.26	ppb	
58)	Bromoform	15.84	173	17144	0.30	ppb	96
59)	o-xylene	15.79	91	21302m	0.26	ppb	
61)	1,1,2,2-tetrachloroethane	16.22	83	18181	0.33	ppb	99
62)	2-Chlorotoluene	16.84	91	14813	0.28	ppb	100
63)	4-ethyltoluene	16.98	105	13198	0.23	ppb	95
64)	1,3,5-trimethylbenzene	17.04	105	15442	0.24	ppb	93
65)	1,2,4-trimethylbenzene	17.44	105	15240m	0.31	ppb	
66)	1,3-dichlorobenzene	17.70	146	14012	0.26	ppb	99
67)	benzyl chloride	17.77	91	5818m	0.36	ppb	
68)	1,4-dichlorobenzene	17.82	146	14926m	0.31	ppb	
69)	1,2-dichlorobenzene	18.10	146	17620m	0.34	ppb	
70)	1,2,4-trichlorobenzene	19.73	180	8439m	0.31	ppb	
71)	Naphthalene	19.88	128	10121m	0.31	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	14710	0.32	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103025.D AO30_1UG.M Mon Nov 21 10:10:35 2011 MSD1 Page 2

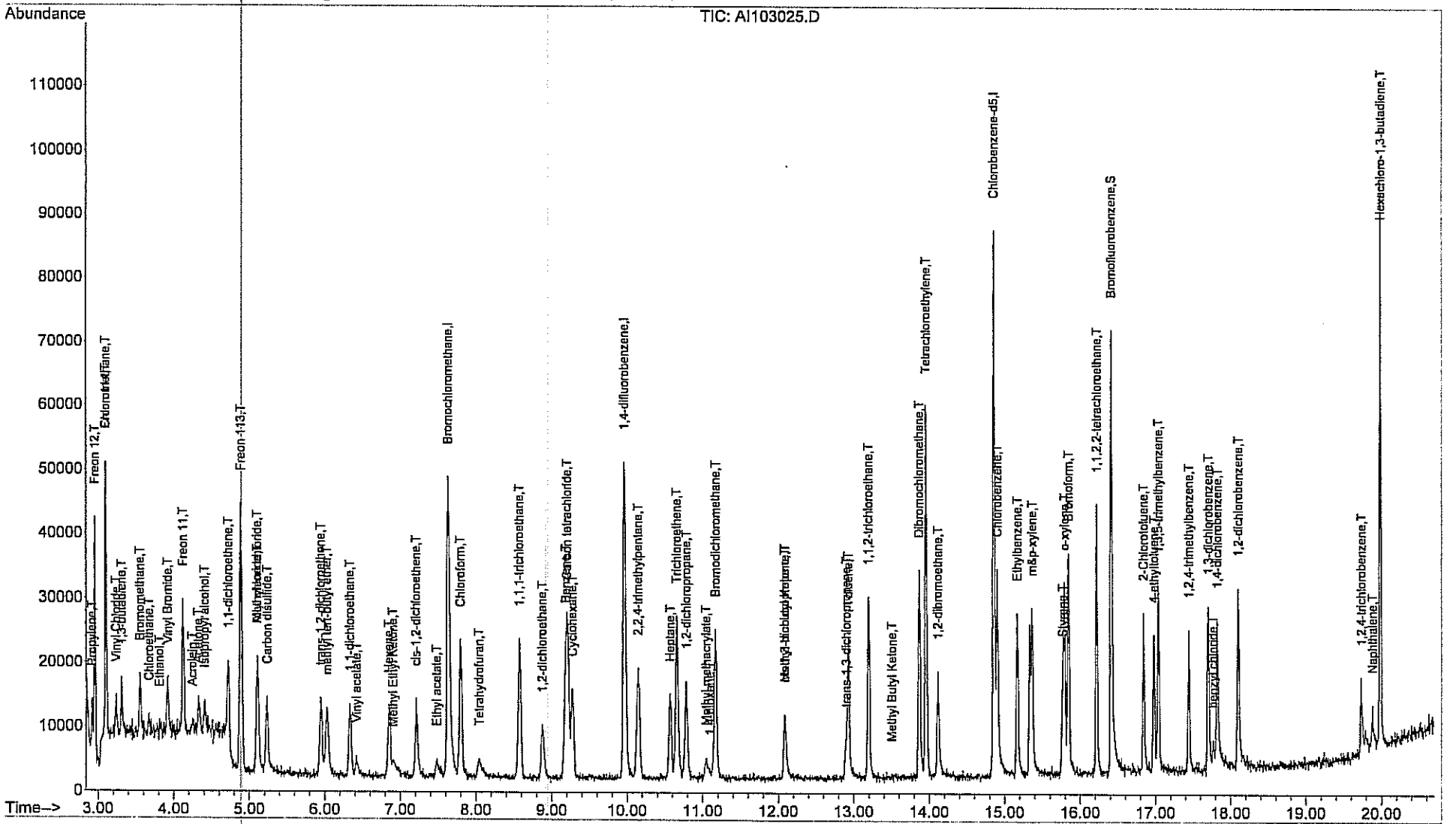
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103025.D
Acq On : 31 Oct 2011 3:59 am
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:53 2011

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103025.D AO30_1UG.M Mon Nov 21 10:10:36 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103026.D Vial: 8
Acq On : 31 Oct 2011 4:32 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:35:34 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	21766	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	59903	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	53750	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	24460	0.97	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	1816	0.18	ppb		91
3) Freon 12	2.95	85	13913	0.17	ppb		96
4) Chloromethane	3.09	50	2797	0.18	ppb		78
5) Freon 114	3.10	85	8088	0.18	ppb		98
6) Vinyl Chloride	3.23	62	2161	0.17	ppb		85
7) 1,3-butadiene	3.31	39	1961	0.19	ppb		81
8) Bromomethane	3.55	94	3601	0.23	ppb	#	70
9) Ethanol	3.81	45	755m	0.16	ppb		
10) Acrolein	4.25	56	702	0.19	ppb		96
11) Chloroethane	3.67	64	896	0.18	ppb		83
12) Vinyl Bromide	3.91	106	2570	0.15	ppb		86
13) Freon 11	4.12	101	8121	0.17	ppb		98
14) Acetone	4.33	58	1276	0.22	ppb	#	52
15) Isopropyl alcohol	4.40	45	2702m	0.20	ppb		
16) 1,1-dichloroethene	4.72	96	2925m	0.13	ppb		
18) Methylene chloride	5.11	84	3488	0.16	ppb	#	86
19) Allyl chloride	5.10	41	2556	0.17	ppb		88
20) Carbon disulfide	5.23	76	11922	0.18	ppb		97
21) trans-1,2-dichloroethene	5.95	61	4251	0.15	ppb		87
22) methyl tert-butyl ether	6.03	73	6527	0.17	ppb	#	46
23) 1,1-dichloroethane	6.33	63	5814	0.15	ppb		94
24) Vinyl acetate	6.41	43	2988	0.14	ppb		89
25) Methyl Ethyl Ketone	6.93	72	747m	0.15	ppb		
26) cis-1,2-dichloroethene	7.21	61	3535	0.14	ppb	#	72
27) Hexane	6.84	57	2488	0.13	ppb		95
28) Ethyl acetate	7.48	43	3049	0.17	ppb		72
29) Chloroform	7.79	83	10170	0.17	ppb		99
30) Tetrahydrofuran	8.04	42	1218	0.14	ppb	#	50
31) 1,2-dichloroethane	8.89	62	5482	0.16	ppb		87
33) 1,1,1-trichloroethane	8.57	97	8847	0.16	ppb		94
34) Cyclohexane	9.26	56	2721	0.14	ppb	#	84
35) Carbon tetrachloride	9.21	117	8964	0.16	ppb		99
36) Benzene	9.18	78	8696	0.15	ppb		96
37) Methyl methacrylate	11.05	41	1357	0.15	ppb	#	89
39) 2,2,4-trimethylpentane	10.14	57	9406	0.15	ppb		95
40) Heptane	10.57	43	2706	0.15	ppb		88
41) Trichloroethene	10.65	130	5923	0.16	ppb		94
42) 1,2-dichloropropane	10.78	63	3042	0.15	ppb		92
43) Bromodichloromethane	11.17	83	8690	0.15	ppb		99
44) cis-1,3-dichloropropene	12.09	75	3106	0.12	ppb		93
45) trans-1,3-dichloropropene	12.89	75	2087m	0.13	ppb		
46) 1,1,2-trichloroethane	13.19	97	4572	0.14	ppb		99
48) Toluene	12.93	92	4490	0.13	ppb		90

(#) = qualifier out of range (m) = manual integration
AI103026.D AO30_1UG.M Mon Nov 21 10:10:38 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103026.D Vial: 8
Acq On : 31 Oct 2011 4:32 am Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:35:34 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50)	Dibromochloromethane	13.86	129	9259	0.16	ppb	99
52)	1,2-dibromoethane	14.12	107	6268	0.14	ppb	99
53)	Tetrachloroethylene	13.95	164	6918	0.17	ppb	98
54)	Chlorobenzene	14.90	112	8337	0.15	ppb	99
55)	Ethylbenzene	15.16	91	8775	0.13	ppb	97
56)	m&p-xylene	15.33	91	13818	0.25	ppb	98
57)	Styrene	15.76	104	4722m	0.13	ppb	
58)	Bromoform	15.84	173	8174	0.15	ppb	97
59)	o-xylene	15.79	91	9361m	0.12	ppb	
61)	1,1,2,2-tetrachloroethane	16.21	83	9278	0.17	ppb	99
62)	2-Chlorotoluene	16.84	91	6980	0.14	ppb	100
63)	4-ethyltoluene	16.98	105	6807m	0.12	ppb	
64)	1,3,5-trimethylbenzene	17.03	105	8216	0.13	ppb	96
65)	1,2,4-trimethylbenzene	17.44	105	6033	0.13	ppb	96
66)	1,3-dichlorobenzene	17.70	146	6530	0.12	ppb	98
67)	benzyl chloride	17.77	91	2215m	0.14	ppb	
68)	1,4-dichlorobenzene	17.83	146	6884	0.15	ppb	89
69)	1,2-dichlorobenzene	18.10	146	7061	0.14	ppb	92
70)	1,2,4-trichlorobenzene	19.73	180	4469m	0.17	ppb	
71)	Naphthalene	19.88	128	5313m	0.17	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	7959	0.18	ppb	97

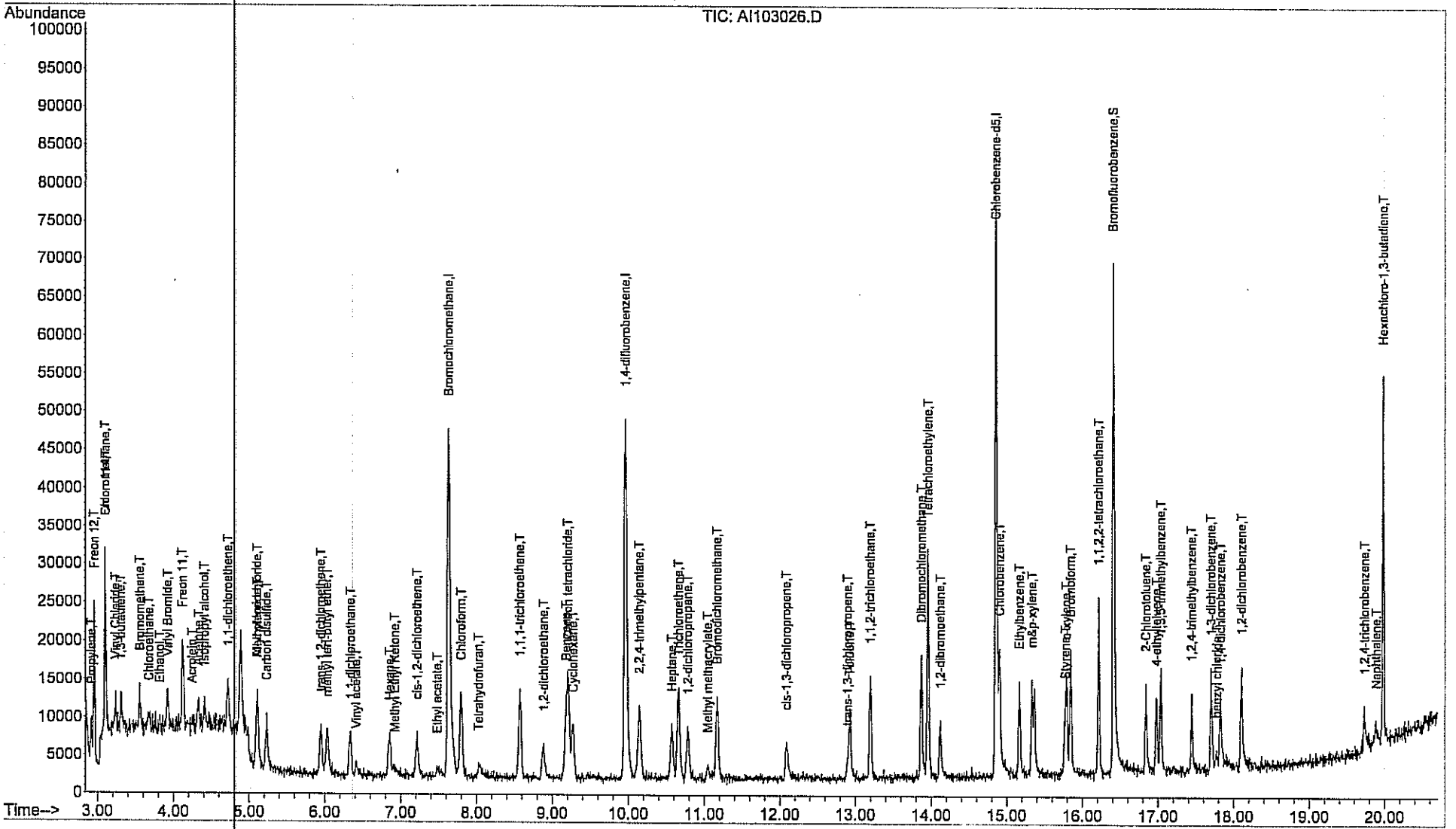
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI103026.D
Acq On : 31 Oct 2011 4:32 am
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:55 2011

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103028.D Vial: 10
Acq On : 31 Oct 2011 5:37 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:36:11 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.63	128	20317	1.00	ppb	0.00
32) 1,4-difluorobenzene	9.96	114	53092	1.00	ppb	0.00
47) Chlorobenzene-d5	14.85	117	49935	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	21783	0.93	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.23	62	1407m	0.12	ppb	
35) Carbon tetrachloride	9.21	117	5702	0.12	ppb	99
41) Trichloroethene	10.65	130	3613	0.11	ppb	96

ND

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103028.D AO30_1UG.M Mon Nov 21 10:10:42 2011 MSD1 Page 1

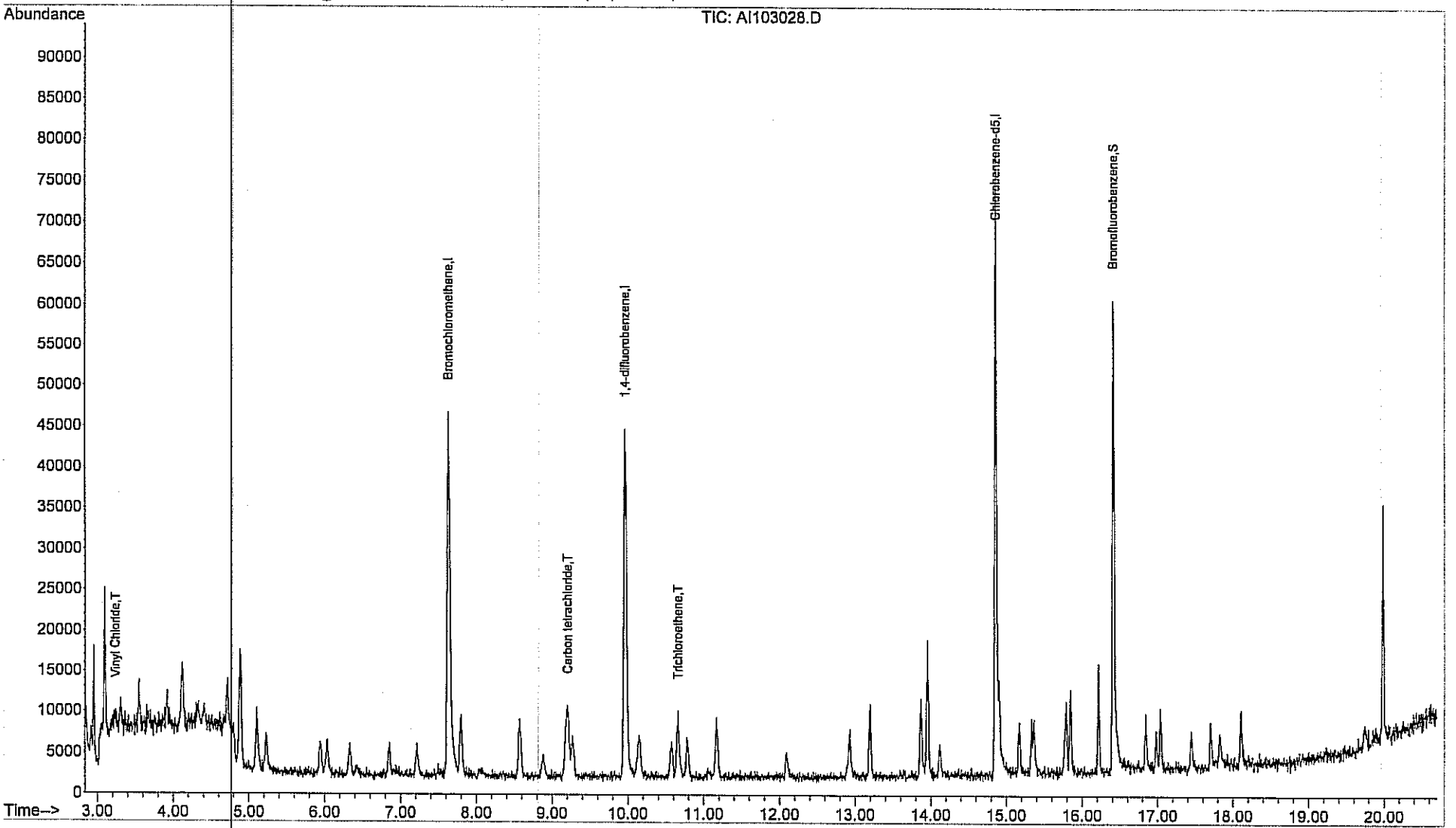
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103028.D
Acq On : 31 Oct 2011 5:37 am
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:57 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103029.D Vial: 11
Acq On : 31 Oct 2011 6:09 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 09:36:27 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 09:33:16 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	20826	1.00	ppb	0.01
32) 1,4-difluorobenzene	9.97	114	52756	1.00	ppb	0.00
47) Chlorobenzene-d5	14.86	117	48893	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	22738m	1.00	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue
35) Carbon tetrachloride	9.21	117	2846	0.06	ppb	99
41) Trichloroethene	10.66	130	1795	0.05	ppb	95

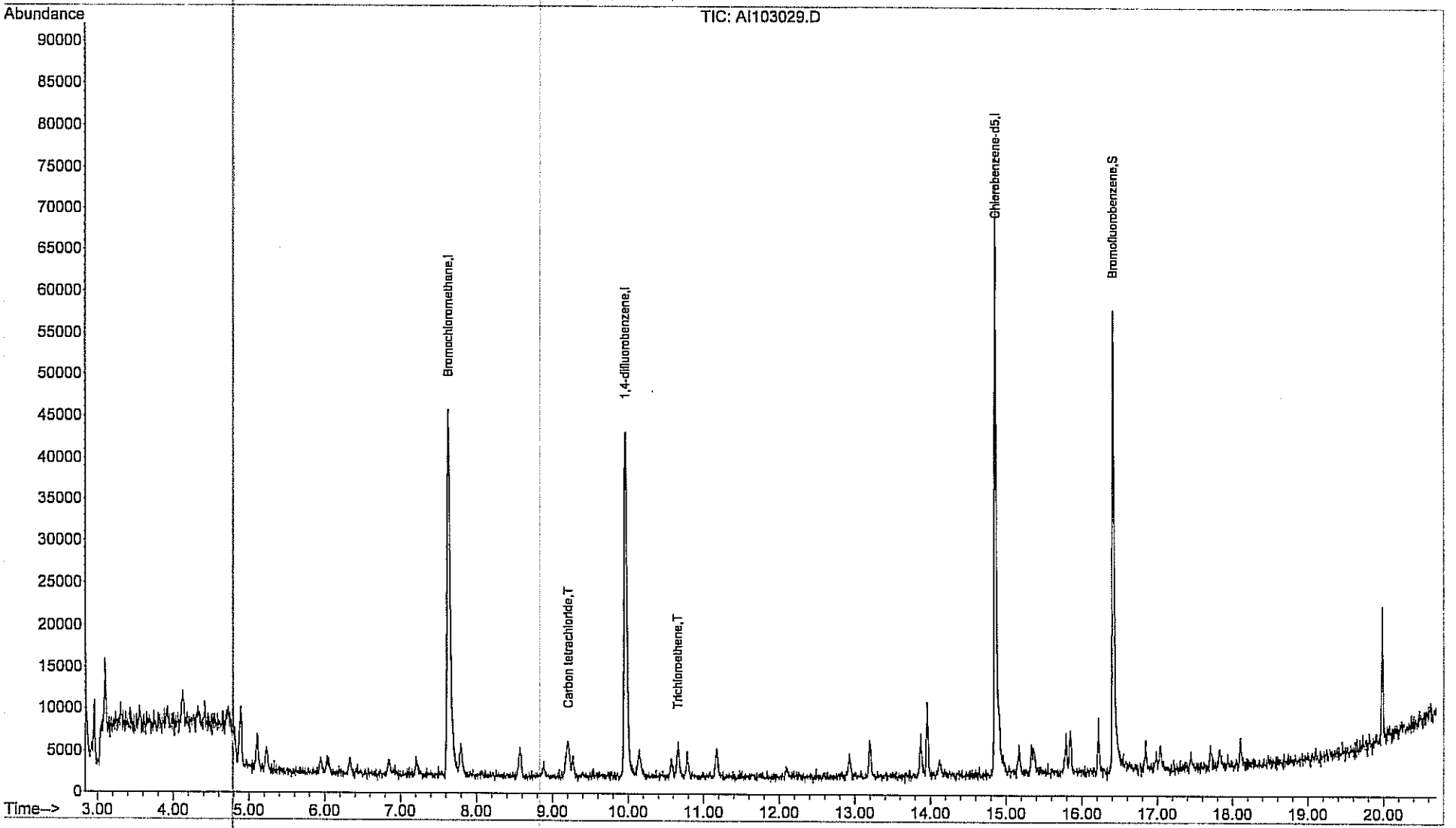
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103029.D AO30_1UG.M Mon Nov 21 10:10:45 2011 MSD1 Page 1

Data File : C:\HPCHEM\1\DATA\AI103029.D
Acq On : 31 Oct 2011 6:09 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 31 8:58 2011

Vial: 11
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI103022.D



AI103029.D AO30_1UG.M Mon Nov 21 10:10:46 2011 MSD1

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI103102.D Vial: 13
Acq On : 31 Oct 2011 10:27 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	96	0.00
2	T	Propylene	0.481	0.437	9.1	92	0.00
3	T	Freon 12	3.856	3.808	1.2	99	0.00
4	T	Chloromethane	0.732	0.729	0.4	100	0.00
5	T	Freon 114	2.179	2.168	0.5	98	0.00
6	T	Vinyl Chloride	0.616	0.626	-1.6	102	0.00
7	T	1,3-butadiene	0.489	0.402	17.8	82	0.00
8	T	Bromomethane	0.844	0.791	6.3	106	0.00
9	T	Ethanol	0.264	0.236	10.6	97	0.00
10	T	Acrolein	0.183	0.158	13.7	89	0.00
11	T	Chloroethane	0.249	0.226	9.2	92	0.00
12	T	Vinyl Bromide	0.776	0.766	1.3	96	0.00
13	T	Freon 11	2.278	2.275	0.1	99	0.00
14	T	Acetone	0.291	0.277	4.8	101	0.00
15	T	Isopropyl alcohol	0.764	0.699	8.5	108	0.00
16	T	1,1-dichloroethene	0.934	0.659	29.4	62	0.00
17	T	Freon 113	2.437	2.724	-11.8	98	0.00
18	T	Methylene chloride	1.040	1.068	-2.7	101	0.00
19	T	Allyl chloride	0.743	0.738	0.7	103	0.00
20	T	Carbon disulfide	3.165	3.124	1.3	100	0.00
21	T	trans-1,2-dichloroethene	1.295	1.275	1.5	95	0.00
22	T	methyl tert-butyl ether	1.815	1.583	12.8	87	0.00
23	T	1,1-dichloroethane	1.761	1.799	-2.2	99	0.00
24	T	Vinyl acetate	0.985	0.815	17.3	77	0.00
25	T	Methyl Ethyl Ketone	0.251	0.245	2.4	97	0.00
26	T	cis-1,2-dichloroethene	1.168	1.159	0.8	93	0.00
27	T	Hexane	0.859	0.871	-1.4	96	0.00
28	T	Ethyl acetate	0.916	0.861	6.0	97	0.00
29	T	Chloroform	2.863	2.780	2.9	97	0.00
30	T	Tetrahydrofuran	0.440	0.379	13.9	86	0.00
31	T	1,2-dichloroethane	1.603	1.578	1.6	96	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	95	0.00
33	T	1,1,1-trichloroethane	0.936	0.960	-2.6	97	0.00
34	T	Cyclohexane	0.316	0.326	-3.2	95	0.00
35	T	Carbon tetrachloride	0.986	0.989	-0.3	102	0.00
36	T	Benzene	0.945	0.933	1.3	94	0.00
37	T	Methyl methacrylate	0.163	0.154	5.5	93	0.00
38	T	1,4-dioxane	0.085	0.080	5.9	97	0.00
39	T	2,2,4-trimethylpentane	1.015	1.007	0.8	94	0.00
40	T	Heptane	0.303	0.299	1.3	92	0.00
41	T	Trichloroethene	0.651	0.622	4.5	94	0.00
42	T	1,2-dichloropropane	0.336	0.329	2.1	94	0.00
43	T	Bromodichloromethane	0.954	0.987	-3.5	97	0.00
44	T	cis-1,3-dichloropropene	0.400	0.418	-4.5	95	0.00
45	T	trans-1,3-dichloropropene	0.267	0.291	-9.0	101	0.00
46	T	1,1,2-trichloroethane	0.528	0.529	-0.2	95	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	97	0.00
48	T	Toluene	0.616	0.584	5.2	91	0.00
49	T	Methyl Isobutyl Ketone	0.188	0.167	11.2	91	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI103102.D Vial: 13
Acq On : 31 Oct 2011 10:27 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.097	1.104	-0.6	97	0.00
51	T	Methyl Butyl Ketone	0.112	0.120	-7.1	101	0.00
52	T	1,2-dibromoethane	0.803	0.810	-0.9	97	0.00
53	T	Tetrachloroethylene	0.767	0.739	3.7	93	0.00
54	T	Chlorobenzene	1.065	1.036	2.7	95	0.00
55	T	Ethylbenzene	1.238	1.138	8.1	88	0.00
56	T	m&p-xylene	1.025	0.956	6.7	88	0.00
57	T	Styrene	0.663	0.600	9.5	88	0.00
58	T	Bromoform	1.033	1.057	-2.3	98	0.00
59	T	o-xylene	1.319	1.090	17.4	73	0.00
60	S	Bromofluorobenzene	0.478	0.485	-1.5	100	0.00
61	T	1,1,2,2-tetrachloroethane	1.030	0.977	5.1	96	0.00
62	T	2-Chlorotoluene	0.966	0.904	6.4	92	0.00
63	T	4-ethyltoluene	1.020	0.962	5.7	91	0.00
64	T	1,3,5-trimethylbenzene	1.152	1.108	3.8	93	0.00
65	T	1,2,4-trimethylbenzene	0.924	0.831	10.1	92	0.00
66	T	1,3-dichlorobenzene	0.939	0.939	0.0	93	0.00
67	T	benzyl chloride	0.326	0.275	15.6	91	0.00
68	T	1,4-dichlorobenzene	0.887	0.832	6.2	96	0.00
69	T	1,2-dichlorobenzene	0.952	0.911	4.3	96	0.00
70	T	1,2,4-trichlorobenzene	0.514	0.496	3.5	94	0.00
71	T	Naphthalene	0.614	0.648	-5.5	108	0.00
72	T	Hexachloro-1,3-butadiene	0.841	0.856	-1.8	102	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103102.D Vial: 13
Acq On : 31 Oct 2011 10:27 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 10:47:57 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	20531	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	57419	1.00	ppb		0.00
47) Chlorobenzene-d5	14.85	117	56959	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	27653	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	8980	0.91	ppb		100
3) Freon 12	2.95	85	78178	0.99	ppb		99
4) Chloromethane	3.09	50	14975	1.00	ppb		99
5) Freon 114	3.10	85	44521	0.99	ppb		95
6) Vinyl Chloride	3.23	62	12853	1.02	ppb		99
7) 1,3-butadiene	3.31	39	8259	0.82	ppb		93
8) Bromomethane	3.55	94	16237	0.94	ppb		94
9) Ethanol	3.81	45	4854	0.90	ppb	#	33
10) Acrolein	4.23	56	3243	0.86	ppb		92
11) Chloroethane	3.67	64	4637	0.91	ppb		83
12) Vinyl Bromide	3.92	106	15724	0.99	ppb		99
13) Freon 11	4.12	101	46709	1.00	ppb		99
14) Acetone	4.32	58	5677	0.95	ppb		96
15) Isopropyl alcohol	4.40	45	14344	0.91	ppb	#	100
16) 1,1-dichloroethene	4.72	96	13533	0.71	ppb		96
17) Freon 113	4.89	101	55936	1.12	ppb		95
18) Methylene chloride	5.11	84	21919	1.03	ppb	#	82
19) Allyl chloride	5.09	41	15152	0.99	ppb		88
20) Carbon disulfide	5.23	76	64129	0.99	ppb		100
21) trans-1,2-dichloroethene	5.95	61	26184	0.99	ppb		85
22) methyl tert-butyl ether	6.02	73	32498	0.87	ppb	#	49
23) 1,1-dichloroethane	6.33	63	36926	1.02	ppb		97
24) Vinyl acetate	6.40	43	16731	0.83	ppb		99
25) Methyl Ethyl Ketone	6.89	72	5024	0.97	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	23798	0.99	ppb		87
27) Hexane	6.85	57	17882	1.01	ppb		92
28) Ethyl acetate	7.46	43	17673	0.94	ppb		97
29) Chloroform	7.80	83	57069	0.97	ppb		99
30) Tetrahydrofuran	8.03	42	7787	0.86	ppb		95
31) 1,2-dichloroethane	8.88	62	32393	0.98	ppb		99
33) 1,1,1-trichloroethane	8.57	97	55106	1.03	ppb		98
34) Cyclohexane	9.28	56	18705	1.03	ppb		92
35) Carbon tetrachloride	9.21	117	56794	1.00	ppb		100
36) Benzene	9.18	78	53582	0.99	ppb		95
37) Methyl methacrylate	11.03	41	8871	0.95	ppb	#	85
38) 1,4-dioxane	11.07	88	4600	0.95	ppb		85
39) 2,2,4-trimethylpentane	10.14	57	57803	0.99	ppb		96
40) Heptane	10.57	43	17159	0.99	ppb		92
41) Trichloroethene	10.66	130	35727	0.96	ppb		98
42) 1,2-dichloropropane	10.78	63	18915	0.98	ppb		97
43) Bromodichloromethane	11.17	83	56651	1.03	ppb		99
44) cis-1,3-dichloropropene	12.08	75	24017	1.05	ppb		95
45) trans-1,3-dichloropropene	12.89	75	16722	1.09	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103102.D Vial: 13
Acq On : 31 Oct 2011 10:27 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 10:47:57 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

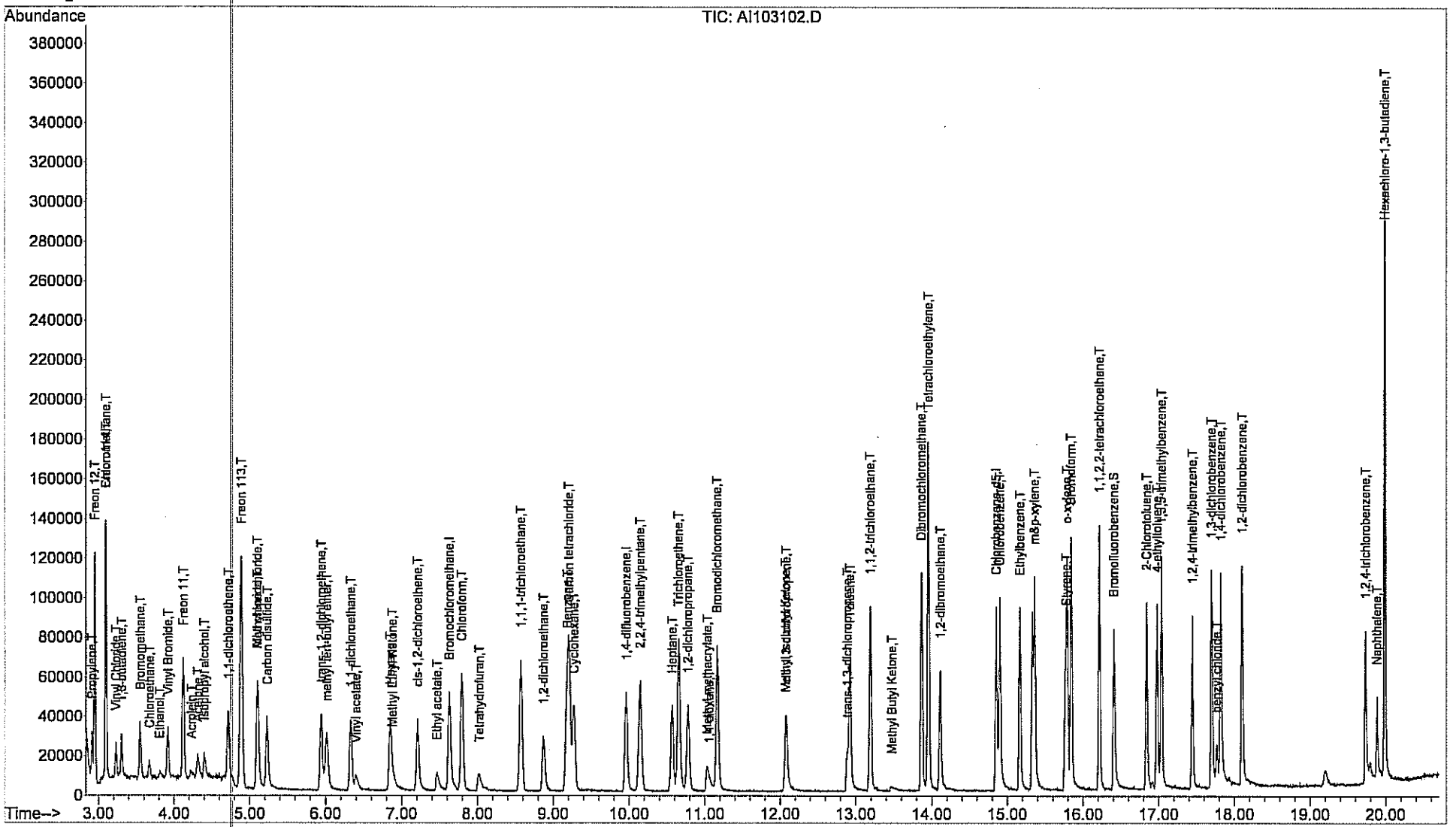
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	30400	1.00	ppb	98
48)	Toluene	12.92	92	33273	0.95	ppb	91
49)	Methyl Isobutyl Ketone	12.06	43	9511	0.89	ppb	98
50)	Dibromochloromethane	13.86	129	62880	1.01	ppb	99
51)	Methyl Butyl Ketone	13.47	43	6826m	1.07	ppb	
52)	1,2-dibromoethane	14.11	107	46115	1.01	ppb	99
53)	Tetrachloroethylene	13.95	164	42077	0.96	ppb	100
54)	Chlorobenzene	14.90	112	59026	0.97	ppb	97
55)	Ethylbenzene	15.16	91	64815	0.92	ppb	97
56)	m&p-xylene	15.36	91	108896	1.87	ppb	94
57)	Styrene	15.77	104	34174	0.90	ppb	95
58)	Bromoform	15.84	173	60189	1.02	ppb	99
59)	o-xylene	15.79	91	62057	0.83	ppb	94
61)	1,1,2,2-tetrachloroethane	16.21	83	55658	0.95	ppb	98
62)	2-Chlorotoluene	16.84	91	51500	0.94	ppb	98
63)	4-ethyltoluene	16.98	105	54784	0.94	ppb	95
64)	1,3,5-trimethylbenzene	17.04	105	63102	0.96	ppb	95
65)	1,2,4-trimethylbenzene	17.44	105	47337	0.90	ppb	100
66)	1,3-dichlorobenzene	17.70	146	53487	1.00	ppb	97
67)	benzyl chloride	17.77	91	15676	0.85	ppb	96
68)	1,4-dichlorobenzene	17.82	146	47373	0.94	ppb	97
69)	1,2-dichlorobenzene	18.10	146	51882	0.96	ppb	97
70)	1,2,4-trichlorobenzene	19.73	180	28252	0.96	ppb	98
71)	Naphthalene	19.89	128	36915	1.06	ppb	97
72)	Hexachloro-1,3-butadiene	19.99	225	48751	1.02	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103102.D Vial: 13
Acq On : 31 Oct 2011 10:27 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:04 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Initial Calibration



AI103102.D AO30_1UG.M Mon Nov 21 10:02:26 2011 MSD1 Page 3

Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI110104.D Vial: 6
Acq On : 1 Nov 2011 1:49 pm Operator: RJP
Sample : A1UG-1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	89	0.00
2	T	Propylene	0.481	0.490	-1.9	96	0.00
3	T	Freon 12	3.856	4.086	-6.0	99	0.00
4	T	Chloromethane	0.732	0.816	-11.5	104	0.00
5	T	Freon 114	2.179	2.512	-15.3	106	0.00
6	T	Vinyl Chloride	0.616	0.683	-10.9	103	0.00
7	T	1,3-butadiene	0.489	0.536	-9.6	101	0.00
8	T	Bromomethane	0.844	0.850	-0.7	106	0.00
9	T	Ethanol	0.264	0.227	14.0	87	0.00
10	T	Acrolein	0.183	0.183	0.0	96	0.00
11	T	Chloroethane	0.249	0.279	-12.0	106	0.00
12	T	Vinyl Bromide	0.776	0.909	-17.1	106	0.00
13	T	Freon 11	2.278	2.695	-18.3	108	0.00
14	T	Acetone	0.291	0.305	-4.8	103	0.01
15	T	Isopropyl alcohol	0.764	0.817	-6.9	117	0.00
16	T	1,1-dichloroethene	0.934	0.748	19.9	65	0.00
17	T	Freon 113	2.437	1.779	27.0	60	0.00
18	T	Methylene chloride	1.040	0.744	28.5	65	0.00
19	T	Allyl chloride	0.743	0.688	7.4	89	0.00
20	T	Carbon disulfide	3.165	2.923	7.6	87	0.00
21	T	trans-1,2-dichloroethene	1.295	1.336	-3.2	92	0.00
22	T	methyl tert-butyl ether	1.815	1.628	10.3	83	0.00
23	T	1,1-dichloroethane	1.761	1.965	-11.6	100	0.00
24	T	Vinyl acetate	0.985	1.039	-5.5	91	0.00
25	T	Methyl Ethyl Ketone	0.251	0.237	5.6	87	0.00
26	T	cis-1,2-dichloroethene	1.168	1.217	-4.2	91	0.00
27	T	Hexane	0.859	0.881	-2.6	90	0.00
28	T	Ethyl acetate	0.916	0.803	12.3	84	0.00
29	T	Chloroform	2.863	3.113	-8.7	101	0.00
30	T	Tetrahydrofuran	0.440	0.354	19.5	74	-0.01
31	T	1,2-dichloroethane	1.603	1.703	-6.2	96	0.00
32	I	1,4-difluorobenzene	1.000	1.000	0.0	79	0.00
33	T	1,1,1-trichloroethane	0.936	1.169	-24.9	99	0.00
34	T	Cyclohexane	0.316	0.355	-12.3	86	0.00
35	T	Carbon tetrachloride	0.986	1.263	-28.1	108	0.00
36	T	Benzene	0.945	1.114	-17.9	93	0.00
37	T	Methyl methacrylate	0.163	0.169	-3.7	85	0.00
38	T	1,4-dioxane	0.085	0.107	-25.9	108	0.00
39	T	2,2,4-trimethylpentane	1.015	1.122	-10.5	87	0.00
40	T	Heptane	0.303	0.337	-11.2	86	0.00
41	T	Trichloroethene	0.651	0.743	-14.1	94	0.00
42	T	1,2-dichloropropane	0.336	0.411	-22.3	98	0.00
43	T	Bromodichloromethane	0.954	1.157	-21.3	95	0.00
44	T	cis-1,3-dichloropropene	0.400	0.488	-22.0	92	0.00
45	T	trans-1,3-dichloropropene	0.267	0.300	-12.4	87	0.00
46	T	1,1,2-trichloroethane	0.528	0.676	-28.0	101	0.00
47	I	Chlorobenzene-d5	1.000	1.000	0.0	84	0.00
48	T	Toluene	0.616	0.657	-6.7	89	0.00
49	T	Methyl Isobutyl Ketone	0.188	0.400	-112.8#	189#	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI110104.D Vial: 6
Acq On : 1 Nov 2011 1:49 pm Operator: RJP
Sample : A1UG-1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Dibromochloromethane	1.097	1.358	-23.8	104	0.00
51	T	Methyl Butyl Ketone	0.112	0.438	-291.1#	321#	-0.03
52	T	1,2-dibromoethane	0.803	0.991	-23.4	103	0.00
53	T	Tetrachloroethylene	0.767	0.827	-7.8	91	0.00
54	T	Chlorobenzene	1.065	1.149	-7.9	91	0.00
55	T	Ethylbenzene	1.238	1.289	-4.1	86	0.00
56	T	m&p-xylene	1.025	1.097	-7.0	88	0.00
57	T	Styrene	0.663	0.616	7.1	79	0.00
58	T	Bromoform	1.033	1.319	-27.7	107	0.00
59	T	o-xylene	1.319	1.554	-17.8	90	0.00
60	S	Bromofluorobenzene	0.478	0.526	-10.0	94	0.00
61	T	1,1,2,2-tetrachloroethane	1.030	1.170	-13.6	100	0.00
62	T	2-Chlorotoluene	0.966	1.006	-4.1	89	0.00
63	T	4-ethyltoluene	1.020	0.831	18.5	69	0.00
64	T	1,3,5-trimethylbenzene	1.152	1.001	13.1	73	0.00
65	T	1,2,4-trimethylbenzene	0.924	0.663	28.2	64	0.00
66	T	1,3-dichlorobenzene	0.939	0.954	-1.6	82	0.00
67	T	benzyl chloride	0.326	0.313	4.0	90	0.00
68	T	1,4-dichlorobenzene	0.887	0.865	2.5	87	0.00
69	T	1,2-dichlorobenzene	0.952	0.818	14.1	75	0.00
70	T	1,2,4-trichlorobenzene	0.514	0.396	23.0	65	0.00
71	T	Naphthalene	0.614	0.443	27.9	64	0.00
72	T	Hexachloro-1,3-butadiene	0.841	0.641	23.8	66	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110104.D Vial: 6
Acq On : 1 Nov 2011 1:49 pm Operator: RJP
Sample : A1UG-1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 14:10:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	19074	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	47779	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	49531	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	26052	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	9355	1.02	ppb		92
3) Freon 12	2.95	85	77938	1.06	ppb		97
4) Chloromethane	3.10	50	15557	1.11	ppb		99
5) Freon 114	3.10	85	47910	1.15	ppb		94
6) Vinyl Chloride	3.23	62	13031	1.11	ppb		99
7) 1,3-butadiene	3.31	39	10222	1.09	ppb		89
8) Bromomethane	3.55	94	16207	1.01	ppb		96
9) Ethanol	3.82	45	4325m	0.86	ppb		
10) Acrolein	4.24	56	3489	1.00	ppb		88
11) Chloroethane	3.68	64	5325	1.12	ppb		88
12) Vinyl Bromide	3.92	106	17338	1.17	ppb		97
13) Freon 11	4.12	101	51398	1.18	ppb		99
14) Acetone	4.33	58	5820	1.05	ppb		93
15) Isopropyl alcohol	4.40	45	15576	1.07	ppb	#	100
16) 1,1-dichloroethene	4.72	96	14260	0.80	ppb		95
17) Freon 113	4.89	101	33931	0.73	ppb		94
18) Methylene chloride	5.11	84	14185m	0.71	ppb		
19) Allyl chloride	5.09	41	13132	0.93	ppb		93
20) Carbon disulfide	5.23	76	55758	0.92	ppb		99
21) trans-1,2-dichloroethene	5.95	61	25474	1.03	ppb		85
22) methyl tert-butyl ether	6.02	73	31047	0.90	ppb	#	49
23) 1,1-dichloroethane	6.33	63	37485	1.12	ppb		96
24) Vinyl acetate	6.40	43	19814	1.05	ppb		98
25) Methyl Ethyl Ketone	6.88	72	4526m	0.94	ppb		
26) cis-1,2-dichloroethene	7.22	61	23205	1.04	ppb		87
27) Hexane	6.85	57	16795	1.02	ppb		92
28) Ethyl acetate	7.47	43	15319	0.88	ppb		97
29) Chloroform	7.80	83	59371	1.09	ppb		98
30) Tetrahydrofuran	8.01	42	6750	0.80	ppb		91
31) 1,2-dichloroethane	8.87	62	32478	1.06	ppb		98
33) 1,1,1-trichloroethane	8.58	97	55836m	1.25	ppb		
34) Cyclohexane	9.28	56	16974	1.12	ppb	#	83
35) Carbon tetrachloride	9.22	117	60321m	1.28	ppb		
36) Benzene	9.18	78	53209	1.18	ppb		93
37) Methyl methacrylate	11.03	41	8053	1.04	ppb	#	86
38) 1,4-dioxane	11.06	88	5103m	1.26	ppb		
39) 2,2,4-trimethylpentane	10.15	57	53597	1.11	ppb		96
40) Heptane	10.57	43	16081	1.11	ppb		85
41) Trichloroethene	10.66	130	35483	1.14	ppb		97
42) 1,2-dichloropropane	10.78	63	19639	1.22	ppb		97
43) Bromodichloromethane	11.17	83	55299m	1.21	ppb		
44) cis-1,3-dichloropropene	12.09	75	23302m	1.22	ppb		
45) trans-1,3-dichloropropene	12.89	75	14336m	1.12	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110104.D Vial: 6
Acq On : 1 Nov 2011 1:49 pm Operator: RJP
Sample : A1UG-1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 14:10:13 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

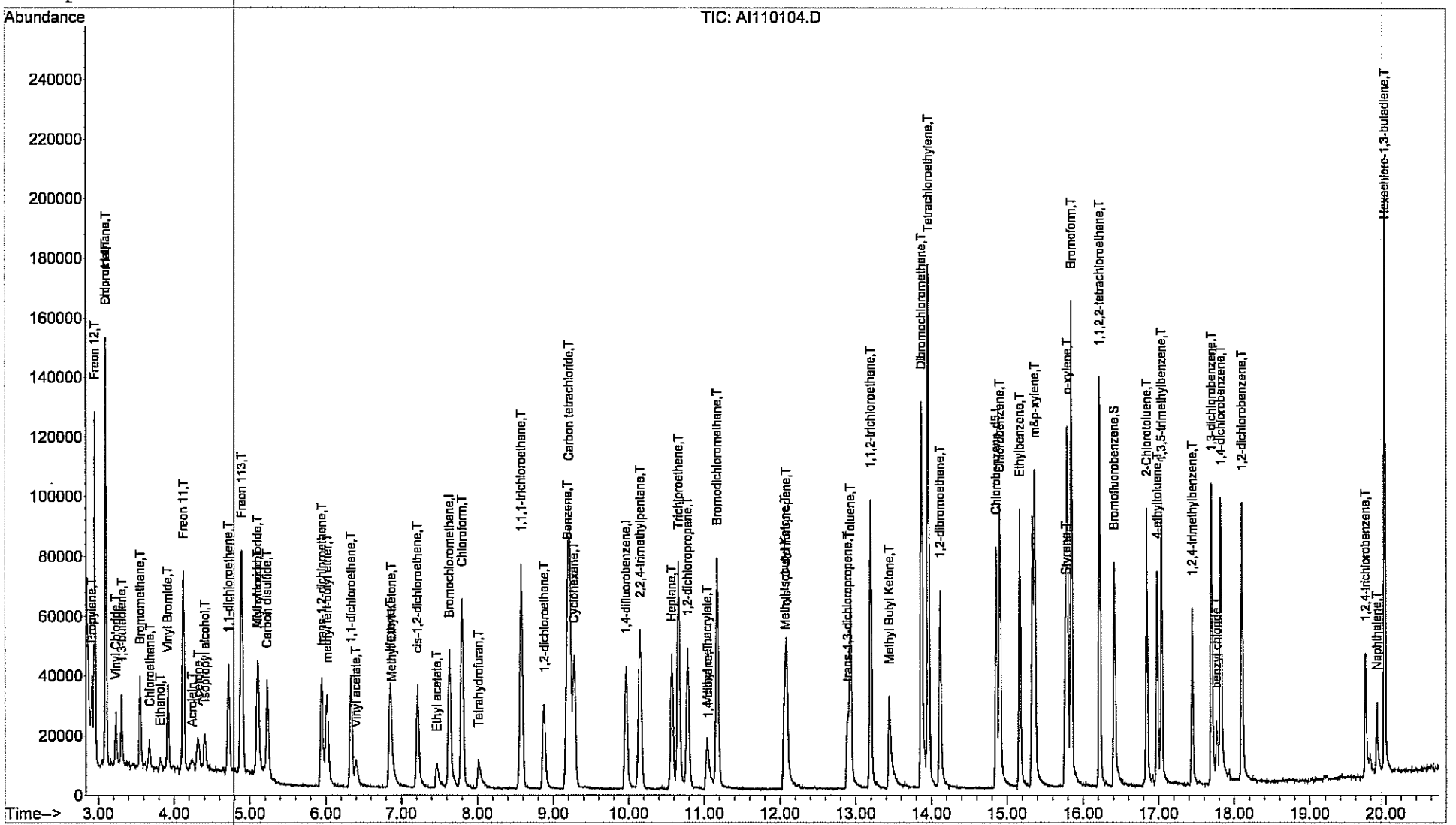
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.20	97	32288	1.28	ppb	99
48)	Toluene	12.93	92	32524	1.07	ppb	92
49)	Methyl Isobutyl Ketone	12.06	43	19817m	2.12	ppb	
50)	Dibromochloromethane	13.87	129	67285m	1.24	ppb	
51)	Methyl Butyl Ketone	13.44	43	21701m	3.90	ppb	
52)	1,2-dibromoethane	14.11	107	49107	1.24	ppb	97
53)	Tetrachloroethylene	13.96	164	40948	1.08	ppb	99
54)	Chlorobenzene	14.90	112	56909	1.08	ppb	97
55)	Ethylbenzene	15.17	91	63839	1.04	ppb	96
56)	m&p-xylene	15.36	91	108689	2.14	ppb	94
57)	Styrene	15.77	104	30510	0.93	ppb	99
58)	Bromoform	15.84	173	65348m	1.28	ppb	
59)	o-xylene	15.79	91	76957	1.18	ppb	89
61)	1,1,2,2-tetrachloroethane	16.22	83	57975	1.14	ppb	99
62)	2-Chlorotoluene	16.84	91	49805	1.04	ppb	100
63)	4-ethyltoluene	16.98	105	41183	0.82	ppb	96
64)	1,3,5-trimethylbenzene	17.04	105	49573	0.87	ppb	95
65)	1,2,4-trimethylbenzene	17.45	105	32822	0.72	ppb	97
66)	1,3-dichlorobenzene	17.70	146	47251	1.02	ppb	97
67)	benzyl chloride	17.77	91	15506	0.96	ppb	97
68)	1,4-dichlorobenzene	17.82	146	42863	0.98	ppb	98
69)	1,2-dichlorobenzene	18.10	146	40496	0.86	ppb	94
70)	1,2,4-trichlorobenzene	19.73	180	19604m	0.77	ppb	
71)	Naphthalene	19.88	128	21958	0.72	ppb	98
72)	Hexachloro-1,3-butadiene	19.98	225	31738	0.76	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110104.D Vial: 6
Acq On : 1 Nov 2011 1:49 pm Operator: RJP
Sample : A1UG-1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 1 16:10 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:33 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

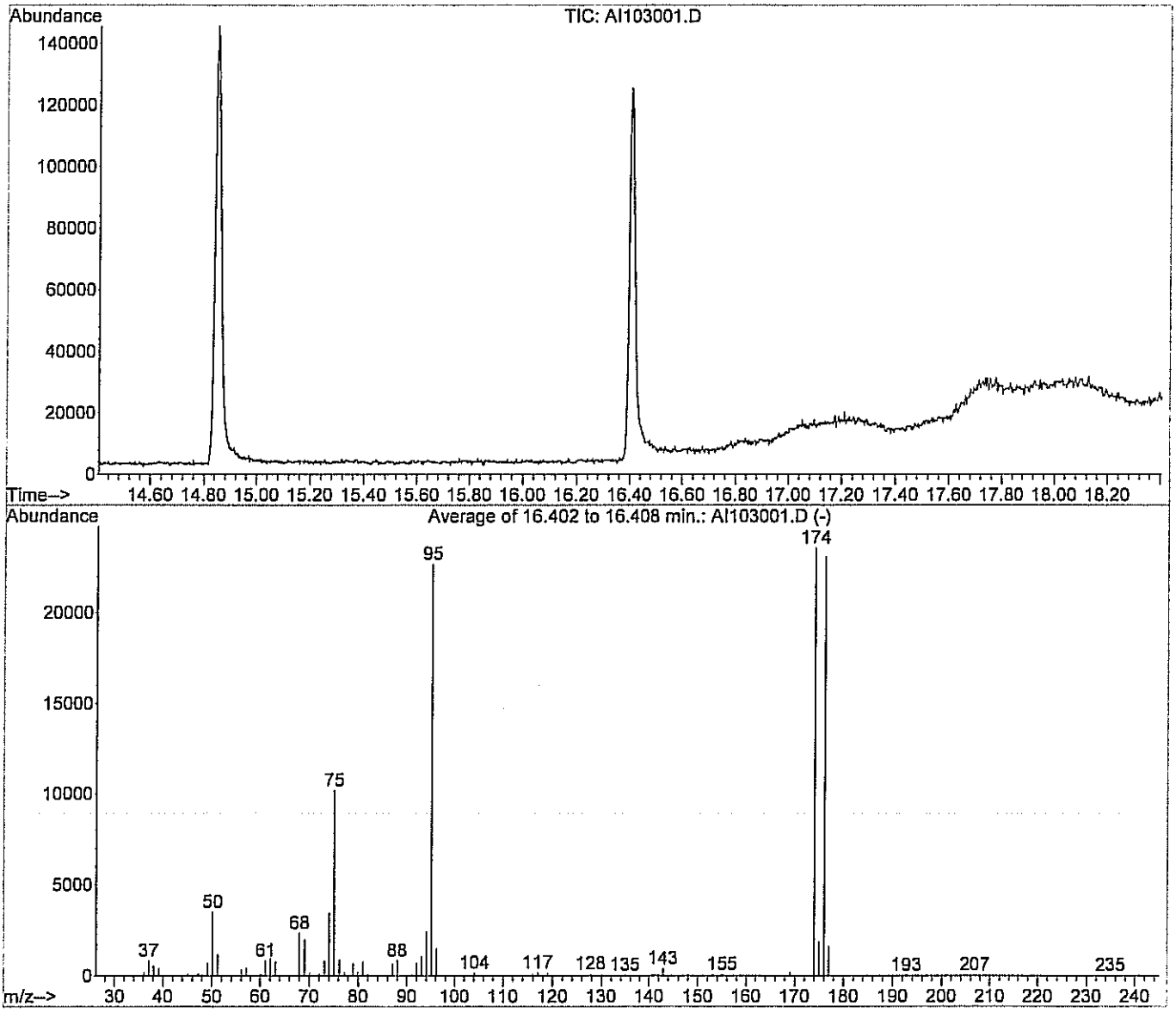
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AI103001.D
Acq On : 30 Oct 2011 1:22 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.402 to 16.408 min.

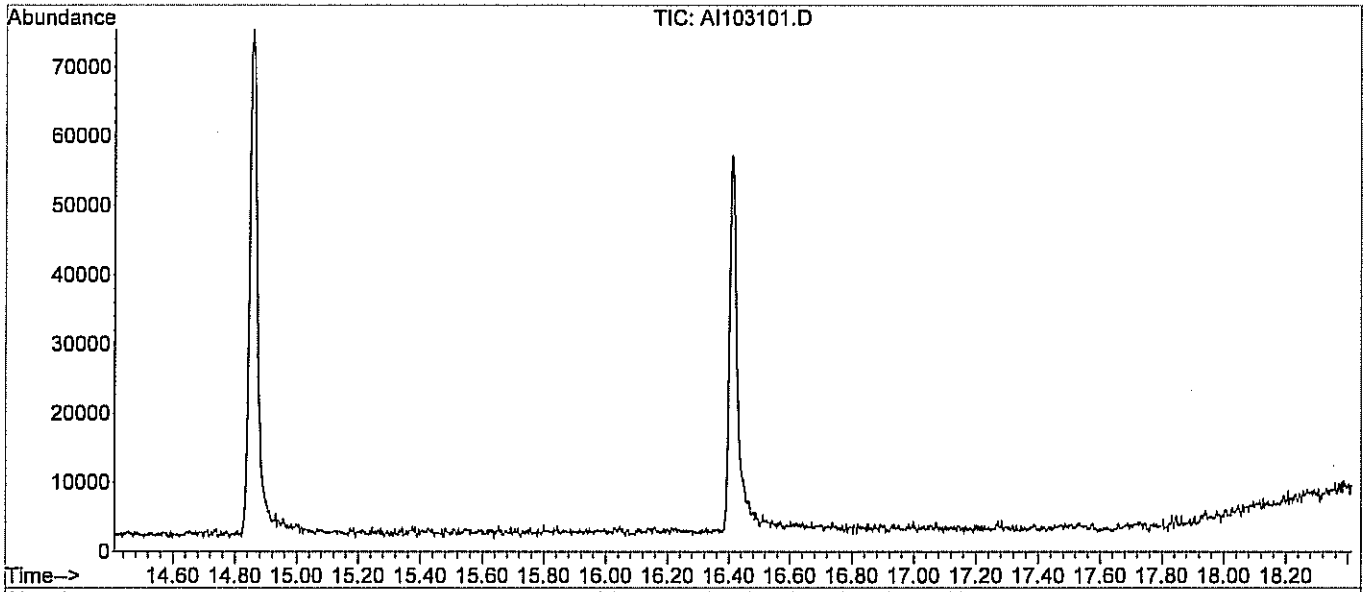
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.5	3522	PASS
75	95	30	66	44.9	10190	PASS
95	95	100	100	100.0	22690	PASS
96	95	5	9	6.7	1530	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	103.9	23568	PASS
175	174	4	9	8.0	1876	PASS
176	174	95	101	97.8	23061	PASS
177	176	5	9	7.2	1652	PASS

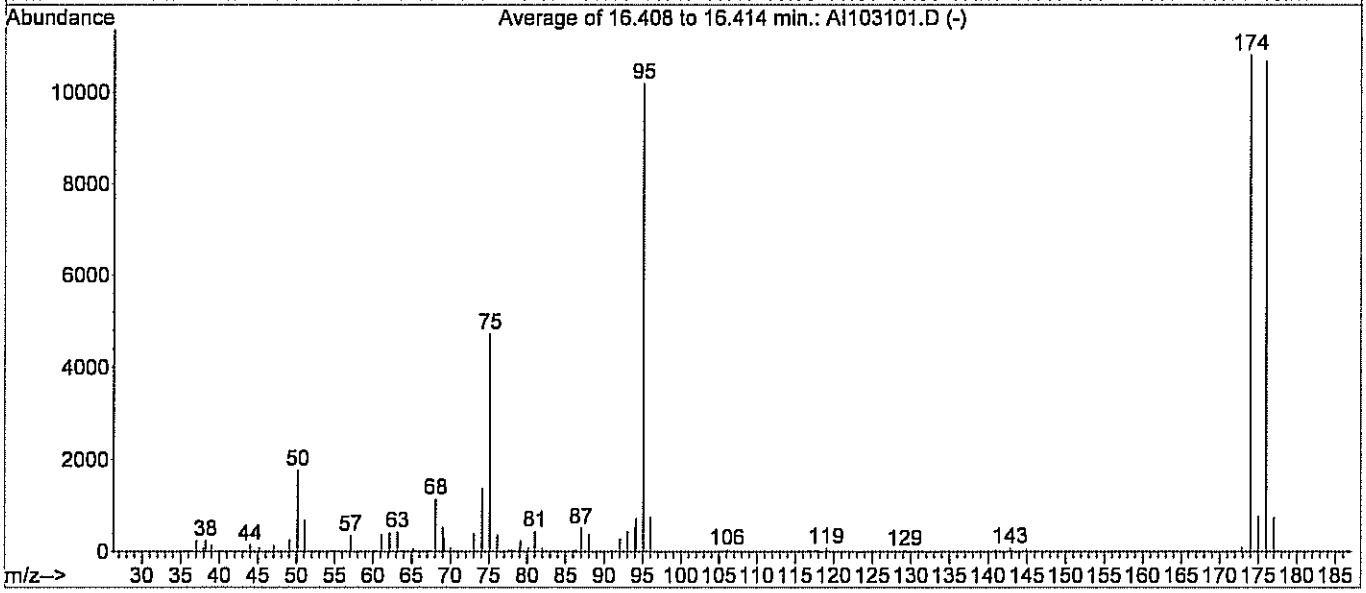
AI103001.D AO30_1UG.M Mon Nov 21 10:09:03 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI103101.D
Acq On : 31 Oct 2011 9:53 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





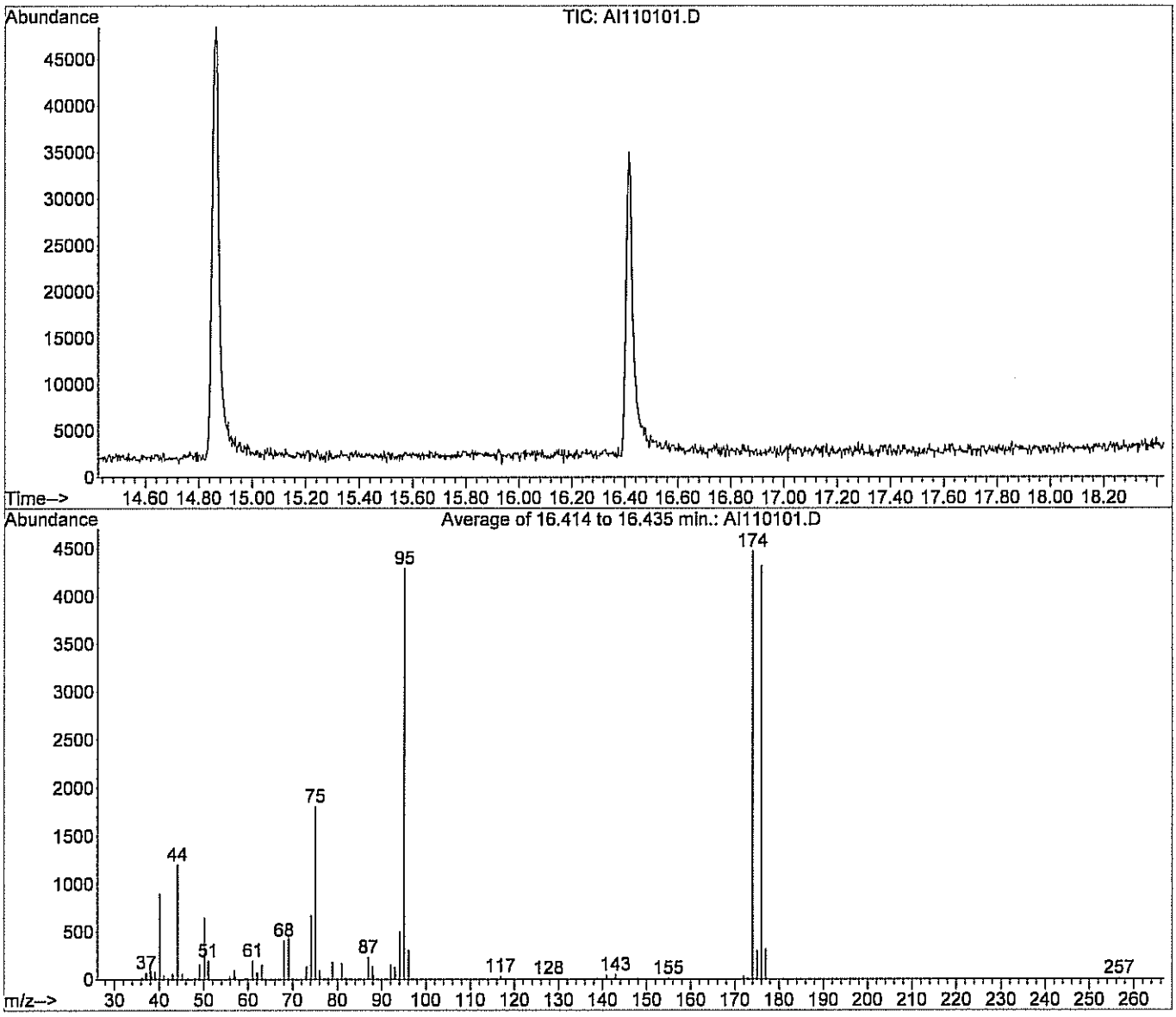
Spectrum Information: Average of 16.408 to 16.414 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	1772	PASS
75	95	30	66	46.4	4731	PASS
95	95	100	100	100.0	10194	PASS
96	95	5	9	7.3	747	PASS
173	174	0.00	2	0.9	99	PASS
174	95	50	120	106.1	10817	PASS
175	174	4	9	7.1	771	PASS
176	174	95	101	98.7	10680	PASS
177	176	5	9	6.9	738	PASS

AI103101.D AO30_1UG.M Mon Nov 21 10:02:07 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI110101.D Vial: 1
Acq On : 1 Nov 2011 10:02 am Operator: RJP
Sample : BFB1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration



Spectrum Information: Average of 16.414 to 16.435 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	650	PASS
75	95	30	66	42.1	1809	PASS
95	95	100	100	100.0	4295	PASS
96	95	5	9	7.1	307	PASS
173	174	0.00	2	0.4	16	PASS
174	95	50	120	104.2	4477	PASS
175	174	4	9	6.7	302	PASS
176	174	95	101	96.5	4322	PASS
177	176	5	9	7.3	317	PASS

AI110101.D AO30_1UG.M Mon Nov 21 10:06:02 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-103111** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5117**
Client ID: **ZZZZZ** Batch ID: **R5117** TestNo: **TO-15** Analysis Date: **10/31/2011** SeqNo: **60278**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-103111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-103111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60278

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									
Surr: Bromofluorobenzene	0.8300	0	1	0	83.0	70	130				

Sample ID AMB1UG-110111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID AMB1UG-110111	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-110111	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	5119
Client ID:	ZZZZZ	Batch ID:	R5119	TestNo:	TO-15			Analysis Date:	11/1/2011	SeqNo:	60320

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									
Surr: Bromofluorobenzene	0.8800	0	1	0	88.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103104.D Vial: 15
Acq On : 31 Oct 2011 11:31 am Operator: RJP
Sample : AMB1UG-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:52:19 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

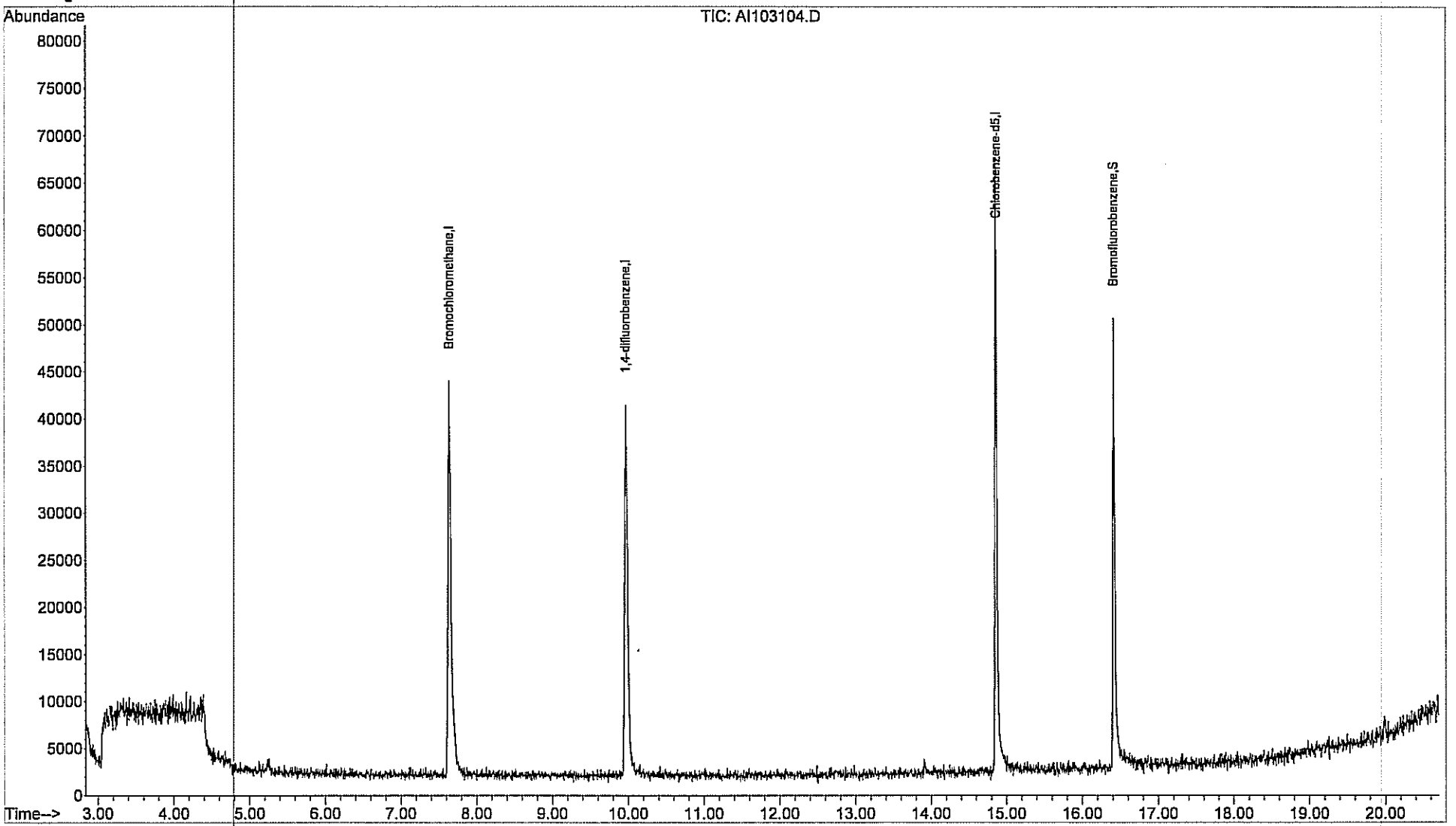
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	20236	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.98	114	51918	1.00	ppb	0.02
47) Chlorobenzene-d5	14.86	117	45642	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	18197	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI103104.D AO30_1UG.M Mon Nov 21 09:43:09 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103104.D Vial: 15
Acq On : 31 Oct 2011 11:31 am Operator: RJP
Sample : AMB1UG-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:05 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110106.D Vial: 7
Acq On : 1 Nov 2011 2:56 pm Operator: RJP
Sample : AMB1UG-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 15:17:01 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

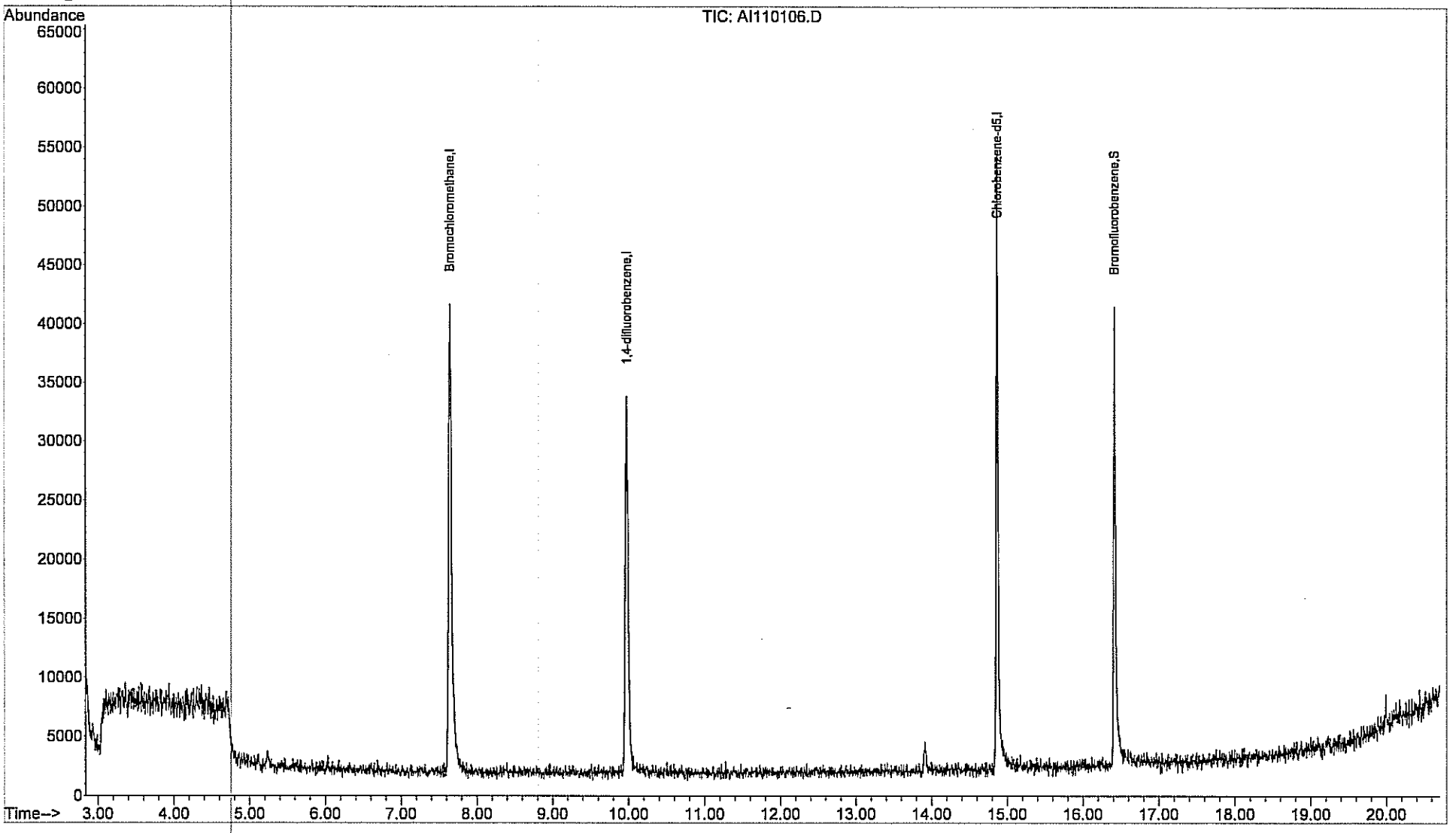
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.64	128	18320	1.00	ppb	0.02
32) 1,4-difluorobenzene	9.98	114	40919	1.00	ppb	0.02
47) Chlorobenzene-d5	14.86	117	35720	1.00	ppb	0.01
System Monitoring Compounds						
60) Bromofluorobenzene	16.41	95	14926	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110106.D Vial: 7
Acq On : 1 Nov 2011 2:56 pm Operator: RJP
Sample : AMB1UG-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:22 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI110106.D AO30_1UG.M Mon Nov 21 09:43:18 2011 MSD1 Page 2

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-103111 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 5117
Client ID: ZZZZZ Batch ID: R5117 TestNo: TO-15 Analysis Date: 10/31/2011 SeqNo: 60279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.050	0.15	1	0	105	70	130				
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130				
1,1,2-Trichloroethane	1.020	0.15	1	0	102	70	130				
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130				
1,1-Dichloroethene	1.110	0.15	1	0	111	70	130				
1,2,4-Trichlorobenzene	0.8500	0.15	1	0	85.0	70	130				
1,2,4-Trimethylbenzene	0.8900	0.15	1	0	89.0	70	130				
1,2-Dibromoethane	1.020	0.15	1	0	102	70	130				
1,2-Dichlorobenzene	0.9400	0.15	1	0	94.0	70	130				
1,2-Dichloroethane	0.9800	0.15	1	0	98.0	70	130				
1,2-Dichloropropane	1.020	0.15	1	0	102	70	130				
1,3,5-Trimethylbenzene	0.9900	0.15	1	0	99.0	70	130				
1,3-butadiene	0.8700	0.15	1	0	87.0	70	130				
1,3-Dichlorobenzene	0.9900	0.15	1	0	99.0	70	130				
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130				
1,4-Dioxane	0.9700	0.30	1	0	97.0	70	130				
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	70	130				
4-ethyltoluene	0.9300	0.15	1	0	93.0	70	130				
Acetone	1.180	0.30	1	0	118	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.020	0.15	1	0	102	70	130				
Benzyl chloride	0.9000	0.15	1	0	90.0	70	130				
Bromodichloromethane	1.030	0.15	1	0	103	70	130				
Bromoform	1.070	0.15	1	0	107	70	130				
Bromomethane	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-103111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9500	0.15	1	0	95.0	70	130				
Carbon tetrachloride	1.000	0.15	1	0	100	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	0.9700	0.15	1	0	97.0	70	130				
Chloroform	0.9800	0.15	1	0	98.0	70	130				
Chloromethane	0.9900	0.15	1	0	99.0	70	130				
cis-1,2-Dichloroethene	1.000	0.15	1	0	100	70	130				
cis-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.030	0.15	1	0	103	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9800	0.15	1	0	98.0	70	130				
Freon 11	0.9800	0.15	1	0	98.0	70	130				
Freon 113	1.110	0.15	1	0	111	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9700	0.15	1	0	97.0	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.9800	0.15	1	0	98.0	70	130				
Hexane	0.9800	0.15	1	0	98.0	70	130				
Isopropyl alcohol	1.050	0.15	1	0	105	70	130				
m&p-Xylene	2.020	0.30	2	0	101	70	130				
Methyl Butyl Ketone	0.9600	0.30	1	0	96.0	70	130				
Methyl Ethyl Ketone	0.9300	0.30	1	0	93.0	70	130				
Methyl Isobutyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl tert-butyl ether	0.9600	0.15	1	0	96.0	70	130				
Methylene chloride	1.000	0.15	1	0	100	70	130				
o-Xylene	0.9000	0.15	1	0	90.0	70	130				
Propylene	0.9400	0.15	1	0	94.0	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.9900	0.15	1	0	99.0	70	130				
Tetrahydrofuran	0.9900	0.15	1	0	99.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-103111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60279

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.9800	0.15	1	0	98.0	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.040	0.15	1	0	104	70	130				
Trichloroethene	0.9400	0.15	1	0	94.0	70	130				
Vinyl acetate	0.9500	0.15	1	0	95.0	70	130				
Vinyl Bromide	1.000	0.15	1	0	100	70	130				
Vinyl chloride	0.9800	0.15	1	0	98.0	70	130				
Surr: Bromofluorobenzene	1.020	0	1	0	102	70	130				

Sample ID ALCS1UG-110111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.260	0.15	1	0	126	70	130				
1,1,2,2-Tetrachloroethane	1.140	0.15	1	0	114	70	130				
1,1,2-Trichloroethane	1.280	0.15	1	0	128	70	130				
1,1-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trimethylbenzene	0.7500	0.15	1	0	75.0	70	130				
1,2-Dibromoethane	1.260	0.15	1	0	126	70	130				
1,2-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130				
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130				
1,2-Dichloropropane	1.190	0.15	1	0	119	70	130				
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.000	0.15	1	0	100	70	130				
1,3-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dichlorobenzene	0.9400	0.15	1	0	94.0	70	130				
1,4-Dioxane	0.7600	0.30	1	0	76.0	70	130				
2,2,4-trimethylpentane	1.160	0.15	1	0	116	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-110111	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	5119
Client ID:	ZZZZZ	Batch ID:	R5119	TestNo:	TO-15			Analysis Date:	11/1/2011	SeqNo:	60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.7600	0.15	1	0	76.0	70	130				
Acetone	1.030	0.30	1	0	103	70	130				
Allyl chloride	0.9800	0.15	1	0	98.0	70	130				
Benzene	1.180	0.15	1	0	118	70	130				
Benzyl chloride	1.190	0.15	1	0	119	70	130				
Bromodichloromethane	1.240	0.15	1	0	124	70	130				
Bromoform	1.500	0.15	1	0	150	70	130				S
Bromomethane	1.080	0.15	1	0	108	70	130				
Carbon disulfide	1.040	0.15	1	0	104	70	130				
Carbon tetrachloride	1.570	0.15	1	0	157	70	130				S
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.110	0.15	1	0	111	70	130				
Chloroform	1.100	0.15	1	0	110	70	130				
Chloromethane	1.110	0.15	1	0	111	70	130				
cis-1,2-Dichloroethene	1.010	0.15	1	0	101	70	130				
cis-1,3-Dichloropropene	1.290	0.15	1	0	129	70	130				
Cyclohexane	1.140	0.15	1	0	114	70	130				
Dibromochloromethane	1.400	0.15	1	0	140	70	130				S
Ethyl acetate	0.9300	0.25	1	0	93.0	70	130				
Ethylbenzene	1.060	0.15	1	0	106	70	130				
Freon 11	1.130	0.15	1	0	113	70	130				
Freon 113	1.210	0.15	1	0	121	70	130				
Freon 114	1.150	0.15	1	0	115	70	130				
Freon 12	1.050	0.15	1	0	105	70	130				
Heptane	1.150	0.15	1	0	115	70	130				
Hexachloro-1,3-butadiene	0.9300	0.15	1	0	93.0	70	130				
Hexane	0.9500	0.15	1	0	95.0	70	130				
Isopropyl alcohol	0.9700	0.15	1	0	97.0	70	130				
m&p-Xylene	2.170	0.30	2	0	108	70	130				
Methyl Butyl Ketone	1.560	0.30	1	0	156	70	130				S
Methyl Ethyl Ketone	0.7700	0.30	1	0	77.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-110111	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60321

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	1.140	0.30	1	0	114	70	130				
Methyl tert-butyl ether	0.8500	0.15	1	0	85.0	70	130				
Methylene chloride	1.140	0.15	1	0	114	70	130				
o-Xylene	0.9600	0.15	1	0	96.0	70	130				
Propylene	1.010	0.15	1	0	101	70	130				
Styrene	0.9700	0.15	1	0	97.0	70	130				
Tetrachloroethylene	1.150	0.15	1	0	115	70	130				
Tetrahydrofuran	0.8300	0.15	1	0	83.0	70	130				
Toluene	1.060	0.15	1	0	106	70	130				
trans-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
trans-1,3-Dichloropropene	1.090	0.15	1	0	109	70	130				
Trichloroethene	1.150	0.15	1	0	115	70	130				
Vinyl acetate	0.9100	0.15	1	0	91.0	70	130				
Vinyl Bromide	1.090	0.15	1	0	109	70	130				
Vinyl chloride	1.130	0.15	1	0	113	70	130				
Surr: Bromofluorobenzene	1.000	0	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103103.D Vial: 14
Acq On : 31 Oct 2011 10:59 am Operator: RJP
Sample : ALCS1UG-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:19:56 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.63	128	20888	1.00	ppb		0.00
32) 1,4-difluorobenzene	9.96	114	58680	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	57212	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	27855	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.92	41	9426	0.94	ppb		100
3) Freon 12	2.95	85	77823	0.97	ppb		97
4) Chloromethane	3.10	50	15096	0.99	ppb		99
5) Freon 114	3.10	85	43935	0.97	ppb		95
6) Vinyl Chloride	3.23	62	12586	0.98	ppb		98
7) 1,3-butadiene	3.31	39	8883	0.87	ppb		97
8) Bromomethane	3.55	94	15198	0.86	ppb		98
9) Ethanol	3.82	45	4126	0.75	ppb	#	29
10) Acrolein	4.24	56	3333	0.87	ppb		97
11) Chloroethane	3.67	64	5039	0.97	ppb		96
12) Vinyl Bromide	3.92	106	16218	1.00	ppb		97
13) Freon 11	4.12	101	46465	0.98	ppb		98
14) Acetone	4.32	58	7160	1.18	ppb		95
15) Isopropyl alcohol	4.41	45	16791	1.05	ppb	#	100
16) 1,1-dichloroethene	4.72	96	21690	1.11	ppb	#	89
17) Freon 113	4.90	101	56727	1.11	ppb		94
18) Methylene chloride	5.11	84	21692	1.00	ppb	#	82
19) Allyl chloride	5.11	41	14598	0.94	ppb		82
20) Carbon disulfide	5.23	76	63082	0.95	ppb		100
21) trans-1,2-dichloroethene	5.95	61	26643	0.99	ppb		87
22) methyl tert-butyl ether	6.02	73	36488	0.96	ppb	#	49
23) 1,1-dichloroethane	6.33	63	37162	1.01	ppb		96
24) Vinyl acetate	6.41	43	19516	0.95	ppb		99
25) Methyl Ethyl Ketone	6.90	72	4906	0.93	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	24388	1.00	ppb		85
27) Hexane	6.86	57	17532	0.98	ppb		92
28) Ethyl acetate	7.47	43	18548	0.97	ppb		94
29) Chloroform	7.80	83	58480	0.98	ppb		99
30) Tetrahydrofuran	8.02	42	9069	0.99	ppb		93
31) 1,2-dichloroethane	8.88	62	32864	0.98	ppb		98
33) 1,1,1-trichloroethane	8.57	97	57489	1.05	ppb		98
34) Cyclohexane	9.28	56	18748	1.01	ppb		91
35) Carbon tetrachloride	9.21	117	57723	1.00	ppb		100
36) Benzene	9.18	78	56310	1.02	ppb		97
37) Methyl methacrylate	11.04	41	9566	1.00	ppb		89
38) 1,4-dioxane	11.08	88	4807	0.97	ppb		97
39) 2,2,4-trimethylpentane	10.16	57	58990	0.99	ppb		95
40) Heptane	10.57	43	17781	1.00	ppb		89
41) Trichloroethene	10.66	130	35757	0.94	ppb		99
42) 1,2-dichloropropane	10.78	63	20117	1.02	ppb		99
43) Bromodichloromethane	11.17	83	57627	1.03	ppb		100
44) cis-1,3-dichloropropene	12.08	75	24501	1.04	ppb		96
45) trans-1,3-dichloropropene	12.89	75	16307	1.04	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103103.D Vial: 14
Acq On : 31 Oct 2011 10:59 am Operator: RJP
Sample : ALCS1UG-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 11:19:56 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

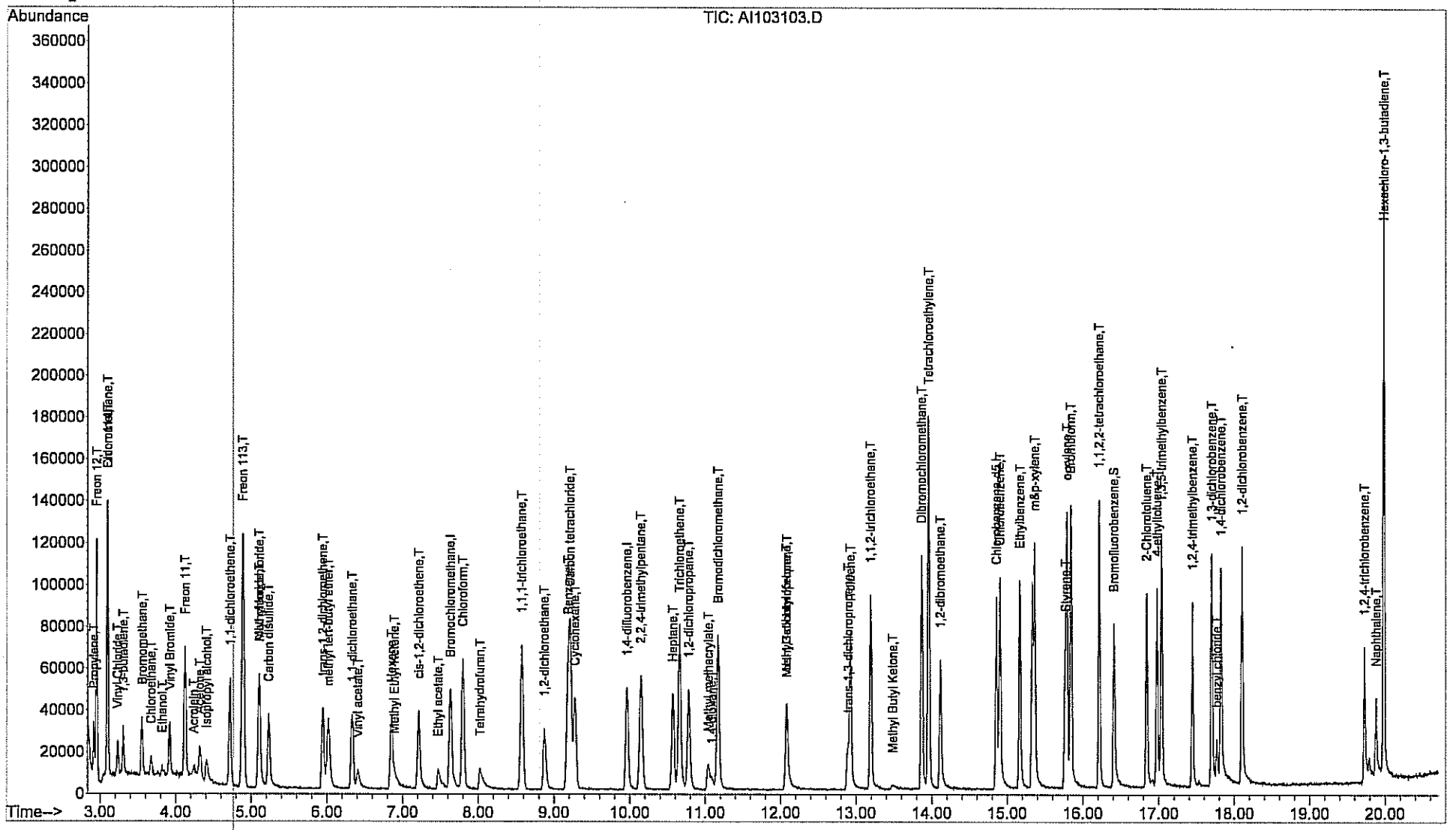
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	31651	1.02	ppb	98
48)	Toluene	12.92	92	34662	0.98	ppb	93
49)	Methyl Isobutyl Ketone	12.07	43	10635	0.99	ppb	99
50)	Dibromochloromethane	13.87	129	64411	1.03	ppb	99
51)	Methyl Butyl Ketone	13.49	43	6168m	0.96	ppb	
52)	1,2-dibromoethane	14.11	107	46902	1.02	ppb	99
53)	Tetrachloroethylene	13.95	164	43335	0.99	ppb	97
54)	Chlorobenzene	14.90	112	60724	1.00	ppb	96
55)	Ethylbenzene	15.16	91	69495	0.98	ppb	97
56)	m&p-xylene	15.36	91	118407	2.02	ppb	93
57)	Styrene	15.76	104	36143	0.95	ppb	96
58)	Bromoform	15.84	173	63377	1.07	ppb	98
59)	o-xylene	15.79	91	68228	0.90	ppb	94
61)	1,1,2,2-tetrachloroethane	16.21	83	56993	0.97	ppb	99
62)	2-Chlorotoluene	16.84	91	53676	0.97	ppb	98
63)	4-ethyltoluene	16.98	105	54365	0.93	ppb	95
64)	1,3,5-trimethylbenzene	17.04	105	65298	0.99	ppb	96
65)	1,2,4-trimethylbenzene	17.44	105	47253	0.89	ppb	95
66)	1,3-dichlorobenzene	17.70	146	52997	0.99	ppb	98
67)	benzyl chloride	17.77	91	16803	0.90	ppb	95
68)	1,4-dichlorobenzene	17.82	146	48031	0.95	ppb	99
69)	1,2-dichlorobenzene	18.10	146	51373	0.94	ppb	98
70)	1,2,4-trichlorobenzene	19.73	180	24880	0.85	ppb	95
71)	Naphthalene	19.88	128	37332	1.06	ppb	96
72)	Hexachloro-1,3-butadiene	19.98	225	47141	0.98	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103103.D Vial: 14
Acq On : 31 Oct 2011 10:59 am Operator: RJP
Sample : ALCS1UG-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 2 7:05 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110105.D Vial: 7
Acq On : 1 Nov 2011 2:22 pm Operator: RJP
Sample : ALCS1UG-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 14:43:40 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	18601	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.96	114	45459	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	44239	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	21137	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.92	41	9033	1.01	ppb		95
3) Freon 12	2.96	85	74973	1.05	ppb		98
4) Chloromethane	3.10	50	15186	1.11	ppb		99
5) Freon 114	3.10	85	46779	1.15	ppb		96
6) Vinyl Chloride	3.23	62	12954	1.13	ppb		97
7) 1,3-butadiene	3.31	39	9078	1.00	ppb		100
8) Bromomethane	3.56	94	16960	1.08	ppb		90
9) Ethanol	3.84	45	4526	0.92	ppb	#	38
10) Acrolein	4.27	56	3043	0.89	ppb		94
11) Chloroethane	3.67	64	5147	1.11	ppb		94
12) Vinyl Bromide	3.92	106	15775	1.09	ppb		93
13) Freon 11	4.13	101	48081	1.13	ppb		98
14) Acetone	4.33	58	5575	1.03	ppb		100
15) Isopropyl alcohol	4.42	45	13849	0.97	ppb	#	100
16) 1,1-dichloroethene	4.73	96	19496	1.12	ppb		93
17) Freon 113	4.90	101	55063	1.21	ppb		92
18) Methylene chloride	5.12	84	22008	1.14	ppb	#	83
19) Allyl chloride	5.10	41	13506	0.98	ppb		85
20) Carbon disulfide	5.24	76	61128	1.04	ppb		99
21) trans-1,2-dichloroethene	5.95	61	23754	0.99	ppb		85
22) methyl tert-butyl ether	6.03	73	28645	0.85	ppb	#	52
23) 1,1-dichloroethane	6.34	63	34984	1.07	ppb		96
24) Vinyl acetate	6.42	43	16760	0.91	ppb		98
25) Methyl Ethyl Ketone	6.91	72	3580	0.77	ppb	#	100
26) cis-1,2-dichloroethene	7.21	61	22014	1.01	ppb		87
27) Hexane	6.86	57	15202	0.95	ppb		91
28) Ethyl acetate	7.48	43	15806	0.93	ppb		96
29) Chloroform	7.80	83	58542	1.10	ppb		100
30) Tetrahydrofuran	8.03	42	6772	0.83	ppb		98
31) 1,2-dichloroethane	8.88	62	31886	1.07	ppb		100
33) 1,1,1-trichloroethane	8.58	97	53717m	1.26	ppb		
34) Cyclohexane	9.28	56	16417	1.14	ppb	#	84
35) Carbon tetrachloride	9.22	117	70516	1.57	ppb		99
36) Benzene	9.19	78	50472	1.18	ppb		96
37) Methyl methacrylate	11.05	41	7052	0.95	ppb	#	79
38) 1,4-dioxane	11.10	88	2906m	0.76	ppb		
39) 2,2,4-trimethylpentane	10.16	57	53347	1.16	ppb		96
40) Heptane	10.58	43	15856	1.15	ppb		91
41) Trichloroethene	10.66	130	34057	1.15	ppb		96
42) 1,2-dichloropropane	10.79	63	18179	1.19	ppb		100
43) Bromodichloromethane	11.17	83	53742m	1.24	ppb		
44) cis-1,3-dichloropropene	12.09	75	23406	1.29	ppb		96
45) trans-1,3-dichloropropene	12.89	75	13223m	1.09	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110105.D Vial: 7
Acq On : 1 Nov 2011 2:22 pm Operator: RJP
Sample : ALCS1UG-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 14:43:40 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

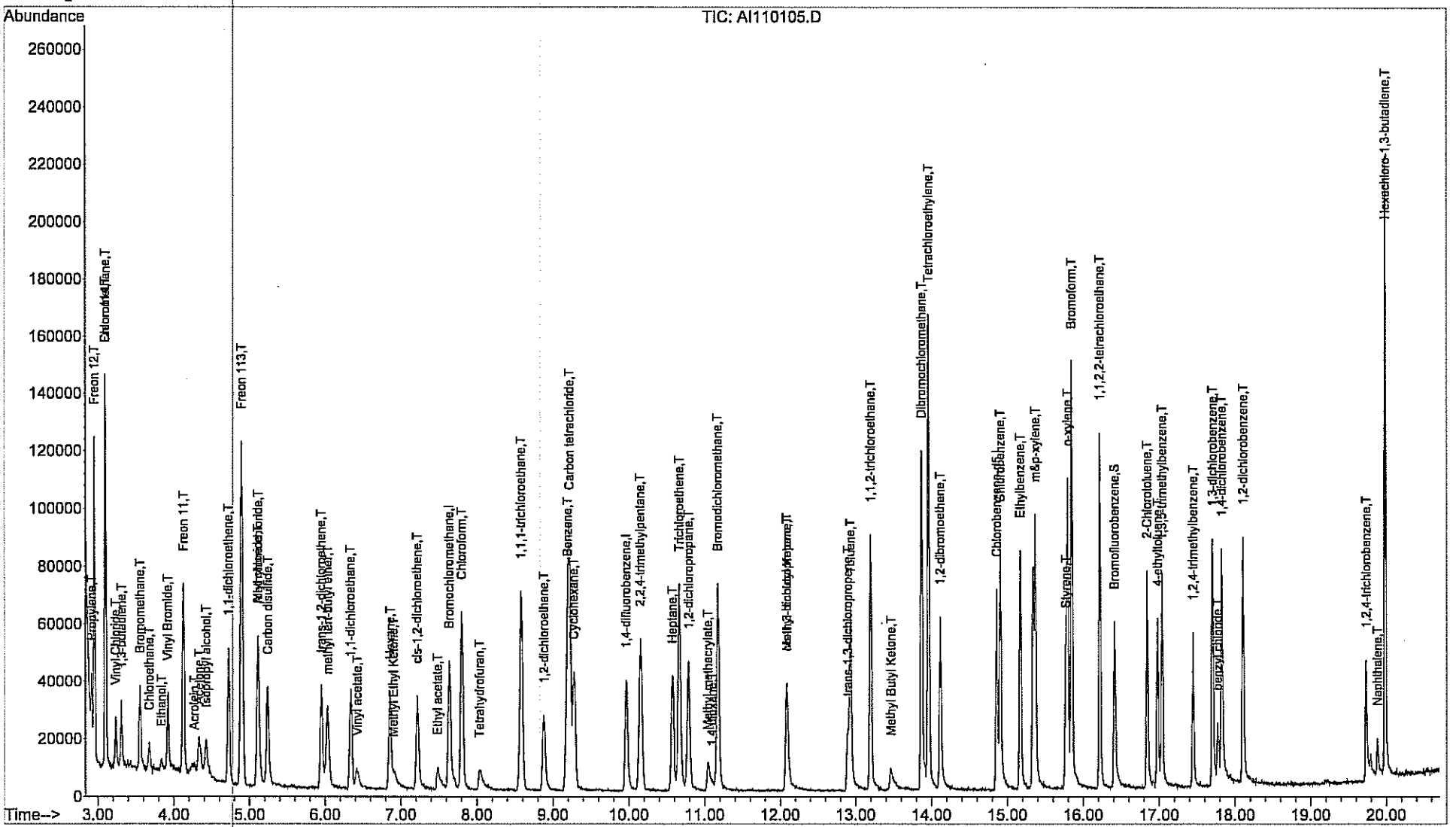
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.20	97	30686	1.28	ppb	97
48)	Toluene	12.93	92	28916	1.06	ppb	95
49)	Methyl Isobutyl Ketone	12.08	43	9512	1.14	ppb	96
50)	Dibromochloromethane	13.87	129	68075	1.40	ppb	99
51)	Methyl Butyl Ketone	13.46	43	7772m	1.56	ppb	
52)	1,2-dibromoethane	14.11	107	44609	1.26	ppb	99
53)	Tetrachloroethylene	13.96	164	39105	1.15	ppb	98
54)	Chlorobenzene	14.90	112	52662	1.12	ppb	94
55)	Ethylbenzene	15.17	91	57779	1.06	ppb	96
56)	m&p-xylene	15.37	91	98263	2.17	ppb	96
57)	Styrene	15.76	104	28369	0.97	ppb	95
58)	Bromoform	15.84	173	68633	1.50	ppb	99
59)	o-xylene	15.79	91	55776	0.96	ppb	97
61)	1,1,2,2-tetrachloroethane	16.22	83	51747	1.14	ppb	100
62)	2-Chlorotoluene	16.84	91	43029	1.01	ppb	100
63)	4-ethyltoluene	16.98	105	34070	0.76	ppb	96
64)	1,3,5-trimethylbenzene	17.04	105	42219	0.83	ppb	95
65)	1,2,4-trimethylbenzene	17.45	105	30542	0.75	ppb	99
66)	1,3-dichlorobenzene	17.70	146	41696	1.00	ppb	99
67)	benzyl chloride	17.77	91	17202	1.19	ppb	99
68)	1,4-dichlorobenzene	17.82	146	37063	0.94	ppb	98
69)	1,2-dichlorobenzene	18.10	146	38803	0.92	ppb	98
70)	1,2,4-trichlorobenzene	19.73	180	17889	0.79	ppb	98
71)	Naphthalene	19.88	128	18409m	0.68	ppb	
72)	Hexachloro-1,3-butadiene	19.98	225	34486	0.93	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110105.D Vial: 7
Acq On : 1 Nov 2011 2:22 pm Operator: RJP
Sample : ALCS1UG-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:22 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *21-Nov-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID **ALCS1UGD-103111** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **5117**
Client ID: **ZZZZZ** Batch ID: **R5117** TestNo: **TO-15** Analysis Date: **10/31/2011** SeqNo: **60280**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130	1.05	3.74	30	
1,1,2,2-Tetrachloroethane	0.8500	0.15	1	0	85.0	70	130	0.97	13.2	30	
1,1,2-Trichloroethane	0.9800	0.15	1	0	98.0	70	130	1.02	4.00	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	
1,1-Dichloroethene	1.060	0.15	1	0	106	70	130	1.11	4.61	30	
1,2,4-Trichlorobenzene	0.4800	0.15	1	0	48.0	70	130	0.85	55.6	30	SR
1,2,4-Trimethylbenzene	0.6000	0.15	1	0	60.0	70	130	0.89	38.9	30	SR
1,2-Dibromoethane	0.9900	0.15	1	0	99.0	70	130	1.02	2.99	30	
1,2-Dichlorobenzene	0.9200	0.15	1	0	92.0	70	130	0.94	2.15	30	
1,2-Dichloroethane	0.9700	0.15	1	0	97.0	70	130	0.98	1.03	30	
1,2-Dichloropropane	1.000	0.15	1	0	100	70	130	1.02	1.98	30	
1,3,5-Trimethylbenzene	0.5900	0.15	1	0	59.0	70	130	0.99	50.6	30	SR
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.87	4.49	30	
1,3-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130	0.99	25.0	30	
1,4-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.95	26.2	30	
1,4-Dioxane	0.6000	0.30	1	0	60.0	70	130	0.97	47.1	30	SR
2,2,4-trimethylpentane	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
4-ethyltoluene	0.4900	0.15	1	0	49.0	70	130	0.93	62.0	30	SR
Acetone	0.7900	0.30	1	0	79.0	70	130	1.18	39.6	30	R
Allyl chloride	0.9000	0.15	1	0	90.0	70	130	0.94	4.35	30	
Benzene	1.010	0.15	1	0	101	70	130	1.02	0.985	30	
Benzyl chloride	0.7400	0.15	1	0	74.0	70	130	0.9	19.5	30	
Bromodichloromethane	1.070	0.15	1	0	107	70	130	1.03	3.81	30	
Bromoform	1.070	0.15	1	0	107	70	130	1.07	0	30	
Bromomethane	0.9300	0.15	1	0	93.0	70	130	0.86	7.82	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-103111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	0.9600	0.15	1	0	96.0	70	130	0.95	1.05	30	
Carbon tetrachloride	1.130	0.15	1	0	113	70	130	1	12.2	30	
Chlorobenzene	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Chloroethane	1.000	0.15	1	0	100	70	130	0.97	3.05	30	
Chloroform	0.9600	0.15	1	0	96.0	70	130	0.98	2.06	30	
Chloromethane	0.9800	0.15	1	0	98.0	70	130	0.99	1.02	30	
cis-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	1	7.25	30	
cis-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.04	1.94	30	
Cyclohexane	0.9700	0.15	1	0	97.0	70	130	1.01	4.04	30	
Dibromochloromethane	1.050	0.15	1	0	105	70	130	1.03	1.92	30	
Ethyl acetate	0.8500	0.25	1	0	85.0	70	130	0.97	13.2	30	
Ethylbenzene	0.8100	0.15	1	0	81.0	70	130	0.98	19.0	30	
Freon 11	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Freon 113	1.110	0.15	1	0	111	70	130	1.11	0	30	
Freon 114	1.030	0.15	1	0	103	70	130	0.97	6.00	30	
Freon 12	0.9800	0.15	1	0	98.0	70	130	0.97	1.03	30	
Heptane	0.9500	0.15	1	0	95.0	70	130	1	5.13	30	
Hexachloro-1,3-butadiene	0.4300	0.15	1	0	43.0	70	130	0.98	78.0	30	SR
Hexane	0.8900	0.15	1	0	89.0	70	130	0.98	9.63	30	
Isopropyl alcohol	0.7500	0.15	1	0	75.0	70	130	1.05	33.3	30	R
m&p-Xylene	1.620	0.30	2	0	81.0	70	130	2.02	22.0	30	
Methyl Butyl Ketone	0.4900	0.30	1	0	49.0	70	130	0.96	64.8	30	SR
Methyl Ethyl Ketone	0.5600	0.30	1	0	56.0	70	130	0.93	49.7	30	SR
Methyl Isobutyl Ketone	1.010	0.30	1	0	101	70	130	0.99	2.00	30	
Methyl tert-butyl ether	0.7500	0.15	1	0	75.0	70	130	0.96	24.6	30	
Methylene chloride	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
o-Xylene	0.9000	0.15	1	0	90.0	70	130	0.9	0	30	
Propylene	0.9300	0.15	1	0	93.0	70	130	0.94	1.07	30	
Styrene	0.7500	0.15	1	0	75.0	70	130	0.95	23.5	30	
Tetrachloroethylene	0.9400	0.15	1	0	94.0	70	130	0.99	5.18	30	
Tetrahydrofuran	0.9100	0.15	1	0	91.0	70	130	0.99	8.42	30	

Qualifiers:

- . Results reported are not blank corrected
- E Value above quantitation range
- H Holding times for preparation or analysis exceeded
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit
- R RPD outside accepted recovery limits
- S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-103111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5117
Client ID: ZZZZZ	Batch ID: R5117	TestNo: TO-15		Analysis Date: 10/31/2011	SeqNo: 60280

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	0.8800	0.15	1	0	88.0	70	130	0.98	10.8	30	
trans-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	0.99	3.08	30	
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130	1.04	0.966	30	
Trichloroethene	0.9700	0.15	1	0	97.0	70	130	0.94	3.14	30	
Vinyl acetate	0.7900	0.15	1	0	79.0	70	130	0.95	18.4	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1	0.995	30	
Vinyl chloride	1.000	0.15	1	0	100	70	130	0.98	2.02	30	
Surr: Bromofluorobenzene	1.050	0	1	0	105	70	130	0	0	30	

Sample ID ALCS1UGD-110111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130	1.26	0.797	30	
1,1,2,2-Tetrachloroethane	1.000	0.15	1	0	100	70	130	1.14	13.1	30	
1,1,2-Trichloroethane	1.240	0.15	1	0	124	70	130	1.28	3.17	30	
1,1-Dichloroethane	1.010	0.15	1	0	101	70	130	1.07	5.77	30	
1,1-Dichloroethene	1.040	0.15	1	0	104	70	130	1.12	7.41	30	
1,2,4-Trichlorobenzene	0.4600	0.15	1	0	46.0	70	130	0.79	52.8	30	SR
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130	0.75	3.92	30	
1,2-Dibromoethane	1.130	0.15	1	0	113	70	130	1.26	10.9	30	
1,2-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.92	12.7	30	
1,2-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	1.07	7.77	30	
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,3,5-Trimethylbenzene	0.6900	0.15	1	0	69.0	70	130	0.83	18.4	30	S
1,3-butadiene	1.040	0.15	1	0	104	70	130	1	3.92	30	
1,3-Dichlorobenzene	0.8500	0.15	1	0	85.0	70	130	1	16.2	30	
1,4-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130	0.94	19.9	30	
1,4-Dioxane	0.2700	0.30	1	0	27.0	70	130	0.76	0	30	JS
2,2,4-trimethylpentane	1.090	0.15	1	0	109	70	130	1.16	6.22	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-110111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
4-ethyltoluene	0.6400	0.15	1	0	64.0	70	130	0.76	17.1	30	S
Acetone	1.220	0.30	1	0	122	70	130	1.03	16.9	30	
Allyl chloride	0.8900	0.15	1	0	89.0	70	130	0.98	9.63	30	
Benzene	1.150	0.15	1	0	115	70	130	1.18	2.58	30	
Benzyl chloride	1.080	0.15	1	0	108	70	130	1.19	9.69	30	
Bromodichloromethane	1.220	0.15	1	0	122	70	130	1.24	1.63	30	
Bromoform	1.370	0.15	1	0	137	70	130	1.5	9.06	30	S
Bromomethane	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Carbon disulfide	0.9800	0.15	1	0	98.0	70	130	1.04	5.94	30	
Carbon tetrachloride	1.600	0.15	1	0	160	70	130	1.57	1.89	30	S
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130	1.12	15.4	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.11	1.79	30	
Chloroform	1.030	0.15	1	0	103	70	130	1.1	6.57	30	
Chloromethane	1.040	0.15	1	0	104	70	130	1.11	6.51	30	
cis-1,2-Dichloroethene	0.9500	0.15	1	0	95.0	70	130	1.01	6.12	30	
cis-1,3-Dichloropropene	1.120	0.15	1	0	112	70	130	1.29	14.1	30	
Cyclohexane	1.060	0.15	1	0	106	70	130	1.14	7.27	30	
Dibromochloromethane	1.320	0.15	1	0	132	70	130	1.4	5.88	30	S
Ethyl acetate	0.7600	0.25	1	0	76.0	70	130	0.93	20.1	30	
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130	1.06	15.2	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 113	1.190	0.15	1	0	119	70	130	1.21	1.67	30	
Freon 114	1.120	0.15	1	0	112	70	130	1.15	2.64	30	
Freon 12	1.020	0.15	1	0	102	70	130	1.05	2.90	30	
Heptane	1.060	0.15	1	0	106	70	130	1.15	8.14	30	
Hexachloro-1,3-butadiene	0.4900	0.15	1	0	49.0	70	130	0.93	62.0	30	SR
Hexane	0.8100	0.15	1	0	81.0	70	130	0.95	15.9	30	
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130	0.97	18.0	30	
m&p-Xylene	1.930	0.30	2	0	96.5	70	130	2.17	11.7	30	
Methyl Butyl Ketone	1.070	0.30	1	0	107	70	130	1.56	37.3	30	R
Methyl Ethyl Ketone	0.3700	0.30	1	0	37.0	70	130	0.77	70.2	30	SR

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM
Work Order: C1110054
Project: 1000-08-17

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-110111	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 5119
Client ID: ZZZZZ	Batch ID: R5119	TestNo: TO-15		Analysis Date: 11/1/2011	SeqNo: 60322

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Isobutyl Ketone	0.8700	0.30	1	0	87.0	70	130	1.14	26.9	30	
Methyl tert-butyl ether	0.7400	0.15	1	0	74.0	70	130	0.85	13.8	30	
Methylene chloride	1.130	0.15	1	0	113	70	130	1.14	0.881	30	
o-Xylene	0.8500	0.15	1	0	85.0	70	130	0.96	12.2	30	
Propylene	0.9100	0.15	1	0	91.0	70	130	1.01	10.4	30	
Styrene	0.8200	0.15	1	0	82.0	70	130	0.97	16.8	30	
Tetrachloroethylene	1.030	0.15	1	0	103	70	130	1.15	11.0	30	
Tetrahydrofuran	0.9300	0.15	1	0	93.0	70	130	0.83	11.4	30	
Toluene	1.000	0.15	1	0	100	70	130	1.06	5.83	30	
trans-1,2-Dichloroethene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.09	0.913	30	
Trichloroethene	1.180	0.15	1	0	118	70	130	1.15	2.58	30	
Vinyl acetate	0.7600	0.15	1	0	76.0	70	130	0.91	18.0	30	
Vinyl Bromide	1.070	0.15	1	0	107	70	130	1.09	1.85	30	
Vinyl chloride	1.070	0.15	1	0	107	70	130	1.13	5.45	30	
Surr: Bromofluorobenzene	1.070	0	1	0	107	70	130	0	0	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103118.D Vial: 27
Acq On : 31 Oct 2011 7:51 pm Operator: RJP
Sample : ALCS1UGD-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 20:12:03 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	20857	1.00	ppb		0.01
32) 1,4-difluorobenzene	9.96	114	55924	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	55806	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	28094	1.05	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 105.00%				
Target Compounds							Qvalue
2) Propylene	2.92	41	9364	0.93	ppb		95
3) Freon 12	2.95	85	78494	0.98	ppb		98
4) Chloromethane	3.10	50	14992	0.98	ppb		98
5) Freon 114	3.10	85	46812	1.03	ppb		96
6) Vinyl Chloride	3.24	62	12902	1.00	ppb		96
7) 1,3-butadiene	3.31	39	9284	0.91	ppb		97
8) Bromomethane	3.56	94	16289	0.93	ppb		99
9) Ethanol	3.82	45	3970	0.72	ppb	#	24
10) Acrolein	4.22	56	3257	0.85	ppb		99
11) Chloroethane	3.67	64	5188	1.00	ppb		99
12) Vinyl Bromide	3.92	106	16356	1.01	ppb		98
13) Freon 11	4.13	101	48448	1.02	ppb		98
14) Acetone	4.32	58	4795	0.79	ppb		97
15) Isopropyl alcohol	4.41	45	11998m	0.75	ppb		
16) 1,1-dichloroethene	4.72	96	20696	1.06	ppb		90
17) Freon 113	4.90	101	56282	1.11	ppb		93
18) Methylene chloride	5.11	84	21051	0.97	ppb	#	84
19) Allyl chloride	5.10	41	13910	0.90	ppb		85
20) Carbon disulfide	5.23	76	63597	0.96	ppb		100
21) trans-1,2-dichloroethene	5.95	61	25874	0.96	ppb		88
22) methyl tert-butyl ether	6.03	73	28520m	0.75	ppb		
23) 1,1-dichloroethane	6.34	63	36441	0.99	ppb		98
24) Vinyl acetate	6.40	43	16322m	0.79	ppb		
25) Methyl Ethyl Ketone	6.94	72	2943m	0.56	ppb		
26) cis-1,2-dichloroethene	7.21	61	22629	0.93	ppb		85
27) Hexane	6.85	57	15882	0.89	ppb		92
28) Ethyl acetate	7.48	43	16148m	0.85	ppb		
29) Chloroform	7.80	83	57263	0.96	ppb		100
30) Tetrahydrofuran	8.04	42	8372m	0.91	ppb		
31) 1,2-dichloroethane	8.88	62	32313	0.97	ppb		100
33) 1,1,1-trichloroethane	8.57	97	56878	1.09	ppb		98
34) Cyclohexane	9.27	56	17117	0.97	ppb		88
35) Carbon tetrachloride	9.22	117	62568	1.13	ppb		99
36) Benzene	9.18	78	53314	1.01	ppb		93
37) Methyl methacrylate	11.04	41	6625m	0.73	ppb		
38) 1,4-dioxane	11.09	88	2832m	0.60	ppb		
39) 2,2,4-trimethylpentane	10.15	57	55923	0.99	ppb		95
40) Heptane	10.57	43	16157	0.95	ppb		87
41) Trichloroethene	10.66	130	35349	0.97	ppb		96
42) 1,2-dichloropropane	10.78	63	18819	1.00	ppb		99
43) Bromodichloromethane	11.17	83	56917	1.07	ppb		99
44) cis-1,3-dichloropropene	12.09	75	22817	1.02	ppb		96
45) trans-1,3-dichloropropene	12.89	75	15330	1.03	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103118.D Vial: 27
Acq On : 31 Oct 2011 7:51 pm Operator: RJP
Sample : ALCS1UGD-103111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 31 20:12:03 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	29007	0.98	ppb	98
48)	Toluene	12.93	92	30208	0.88	ppb	94
49)	Methyl Isobutyl Ketone	12.09	43	10620m	1.01	ppb	
50)	Dibromochloromethane	13.87	129	64427	1.05	ppb	99
51)	Methyl Butyl Ketone	13.52	43	3051m	0.49	ppb	
52)	1,2-dibromoethane	14.11	107	44306	0.99	ppb	100
53)	Tetrachloroethylene	13.96	164	40276	0.94	ppb	99
54)	Chlorobenzene	14.90	112	54921	0.92	ppb	96
55)	Ethylbenzene	15.17	91	55911	0.81	ppb	97
56)	m&p-xylene	15.36	91	92716	1.62	ppb	95
57)	Styrene	15.76	104	27734	0.75	ppb	96
58)	Bromoform	15.84	173	61682	1.07	ppb	99
59)	o-xylene	15.79	91	66071	0.90	ppb	89
61)	1,1,2,2-tetrachloroethane	16.21	83	48912	0.85	ppb	99
62)	2-Chlorotoluene	16.84	91	41936	0.78	ppb	100
63)	4-ethyltoluene	16.98	105	28067	0.49	ppb	97
64)	1,3,5-trimethylbenzene	17.04	105	37711m	0.59	ppb	
65)	1,2,4-trimethylbenzene	17.44	105	30786m	0.60	ppb	
66)	1,3-dichlorobenzene	17.70	146	40115	0.77	ppb	97
67)	benzyl chloride	17.77	91	13445m	0.74	ppb	
68)	1,4-dichlorobenzene	17.82	146	36290	0.73	ppb	98
69)	1,2-dichlorobenzene	18.10	146	48683m	0.92	ppb	
70)	1,2,4-trichlorobenzene	19.74	180	13892m	0.48	ppb	
71)	Naphthalene	19.89	128	11180	0.33	ppb	87
72)	Hexachloro-1,3-butadiene	19.99	225	19974	0.43	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

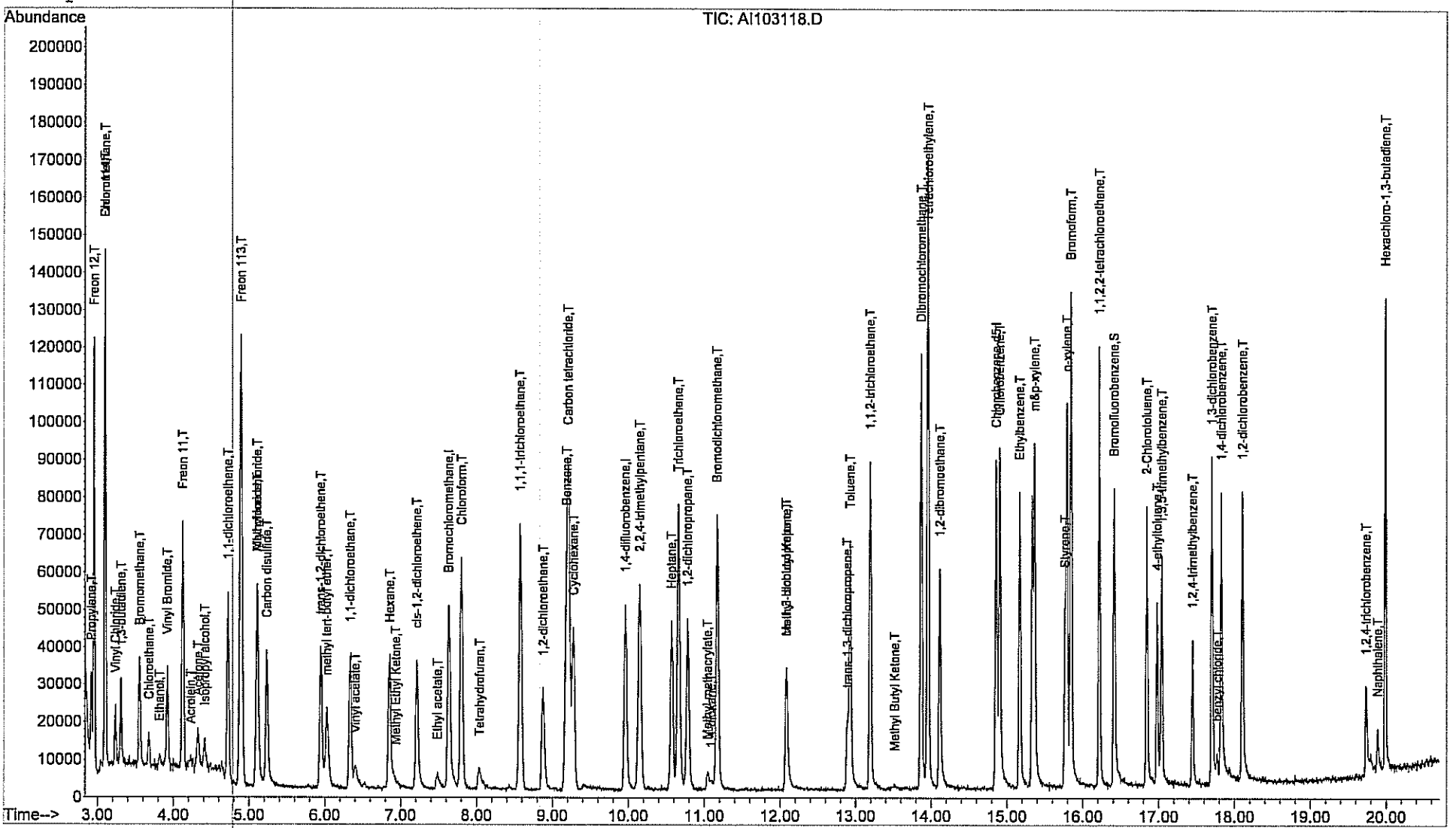
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI103118.D
Acq On : 31 Oct 2011 7:51 pm
Sample : ALCS1UGD-103111
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 2 8:54 2011

Vial: 27
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



Page 582 of 623

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110117.D Vial: 17
Acq On : 1 Nov 2011 9:25 pm Operator: RJP
Sample : ALCS1UGD-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 21:46:07 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.64	128	18317	1.00	ppb		0.02
32) 1,4-difluorobenzene	9.97	114	41860	1.00	ppb		0.00
47) Chlorobenzene-d5	14.86	117	42939	1.00	ppb		0.00
System Monitoring Compounds							
60) Bromofluorobenzene	16.41	95	21882	1.07	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 107.00%				
Target Compounds							Qvalue
2) Propylene	2.92	41	8001	0.91	ppb		99
3) Freon 12	2.96	85	71804	1.02	ppb		98
4) Chloromethane	3.09	50	13984	1.04	ppb		97
5) Freon 114	3.10	85	44681	1.12	ppb		96
6) Vinyl Chloride	3.23	62	12116	1.07	ppb		99
7) 1,3-butadiene	3.31	39	9327	1.04	ppb		91
8) Bromomethane	3.55	94	15687	1.01	ppb		97
9) Ethanol	3.83	45	4380	0.91	ppb	#	27
10) Acrolein	4.24	56	3232	0.96	ppb		92
11) Chloroethane	3.67	64	5128	1.13	ppb		97
12) Vinyl Bromide	3.92	106	15246	1.07	ppb		98
13) Freon 11	4.13	101	46907	1.12	ppb		99
14) Acetone	4.33	58	6488m	1.22	ppb		
15) Isopropyl alcohol	4.41	45	11333	0.81	ppb	#	100
16) 1,1-dichloroethene	4.73	96	17742	1.04	ppb		93
17) Freon 113	4.89	101	52944	1.19	ppb		94
18) Methylene chloride	5.12	84	21475	1.13	ppb	#	84
19) Allyl chloride	5.10	41	12110	0.89	ppb		86
20) Carbon disulfide	5.24	76	56985	0.98	ppb		99
21) trans-1,2-dichloroethene	5.95	61	22031	0.93	ppb		86
22) methyl tert-butyl ether	6.03	73	24535	0.74	ppb	#	51
23) 1,1-dichloroethane	6.34	63	32592	1.01	ppb		99
24) Vinyl acetate	6.41	43	13657	0.76	ppb		94
25) Methyl Ethyl Ketone	6.93	72	1704m	0.37	ppb		
26) cis-1,2-dichloroethene	7.22	61	20385	0.95	ppb		86
27) Hexane	6.86	57	12692	0.81	ppb		93
28) Ethyl acetate	7.50	43	12793m	0.76	ppb		
29) Chloroform	7.80	83	54033	1.03	ppb		100
30) Tetrahydrofuran	8.03	42	7504m	0.93	ppb		
31) 1,2-dichloroethane	8.88	62	28974	0.99	ppb		99
33) 1,1,1-trichloroethane	8.58	97	49098m	1.25	ppb		
34) Cyclohexane	9.27	56	14090	1.06	ppb	#	81
35) Carbon tetrachloride	9.21	117	66222	1.60	ppb		100
36) Benzene	9.19	78	45289	1.15	ppb		93
37) Methyl methacrylate	11.05	41	2437	0.36	ppb		99
38) 1,4-dioxane	11.11	88	940m	0.27	ppb		
39) 2,2,4-trimethylpentane	10.15	57	46218	1.09	ppb		97
40) Heptane	10.57	43	13479	1.06	ppb		87
41) Trichloroethene	10.66	130	32116	1.18	ppb		98
42) 1,2-dichloropropane	10.78	63	16958	1.21	ppb		99
43) Bromodichloromethane	11.17	83	48656m	1.22	ppb		
44) cis-1,3-dichloropropene	12.08	75	18778	1.12	ppb		95
45) trans-1,3-dichloropropene	12.89	75	12304m	1.10	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110117.D Vial: 17
Acq On : 1 Nov 2011 9:25 pm Operator: RJP
Sample : ALCS1UGD-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 01 21:46:07 2011 Quant Results File: AO30_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration
DataAcq Meth : AO30_1UG

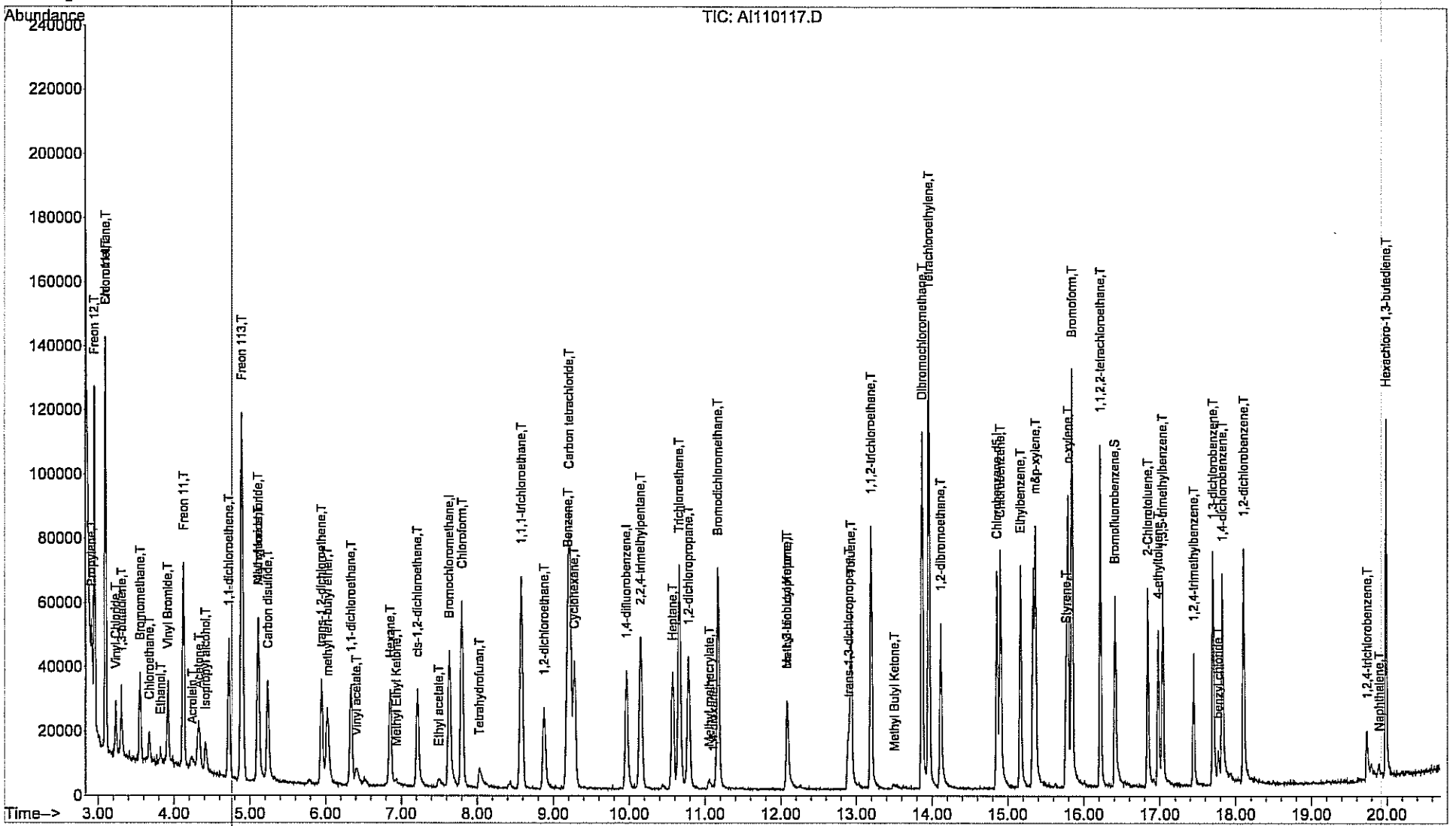
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
46)	1,1,2-trichloroethane	13.19	97	27351	1.24	ppb	97
48)	Toluene	12.93	92	26456	1.00	ppb	87
49)	Methyl Isobutyl Ketone	12.09	43	7006m	0.87	ppb	
50)	Dibromochloromethane	13.87	129	62096	1.32	ppb	99
51)	Methyl Butyl Ketone	13.50	43	5138m	1.07	ppb	
52)	1,2-dibromoethane	14.12	107	38921	1.13	ppb	99
53)	Tetrachloroethylene	13.95	164	34076	1.03	ppb	97
54)	Chlorobenzene	14.90	112	44079	0.96	ppb	99
55)	Ethylbenzene	15.17	91	48144	0.91	ppb	97
56)	m&p-xylene	15.37	91	85015	1.93	ppb	95
57)	Styrene	15.76	104	23235	0.82	ppb	95
58)	Bromoform	15.84	173	60904	1.37	ppb	100
59)	o-xylene	15.79	91	48041	0.85	ppb	99
61)	1,1,2,2-tetrachloroethane	16.22	83	44034	1.00	ppb	99
62)	2-Chlorotoluene	16.84	91	34220	0.83	ppb	96
63)	4-ethyltoluene	16.98	105	27942	0.64	ppb	92
64)	1,3,5-trimethylbenzene	17.04	105	34353	0.69	ppb	97
65)	1,2,4-trimethylbenzene	17.45	105	31108m	0.78	ppb	
66)	1,3-dichlorobenzene	17.70	146	34460	0.85	ppb	97
67)	benzyl chloride	17.77	91	15120m	1.08	ppb	
68)	1,4-dichlorobenzene	17.82	146	29251	0.77	ppb	97
69)	1,2-dichlorobenzene	18.10	146	33225	0.81	ppb	91
70)	1,2,4-trichlorobenzene	19.73	180	10212m	0.46	ppb	
71)	Naphthalene	19.89	128	6084m	0.23	ppb	
72)	Hexachloro-1,3-butadiene	19.99	225	17793	0.49	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI110117.D Vial: 17
Acq On : 1 Nov 2011 9:25 pm Operator: RJP
Sample : ALCS1UGD-110111 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 3 8:20 2011 Quant Results File: AO30_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 21 08:55:32 2011
Response via : Initial Calibration



AI110117.D AO30_1UG.M Mon Nov 21 09:43:21 2011 MSD1 Page 3

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8760
Standard Stock #(s) 8761
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1V6	AF103001	-		A030-1V6		10/30/11	1322		
	A1V6-2.0	19	-		↓		10/31/11	0038		
	1.5	20	-				↓			
	1.25	21	-							
	1.0	22	-	200						
	0.75	23	-							
	0.50	24	-							
	0.30	25	-							
	0.15	26	-							
	0.10	28	-							
	0.04	29	-					0609		
	BL16	30	-		↓					

Analyzed by: _____

Page No: 137

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8760
Standard Stock #(s) 8761
LCS Stock #(s) 8762
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	CH10054-014	A110329	-	200	A030-10L		11/1/11	0178		
	015	30	-							
	019	31	-							
	020	32	-							
	021	33	-							
	022	34	-							
	001 DL	35	10	20						
	002	36	5	40						
	003	37	10	20						
	004	38								
	005	39								
	006	40								
	016	41								
	020	42	5	40				0514		
	BLK	43	-	-						
	BFBIUG	A110101	-	-	A030-10L		11/1/11	1002		
	A10G-1.0	04	-	200						
	ALCS10G-110111	05	-							
	AMB10G	06	-							
	CH10054-021DL	07	10	20						
	011	08								
	012	09								
	013	10								
	014	11								
	015	12								
	022	13								
	012	14	40	5				1945		

Analyzed by: [signature]

Page No: 139

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8760
Standard Stock #(s) 8761
LCS Stock #(s) 8762
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	CCV 0054-021 OL	AZ110115	270	20 (27)*	A030..106		11/1/11	2018		
	19 ↓	16	90	↓ (9)*						
	ALCS1160-110111	17	-	200						
	CL110056-007 DL	18	-	↓						
	001 DL	19	10	20						
	002	20								
	003	21								
	004	22					11/2/11	0006		
	005 ↓	23	↓	↓						
	001	24	-	200						
	002	25	-							
	003	26	-							
	004	27	-							
	005	28	-							
	006	29	-	↓						
	↓ 0-	30	10	20						
	001	31	40	5						
	002	32								
	003	33								
	004	34								
	005	35								
	006 ↓	36	↓	↓				0835		
	Blk	37	-	-						

Analyzed by: MC

Page No: 140

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓	
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	%VARIES	1L	MATHESON TRI-GAS		ml	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621	↓	↓	↓ STD(A)	7617/7618 7384/7619	↓	↓	↓	↓	↓	
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓	
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓	
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓	

RECERT. ON 3/11 EXP 3/12

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8335	3/1/11	3/7/11	TO15 LCS	7743A+B	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8336	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8337			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8338			FORM 50	8337	10 ppm	0.23 psig	45 psia	50 ppb		
8339			↓ SUL/SIL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8340			TO15 IUG IS A	8333	50 ppb	0.5 psig	45 psia	1 ppb		
8341			STD A	8334						
8342			LCS	8335						
8343			IS B	8333						
8344	↓	↓	↓ STD B	8333	↓	↓	↓	↓	↓	
8345	3/6/11	3/12	TO15 MIX	AB 100777	1 ppm	1800 psig	LINDE GAS		MP	
8346	↓	↓	TO15 SUB MIX	AB 100678	↓	↓	↓	↓	↓	
8347	3/6/11	3/13/11	TO15 IS	8317	1 ppm	1.5 psig	30 psia	50 ppb	MP	
8348	↓	↓	STD	8345/46	↓	↓	↓	↓	↓	
8349			LCS	7617/18 ~~8346~~						
8350			4PCH	7384						
8351			FORM	7068	36.5%	1.1 uL	50 psia	10 ppm		
8352			FORM 50	8351	10 ppm	0.23 psig	45 psia	50 ppb		
8353			↓ SUL SUL	6194	1 ppm	1.5 psig	30 psia	50 ppb		
8354			TO15 IUG IS A	8347	50 ppb	0.5 psig	45 psia	1 ppb		
8355	↓	↓	↓ STA A	8348	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8648	8/26/11	8/29/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8649	8/29/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8650	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8651			LCS	7617/7618						
8652			4PCH	7384						
8653			SULF/SILX	8615/6194						
8654			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8655			FORM50	8643	10ppm	0.23psig	45psia	50ppb		
8656			TO15LL IS (A)	8649	50ppb	0.9psig	45psia	1ppb		
8657			STD (A)	8650						
8658	↓	↓	LCS	8651	↓	↓	↓	↓	↓	
8659	8/30/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
8660	9/1/11	9/5/11	TO15 IS	8317	1ppm	1.5psig	30psia	50ppb	L.L.	
* 8661	9/5/11	9/12/11	IS MIX	CUSTOM GAS	LOT #	080311-002			MD	
8662	9/5/11	9/12/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb		
8663	↓	↓	STD	8345/8346	↓	↓	↓	↓	↓	
8663A			LCS	7617/7618						
8664			4-PCH	7384						
8665			SULF/SILX	8615/6194						
8666			FORM	7068	36.5%	1.1µl	50psia	10ppm		
8667	↓	↓	FORM50	8666	10ppm	0.23psig	45psia	50ppb	↓	

Centek Laboratories, LLC GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8752	10/27/11	10/31/11	TO15 IS	8661	1ppm	1.5psig	30psia	50ppb	I.L.	
8753	10/30/11	11/6/11	TO15 IS	8661	↓	↓	↓	↓	↓	
8754	↓	↓	STD	8345/46						
8755			LCS	747/18						
8756			4PCH	7384						
8757			FORM	7068	36.5%	1.1µL	50psig	10ppm	mp	
8758			↓ 50	8757	10ppm	0.23psig	45psia	50ppb		
8759			SIM/SCL	6194/8615	1ppm	1.5psig	30psia	50ppb		
8760			TO15 VOC IS(A)	8753	50ppb	0.9psig	45psia	1ppb		
8761			STD(A)	8754	↓	↓	↓	↓		
8762	↓	↓	LCS	8755	↓	↓	↓	↓	↓	

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
367	465	30	10-06-11	WAC100611A	1ug/m3±0.25	+ 30	+ 30
101						+	+
162						+	+
199						+	+
465						+	+
138	226			WAC100611 B		+	+
352						+	+
429						+	+
222						+	+
226						+	+
332	476			WAC100611 C		+	+
78						+	+
413						+	+
357						+	+
476						+	+
493	366			WAC100611D		+	+
285						+	+
221						+	+
459						+	+
366						+	+
315	462			WAC100611E		+	+
558						+	+
157						+	+
542						+	+
462						+	+

Cleaned by: _____

Page # _____

Centek Laboratories, LLC

Instrument: Entech 3100

QC Canister Cleaning Logbook

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
171	351	30	9-28-11	WAC092811 H	1ug/m3 ±0.25	+ 30	+ 30
142						+	+
287						+	+
236						+	+
351						+	+
193	359			WAC092811 I		+	+
130						+	+
326						+	+
312						+	+
359						+	+
188	418			WAC092811 J		+	+
290						+	+
242						+	+
220						+	+
418						+	+
486	482			WAC092811 K		+	+
215						+	+
211						+	+
484						+	+
482						+	+
485	212			WAC092811 L		+	+
210						+	+
218						+	+
216						+	+
212						+	+

Cleaned by: T.L.

Page # 67

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8760
Standard Stock #(s) 8761
LCS Stock #(s) 8762
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1UG	AI103101	-	-	A030-1UG		10/31/11	0953		
	A1UG-1.0	02	-	200						
	ALCS1UG-103111	03	-							
	A1B1UG ↓	04	-							
	C1110054-023	05	-							
	007	06	-							
	008	07	-							
	009	08	-							
	016	09	-							
	017	10	-							
	018	11	-	↓						
	007 DL	12	5	40						
	008	13	↓	↓						
	009	14								
	016	15								
	017	16								
	018 ↓	17	↓	↓						
	ALCS1UG0-103111	18	-	200						
	C1110054-001	19	-							
	002	20	-							
	003	21	-							
	004	22	-							
	005	23	-							
	006	24	-							
	010	25	-							
	011	26	-				11/1/11	0012		
	012	27	-							
	013	28	-	↓	↓		↓	0116		

Analyzed by: [signature]

Page No: 138

Centek laboratories, LLC

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
325	358	30	10-18-11	WAC101811 A	1ug/m3+0.25	+ 30	+ 30
4194						+	+
420						+	+
165						+	+
358						+	+
362	371			WAC101811 B		+	+
286						+	+
324						+	+
471						+	+
371						+	+
431	106			WAC101811 C		+	+
335						+	+
201						+	+
4157						+	+
106						+	+
496	161			WAC101811 E		+	+
136						+	+
4174						+	+
200						+	+
161						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: _____

Page # _____

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI092814.D Vial: 14
Acq On : 28 Sep 2011 6:29 pm Operator: RJP
Sample : WAC092811K Inst : MSD #1
Misc : 1UG + 0.25 1.4L Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 18:50:19 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	14428	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	40208	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	31574	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14165	0.89	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI092814.D AO30_1UG.M Tue Nov 22 09:08:37 2011 MSD1 Page 1

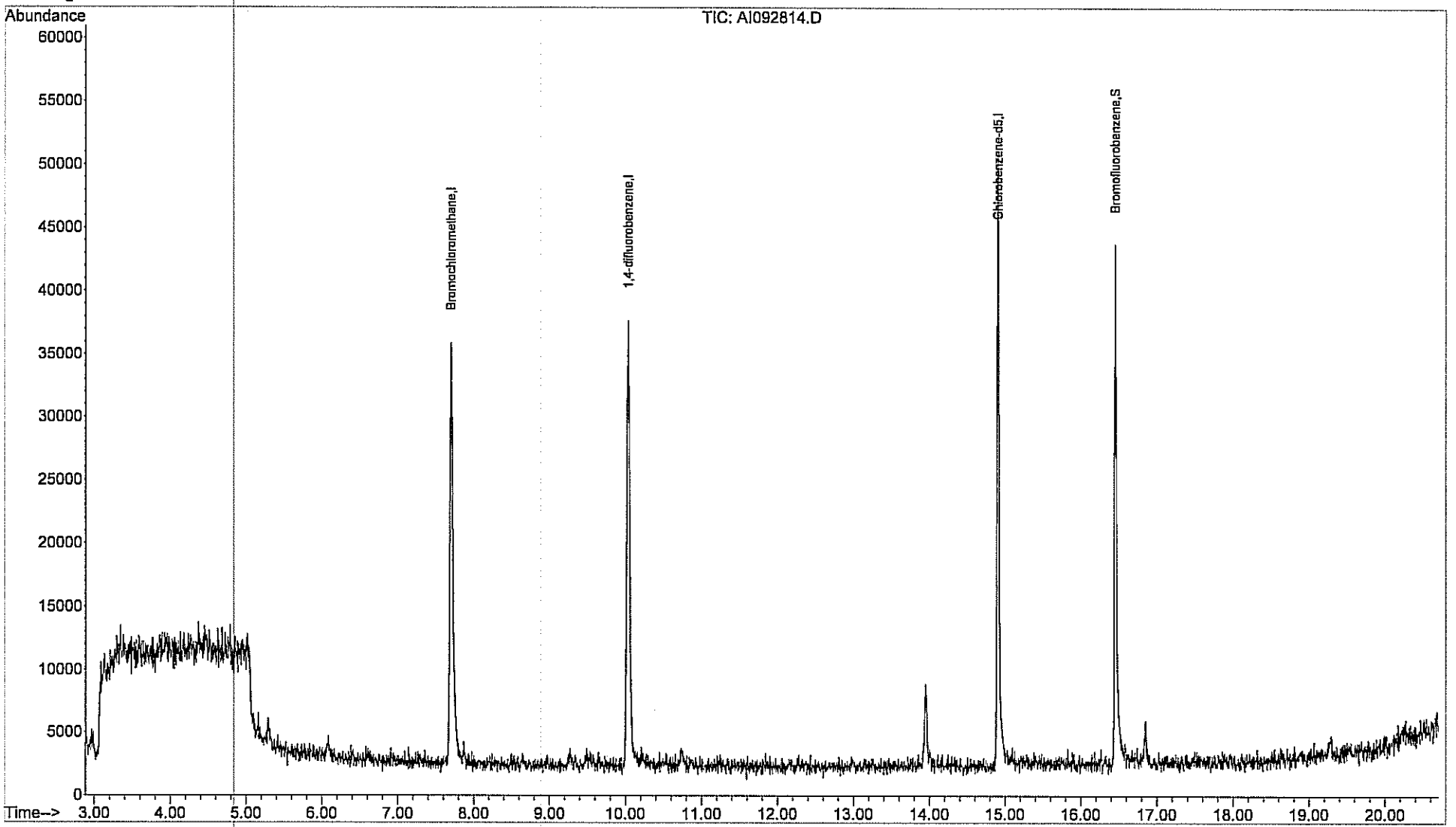
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI092814.D
Acq On : 28 Sep 2011 6:29 pm
Sample : WAC092811K
Misc : 1UG + 0.25 1.4L
MS Integration Params: RTEINT.P
Quant Time: Sep 28 17:50 2011

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI092815.D Vial: 15
Acq On : 28 Sep 2011 7:02 pm Operator: RJP
Sample : WAC092811L Inst : MSD #1
Misc : 1UG + 0.25 1.4L Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 19:23:16 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

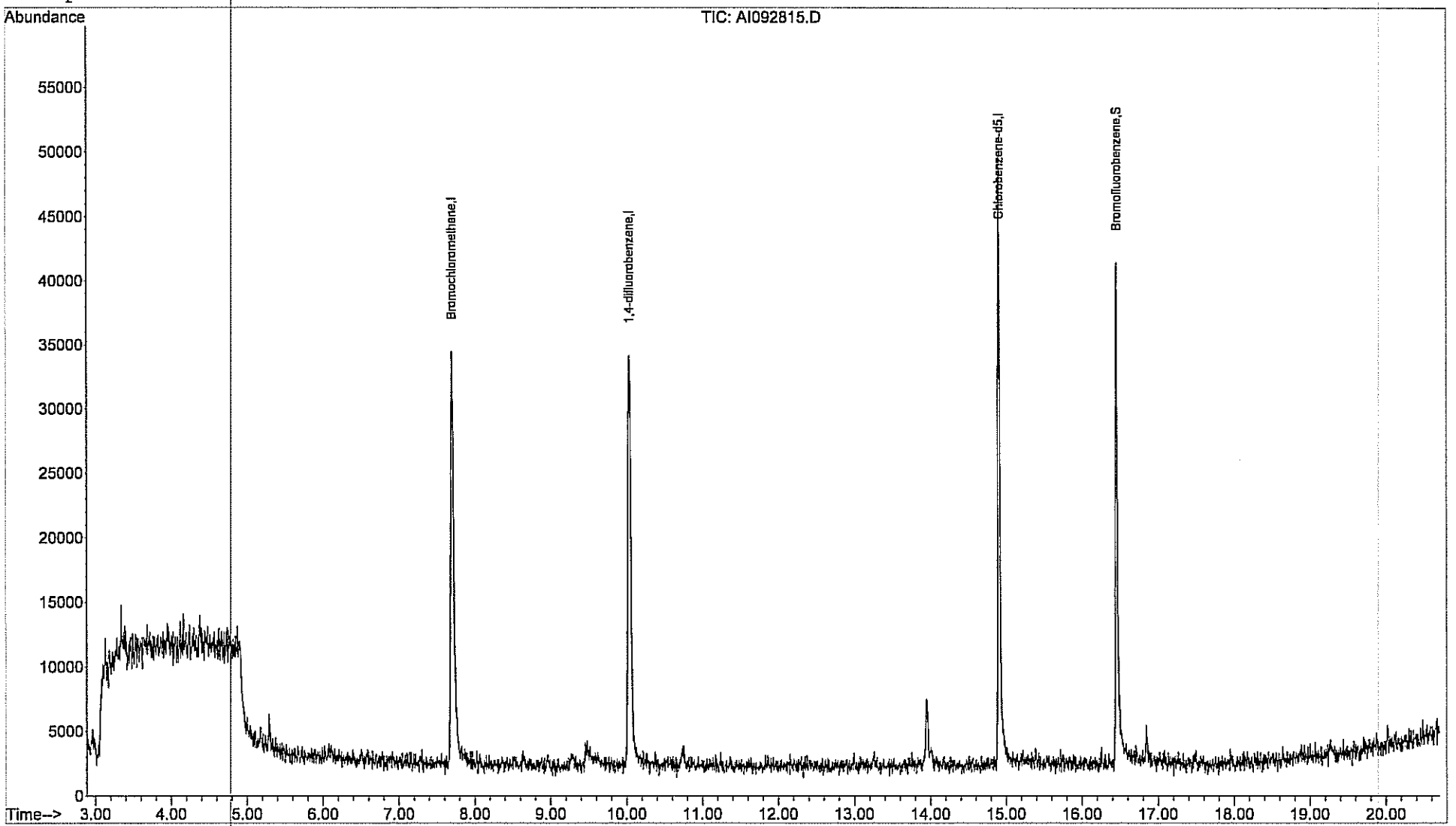
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	14371	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	38917	1.00	ppb	0.02
47) Chlorobenzene-d5	14.90	117	31038	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	13304	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI092815.D AO30_1UG.M Tue Nov 22 09:08:40 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI092815.D Vial: 15
Acq On : 28 Sep 2011 7:02 pm Operator: RJP
Sample : WAC092811L Inst : MSD #1
Misc : 1UG + 0.25 1.4L Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 7 9:01 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI092815.D AO30_1UG.M Tue Nov 22 09:08:41 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100606.D Vial: 21
Acq On : 6 Oct 2011 2:00 pm Operator: RJP
Sample : WAC100611A Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 14:21:22 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	16609	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	50335	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	42826	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	18318	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100606.D AO30_1UG.M Tue Nov 22 09:08:42 2011 MSD1 Page 1

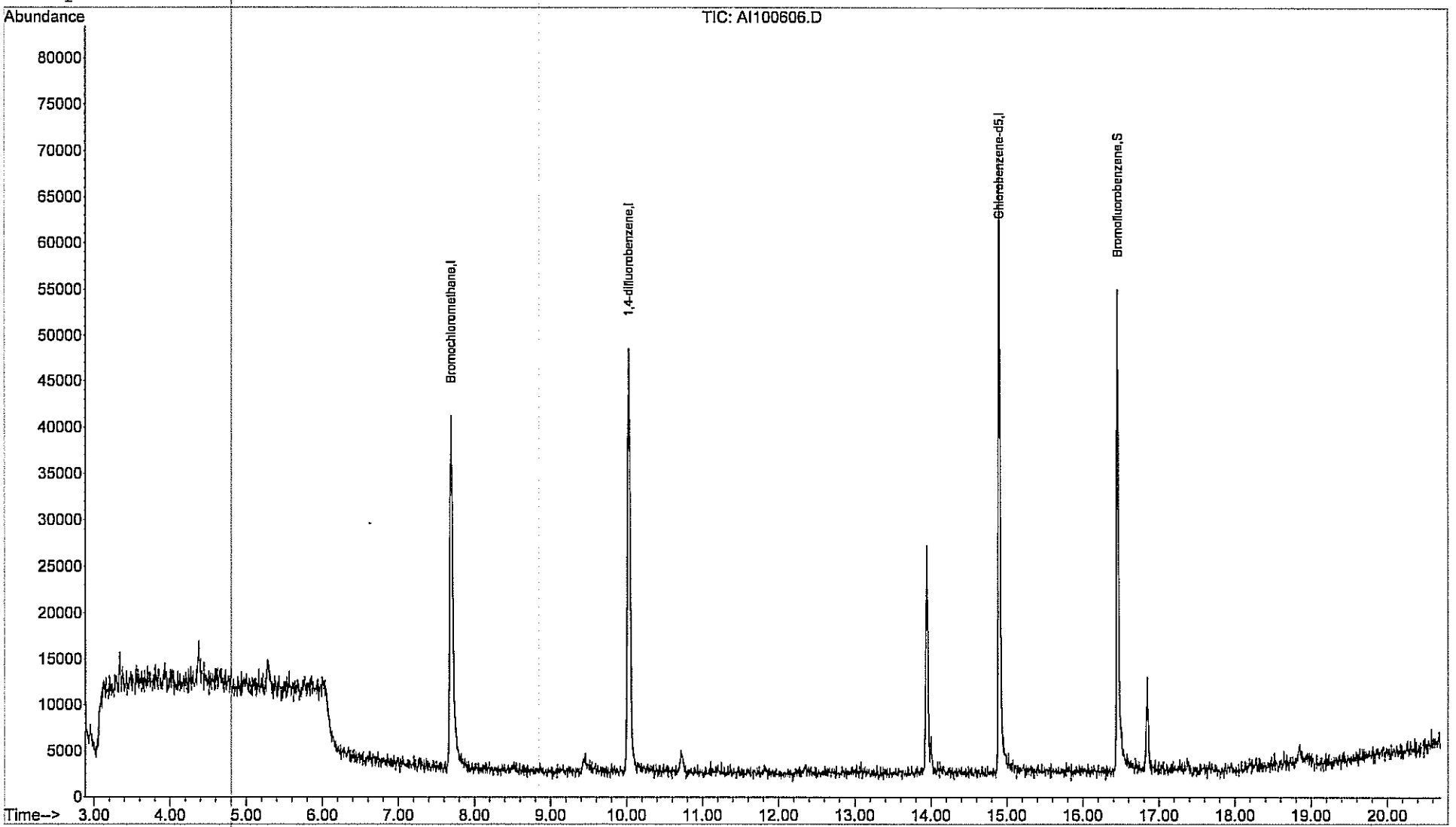
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100606.D
Acq On : 6 Oct 2011 2:00 pm
Sample : WAC100611A
Misc : 1UG + 0.25 QC Can
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:48 2011

Vial: 21
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100607.D Vial: 22
Acq On : 6 Oct 2011 2:33 pm Operator: RJP
Sample : WAC100611B Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 14:54:35 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

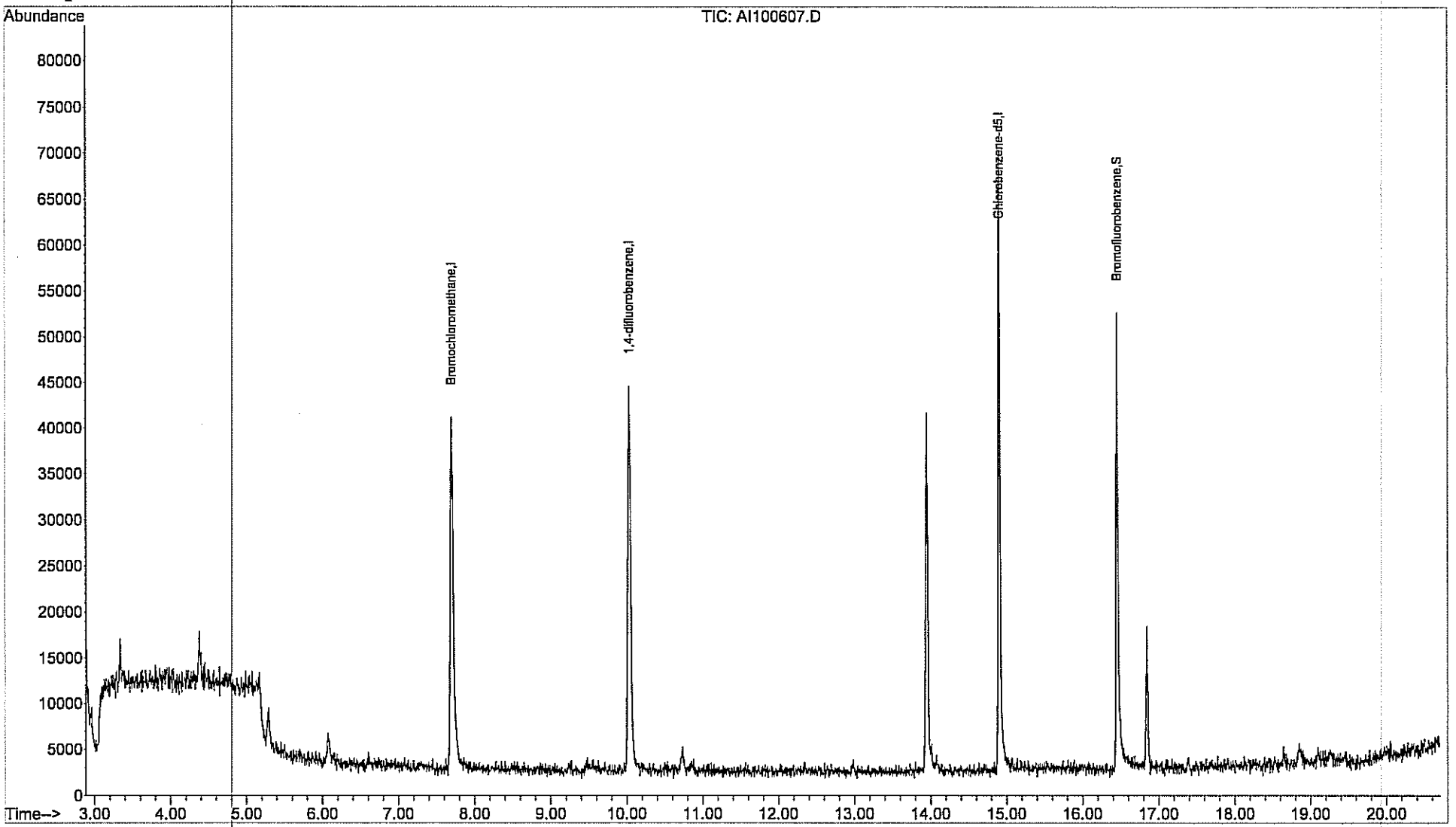
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	17448	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	49777	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	43042	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	17219	0.79	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 79.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100607.D AO30_1UG.M Tue Nov 22 09:08:45 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100607.D Vial: 22
Acq On : 6 Oct 2011 2:33 pm Operator: RJP
Sample : WAC100611B Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:48 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100608.D Vial: 23
Acq On : 6 Oct 2011 3:07 pm Operator: RJP
Sample : WAC100611C Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 15:27:49 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

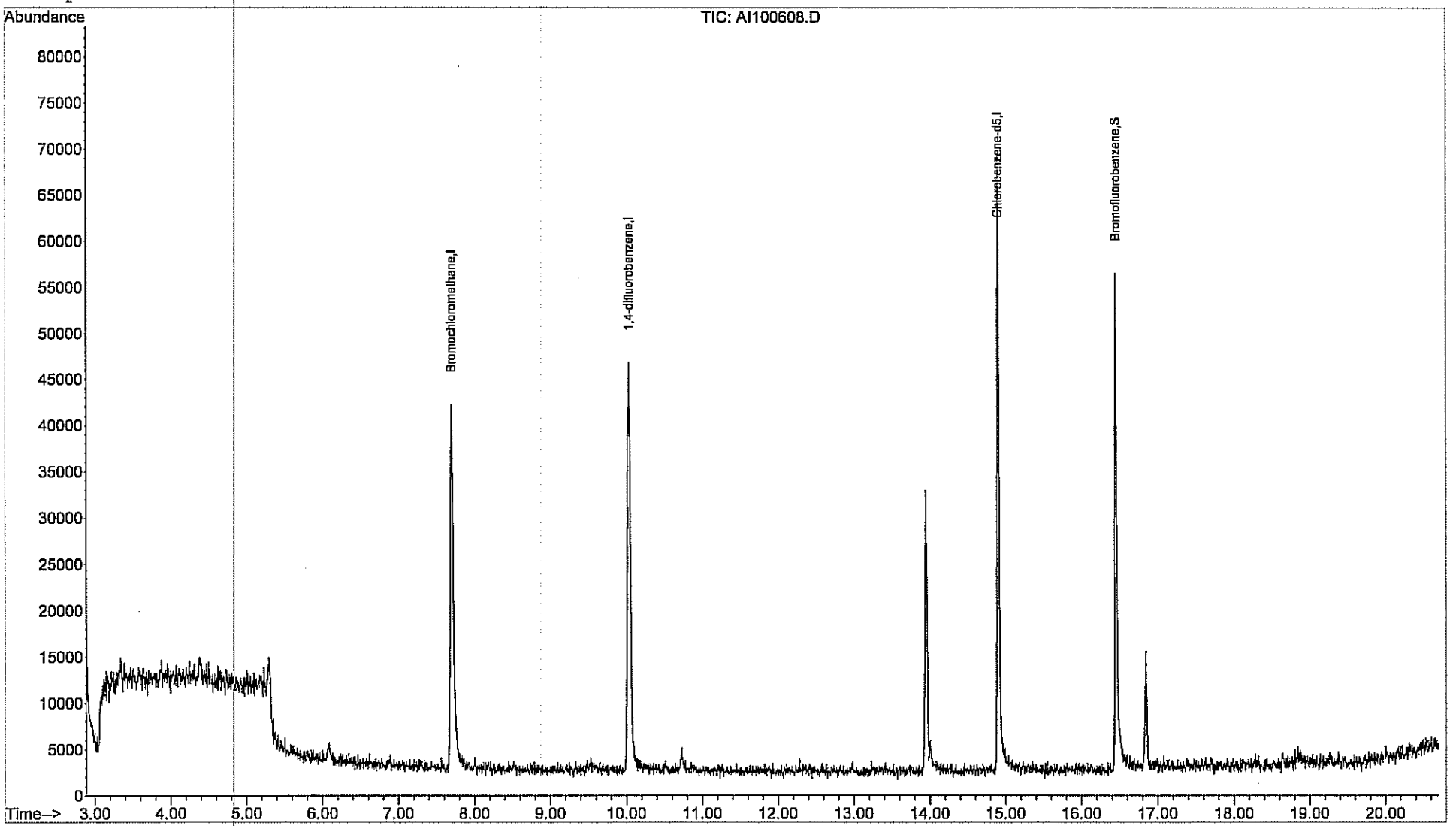
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	17734	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	52954	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	42911	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	17869	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100608.D AO30_1UG.M Tue Nov 22 09:08:48 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100608.D Vial: 23
Acq On : 6 Oct 2011 3:07 pm Operator: RJP
Sample : WAC100611C Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:48 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100609.D Vial: 24
Acq On : 6 Oct 2011 3:40 pm Operator: RJP
Sample : WAC100611D Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 16:01:57 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

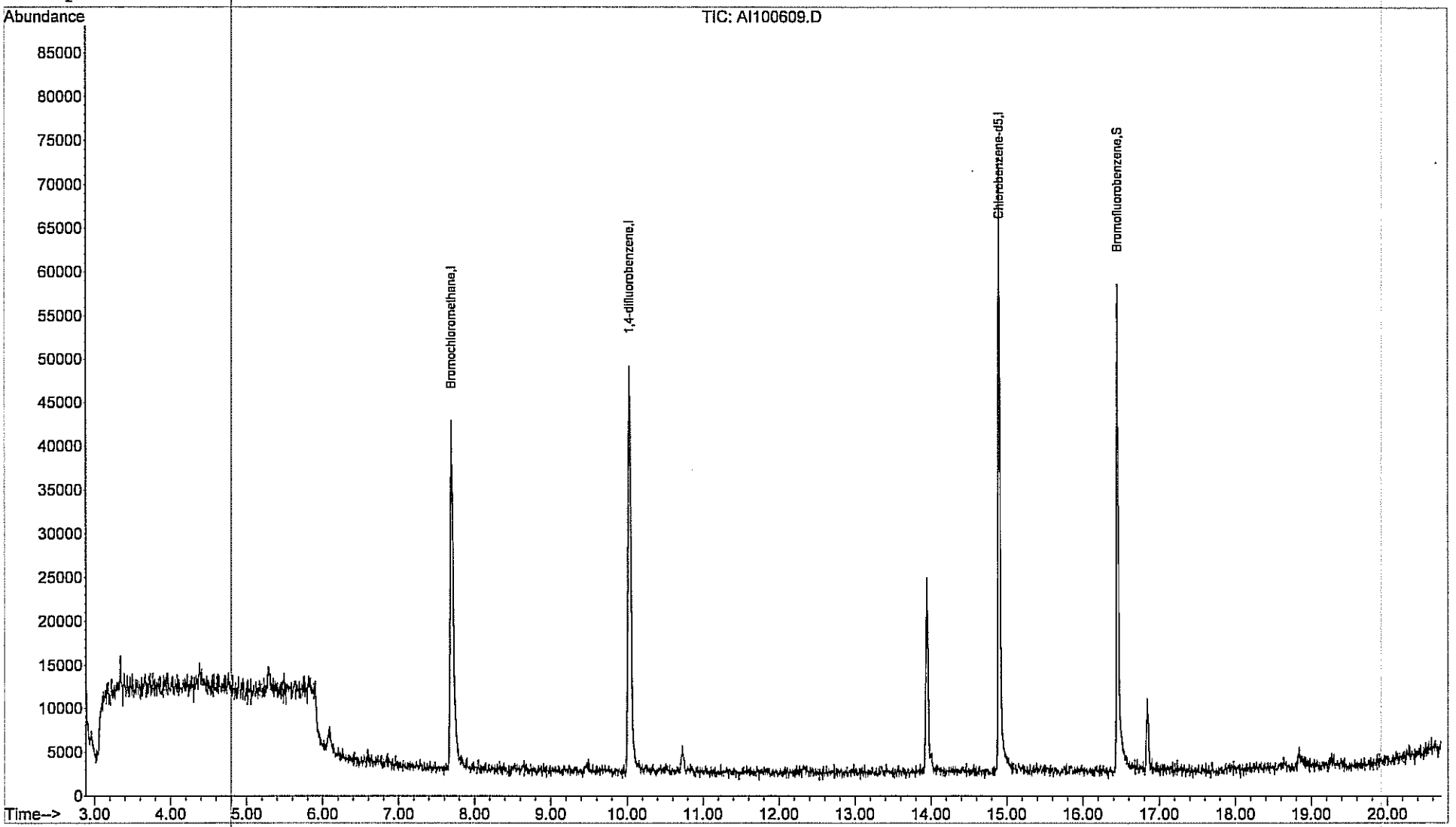
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	16945	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	53232	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	45596	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	19541	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI100609.D AO30_1UG.M Tue Nov 22 09:08:50 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100609.D Vial: 24
Acq On : 6 Oct 2011 3:40 pm Operator: RJP
Sample : WAC100611D Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:48 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100609.D AO30_1UG.M Tue Nov 22 09:08:51 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100610.D Vial: 25
Acq On : 6 Oct 2011 4:13 pm Operator: RJP
Sample : WAC100611E Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 16:33:59 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	17080	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	50392	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	42883	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16856	0.78	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 78.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

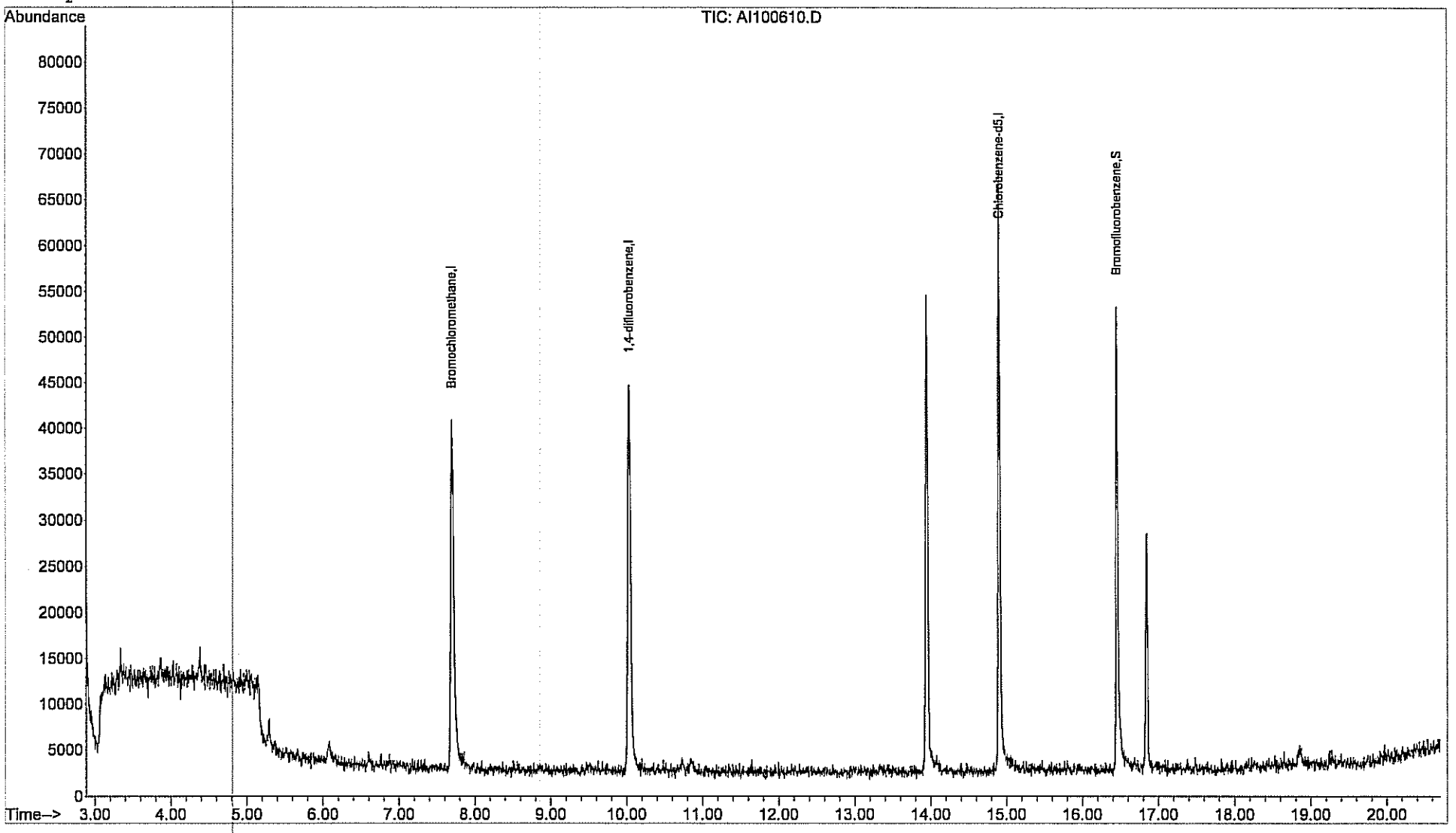
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100610.D
Acq On : 6 Oct 2011 4:13 pm
Sample : WAC100611E
Misc : 1UG + 0.25 QC Can
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:49 2011

Vial: 25
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100610.D AO30_1UG.M Tue Nov 22 09:08:54 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100611.D Vial: 26
Acq On : 6 Oct 2011 4:46 pm Operator: RJP
Sample : WAC100611F Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 06 17:07:10 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

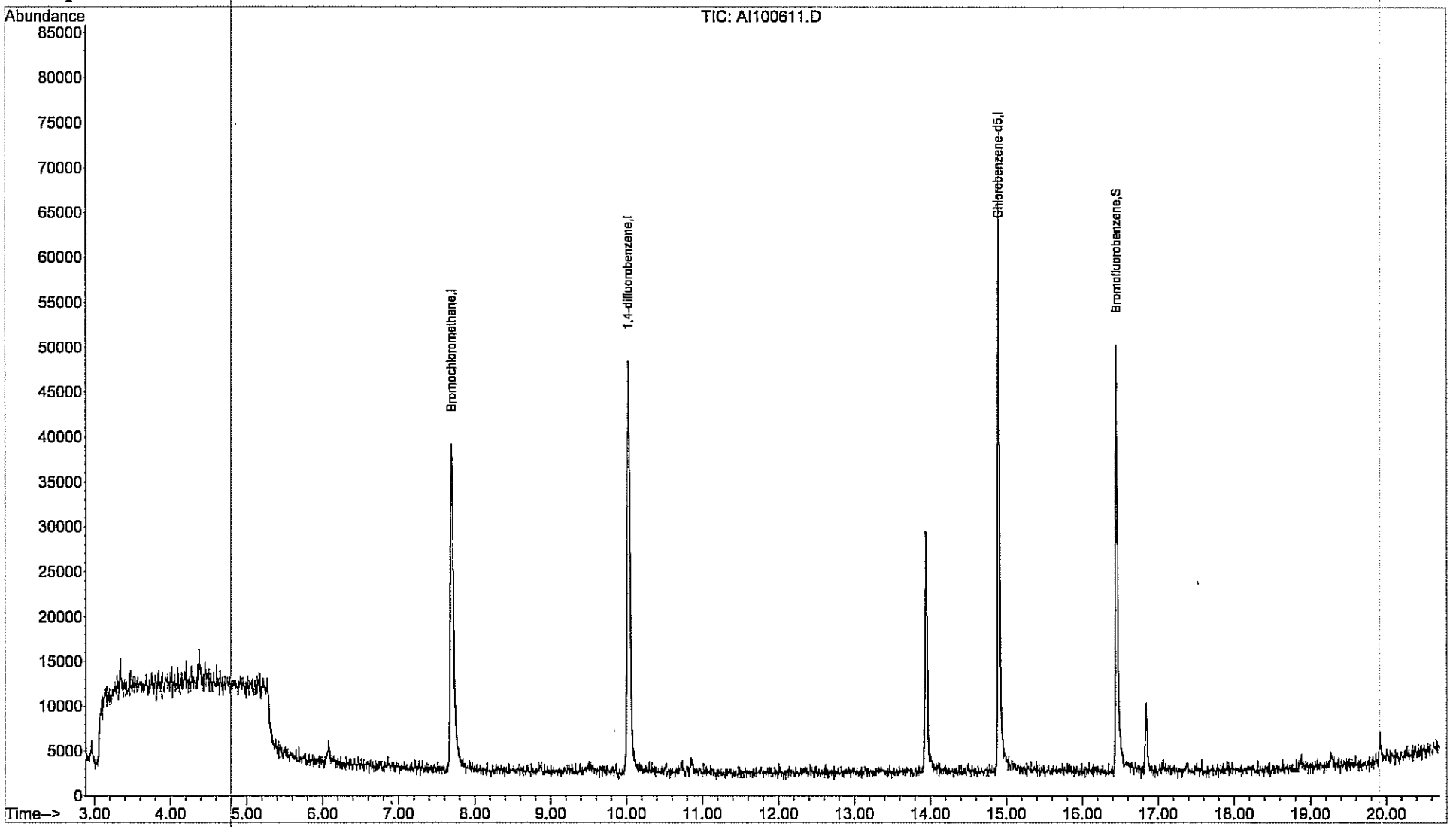
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	17035	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	50826	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	42824	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16499	0.76	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 76.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI100611.D Vial: 26
Acq On : 6 Oct 2011 4:46 pm Operator: RJP
Sample : WAC100611F Inst : MSD #1
Misc : 1UG + 0.25 QC Can Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 10 9:49 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI100611.D AO30_1UG.M Tue Nov 22 09:08:57 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101806.D Vial: 6
Acq On : 18 Oct 2011 3:52 pm Operator: RJP
Sample : WAC101811A Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 16:12:51 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

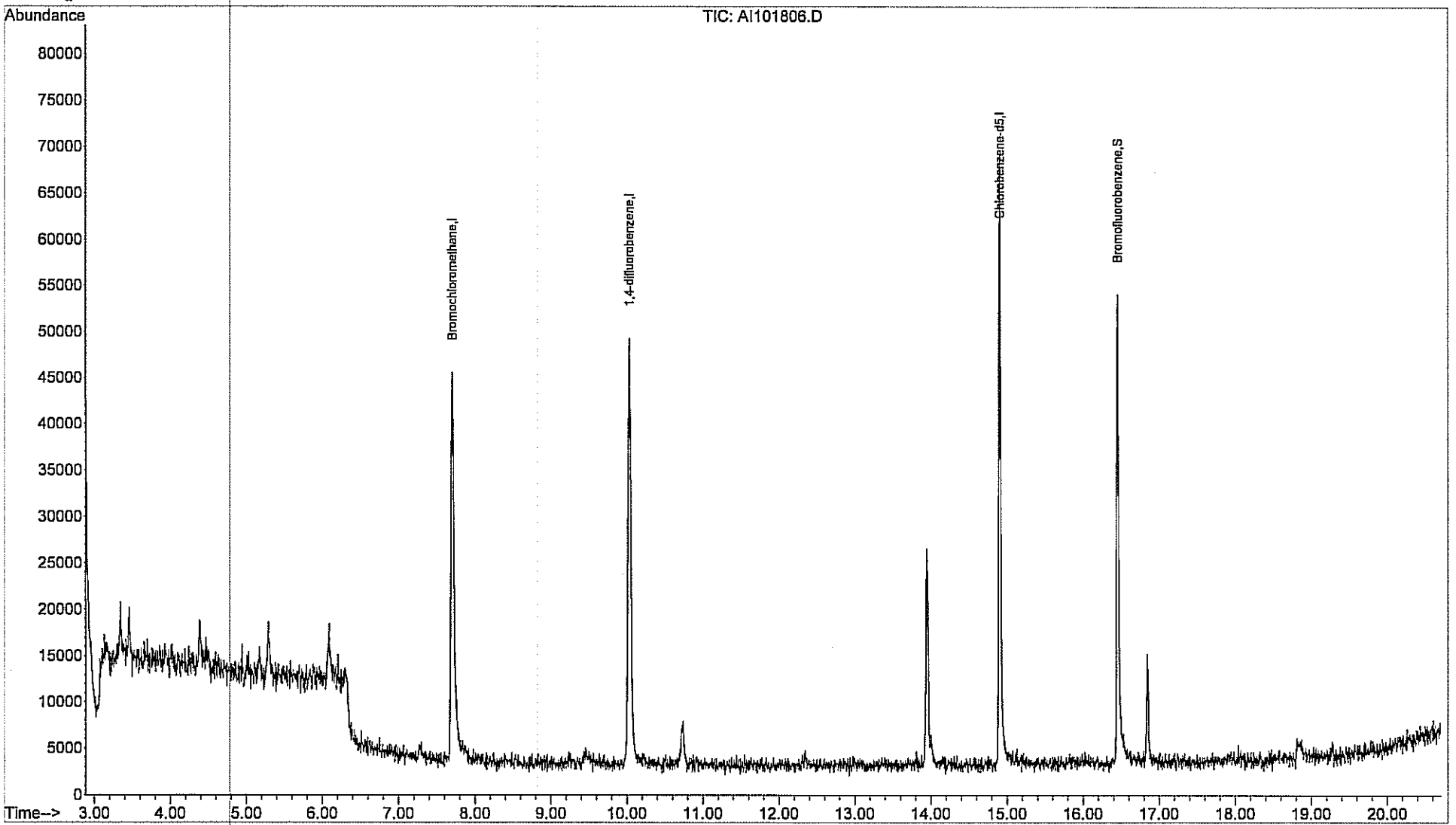
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.71	128	19406	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	53537	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	42951	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	16694	0.77	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 77.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI101806.D AO30_1UG.M Tue Nov 22 09:08:58 2011 MSD1 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101806.D Vial: 6
Acq On : 18 Oct 2011 3:52 pm Operator: RJP
Sample : WAC101811A Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 9:05 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101807.D Vial: 7
Acq On : 18 Oct 2011 4:24 pm Operator: RJP
Sample : WAC101811B Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 16:45:34 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

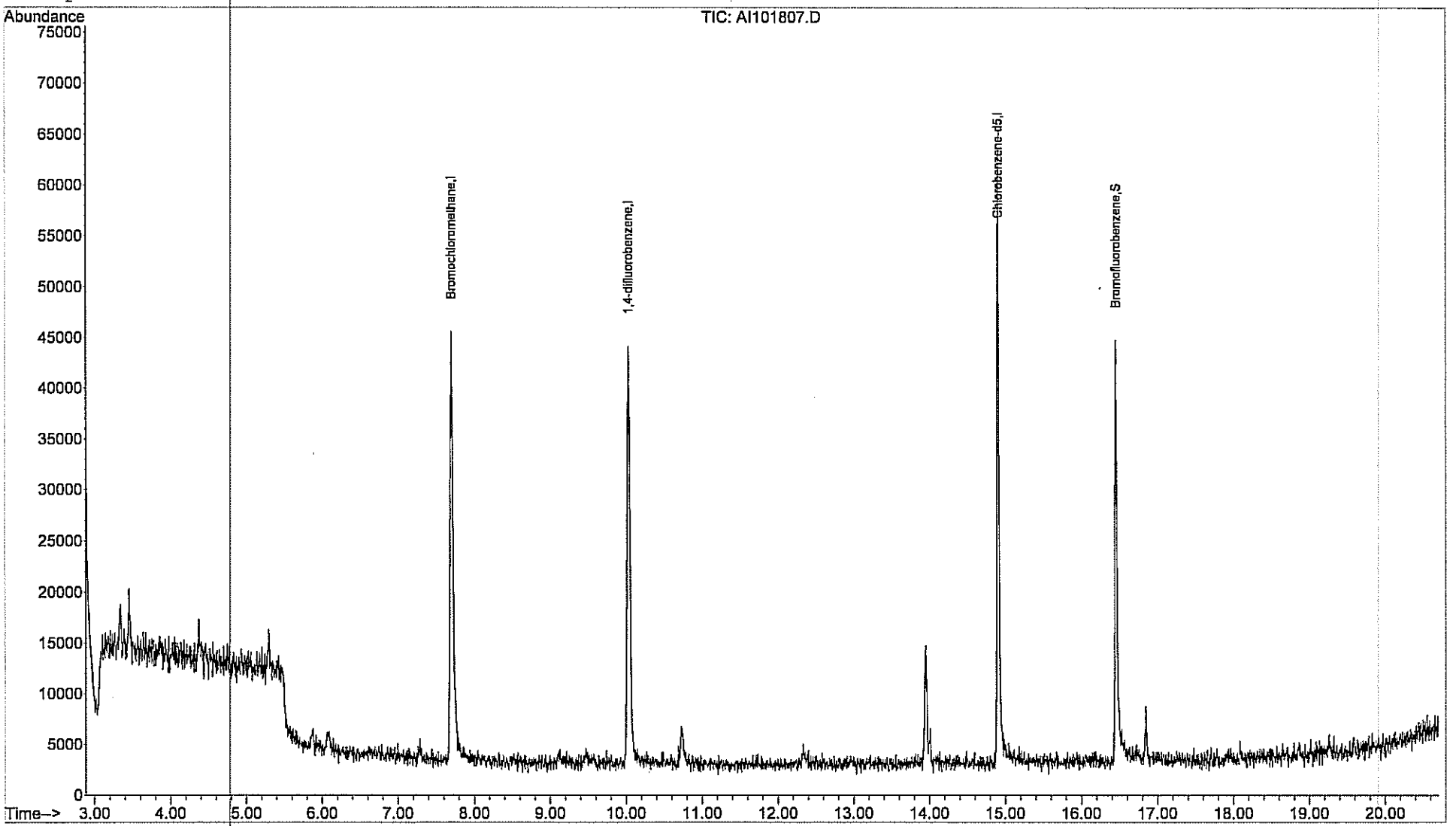
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	18354	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.03	114	46715	1.00	ppb	0.00
47) Chlorobenzene-d5	14.90	117	39430	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	14544	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI101807.D AO30_1UG.M Tue Nov 22 09:09:00 2011 MSD1 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101807.D Vial: 7
Acq On : 18 Oct 2011 4:24 pm Operator: RJP
Sample : WAC101811B Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 9:05 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI101807.D AO30_1UG.M Tue Nov 22 09:09:01 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101808.D Vial: 8
Acq On : 18 Oct 2011 4:58 pm Operator: RJP
Sample : WAC101811C Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 17:18:51 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

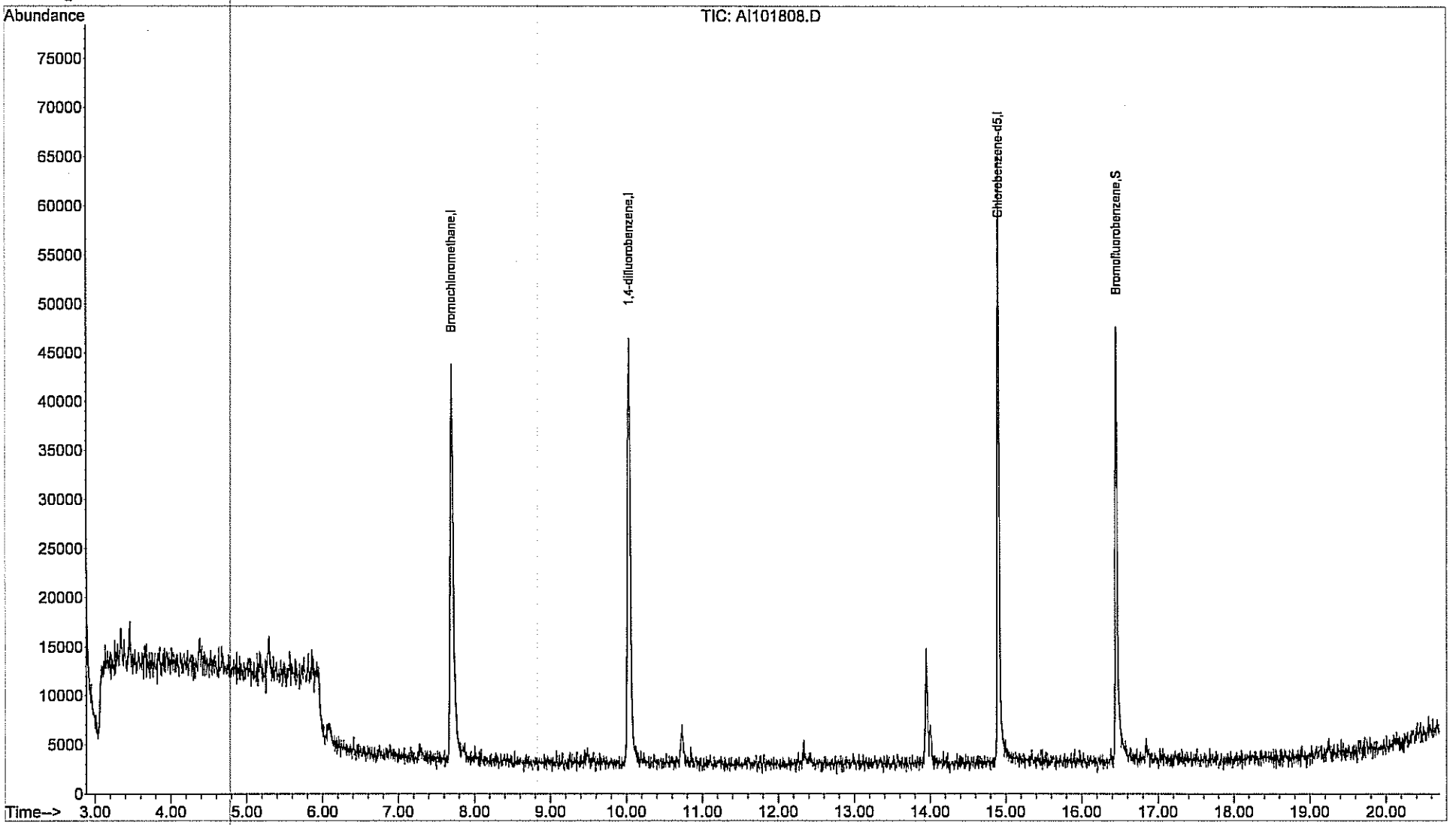
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	18510	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	50019	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	41256	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.46	95	15253	0.73	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 73.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI101808.D AO30_1UG.M Tue Nov 22 09:09:02 2011 MSD1 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101808.D Vial: 8
Acq On : 18 Oct 2011 4:58 pm Operator: RJP
Sample : WAC101811C Inst : MSD #1
Misc : 1Uug + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 9:06 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



AI101808.D AO30_1UG.M Tue Nov 22 09:09:03 2011 MSD1 Page 2

Centek laboratories, LLC

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101810.D Vial: 10
Acq On : 18 Oct 2011 7:19 pm Operator: RJP
Sample : WAC101811E Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 19:39:56 2011 Quant Results File: A826_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A826_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Sep 17 14:54:14 2011
Response via : Initial Calibration
DataAcq Meth : A826_1UG

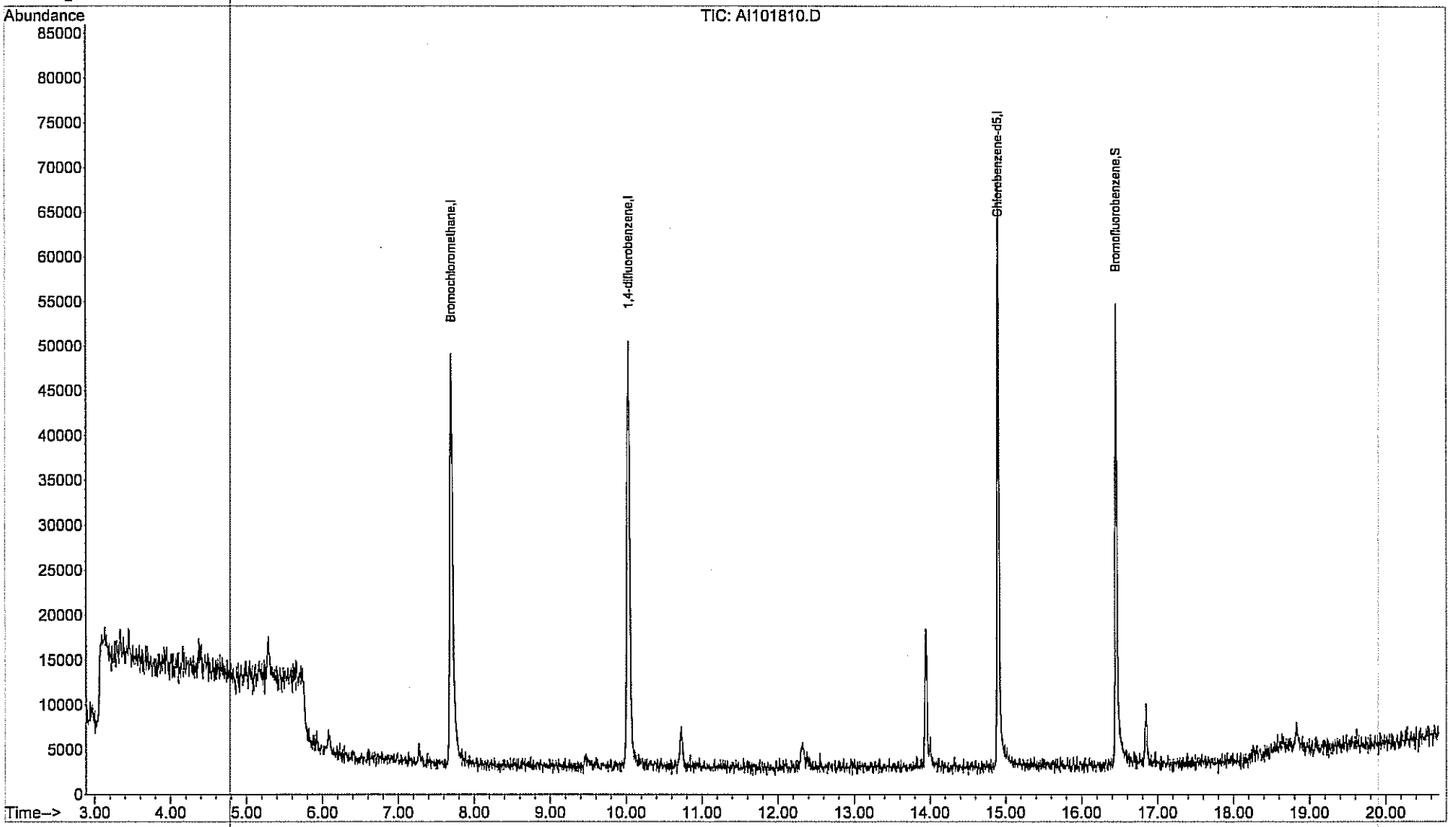
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.70	128	20140	1.00	ppb	0.00
32) 1,4-difluorobenzene	10.04	114	54135	1.00	ppb	0.01
47) Chlorobenzene-d5	14.90	117	44441	1.00	ppb	0.00
System Monitoring Compounds						
60) Bromofluorobenzene	16.45	95	17367	0.77	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 77.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI101810.D AO30_1UG.M Tue Nov 22 09:09:04 2011 MSD1 Page 1

Quantitation Report (Not Reviewed)

Data File : C:\HPCHEM\1\DATA\AI101810.D Vial: 10
Acq On : 18 Oct 2011 7:19 pm Operator: RJP
Sample : WAC101811E Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 22 9:06 2011 Quant Results File: A826_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO30_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Oct 31 10:03:30 2011
Response via : Initial Calibration



Centek laboratories, LLC

Appendix E
Validated Data

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1101031

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	6
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	January 18, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
786VMP0102AA	1/18/11	TRIP BLANK	1/18/11
786VMP0202AA	1/18/11		
786VMP0302AA	1/18/11		
786CA0100AA	1/18/11		
786CA0200AA	1/18/11		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AA, AD – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results

- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Laboratory performance on individual samples is established by means of spiking all samples prior to analysis with surrogate compounds and assessing the percent recoveries. The following table summarizes QC exceedances for samples which exhibited surrogate compound recovery deficiencies. The Sample ID, surrogate compound, percent recoveries, and QC limits are listed. Note that the AFCEE QC limits of 60-140% for Bromofluorobenzene are listed in the table, whereas the laboratory's internal control limits are 70-130%.

Sample ID	Surrogate	%Rec	AFCEE QC Limits (%)	Flag Applied	Rationale
785VMP0202AD (1:5 dilution)	Bromofluorobenzene	69	60-140	None	%Rec less than laboratory lower QC limit but within AFCEE limits

If the surrogate recovery is not within AFCEE limits, corrective action shall be implemented: the sample shall be reextracted and reanalyzed. If the corrective action is ineffective in resolving the exceedance, then all analytes associated with the surrogate in that sample are qualified. As per the QAPP, for samples with recoveries greater than the upper control limit, positive sample results are considered estimated (flagged "J"). For samples with surrogate recoveries greater than 10% but less than the lower control limit, positive results are considered estimated (flagged "J") and non-detect results are considered estimated (flagged "UJ"). For samples with surrogate recoveries less than 10%, the results are rejected for the analytes. However, using professional judgment, no corrective action and/or flagging is required for minimal exceedances (i.e., within 1% of the control limits).

Corrective Action: Sample 785VMP0202AD (1:5 dilution) exhibited a surrogate recovery exceedance of the laboratory's internal control limits of 70-130 for bromofluorobenzene. However, the recoveries were within AFCEE's QC limits of 60-140. No flagging was considered necessary.

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 3/25/11, 2:46				
Hexachloro-1,3-butadiene	***-58.4***	±30	None	%D > upper control limit, all results ND
CCV 3/30/11, 12:13				
Tetrahydrofuran	***49.9***	±30	J	%D < lower control limit
Cyclohexane	***41.0***	±30	None	Compound not reported from associated analyses
2,2,4-Trimethylpentane	***46.8***	±30	None	Compound not reported from associated analyses
Heptane	***46.5***	±30	None	Compound not reported from associated

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
				analyses
Methyl Isobutyl Ketone	***40.3***	±30	None	Compound not reported from associated analyses
Methyl Butyl Ketone	***48.2***	±30	None	Compound not reported from associated analyses
Ethylbenzene	***41.9***	±30	None	Compound not reported from associated analyses
m,p-Xylenes	***33.0***	±30	J	%D < lower control limit
Hexachloro-1,3-butadiene	***-78.0***	±30	None	Compound not reported from associated analyses

Corrective Action: For hexachloro-1,3-butadiene, the standard response was above the acceptance limit, and the associated results may be biased high. All associated results were non-detect, so flagging was not deemed necessary or appropriate. For the remaining compounds in the CCV (3/30/11), the standard response was below the acceptance limit; associated detected results for tetrahydrofuran and/or m,p-xylenes were flagged "J" (only applicable to samples 785VMP0202AD, 785CA0100AB, and 785CA0200AA).

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID BLCS1UG-033011					
(No associated samples)					
LCS: Hexachloro-1,3-butadiene*	***140***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Hexachloro-1,3-butadiene*	***149***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Ethyl acetate*	***49***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Hexane*	***62***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Butyl Ketone*	***43***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Ethyl Ketone*	***30***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Isobutyl Ketone*	***63***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: MTBE*	***51***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Tetrahydrofuran*	***55***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Vinyl acetate*	***51***	70-130	60-140	None	Compound not reported from associated analyses
LCS ID BLCS1UG-032511					

(associated samples 785VMP0202AD, 785VMP0401AA, 785CA0100AB, 785CA0200AA, TRIP BLANK)					
LCSD: 1,4-dioxane*	***46***	70-130	60-140	None	Primary LCS within AFCEE control limits
LCSD: Methyl butyl ketone*	***31***	70-130	60-140	None	Primary LCS within AFCEE control limits
LCSD: Methyl isobutyl ketone*	***47***	70-130	60-140	None	Primary LCS within AFCEE control limits

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: For LCS (033011), the recovery for hexachloro-1,3-butadiene was above the upper control limit. This compound is not included in the AFCEE QAPP Method TO-14A/TO-15 list, so it was not considered necessary for the laboratory to perform additional corrective action. Since the recovery was within marginal exceedance limits, the LCS canister was independent of the continuing calibration canister, and all other QC met criteria for the associated samples, no flagging was considered necessary.

There were several recovery exceedances in the LCSD (032511), but since all recoveries of these compounds in the associated primary LCS sample were within QC limits, no further corrective action was considered necessary.

It should also be noted that several of the associated results were not used since they were associated with dilutions performed for other compounds.

There were some exceedances of the RPD (30%) between the LCS and LCSD samples BLCSD1UG-033011, for the following compounds: 1,1,2-trichloroethane (38.5%), acetone (38.6%), ethyl acetate (39.3%), methyl butyl ketone (47.8%), methyl ethyl ketone (85.7%), MTBE (38.1%), Trichloroethene (30.9%), and vinyl acetate (38.1%); also in LCS and LCSD samples BLCS1UGD-032511, for the following compounds: 1,4-dioxane (42.7%), hexachloro-1,3-butadiene (31.1%), methyl butyl ketone (78.4%), methyl ethyl ketone (34.6%), and methyl isobutyl ketone (42.0%). No corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these exceedances: sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but only two LCS's with exceedances of compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30% (see table below). The AFCEE QAPP requires that the second source calibration verification be within control limits. Since these compounds were within marginal exceedance limits as applicable to LCS samples, using professional judgment, no further corrective action was deemed necessary. As stated in the case narrative, if results continue to be outside established limits, then the system would be recalibrated. For data usability purposes, using professional judgment, the analyte concentrations are considered usable data, albeit estimated, with positive results flagged "J" and non-detects flagged "UJ".

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
ALCS1UG-101210				
Styrene	***54***	±30	None	%D > upper control limit, all results ND
ALCS1UG-101310				
Tetrachloroethene	***-34***	±30	UJ	%D < lower control limit; associated result ND

Corrective Action: Since the %D value was less than 30% for the analyte tetrachloroethene, the associated result (in TRIP BLANK 10/6/10 sample), which was non-detect, was flagged "UJ." No flags were found necessary for styrene, since all associated results were non-detect and the exceedance indicated a high bias.

- Internal Standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. Per the AFCEE QAPP, for Method TO-15 the internal standard area count must not vary by more than -40% to +40% from the associated continuing calibration standard. Also, per the QAPP, for Method TO-15 the retention time of the internal standard must not vary more than ±20 seconds from the associated continuing calibration standard. If these criteria are exceeded, the QAPP requires a mandatory re-analysis of samples analyzed while the system was malfunctioning, and all results for analytes associated with the deficient IS are qualified ("Q"), unless a matrix effect can be verified, in which case an "M" qualifier is applied. In such circumstances, the EPA National Functional Guidelines for Organic Data Review provide the following guidance: If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated ("J"); no action is taken for non-detects if IS area is > 100%, and all non-detects are qualified as estimated ("UJ") if IS area is < 50%. Non-detects are qualified as "R" if there is a severe loss of

sensitivity (< 25% of associated IS area counts). Also, if an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. **Proposed approach**: In this data verification, for data usability purposes, the data qualifiers will be applied following the EPA National Functional Guidance [estimate ("J") for positives if area count is outside of allowed ±40% range, no action for non-detects if IS area > + 40%, estimate ("UJ") for non-detects if IS area < - 40%, reject ("R") for non-detects if IS area is < -75%, and use professional judgment if retention time varies by more than 20 seconds].

The following are the assessment results for the "internal standards performance" criterion (the Sample ID and IS area counts are listed) for samples exhibiting exceedance (***bold italic***) [no retention time exceedances were encountered during this sampling round and NOTE: Samples with no exceedances are not listed below]:

	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
12 Hour Std. (3/30/11)	23589	85556	75269
Upper Limit (+40%)	33025	119778	105377
Lower Limit (-40%)	14153	51334	45161
Severe loss of sensitivity (< -75%)*	5897	21389	18817
SAMPLE ID			
785VMP0401AA (1:80)	20028	***50415***	46707
785CA0100AB (1:16)	21043	55900	***43889***
785CA0100AB (1:40)	19186	***48468***	***44036***
785CA0100AB (1:320)	19840	***46663***	***40250***
785CA0200AA (1:10)	20163	62761	***44689***
785CA0200AA (1:40)	18792	***48797***	46245
LCSD-033011	21293	***49442***	53098

IS1 (BCM) =Bromochloromethane; IS2 (DFB) =1,4-Difluorobenzene; IS3 (CBZ) = Chlorobenzene-d5
Area count: Upper Limit = +40% and Lower Limit = -40% of internal standard

Corrective Action: For exceedances above the upper limit, analytes associated with the exceeding internal standard(s) are qualified as estimated ("J") for positive results; for non-detects, no qualification was necessary. For exceedances below the lower limit, analytes associated with the exceeding internal standard(s) are qualified estimated ("J") for positive results, and estimated ("UJ") for non-detect results. If matrix effects were verified (i.e., analyses at 1x met performance criteria, or interfering peaks were observed), then "M" flags are applicable. In accordance with the case narrative, based on the results of the 1x concentration with criteria being met, the internal standard results for samples 786VMP0401AA (1:80) and 785CA0100AB (1:16 and 1:320 dilutions) do appear to be the result of a matrix effect. "M" flags were applied to the associated results as required:

Sample ID	Analyte	Associated IS outside of AFCEE QAPP criteria	Flag Applied	Rationale

Sample ID	Analyte	Associated IS outside of AFCEE QAPP criteria	Flag Applied	Rationale
786VMP0401AA (1:80)	Trichloroethene	DFB	M	Matrix effect due to interfering peaks
785CA0100AB (1:16)	m,p-Xylenes	CBZ	M	Matrix effect due to interfering peaks
785CA0100AB (1:320)	Trichloroethene	DFB	M	Matrix effect due to interfering peaks

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1101031 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: _12/12/2011_

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.2	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	1.0	0.15	M	ppbV	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	4.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
4-ethyltoluene	0.65	0.15	M	ppbV	1	1/25/2011 7:18:00 PM
Acetone	13	12		ppbV	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Benzene	5.9	1.5		ppbV	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromodichloromethane	0.59	0.15	M	ppbV	1	1/25/2011 7:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Carbon disulfide	4.8	1.5		ppbV	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroform	6.0	6.0		ppbV	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

2/16/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
Freon 11	0.52	0.15	J	ppbV	1	1/25/2011 7:18:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 12	0.76	0.15		ppbV	1	1/25/2011 7:18:00 PM
Heptane	6.0	1.5		ppbV	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Hexane	15	1.5		ppbV	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
m&p-Xylene	3.9	3.0	J	ppbV	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Methylene chloride	1.1	0.15		ppbV	1	1/25/2011 7:18:00 PM
o-Xylene	1.7	1.5		ppbV	10	1/27/2011 4:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	20	1.5		ppbV	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Toluene	9.1	1.5	J	ppbV	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Trichloroethene	900	120		ppbV	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:18:00 PM

lcl 7/26/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	12	8.3		ug/m3	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	7.5	7.5		ug/m3	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	5.2	0.75	M	ug/m3	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	19	7.1		ug/m3	10	1/27/2011 4:56:00 PM
4-ethyltoluene	3.2	0.75	M	ug/m3	1	1/25/2011 7:18:00 PM
Acetone	31	29		ug/m3	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:18:00 PM
Benzene	19	4.9		ug/m3	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:18:00 PM
Bromodichloromethane	4.0	1.0	M	ug/m3	1	1/25/2011 7:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:18:00 PM
Carbon disulfide	15	4.7		ug/m3	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:18:00 PM
Chloroform	30	30		ug/m3	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
Ethylbenzene	6.6	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Freon 11	3.0	0.86	J	ug/m3	1	1/25/2011 7:18:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cwt 7/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.8	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Heptane	25	6.2		ug/m3	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Hexane	52	5.4		ug/m3	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:18:00 PM
m&p-Xylene	17	13	J	ug/m3	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:18:00 PM
Methylene chloride	3.8	0.53		ug/m3	1	1/25/2011 7:18:00 PM
o-Xylene	7.5	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	140	10		ug/m3	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/25/2011 7:18:00 PM
Toluene	35	5.7	J	ug/m3	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Trichloroethene	4900	660		ug/m3	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:18:00 PM

3/26/14

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.7	1.5		ppbV	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	0.91	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	0.34	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	0.37	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.19	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Acetone	20	3.0		ppbV	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzene	1.4	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromodichloromethane	1.1	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon disulfide	1.7	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroform	120	14		ppbV	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	0.35	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.34	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Freon 11	0.47	0.15	J	ppbV	1	1/25/2011 7:50:00 PM
Freon 113	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 12	0.69	0.15		ppbV	1	1/25/2011 7:50:00 PM
Heptane	1.4	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
m&p-Xylene	1.1	0.30	M	ppbV	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	2.2	0.30	M	ppbV	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	1.6	0.30	M	ppbV	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Methylene chloride	0.40	0.15		ppbV	1	1/25/2011 7:50:00 PM
o-Xylene	0.50	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	1.6	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	5.2	1.5		ppbV	10	1/27/2011 6:01:00 PM
Toluene	1.8	0.15	M	ppbV	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Trichloroethene	140	14		ppbV	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:50:00 PM

dat 2/8/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	15	8.3		ug/m3	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	4.5	0.75	M	ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.75	M	ug/m3	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	1.8	0.71	M	ug/m3	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.95	0.75	M	ug/m3	1	1/25/2011 7:50:00 PM
Acetone	49	7.2		ug/m3	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:50:00 PM
Benzene	4.6	0.49	M	ug/m3	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:50:00 PM
Bromodichloromethane	7.4	1.0	M	ug/m3	1	1/25/2011 7:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:50:00 PM
Carbon disulfide	5.3	0.47		ug/m3	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:50:00 PM
Chloroform	620	69		ug/m3	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	1.4	0.60		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
Ethylbenzene	1.5	0.66	M	ug/m3	1	1/25/2011 7:50:00 PM
Freon 11	2.7	0.86	J	ug/m3	1	1/25/2011 7:50:00 PM
Freon 113	3.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

7/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.5	0.75	~~M~~	ug/m3	1	1/25/2011 7:50:00 PM
Heptane	5.8	0.62	M	ug/m3	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:50:00 PM
m&p-Xylene	4.8	1.3	M	ug/m3	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	9.2	1.2	M	ug/m3	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	15	9.0		ug/m3	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	6.7	1.2	M	ug/m3	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:50:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	1/25/2011 7:50:00 PM
o-Xylene	2.2	0.66	M	ug/m3	1	1/25/2011 7:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	11	1.0	M	ug/m3	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	16	4.5		ug/m3	10	1/27/2011 6:01:00 PM
Toluene	6.7	0.57	M	ug/m3	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Trichloroethene	740	76		ug/m3	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:50:00 PM

mbt 4/26/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.8	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	0.33	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	2.7	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	2.0	0.15	M	ppbV	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
4-ethyltoluene	1.6	0.15	M	ppbV	1	1/25/2011 8:22:00 PM
Acetone	21	12		ppbV	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromodichloromethane	0.42	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon disulfide	0.97	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroform	9.4	1.5		ppbV	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLT 7/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Ethylbenzene	2.2	0.15	M J	ppbV	1	1/25/2011 8:22:00 PM
Freon 11	0.56	0.15	J	ppbV	1	1/25/2011 8:22:00 PM
Freon 113	0.44	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Heptane	1.1	0.15	~~DA~~	ppbV	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
m&p-Xylene	3.6	3.0	J	ppbV	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	1.8	0.30	M	ppbV	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	6.3	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
o-Xylene	1.4	1.5	~~J~~	ppbV	10	1/27/2011 7:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Styrene	1.1	0.15	M	ppbV	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	12	6.0		ppbV	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	12	1.5		ppbV	10	1/27/2011 7:03:00 PM
Toluene	4.1	1.5	J	ppbV	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Trichloroethene	400	120		ppbV	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Surr: Bromofluorobenzene	127	70-130		%REC	1	1/25/2011 8:22:00 PM

wst 7/26/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	16	8.3		ug/m3	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	1.4	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	13	7.5		ug/m3	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	9.9	0.75	M	ug/m3	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/25/2011 8:22:00 PM
4-ethyltoluene	8.1	0.75	M	ug/m3	1	1/25/2011 8:22:00 PM
Acetone	50	29		ug/m3	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:22:00 PM
Benzene	4.7	0.49	~~M~~	ug/m3	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:22:00 PM
Bromodichloromethane	2.9	1.0	~~M~~	ug/m3	1	1/25/2011 8:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:22:00 PM
Carbon disulfide	3.1	0.47		ug/m3	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:22:00 PM
Chloroform	47	7.4		ug/m3	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
Ethylbenzene	9.8	0.66	M J	ug/m3	1	1/25/2011 8:22:00 PM
Freon 11	3.2	0.86		ug/m3	1	1/25/2011 8:22:00 PM
Freon 113	3.4	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

2/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Heptane	4.7	0.62	~~DF~~	ug/m3	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:22:00 PM
m&p-Xylene	16	13	J	ug/m3	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	7.6	1.2	M	ug/m3	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	19	9.0		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:22:00 PM
o-Xylene	6.2	6.6	~~DF~~	ug/m3	10	1/27/2011 7:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:22:00 PM
Styrene	4.8	0.65	M	ug/m3	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	85	41		ug/m3	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	36	4.5		ug/m3	10	1/27/2011 7:03:00 PM
Toluene	16	5.7	J	ug/m3	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Trichloroethene	2200	660		ug/m3	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 8:22:00 PM

clk 7/26/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.2	1.5		ppbV	10	1/27/2011 6:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	320	360	J F	ppbV	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Acetone	12	3.0		ppbV	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzene	0.74	0.15	M	ppbV	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroform	58	14		ppbV	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	16	1.5		ppbV	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

clt 7/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.71	0.15	MJ	ppbV	1	1/25/2011 8:54:00 PM
Freon 11	0.49	0.15	J	ppbV	1	1/25/2011 8:54:00 PM
Freon 113	0.26	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 12	0.68	0.15		ppbV	1	1/25/2011 8:54:00 PM
Heptane	120	14		ppbV	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Hexane	180	14		ppbV	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
m&p-Xylene	2.1	0.30	M	ppbV	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	86	14		ppbV	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	170	14		ppbV	90	1/27/2011 8:39:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Trichloroethene	5000	360		ppbV	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/25/2011 8:54:00 PM

ekt 2/28/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	34	8.3		ug/m3	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	1500	1700	JF	ug/m3	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Acetone	30	7.2		ug/m3	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:54:00 PM
Benzene	2.4	0.49	M	ug/m3	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:54:00 PM
Chloroform	290	69		ug/m3	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	64	6.0		ug/m3	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
Ethylbenzene	3.1	0.66	M	ug/m3	1	1/25/2011 8:54:00 PM
Freon 11	2.8	0.86	J	ug/m3	1	1/25/2011 8:54:00 PM
Freon 113	2.0	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

AMT 2/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.4	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Heptane	490	58		ug/m3	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Hexane	640	50		ug/m3	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:54:00 PM
m&p-Xylene	9.2	1.3	M	ug/m3	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	600	97		ug/m3	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	510	42		ug/m3	90	1/27/2011 8:39:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Trichloroethene	27000	2000		ug/m3	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.65	0.39		ug/m3	1	1/25/2011 8:54:00 PM

ckt 2/16/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Acetone	94	54		ppbV	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloromethane	2.0	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 12	0.90	0.15		ppbV	1	1/25/2011 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.13	0.30	JF	ppbV	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	2.8	1.5		ppbV	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Methylene chloride	0.13	0.15	JF	ppbV	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	110	27		ppbV	180	1/28/2011 6:07:00 PM
Toluene	0.28	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Trichloroethene	5.3	0.75		ppbV	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	1/25/2011 9:26:00 PM

Lab 2/8/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	1.1	0.71		ug/m3	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Acetone	230	130		ug/m3	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/25/2011 9:26:00 PM
Chloromethane	4.1	0.31		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/25/2011 9:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

2/24/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	4.5	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	8.2	4.5		ug/m3	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 9:26:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	330	81		ug/m3	180	1/28/2011 6:07:00 PM
Toluene	1.1	0.57		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Trichloroethene	29	4.1		ug/m3	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.39	0.39		ug/m3	1	1/25/2011 9:26:00 PM

Lkt 2/2/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 0.30	0.30	UJ	ppbV	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Acetone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15	UJ	ppbV	1	1/27/2011 4:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30	UJ	ppbV	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30	UJ	ppbV	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/27/2011 4:23:00 PM

cwk 3/26/11

Qualifiers:	**	Reporting Limit	. Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 1.1	1.1	uJ	ug/m3	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Acetone	< 0.72	0.72		ug/m3	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/27/2011 4:23:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/27/2011 4:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/27/2011 4:23:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

2/26/11

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6	UJ	ug/m3	1	1/27/2011 4:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2	UJ	ug/m3	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2	UJ	ug/m3	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/27/2011 4:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/27/2011 4:23:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1103055

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	5
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	March 18 and 22, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
785VMP0202AD	3/18/11		
785VMP0401AA	3/18/11		
785CA0100AA	3/22/11	TRIP BLANK	3/22/11
786CA0200AA	3/22/11		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

AA, AD – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)

- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Laboratory performance on individual samples is established by means of spiking all samples prior to analysis with surrogate compounds and assessing the percent recoveries. The following table summarizes QC exceedances for samples which exhibited surrogate compound recovery deficiencies. The Sample ID, surrogate compound, percent recoveries, and QC limits are listed. Note that the AFCEE QC limits of 60-140% for Bromofluorobenzene are listed in the table, whereas the laboratory's internal control limits are 70-130%.

Sample ID	Surrogate	%Rec	AFCEE QC Limits (%)	Flag Applied	Rationale
785VMP0202AD (1:5 dilution)	Bromofluorobenzene	69	60-140	None	%Rec less than laboratory lower QC limit but within AFCEE limits

If the surrogate recovery is not within AFCEE limits, corrective action shall be implemented: the sample shall be reextracted and reanalyzed. If the corrective action is ineffective in resolving the exceedance, then all analytes associated with the surrogate in that sample are qualified. As per the QAPP, for samples with recoveries greater than the upper control limit, positive sample results are considered estimated (flagged "J"). For samples with surrogate recoveries greater than 10% but less than the lower control limit, positive results are considered estimated (flagged "J") and non-detect results are considered estimated (flagged "UJ"). For samples with surrogate recoveries less than 10%, the results are rejected for the analytes. However, using professional judgment, no corrective action and/or flagging is required for minimal exceedances (i.e., within 1% of the control limits).

Corrective Action: Sample 785VMP0202AD (1:5 dilution) exhibited a surrogate recovery exceedance of the laboratory's internal control limits of 70-130 for bromofluorobenzene. However, the recoveries were within AFCEE's QC limits of 60-140. No flagging was considered necessary.

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 3/25/11, 2:46				
Hexachloro-1,3-butadiene	***-58.4***	±30	None	%D > upper control limit, all results ND
CCV 3/30/11, 12:13				
Tetrahydrofuran	***49.9***	±30	J	%D < lower control limit
Cyclohexane	***41.0***	±30	None	Compound not reported from associated analyses
2,2,4-Trimethylpentane	***46.8***	±30	None	Compound not reported from associated analyses
Heptane	***46.5***	±30	None	Compound not reported from associated

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
				analyses
Methyl Isobutyl Ketone	***40.3***	±30	None	Compound not reported from associated analyses
Methyl Butyl Ketone	***48.2***	±30	None	Compound not reported from associated analyses
Ethylbenzene	***41.9***	±30	None	Compound not reported from associated analyses
m,p-Xylenes	***33.0***	±30	J	%D < lower control limit
Hexachloro-1,3-butadiene	***-78.0***	±30	None	Compound not reported from associated analyses

Corrective Action: For hexachloro-1,3-butadiene, the standard response was above the acceptance limit, and the associated results may be biased high. All associated results were non-detect, so flagging was not deemed necessary or appropriate. For the remaining compounds in the CCV (3/30/11), the standard response was below the acceptance limit; associated detected results for tetrahydrofuran and/or m,p-xylenes were flagged "J" (only applicable to samples 785VMP0202AD, 785CA0100AB, and 785CA0200AA).

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID BLCS1UG-033011					
(No associated samples)					
LCS: Hexachloro-1,3-butadiene*	***140***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Hexachloro-1,3-butadiene*	***149***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Ethyl acetate*	***49***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Hexane*	***62***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Butyl Ketone*	***43***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Ethyl Ketone*	***30***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Methyl Isobutyl Ketone*	***63***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: MTBE*	***51***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Tetrahydrofuran*	***55***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: Vinyl acetate*	***51***	70-130	60-140	None	Compound not reported from associated analyses

LCS ID BLCS1UG-032511					
(associated samples 785VMP0202AD, 785VMP0401AA, 785CA0100AB, 785CA0200AA, TRIP BLANK)					
LCSD: 1,4-dioxane*	***46***	70-130	60-140	None	Primary LCS within AFCEE control limits
LCSD: Methyl butyl ketone*	***31***	70-130	60-140	None	Primary LCS within AFCEE control limits
LCSD: Methyl isobutyl ketone*	***47***	70-130	60-140	None	Primary LCS within AFCEE control limits

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: For LCS (033011), the recovery for hexachloro-1,3-butadiene was above the upper control limit. This compound is not included in the AFCEE QAPP Method TO-14A/TO-15 list, so it was not considered necessary for the laboratory to perform additional corrective action. Since the recovery was within marginal exceedance limits, the LCS canister was independent of the continuing calibration canister, and all other QC met criteria for the associated samples, no flagging was considered necessary.

There were several recovery exceedances in the LCSD (032511), but since all recoveries of these compounds in the associated primary LCS sample were within QC limits, no further corrective action was considered necessary.

It should also be noted that several of the associated results were not used since they were associated with dilutions performed for other compounds.

There were some exceedances of the RPD (30%) between the LCS and LCSD samples BLCSD1UG-033011, for the following compounds: 1,1,2-trichloroethane (38.5%), acetone (38.6%), ethyl acetate (39.3%), methyl butyl ketone (47.8%), methyl ethyl ketone (85.7%), MTBE (38.1%), Trichloroethene (30.9%), and vinyl acetate (38.1%); also in LCS and LCSD samples BLCS1UGD-032511, for the following compounds: 1,4-dioxane (42.7%), hexachloro-1,3-butadiene (31.1%), methyl butyl ketone (78.4%), methyl ethyl ketone (34.6%), and methyl isobutyl ketone (42.0%). No corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these exceedances:

sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but only two LCS's with exceedances of compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30% (see table below). The AFCEE QAPP requires that the second source calibration verification be within control limits. Since these compounds were within marginal exceedance limits as applicable to LCS samples, using professional judgment, no further corrective action was deemed necessary. As stated in the case narrative, if results continue to be outside established limits, then the system would be recalibrated. For data usability purposes, using professional judgment, the analyte concentrations are considered usable data, albeit estimated, with positive results flagged "J" and non-detects flagged "UJ".

Type of Calibration Exceedance Affected Analytes	**%D/ %RSD**	**AFCEE QC Limit**	**Flag Applied**	**Rationale**
ALCS1UG-101210				
Styrene	***54***	±30	None	%D > upper control limit, all results ND
ALCS1UG-101310				
Tetrachloroethene	***-34***	±30	UJ	%D < lower control limit; associated result ND

<u>Corrective Action</u>: Since the %D value was less than 30% for the analyte tetrachloroethene, the associated result (in TRIP BLANK 10/6/10 sample), which was non-detect, was flagged "UJ." No flags were found necessary for styrene, since all associated results were non-detect and the exceedance indicated a high bias.

- Internal Standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. Per the AFCEE QAPP, for Method TO-15 the internal standard area count must not vary by more than -40% to +40% from the associated continuing calibration standard. Also, per the QAPP, for Method TO-15 the retention time of the internal standard must not vary more than ±20 seconds from the associated continuing calibration standard. If these criteria are exceeded, the QAPP requires a mandatory re-analysis of samples analyzed while the system was malfunctioning, and all results for analytes associated with the deficient IS are qualified ("Q"), unless a matrix effect can be verified, in which case an "M" qualifier is applied. In such circumstances, the EPA National Functional Guidelines for Organic Data Review provide the following guidance: If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated ("J"); no action is

taken for non-detects if IS area is > 100%, and all non-detects are qualified as estimated ("UJ") if IS area is < 50%. Non-detects are qualified as "R" if there is a severe loss of sensitivity (< 25% of associated IS area counts). Also, if an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. **Proposed approach**: In this data verification, for data usability purposes, the data qualifiers will be applied following the EPA National Functional Guidance [estimate ("J") for positives if area count is outside of allowed ±40% range, no action for non-detects if IS area > + 40%, estimate ("UJ") for non-detects if IS area < - 40%, reject ("R") for non-detects if IS area is < -75%, and use professional judgment if retention time varies by more than 20 seconds].

The following are the assessment results for the "internal standards performance" criterion (the Sample ID and IS area counts are listed) for samples exhibiting exceedance (***bold italic***) [no retention time exceedances were encountered during this sampling round and NOTE: Samples with no exceedances are not listed below]:

	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
12 Hour Std. (3/30/11)	23589	85556	75269
Upper Limit (+40%)	33025	119778	105377
Lower Limit (-40%)	14153	51334	45161
Severe loss of sensitivity (< -75%)*	5897	21389	18817
SAMPLE ID			
785VMP0401AA (1:80)	20028	***50415***	46707
785CA0100AB (1:16)	21043	55900	***43889***
785CA0100AB (1:40)	19186	***48468***	***44036***
785CA0100AB (1:320)	19840	***46663***	***40250***
785CA0200AA (1:10)	20163	62761	***44689***
785CA0200AA (1:40)	18792	***48797***	46245
LCSD-033011	21293	***49442***	53098

IS1 (BCM) =Bromochloromethane; IS2 (DFB) =1,4-Difluorobenzene; IS3 (CBZ) = Chlorobenzene-d5
Area count: Upper Limit = +40% and Lower Limit = -40% of internal standard

Corrective Action: For exceedances above the upper limit, analytes associated with the exceeding internal standard(s) are qualified as estimated ("J") for positive results; for non-detects, no qualification was necessary. For exceedances below the lower limit, analytes associated with the exceeding internal standard(s) are qualified estimated ("J") for positive results, and estimated ("UJ") for non-detect results. If matrix effects were verified (i.e., analyses at 1x met performance criteria, or interfering peaks were observed), then "M" flags are applicable. In accordance with the case narrative, based on the results of the 1x concentration with criteria being met, the internal standard results for samples 786VMP0401AA (1:80) and 785CA0100AB (1:16 and 1:320 dilutions) do appear to be the result of a matrix effect. "M" flags were applied to the associated results as required:

Sample ID	Analyte	Associated IS outside of AFCEE QAPP criteria	Flag Applied	Rationale
786VMP0401AA (1:80)	Trichloroethene	DFB	M	Matrix effect due to interfering peaks
785CA0100AB (1:16)	m,p-Xylenes	CBZ	M	Matrix effect due to interfering peaks
785CA0100AB (1:320)	Trichloroethene	DFB	M	Matrix effect due to interfering peaks

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1103055 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2247

25-Apr-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 3/15/2011
VIA: FedEx
Due Date: 3/17/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	6

Can / Reg ID	Description
95	1L Mini-Can - 1087
145	Time-Set Reg - 640
155	Time-Set Reg - 650
163	1L Mini-Can - 1133
171	1L Mini-Can - 1142
186	Time-Set Reg - 657
203	1L Mini-Can - 1158
349	1L Mini-Can - 1271
368	1L Mini-Can - 1317
795	Shipping Cooler S
804	Shipping Cooler S

Comments: 3 (L) + trip blank with QGWAC 030911 B-C + 2 (1L)022811

1 of 1

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.13	0.15	FA	ppbV	1	3/26/2011 2:23:00 AM
Acetone	4.2	1.5		ppbV	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzene	0.90	0.15		ppbV	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.26	0.15		ppbV	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloroform	0.31	0.15		ppbV	1	3/26/2011 2:23:00 AM
Chloromethane	0.69	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Cyclohexane	0.36	0.15		ppbV	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:23:00 AM

Cust 4/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.33	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 11	0.18	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Freon 12	0.55	0.15		ppbV	1	3/26/2011 2:23:00 AM
Heptane	0.60	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Hexane	1.9	0.15		ppbV	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
m&p-Xylene	1.1	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Methylene chloride	0.39	0.15		ppbV	1	3/26/2011 2:23:00 AM
o-Xylene	0.30	0.15		ppbV	1	3/26/2011 2:23:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	2.8	0.75	J	ppbV	5	3/30/2011 4:28:00 PM
Toluene	3.8	0.75		ppbV	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Trichloroethene	4.2	0.75		ppbV	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:23:00 AM
Surr: Bromofluorobenzene	81.0	70-130		%REC	1	3/26/2011 2:23:00 AM

CMA 12/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
1,2,4-Trimethylbenzene	1.5	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:23:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:23:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:23:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:23:00 AM
4-ethyltoluene	0.65	0.75	F	ug/m3	1	3/26/2011 2:23:00 AM
Acetone	10	3.6		ug/m3	5	3/30/2011 4:28:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:23:00 AM
Benzene	2.9	0.49		ug/m3	1	3/26/2011 2:23:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:23:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:23:00 AM
Carbon disulfide	0.82	0.47		ug/m3	1	3/26/2011 2:23:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:23:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:23:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:23:00 AM
Chloroform	1.5	0.74		ug/m3	1	3/26/2011 2:23:00 AM
Chloromethane	1.4	0.31		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Cyclohexane	1.3	0.52		ug/m3	1	3/26/2011 2:23:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:23:00 AM
Ethylbenzene	1.5	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Freon 11	1.0	0.86		ug/m3	1	3/26/2011 2:23:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:23:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CVR 12/4/11

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AD
Lab Order:	C1103055	**Tag Number:**	368,186
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.8	0.75		ug/m3	1	3/26/2011 2:23:00 AM
Heptane	2.1	0.62		ug/m3	1	3/26/2011 2:23:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:23:00 AM
Hexane	6.9	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:23:00 AM
m&p-Xylene	4.7	1.3		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	3/26/2011 2:23:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:23:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:23:00 AM
Methylene chloride	1.4	0.53		ug/m3	1	3/26/2011 2:23:00 AM
o-Xylene	1.3	0.66		ug/m3	1	3/26/2011 2:23:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:23:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:23:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:23:00 AM
Tetrahydrofuran	8.2	2.2	J	ug/m3	5	3/30/2011 4:28:00 PM
Toluene	15	2.9		ug/m3	5	3/30/2011 4:28:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:23:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:23:00 AM
Trichloroethene	23	4.1		ug/m3	5	3/30/2011 4:28:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:23:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:23:00 AM

12/4/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.31	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Acetone	6.2	3.0		ppbV	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Benzene	1.5	1.5		ppbV	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromodichloromethane	0.38	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon disulfide	1.5	0.15		ppbV	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Chloroform	18	1.5		ppbV	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	0.58	0.15		ppbV	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Cyclohexane	1.8	0.15		ppbV	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 2:56:00 AM

MRT 12/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.24	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 11	0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 113	0.14	0.15	F	ppbV	1	3/26/2011 2:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Freon 12	0.57	0.15		ppbV	1	3/26/2011 2:56:00 AM
Heptane	0.86	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Hexane	2.3	1.5		ppbV	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
m&p-Xylene	0.61	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	0.77	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Methylene chloride	0.27	0.15		ppbV	1	3/26/2011 2:56:00 AM
o-Xylene	0.19	0.15		ppbV	1	3/26/2011 2:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Toluene	6.8	1.5		ppbV	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Trichloroethene	130	12	M	ppbV	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 2:56:00 AM
Surr: Bromofluorobenzene	86.0	70-130		%REC	1	3/26/2011 2:56:00 AM

cnt 4/25/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	1.7	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 2:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 2:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 2:56:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Acetone	15	7.2		ug/m3	10	3/30/2011 5:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 2:56:00 AM
Benzene	4.9	4.9		ug/m3	10	3/30/2011 5:06:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 2:56:00 AM
Bromodichloromethane	2.6	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 2:56:00 AM
Carbon disulfide	4.8	0.47		ug/m3	1	3/26/2011 2:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 2:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 2:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 2:56:00 AM
Chloroform	91	7.4		ug/m3	10	3/30/2011 5:06:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,2-Dichloroethene	2.3	0.60		ug/m3	1	3/26/2011 2:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Cyclohexane	6.2	0.52		ug/m3	1	3/26/2011 2:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 2:56:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Freon 11	0.86	0.86		ug/m3	1	3/26/2011 2:56:00 AM
Freon 113	1.1	1.2	F A	ug/m3	1	3/26/2011 2:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 2:56:00 AM

Qualifiers:

**	Reporting Limit		Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AA
Lab Order:	C1103055	**Tag Number:**	349,145
Project:	B785 SSVM Sampling	**Collection Date:**	3/18/2011
Lab ID:	C1103055-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.9	0.75		ug/m3	1	3/26/2011 2:56:00 AM
Heptane	3.6	0.62		ug/m3	1	3/26/2011 2:56:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 2:56:00 AM
Hexane	8.2	5.4		ug/m3	10	3/30/2011 5:06:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 2:56:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	3/26/2011 2:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 2:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 2:56:00 AM
Methylene chloride	0.95	0.53		ug/m3	1	3/26/2011 2:56:00 AM
o-Xylene	0.84	0.66		ug/m3	1	3/26/2011 2:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 2:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 2:56:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 2:56:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 2:56:00 AM
Toluene	26	5.7		ug/m3	10	3/30/2011 5:06:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 2:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 2:56:00 AM
Trichloroethene	720	66	M	ug/m3	80	3/30/2011 7:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 2:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 2:56:00 AM

12/4/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	0.81	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.12	0.15	FA	ppbV	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Acetone	78	12		ppbV	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzene	0.35	0.15		ppbV	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.12	0.15	FA	ppbV	1	3/26/2011 3:30:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Chloroform	5.6	2.4		ppbV	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 3:30:00 AM

CWA 1/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	1.4	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 11	0.16	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 113	0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Freon 12	0.48	0.15		ppbV	1	3/26/2011 3:30:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
m&p-Xylene	2.4	4.8		ppbV	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	6.2	4.8		ppbV	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Methylene chloride	0.31	0.15		ppbV	1	3/26/2011 3:30:00 AM
o-Xylene	1.1	0.15		ppbV	1	3/26/2011 3:30:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	1.3	0.15		ppbV	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	200	48	J	ppbV	320	3/30/2011 9:25:00 PM
Toluene	0.45	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Trichloroethene	400	48	M	ppbV	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 3:30:00 AM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	3/26/2011 3:30:00 AM

CMB 12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
1,3,5-Trimethylbenzene	0.60	0.75	F	ug/m3	1	3/26/2011 3:30:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 3:30:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 3:30:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Acetone	190	29		ug/m3	40	3/30/2011 8:54:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 3:30:00 AM
Benzene	1.1	0.49		ug/m3	1	3/26/2011 3:30:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 3:30:00 AM
Bromodichloromethane	0.82	1.0	F	ug/m3	1	3/26/2011 3:30:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 3:30:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 3:30:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 3:30:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 3:30:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 3:30:00 AM
Chloroform	28	12		ug/m3	16	3/30/2011 8:21:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	3/26/2011 3:30:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 3:30:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 3:30:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 3:30:00 AM
Ethylbenzene	6.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Freon 11	0.91	0.86		ug/m3	1	3/26/2011 3:30:00 AM
Freon 113	1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 3:30:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

12/4/11

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AB
Lab Order:	C1103055	**Tag Number:**	163,
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	2.4	0.75		ug/m3	1	3/26/2011 3:30:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 3:30:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 3:30:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Isopropyl alcohol	< 0.37	0.37	FM	ug/m3	1	3/26/2011 3:30:00 AM
m&p-Xylene	11	21	~~FM~~	ug/m3	16	3/30/2011 8:21:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl Ethyl Ketone	19	14		ug/m3	16	3/30/2011 8:21:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 3:30:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 3:30:00 AM
Methylene chloride	1.1	0.53		ug/m3	1	3/26/2011 3:30:00 AM
o-Xylene	5.0	0.66		ug/m3	1	3/26/2011 3:30:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 3:30:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 3:30:00 AM
Tetrachloroethylene	9.0	1.0		ug/m3	1	3/26/2011 3:30:00 AM
Tetrahydrofuran	610	140	J	ug/m3	320	3/30/2011 9:25:00 PM
Toluene	1.7	0.57		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 3:30:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 3:30:00 AM
Trichloroethene	2200	260	M	ug/m3	320	3/30/2011 9:25:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 3:30:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 3:30:00 AM

CWA 12/4/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Acetone	20	3.0		ppbV	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Chloromethane	1.2	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 4:04:00 AM

crt 12/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	0.12	0.15	F✓	ppbV	1	3/26/2011 4:04:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Freon 12	0.75	0.15		ppbV	1	3/26/2011 4:04:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
m&p-Xylene	0.52	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	3.6	3.0		ppbV	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Methylene chloride	0.14	0.15	F✓	ppbV	1	3/26/2011 4:04:00 AM
o-Xylene	0.18	0.15		ppbV	1	3/26/2011 4:04:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	27	6.0	J✓	ppbV	40	3/30/2011 10:29:00 PM
Toluene	0.58	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Trichloroethene	0.20	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 4:04:00 AM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	3/26/2011 4:04:00 AM

cwt 1/4/12

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 4:04:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 4:04:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Acetone	48	7.2		ug/m3	10	3/30/2011 9:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 4:04:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 4:04:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 4:04:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 4:04:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 4:04:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 4:04:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 4:04:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 4:04:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 4:04:00 AM
Chloromethane	2.5	0.31		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 4:04:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 4:04:00 AM
Ethylbenzene	0.53	0.66	F-J	ug/m3	1	3/26/2011 4:04:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 4:04:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 4:04:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/4/11

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0200AA
Lab Order:	C1103055	**Tag Number:**	171
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	3.8	0.75		ug/m3	1	3/26/2011 4:04:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 4:04:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 4:04:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 4:04:00 AM
m&p-Xylene	2.3	1.3		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl Ethyl Ketone	11	9.0		ug/m3	10	3/30/2011 9:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 4:04:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	3/26/2011 4:04:00 AM
Methylene chloride	0.49	0.53	F J	ug/m3	1	3/26/2011 4:04:00 AM
o-Xylene	0.79	0.66		ug/m3	1	3/26/2011 4:04:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 4:04:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 4:04:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 4:04:00 AM
Tetrahydrofuran	82	18	J	ug/m3	40	3/30/2011 10:29:00 PM
Toluene	2.2	0.57		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 4:04:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 4:04:00 AM
Trichloroethene	1.1	0.82		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 4:04:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 4:04:00 AM

12/4/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		3/24/2011
Lab Vacuum Out	-30			"Hg		3/24/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Acetone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromoform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloroform	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

dwt 4/25/11

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Ethylbenzene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 11	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 113	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 114	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Freon 12	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Heptane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Hexane	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Propylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Styrene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Toluene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	3/26/2011 1:49:00 AM
Surr: Bromofluorobenzene	70.0	70-130		%REC	1	3/26/2011 1:49:00 AM

dwt 12/5/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	3/26/2011 1:49:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	3/26/2011 1:49:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Acetone	< 0.72	0.72		ug/m3	1	3/26/2011 1:49:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	3/26/2011 1:49:00 AM
Benzene	< 0.49	0.49		ug/m3	1	3/26/2011 1:49:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	3/26/2011 1:49:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	3/26/2011 1:49:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	3/26/2011 1:49:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	3/26/2011 1:49:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	3/26/2011 1:49:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	3/26/2011 1:49:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	3/26/2011 1:49:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	3/26/2011 1:49:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	3/26/2011 1:49:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	3/26/2011 1:49:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	3/26/2011 1:49:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/4/11

Centek Laboratories, LLC

Date: *25-Apr-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1103055	**Tag Number:**	203
Project:	B785 SSVM Sampling	**Collection Date:**	3/22/2011
Lab ID:	C1103055-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: LL
Freon 12	< 0.75	0.75		ug/m3	1	3/26/2011 1:49:00 AM
Heptane	< 0.62	0.62		ug/m3	1	3/26/2011 1:49:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	3/26/2011 1:49:00 AM
Hexane	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	3/26/2011 1:49:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	3/26/2011 1:49:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	3/26/2011 1:49:00 AM
Methyl tert-butyl ether	< 0.56	0.56		ug/m3	1	3/26/2011 1:49:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	3/26/2011 1:49:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	3/26/2011 1:49:00 AM
Propylene	< 0.26	0.26		ug/m3	1	3/26/2011 1:49:00 AM
Styrene	< 0.65	0.65		ug/m3	1	3/26/2011 1:49:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	3/26/2011 1:49:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	3/26/2011 1:49:00 AM
Toluene	< 0.57	0.57		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	3/26/2011 1:49:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	3/26/2011 1:49:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	3/26/2011 1:49:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	3/26/2011 1:49:00 AM

ccb 12/4/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 774, 776
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1105011

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	10
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	May 4 and 5, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
774VMP0101AA	5/4/11		
774VMP0201AA	5/4/11		
774VMP0301AA	5/4/11		
774IA1AD	5/5/11		
776VMP0101AA	5/4/11		
776VMP0201AA	5/4/11	TRIP BLANK	5/4/11
776VMP0301AA	5/4/11		
776IA1CA	5/4/11		
776OA1DA	5/4/11		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AA, CA, DA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times

- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 5/10/11, 1:14				
MTBE	***-50.8***	±30	None	%D > upper control limit; results ND
1,2,4-Trichlorobenzene	***-78.9***	±30	None	%D > upper control limit; results ND
Naphthalene	***-120.0***	±30	None	%D > upper control limit; results ND
CCV 5/12/11, 12:52				
1,2,4-Trichlorobenzene	***-67.9***	±30	None	%D > upper control limit; results ND
Naphthalene	***-73.8***	±30	None	Compound not included on target analyte list
Hexachloro-1,3-butadiene	***-56.2***	±30	None	%D > upper control limit; results ND

Corrective Action: As stated in the case narrative, the standard response in the CCV for all compounds was above the acceptance limit, and the associated results may be biased high. All associated results were non-detect, so flagging was not deemed necessary or appropriate.

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID ALCS1UG-051011					
(all samples associated)					
LCS: 1,2,4-Trichlorobenzene*	***163***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND
LCSD: 1,2,4-Trichlorobenzene*	***170***				
LCS: Hexachloro-1,3-butadiene*	***136***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: Hexachloro-1,3-butadiene*	***168***				
LCS: MTBE*	***142***	70-130	60-140	None	Compound not reported from associated analyses
LCSD: 1,1,1-Trichloroethane	***139***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: Bromodichloromethane*	***132***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: Carbon tetrachloride	***137***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: Vinyl bromide*	***132***	70-130	60-140	None	%Rec within AFCEE control limits
LCS ID ALCS1UG-051211					

(associated samples 774VMP0101AA 1:90, 774VMP0201AA 1:270, 774VMP0301AA 1:90, 776VMP0201AA 1:90, and 776VMP0301AA 1:270)					
LCS: 1,2,4-Trichlorobenzene*	***145***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND
LCS: Hexachloro-1,3-butadiene*	***152***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: For all compounds listed above, the recoveries were above the upper control limit, indicating a high bias for associated results. Since all associated results were non-detect, no flagging and/or further corrective action is considered necessary.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but no compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30%.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1105011 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	11	1.5		ppbV	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.13	0.15	J	ppbV	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	0.50	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
4-ethyltoluene	0.93	0.15		ppbV	1	5/10/2011 6:00:00 PM
Acetone	22	3.0		ppbV	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzene	0.49	0.15		ppbV	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	0.16	0.040		ppbV	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Chloroform	3.7	1.5		ppbV	10	5/10/2011 11:27:00 PM
Chloromethane	1.7	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.22	0.15		ppbV	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Cyclohexane	1.4	0.15		ppbV	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:00:00 PM

cwk 12/5/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	0.32	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 11	5.5	1.5		ppbV	10	5/10/2011 11:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Freon 12	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	0.57	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
o-Xylene	0.55	0.15		ppbV	1	5/10/2011 6:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.14	0.15	JF	ppbV	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	1.0	0.15		ppbV	1	5/10/2011 6:00:00 PM
Toluene	0.42	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Trichloroethene	110	3.6		ppbV	90	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:00:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	5/10/2011 6:00:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	59	8.3		ug/m3	10	5/10/2011 11:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethane	0.53	0.62	F	ug/m3	1	5/10/2011 6:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
1,3,5-Trimethylbenzene	2.5	0.75		ug/m3	1	5/10/2011 6:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:00:00 PM
4-ethyltoluene	4.6	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Acetone	54	7.2		ug/m3	10	5/10/2011 11:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:00:00 PM
Benzene	1.6	0.49		ug/m3	1	5/10/2011 6:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:00:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 6:00:00 PM
Carbon tetrachloride	1.0	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:00:00 PM
Chloroform	18	7.4		ug/m3	10	5/10/2011 11:27:00 PM
Chloromethane	3.5	0.31		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,2-Dichloroethene	0.89	0.60		ug/m3	1	5/10/2011 6:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	5/10/2011 6:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:00:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Freon 11	31	8.6		ug/m3	10	5/10/2011 11:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:00:00 PM

12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AA
Lab Order:	C1105011	**Tag Number:**	131,372
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Freon 12	2.1	0.75		ug/m3	1	5/10/2011 6:00:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 6:00:00 PM
m&p-Xylene	5.3	1.3		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 6:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:00:00 PM
o-Xylene	2.4	0.66		ug/m3	1	5/10/2011 6:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:00:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:00:00 PM
Tetrachloroethylene	0.97	1.0	.J	ug/m3	1	5/10/2011 6:00:00 PM
Tetrahydrofuran	3.1	0.45		ug/m3	1	5/10/2011 6:00:00 PM
Toluene	1.6	0.57		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:00:00 PM
Trichloroethene	580	20		ug/m3	80	5/13/2011 3:14:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:00:00 PM

CVA 12/6/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	15	1.5		ppbV	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	2.3	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	0.78	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
4-ethyltoluene	1.7	0.15		ppbV	1	5/10/2011 6:35:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzene	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	0.22	0.040		ppbV	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Chloroform	9.1	1.5		ppbV	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.18	0.15		ppbV	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Cyclohexane	1.7	1.5		ppbV	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 6:35:00 PM

12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 11	70	40		ppbV	270	5/13/2011 3:56:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 6:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Freon 12	0.56	0.15		ppbV	1	5/10/2011 6:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	1.8	0.15		ppbV	1	5/10/2011 6:35:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
o-Xylene	0.49	0.15		ppbV	1	5/10/2011 6:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	0.41	0.15		ppbV	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	2.2	0.15		ppbV	1	5/10/2011 6:35:00 PM
Toluene	0.83	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Trichloroethene	540	11		ppbV	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 6:35:00 PM
Surr: Bromofluorobenzene	108	70-130		%REC	1	5/10/2011 6:35:00 PM

CMA 12/6/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	85	8.3		ug/m3	10	5/11/2011 12:03:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
1,2,4-Trimethylbenzene	12	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
1,3,5-Trimethylbenzene	3.9	0.75		ug/m3	1	5/10/2011 6:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 6:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 6:35:00 PM
4-ethyltoluene	8.5	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Acetone	53	7.2		ug/m3	10	5/11/2011 12:03:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 6:35:00 PM
Benzene	6.0	0.49		ug/m3	1	5/10/2011 6:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 6:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 6:35:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 6:35:00 PM
Carbon tetrachloride	1.4	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 6:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 6:35:00 PM
Chloroform	45	7.4		ug/m3	10	5/11/2011 12:03:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,2-Dichloroethene	0.73	0.60		ug/m3	1	5/10/2011 6:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Cyclohexane	5.9	5.2		ug/m3	10	5/11/2011 12:03:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 6:35:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Freon 11	400	230		ug/m3	270	5/13/2011 3:56:00 AM
Freon 113	0.86	1.2	JF	ug/m3	1	5/10/2011 6:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 6:35:00 PM

12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AA
Lab Order:	C1105011	**Tag Number:**	236,395
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Freon 12	2.8	0.75		ug/m3	1	5/10/2011 6:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 6:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 6:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Isopropyl alcohol	4.4	0.37		ug/m3	1	5/10/2011 6:35:00 PM
m&p-Xylene	5.1	1.3		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Ethyl Ketone	4.3	0.90		ug/m3	1	5/10/2011 6:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 6:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 6:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 6:35:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 6:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 6:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 6:35:00 PM
Tetrachloroethylene	2.8	1.0		ug/m3	1	5/10/2011 6:35:00 PM
Tetrahydrofuran	6.7	0.45		ug/m3	1	5/10/2011 6:35:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 6:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 6:35:00 PM
Trichloroethene	2900	60		ug/m3	270	5/13/2011 3:56:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 6:35:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 6:35:00 PM

CLA
12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.1	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	0.45	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
4-ethyltoluene	0.85	0.15		ppbV	1	5/10/2011 7:10:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzene	0.78	0.15		ppbV	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.070	0.040		ppbV	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloroform	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Cyclohexane	1.8	0.15		ppbV	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.35	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 11	110	14		ppbV	90	5/13/2011 5:28:00 AM
Freon 113	0.11	0.15	J	ppbV	1	5/10/2011 7:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
m&p-Xylene	1.0	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
o-Xylene	0.50	0.15		ppbV	1	5/10/2011 7:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Toluene	0.59	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Trichloroethene	56	3.6		ppbV	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:10:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 7:10:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	12	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
1,2,4-Trimethylbenzene	6.3	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:10:00 PM
4-ethyltoluene	4.2	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 12:39:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:10:00 PM
Benzene	2.5	0.49		ug/m3	1	5/10/2011 7:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 7:10:00 PM
Carbon tetrachloride	0.45	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 7:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:10:00 PM
Chloroform	9.1	0.74		ug/m3	1	5/10/2011 7:10:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Cyclohexane	6.2	0.52		ug/m3	1	5/10/2011 7:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:10:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Freon 11	630	80		ug/m3	90	5/13/2011 5:28:00 AM
Freon 113	0.86	1.2	J F	ug/m3	1	5/10/2011 7:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:10:00 PM

CMS 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AA
Lab Order:	C1105011	**Tag Number:**	481,388
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/9/2011
Lab ID:	C1105011-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 7:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 7:10:00 PM
m&p-Xylene	4.5	1.3		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:10:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:10:00 PM
o-Xylene	2.2	0.66		ug/m3	1	5/10/2011 7:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:10:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 7:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:10:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:10:00 PM
Toluene	2.3	0.57		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:10:00 PM
Trichloroethene	300	20		ug/m3	90	5/13/2011 5:28:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:10:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:10:00 PM

CLH 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	0.54	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzene	0.39	0.15		ppbV	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Chloroform	0.11	0.15	J	ppbV	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Cyclohexane	0.36	0.15		ppbV	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 7:46:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.19	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 11	5.7	1.5		ppbV	10	5/11/2011 1:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Heptane	0.41	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Hexane	9.1	1.5		ppbV	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	4.5	1.5		ppbV	10	5/11/2011 1:14:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	5/10/2011 7:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Toluene	1.3	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Trichloroethene	0.81	0.040		ppbV	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 7:46:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	5/10/2011 7:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
1,2,4-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 7:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 7:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 7:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Acetone	52	7.2		ug/m3	10	5/11/2011 1:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 7:46:00 PM
Benzene	1.3	0.49		ug/m3	1	5/10/2011 7:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 7:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 7:46:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	5/10/2011 7:46:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Chlorobenzene	0.70	0.70		ug/m3	1	5/10/2011 7:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 7:46:00 PM
Chloroform	0.55	0.74	JF	ug/m3	1	5/10/2011 7:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Cyclohexane	1.3	0.52		ug/m3	1	5/10/2011 7:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 7:46:00 PM
Ethylbenzene	0.84	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Freon 11	33	8.6		ug/m3	10	5/11/2011 1:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 7:46:00 PM

ucf 12/6/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	774IA1AD
Lab Order:	C1105011	**Tag Number:**	128,306
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 7:46:00 PM
Heptane	1.7	0.62		ug/m3	1	5/10/2011 7:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 7:46:00 PM
Hexane	33	5.4		ug/m3	10	5/11/2011 1:14:00 AM
Isopropyl alcohol	11	3.7		ug/m3	10	5/11/2011 1:14:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 7:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 7:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 7:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 7:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	5/10/2011 7:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 7:46:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 7:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 7:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 7:46:00 PM
Toluene	5.1	0.57		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 7:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 7:46:00 PM
Trichloroethene	4.4	0.22		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 7:46:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 7:46:00 PM

ant 12/6/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.82	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	1.8	1.5		ppbV	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	0.77	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
Acetone	10	3.0		ppbV	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzene	0.32	0.15		ppbV	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon disulfide	0.38	0.15		ppbV	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloroform	2.2	0.15		ppbV	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Cyclohexane	2.0	0.15		ppbV	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Ethylbenzene	0.37	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 11	0.29	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 113	1.1	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Freon 12	1.3	0.15		ppbV	1	5/10/2011 8:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
m&p-Xylene	1.2	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	0.96	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	0.53	0.30		ppbV	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
o-Xylene	0.57	0.15		ppbV	1	5/10/2011 8:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	1.6	0.15		ppbV	1	5/10/2011 8:23:00 PM
Toluene	1.4	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Trichloroethene	3.9	0.40		ppbV	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 8:23:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	4.5	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
1,2,4-Trimethylbenzene	9.0	7.5		ug/m3	10	5/11/2011 1:50:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
1,3,5-Trimethylbenzene	3.8	0.75		ug/m3	1	5/10/2011 8:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 8:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 8:23:00 PM
4-ethyltoluene	7.2	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Acetone	25	7.2		ug/m3	10	5/11/2011 1:50:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 8:23:00 PM
Benzene	1.0	0.49		ug/m3	1	5/10/2011 8:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 8:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 8:23:00 PM
Carbon disulfide	1.2	0.47		ug/m3	1	5/10/2011 8:23:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 8:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 8:23:00 PM
Chloroform	11	0.74		ug/m3	1	5/10/2011 8:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Cyclohexane	6.8	0.52		ug/m3	1	5/10/2011 8:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 8:23:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Freon 11	1.7	0.86		ug/m3	1	5/10/2011 8:23:00 PM
Freon 113	8.6	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cut 12/6/11

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0101AA
Lab Order:	C1105011	**Tag Number:**	129,265
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Freon 12	6.6	0.75		ug/m3	1	5/10/2011 8:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 8:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 8:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 8:23:00 PM
m&p-Xylene	5.4	1.3		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Ethyl Ketone	2.9	0.90		ug/m3	1	5/10/2011 8:23:00 PM
Methyl Isobutyl Ketone	2.2	1.2		ug/m3	1	5/10/2011 8:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 8:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 8:23:00 PM
o-Xylene	2.5	0.66		ug/m3	1	5/10/2011 8:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 8:23:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 8:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 8:23:00 PM
Tetrahydrofuran	4.8	0.45		ug/m3	1	5/10/2011 8:23:00 PM
Toluene	5.6	0.57		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 8:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 8:23:00 PM
Trichloroethene	21	2.2		ug/m3	10	5/11/2011 1:50:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 8:23:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 8:23:00 PM

Cwt 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	1.8	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	0.57	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:00:00 PM
Acetone	7.2	3.0		ppbV	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzene	0.33	0.15		ppbV	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.31	0.15		ppbV	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.12	0.040		ppbV	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloroform	1.7	0.15		ppbV	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Cyclohexane	1.3	0.15		ppbV	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Ethylbenzene	0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 11	0.44	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 113	0.87	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Freon 12	2.2	0.15		ppbV	1	5/10/2011 9:00:00 PM
Heptane	0.16	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
o-Xylene	0.26	0.15		ppbV	1	5/10/2011 9:00:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	0.20	0.15		ppbV	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	0.55	0.15		ppbV	1	5/10/2011 9:00:00 PM
Toluene	0.84	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Trichloroethene	66	3.6		ppbV	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:00:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	5/10/2011 9:00:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	8.7	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
1,2,4-Trimethylbenzene	9.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:00:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
1,3,5-Trimethylbenzene	2.8	0.75		ug/m3	1	5/10/2011 9:00:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:00:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:00:00 PM
4-ethyltoluene	5.1	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Acetone	17	7.2		ug/m3	10	5/11/2011 2:25:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:00:00 PM
Benzene	1.1	0.49		ug/m3	1	5/10/2011 9:00:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:00:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:00:00 PM
Carbon disulfide	0.98	0.47		ug/m3	1	5/10/2011 9:00:00 PM
Carbon tetrachloride	0.77	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:00:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:00:00 PM
Chloroform	8.3	0.74		ug/m3	1	5/10/2011 9:00:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Cyclohexane	4.5	0.52		ug/m3	1	5/10/2011 9:00:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:00:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Freon 11	2.5	0.86		ug/m3	1	5/10/2011 9:00:00 PM
Freon 113	6.8	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:00:00 PM

12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0201AA
Lab Order:	C1105011	**Tag Number:**	222,346
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	11	0.75		ug/m3	1	5/10/2011 9:00:00 PM
Heptane	0.67	0.62		ug/m3	1	5/10/2011 9:00:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:00:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:00:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	5/10/2011 9:00:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:00:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:00:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:00:00 PM
o-Xylene	1.1	0.66		ug/m3	1	5/10/2011 9:00:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:00:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:00:00 PM
Tetrachloroethylene	1.4	1.0		ug/m3	1	5/10/2011 9:00:00 PM
Tetrahydrofuran	1.6	0.45		ug/m3	1	5/10/2011 9:00:00 PM
Toluene	3.2	0.57		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:00:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:00:00 PM
Trichloroethene	360	20		ug/m3	90	5/13/2011 6:51:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:00:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:00:00 PM

CWH 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	2.1	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	0.55	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
4-ethyltoluene	1.0	0.15		ppbV	1	5/10/2011 9:37:00 PM
Acetone	8.3	3.0		ppbV	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzene	0.63	0.15		ppbV	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.060	0.040		ppbV	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Chloroform	3.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Cyclohexane	1.5	0.15		ppbV	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	0.25	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 11	0.81	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 113	0.21	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Freon 12	4.2	1.5		ppbV	10	5/11/2011 3:00:00 AM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
m&p-Xylene	0.86	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	0.93	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
o-Xylene	0.37	0.15		ppbV	1	5/10/2011 9:37:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Styrene	0.18	0.15		ppbV	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.12	0.15	J F	ppbV	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	5/11/2011 3:00:00 AM
Toluene	1.2	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Trichloroethene	150	11		ppbV	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 9:37:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	5/10/2011 9:37:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	18	8.3		ug/m3	10	5/11/2011 3:00:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
1,2,4-Trimethylbenzene	11	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
1,3,5-Trimethylbenzene	2.7	0.75		ug/m3	1	5/10/2011 9:37:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 9:37:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 9:37:00 PM
4-ethyltoluene	5.2	0.75		ug/m3	1	5/10/2011 9:37:00 PM
Acetone	20	7.2		ug/m3	10	5/11/2011 3:00:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 9:37:00 PM
Benzene	2.0	0.49		ug/m3	1	5/10/2011 9:37:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 9:37:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 9:37:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 9:37:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	5/10/2011 9:37:00 PM
Carbon tetrachloride	0.38	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 9:37:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 9:37:00 PM
Chloroform	16	7.4		ug/m3	10	5/11/2011 3:00:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Cyclohexane	5.4	0.52		ug/m3	1	5/10/2011 9:37:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 9:37:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Freon 11	4.6	0.86		ug/m3	1	5/10/2011 9:37:00 PM
Freon 113	1.6	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 9:37:00 PM

cwt 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776VMP0301AA
Lab Order:	C1105011	**Tag Number:**	284,47
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	21	7.5		ug/m3	10	5/11/2011 3:00:00 AM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 9:37:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 9:37:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 9:37:00 PM
m&p-Xylene	3.8	1.3		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	5/10/2011 9:37:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 9:37:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 9:37:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 9:37:00 PM
o-Xylene	1.6	0.66		ug/m3	1	5/10/2011 9:37:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 9:37:00 PM
Styrene	0.78	0.65		ug/m3	1	5/10/2011 9:37:00 PM
Tetrachloroethylene	0.83	1.0	JF	ug/m3	1	5/10/2011 9:37:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	5/11/2011 3:00:00 AM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 9:37:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 9:37:00 PM
Trichloroethene	830	60		ug/m3	270	5/13/2011 7:34:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 9:37:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 9:37:00 PM

CLA 12/6/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Acetone	22	3.0		ppbV	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzene	0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.13	0.15	J	ppbV	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Chloromethane	0.85	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Ethyl acetate	1.6	0.25		ppbV	1	5/10/2011 10:14:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Ethylbenzene	0.16	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 11	0.24	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Freon 12	0.71	0.15		ppbV	1	5/10/2011 10:14:00 PM
Heptane	0.77	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Hexane	0.65	0.15		ppbV	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	5/11/2011 3:34:00 AM
m&p-Xylene	0.27	0.30	JF	ppbV	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
o-Xylene	0.10	0.15	JF	ppbV	1	5/10/2011 10:14:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Styrene	0.25	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Toluene	1.2	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Trichloroethene	0.66	0.040		ppbV	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:14:00 PM
Surr: Bromofluorobenzene	91.0	70-130		%REC	1	5/10/2011 10:14:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:14:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:14:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:14:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:14:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Acetone	54	7.2		ug/m3	10	5/11/2011 3:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:14:00 PM
Benzene	0.49	0.49		ug/m3	1	5/10/2011 10:14:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:14:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:14:00 PM
Carbon disulfide	0.41	0.47	J-	ug/m3	1	5/10/2011 10:14:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:14:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:14:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:14:00 PM
Chloromethane	1.8	0.31		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:14:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:14:00 PM
Ethyl acetate	5.8	0.92		ug/m3	1	5/10/2011 10:14:00 PM
Ethylbenzene	0.71	0.66		ug/m3	1	5/10/2011 10:14:00 PM
Freon 11	1.4	0.86		ug/m3	1	5/10/2011 10:14:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:14:00 PM

cwf 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776IA1CA
Lab Order:	C1105011	**Tag Number:**	221,178
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Freon 12	3.6	0.75		ug/m3	1	5/10/2011 10:14:00 PM
Heptane	3.2	0.62		ug/m3	1	5/10/2011 10:14:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:14:00 PM
Hexane	2.3	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	5/11/2011 3:34:00 AM
m&p-Xylene	1.2	1.3	JF	ug/m3	1	5/10/2011 10:14:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Ethyl Ketone	3.3	0.90		ug/m3	1	5/10/2011 10:14:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:14:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:14:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:14:00 PM
o-Xylene	0.44	0.66	JF	ug/m3	1	5/10/2011 10:14:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:14:00 PM
Styrene	1.1	0.65		ug/m3	1	5/10/2011 10:14:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:14:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:14:00 PM
Toluene	4.4	0.57		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:14:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:14:00 PM
Trichloroethene	3.6	0.22		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:14:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:14:00 PM

CMK 12/6/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Acetone	7.6	3.0		ppbV	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.080	0.040		ppbV	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 10:50:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 11	0.23	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Heptane	0.29	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Hexane	0.25	0.15		ppbV	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Toluene	0.26	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Trichloroethene	0.18	0.040		ppbV	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 10:50:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Acetone	18	7.2		ug/m3	10	5/11/2011 4:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 10:50:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 10:50:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	5/10/2011 10:50:00 PM
Carbon tetrachloride	0.51	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 10:50:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 10:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Freon 11	1.3	0.86		ug/m3	1	5/10/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 10:50:00 PM

CMA 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	776OA1DA
Lab Order:	C1105011	**Tag Number:**	476,437
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				**Analyst: RJP**
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 10:50:00 PM
Heptane	1.2	0.62		ug/m3	1	5/10/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 10:50:00 PM
Hexane	0.90	0.64		ug/m3	1	5/10/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 10:50:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 10:50:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 10:50:00 PM
Toluene	1.0	0.57		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 10:50:00 PM
Trichloroethene	0.98	0.22		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 10:50:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 10:50:00 PM

Lvt (2/6/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		5/9/2011
Lab Vacuum Out	-30			"Hg		5/9/2011
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Acetone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	5/10/2011 4:52:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 11	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 113	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Freon 12	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Styrene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Toluene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.040	0.040		ppbV	1	5/10/2011 4:52:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	5/10/2011 4:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	5/10/2011 4:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	5/10/2011 4:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Acetone	< 0.72	0.72		ug/m3	1	5/10/2011 4:52:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	5/10/2011 4:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	5/10/2011 4:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	5/10/2011 4:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	5/10/2011 4:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	5/10/2011 4:52:00 PM
Carbon tetrachloride	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	5/10/2011 4:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	5/10/2011 4:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	5/10/2011 4:52:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	5/10/2011 4:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	5/10/2011 4:52:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	5/10/2011 4:52:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	5/10/2011 4:52:00 PM

CWA 12/6/11

Qualifiers:

- ****** Reporting Limit
- **B** Analyte detected in the associated Method Blank
- **H** Holding times for preparation or analysis exceeded
- **JN** Non-routine analyte. Quantitation estimated.
- **S** Spike Recovery outside accepted recovery limits
- **.** Results reported are not blank corrected
- **E** Value above quantitation range
- **J** Analyte detected at or below quantitation limits
- **ND** Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *04-Jun-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1105011	**Tag Number:**	370
Project:	Griffis AFB B774/B776 SSVM	**Collection Date:**	5/4/2011
Lab ID:	C1105011-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 W/ 0.25UG/M3 CT-TCE-VC		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	5/10/2011 4:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	5/10/2011 4:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	5/10/2011 4:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	5/10/2011 4:52:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	5/10/2011 4:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	5/10/2011 4:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	5/10/2011 4:52:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	5/10/2011 4:52:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	5/10/2011 4:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	5/10/2011 4:52:00 PM
Styrene	< 0.65	0.65		ug/m3	1	5/10/2011 4:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	5/10/2011 4:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	5/10/2011 4:52:00 PM
Toluene	< 0.57	0.57		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	5/10/2011 4:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	5/10/2011 4:52:00 PM
Trichloroethene	< 0.22	0.22		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	5/10/2011 4:52:00 PM
Vinyl chloride	< 0.10	0.10		ug/m3	1	5/10/2011 4:52:00 PM

AA 12/6/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1106007

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	3
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	May 19, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
785786CA0100AA	5/19/11		
785786CA0200AA	5/19/11	TRIP BLANK	5/19/11

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)

- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Internal Standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. Per the AFCEE QAPP, for Method TO-15 the internal standard area count must not vary by more than -40% to +40% from the associated continuing calibration standard. Also, per the QAPP, for Method TO-15 the retention time of the internal standard must not vary more than ±20 seconds from the associated continuing calibration standard. If these criteria are exceeded, the QAPP requires a mandatory re-analysis of samples analyzed while the system was malfunctioning, and all results for analytes associated with the deficient IS are qualified ("Q"), unless a matrix effect can be verified, in which case an "M" qualifier is applied. In such circumstances, the EPA National Functional Guidelines for Organic Data Review provide the following guidance: If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated ("J"); no action is taken for non-detects if IS area is > 100%, and all non-detects are qualified as estimated ("UJ") if IS area is < 50%. Non-detects are qualified as "R" if there is a severe loss of sensitivity (< 25% of associated IS area counts). Also, if an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. **Proposed approach**: In this data verification, for data usability purposes, the data qualifiers will be applied following the EPA National Functional Guidance [estimate ("J") for positives if area count is outside of allowed ±40% range, no action for non-detects if IS area > + 40%, estimate ("UJ") for non-detects if IS area < - 40%, reject ("R") for non-detects if IS area is < -75%, and use professional judgment if retention time varies by more than 20 seconds].

  The following are the assessment results for the "internal standards performance" criterion (the Sample ID and IS area counts are listed) for samples exhibiting exceedance (***bold italic***) [no retention time exceedances were encountered during this sampling round and NOTE: Samples with no exceedances are not listed below]:

	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
12 Hour Std. (6/9/11)	36570	100404	97689
Upper Limit (+40%)	51198	140566	136765
Lower Limit (-40%)	21942	60242	58613
Severe loss of sensitivity (< -75%)*	9143	25101	24422
SAMPLE ID			
785VMP0401AA (1:80)	36141	119692	***138487***

IS1 (BCM) =Bromochloromethane; IS2 (DFB) =1,4-Difluorobenzene; IS3 (CBZ) = Chlorobenzene-d5
Area count: Upper Limit = +40% and Lower Limit = -40% of internal standard

  <u>Corrective Action</u>: For exceedances above the upper limit, analytes associated with the exceeding internal standard(s) are qualified as estimated ("J") for positive results; for non-detects, no qualification was necessary. For exceedances below the lower limit, analytes associated with the exceeding internal standard(s) are qualified estimated ("J") for positive results, and estimated ("UJ") for non-detect results. If matrix effects were verified (i.e.,

analyses at 1x met performance criteria, or interfering peaks were observed), then "M" flags are applicable. In accordance with the case narrative, based on the results of the the sample's dilution analysis with criteria being met, the internal standard results for sample 785786CA0100AA (1:1) do appear to be the result of a matrix effect. "M" flags were applied to the associated results as required:

Sample ID	Analyte	Associated IS outside of AFCEE QAPP criteria	Flag Applied	Rationale
785786CA0100AA	1,2,4-Trimethylbenzene	CBZ	M	Matrix effect due to interfering peaks
	1,3,5-Trimethylbenzene	CBZ	M	Matrix effect due to interfering peaks
	Ethylbenzene	CBZ	M	Matrix effect due to interfering peaks
	M,p-Xylenes	CBZ	M	Matrix effect due to interfering peaks
	o-Xylene	CBZ	M	Matrix effect due to interfering peaks
	Toluene	CBZ	M	Matrix effect due to interfering peaks

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1106007 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.87	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.15	M	ppbV	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	1.3	0.15	M	ppbV	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	63	6.0		ppbV	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Acetone	76	12		ppbV	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzene	0.60	0.15		ppbV	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Chloroform	12	1.5		ppbV	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	4.2	1.5		ppbV	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Cyclohexane	51	6.0		ppbV	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.3	0.15	M	ppbV	1	6/9/2011 6:43:00 PM
Freon 11	0.25	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 113	0.10	0.15	J	ppbV	1	6/9/2011 6:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Freon 12	0.50	0.15		ppbV	1	6/9/2011 6:43:00 PM
Heptane	32	6.0		ppbV	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Hexane	42	6.0		ppbV	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
m&p-Xylene	3.7	0.30	M	ppbV	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	6.8	3.0		ppbV	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Methylene chloride	0.39	0.15		ppbV	1	6/9/2011 6:43:00 PM
o-Xylene	1.5	0.15	M	ppbV	1	6/9/2011 6:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	36	6.0		ppbV	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	170	120		ppbV	810	6/13/2011 1:51:00 PM
Toluene	1.4	0.15	M	ppbV	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Trichloroethene	630	120		ppbV	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:43:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
1,2,4-Trimethylbenzene	6.9	0.75	M	ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
1,3,5-Trimethylbenzene	6.3	0.75	M	ug/m3	1	6/9/2011 6:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM
2,2,4-trimethylpentane	300	28		ug/m3	40	6/9/2011 11:17:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Acetone	180	29		ug/m3	40	6/9/2011 11:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:43:00 PM
Benzene	1.9	0.49		ug/m3	1	6/9/2011 6:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:43:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	6/9/2011 6:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:43:00 PM
Chloroform	59	7.4		ug/m3	10	6/9/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:43:00 PM
cis-1,2-Dichloroethene	17	6.0		ug/m3	10	6/9/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Cyclohexane	180	21		ug/m3	40	6/9/2011 11:17:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:43:00 PM
Ethylbenzene	5.9	0.66	M	ug/m3	1	6/9/2011 6:43:00 PM
Freon 11	1.4	0.86		ug/m3	1	6/9/2011 6:43:00 PM
Freon 113	0.78	1.2	JF	ug/m3	1	6/9/2011 6:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:43:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

CWT 12/7/11

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0100AA
Lab Order:	C1106007	**Tag Number:**	95
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	6/9/2011 6:43:00 PM
Heptane	130	25		ug/m3	40	6/9/2011 11:17:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:43:00 PM
Hexane	150	21		ug/m3	40	6/9/2011 11:17:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:43:00 PM
m&p-Xylene	16	1.3	M	ug/m3	1	6/9/2011 6:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl Ethyl Ketone	20	9.0		ug/m3	10	6/9/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:43:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	6/9/2011 6:43:00 PM
o-Xylene	6.5	0.66	M	ug/m3	1	6/9/2011 6:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:43:00 PM
Tetrachloroethylene	250	41		ug/m3	40	6/9/2011 11:17:00 PM
Tetrahydrofuran	510	360		ug/m3	810	6/13/2011 1:51:00 PM
Toluene	5.6	0.57	M	ug/m3	1	6/9/2011 6:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:43:00 PM
Trichloroethene	3500	660		ug/m3	810	6/13/2011 1:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:43:00 PM

Cmt
12/7/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.11	0.15	JF	ppbV	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Acetone	2.2	0.30		ppbV	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.10	0.15	JF	ppbV	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloroform	0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.24	0.15		ppbV	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 7:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Freon 12	0.27	0.15		ppbV	1	6/9/2011 7:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.12	0.30	dF	ppbV	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.29	0.30	dF	ppbV	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	6.3	1.5		ppbV	10	6/9/2011 10:40:00 PM
Toluene	0.12	0.15	dF	ppbV	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Trichloroethene	0.23	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 7:26:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	6/9/2011 7:26:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
1,2,4-Trimethylbenzene	0.55	0.75	JF	ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 7:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 7:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Acetone	5.3	0.72		ug/m3	1	6/9/2011 7:26:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 7:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 7:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 7:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 7:26:00 PM
Carbon disulfide	0.32	0.47	JF	ug/m3	1	6/9/2011 7:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 7:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 7:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 7:26:00 PM
Chloroform	0.74	0.74		ug/m3	1	6/9/2011 7:26:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 7:26:00 PM
cis-1,2-Dichloroethene	0.97	0.60		ug/m3	1	6/9/2011 7:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 7:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 7:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 7:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 7:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 7:26:00 PM

CMA 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA0200AA5/19/11
Lab Order:	C1106007	**Tag Number:**	85
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	1.4	0.75		ug/m3	1	6/9/2011 7:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 7:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 7:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 7:26:00 PM
m&p-Xylene	0.53	1.3	JF	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl Ethyl Ketone	0.87	0.90	JF	ug/m3	1	6/9/2011 7:26:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 7:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 7:26:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 7:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 7:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 7:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 7:26:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 7:26:00 PM
Tetrahydrofuran	19	4.5		ug/m3	10	6/9/2011 10:40:00 PM
Toluene	0.46	0.57	JF	ug/m3	1	6/9/2011 7:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 7:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 7:26:00 PM
Trichloroethene	1.3	0.82		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 7:26:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 7:26:00 PM

CMA
7/7/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/6/2011
Lab Vacuum Out	-30			"Hg		6/6/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 6:01:00 PM
Surr: Bromofluorobenzene	93.0	70-130		%REC	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 6:01:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 6:01:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 6:01:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 6:01:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 6:01:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 6:01:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	6/9/2011 6:01:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 6:01:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 6:01:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 6:01:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 6:01:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 6:01:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 6:01:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 6:01:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 6:01:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/7/11

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106007	**Tag Number:**	94
Project:	B774/B776 SSVM	**Collection Date:**	5/19/2011
Lab ID:	C1106007-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 6:01:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 6:01:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 6:01:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 6:01:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 6:01:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 6:01:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 6:01:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 6:01:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 6:01:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 6:01:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 6:01:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 6:01:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 6:01:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 6:01:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 6:01:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 6:01:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 6:01:00 PM

cmt 12/7/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1106012

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	3
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	June 6, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
774776CA01AA	6/6/11		
774776CA02AA	6/6/11	TRIP BLANK	6/6/11

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.

AA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)

- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. There were some exceedances of the RPD (30%) between the LCS and LCSD samples ALCS1UGD-060911, for the following compounds: 1,2,4-trimethylbenzene (42.4%), 1,2-dichlorobenzene (30.5%), 1,3,5-trimethylbenzene (38.8%), 1,3-butadiene (37.9%), 4-ethyltoluene (38.8%), benzyl chloride (38.5%), isopropyl alcohol (31.4%), and methyl ethyl ketone (36.4%). Since all recoveries were within AFCEE control limits, no corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these exceedances: sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- The following blank sample analyses indicated blank contaminants present at concentrations equal to or greater than half the reporting limit (RL). The Blank ID, detected contaminant, and concentration are listed.

Blank ID	Analyte	Concentration ($\mu g/m^3$)	Reporting Limit ($\mu g/m^3$)	Samples Affected
TRIP BLANK	Carbon disulfide	0.32 F	0.47	774776CA01AA , 774776CA02AA

The purpose of laboratory, equipment or trip blank analysis is to determine the existence and magnitude of contamination resulting from lab or field activities. If contamination is found in blanks the associated sample results for these analytes may be considered suspect. As per the QAPP, based on the blank contaminants present above half the RL, results for the specific analytes in the associated environmental samples are qualified with a "B" flag. However, in accordance with the EPA National Functional Guidelines and consistent with AFCEE QAPP Version 4.0, the "B" flag is **not** applied for sample results that are greater than five times (5x) the blank concentration. Thus the "B" flag is only applied to those samples for which the sample result is positive and less than five times (5x) the blank concentration.

Corrective Action: "B" flags were applied to the carbon disulfide results for the field samples as shown in the table above.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1106012 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	1.9	1.5		ppbV	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	0.95	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
4-ethyltoluene	1.4	0.15		ppbV	1	6/9/2011 9:24:00 PM
Acetone	21	3.0		ppbV	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Benzene	0.14	0.15	J	ppbV	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.23	0.15		ppbV	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Chloroform	3.0	1.5		ppbV	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	0.44	0.15		ppbV	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 9:24:00 PM

alt 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.14	0.15	F-✓	ppbV	1	6/9/2011 9:24:00 PM
Freon 11	8.8	1.5		ppbV	10	6/13/2011 12:30:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Freon 12	0.74	0.15		ppbV	1	6/9/2011 9:24:00 PM
Heptane	0.20	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
m&p-Xylene	0.29	0.30	F-✓	ppbV	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	4.8	3.0		ppbV	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Methylene chloride	0.63	0.15		ppbV	1	6/9/2011 9:24:00 PM
o-Xylene	0.19	0.15		ppbV	1	6/9/2011 9:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	0.50	0.15		ppbV	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	41	6.0		ppbV	40	6/10/2011 2:23:00 AM
Toluene	0.48	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Trichloroethene	94	6.0		ppbV	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 9:24:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	6/9/2011 9:24:00 PM

CWS
12/7/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	6.6	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
1,2,4-Trimethylbenzene	9.5	7.5		ug/m3	10	6/13/2011 12:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 9:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
1,3,5-Trimethylbenzene	4.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 9:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 9:24:00 PM
4-ethyltoluene	6.9	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Acetone	50	7.2		ug/m3	10	6/13/2011 12:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 9:24:00 PM
Benzene	0.45	0.49	JF	ug/m3	1	6/9/2011 9:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 9:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 9:24:00 PM
Carbon disulfide	0.73	0.47	B	ug/m3	1	6/9/2011 9:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 9:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 9:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 9:24:00 PM
Chloroform	15	7.4		ug/m3	10	6/13/2011 12:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,2-Dichloroethene	1.8	0.60		ug/m3	1	6/9/2011 9:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 9:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 9:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 9:24:00 PM
Ethylbenzene	0.62	0.66	JF	ug/m3	1	6/9/2011 9:24:00 PM
Freon 11	50	8.6		ug/m3	10	6/13/2011 12:30:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 9:24:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AA
Lab Order:	C1106012	**Tag Number:**	350,
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Freon 12	3.7	0.75		ug/m3	1	6/9/2011 9:24:00 PM
Heptane	0.83	0.62		ug/m3	1	6/9/2011 9:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 9:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 9:24:00 PM
m&p-Xylene	1.3	1.3	SF	ug/m3	1	6/9/2011 9:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl Ethyl Ketone	14	9.0		ug/m3	10	6/13/2011 12:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 9:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 9:24:00 PM
Methylene chloride	2.2	0.53		ug/m3	1	6/9/2011 9:24:00 PM
o-Xylene	0.84	0.66		ug/m3	1	6/9/2011 9:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 9:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 9:24:00 PM
Tetrachloroethylene	3.4	1.0		ug/m3	1	6/9/2011 9:24:00 PM
Tetrahydrofuran	120	18		ug/m3	40	6/10/2011 2:23:00 AM
Toluene	1.8	0.57		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 9:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 9:24:00 PM
Trichloroethene	510	33		ug/m3	40	6/10/2011 2:23:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 9:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 9:24:00 PM

12/8/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	6.2	1.5		ppbV	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	1.9	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.14	0.15	F-S	ppbV	1	6/9/2011 8:46:00 PM
4-ethyltoluene	2.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Acetone	64	27		ppbV	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloroform	0.39	0.15		ppbV	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	1.2	0.15		ppbV	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:46:00 PM

CLH 12/7/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.72	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 11	0.32	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Heptane	1.1	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
m&p-Xylene	0.93	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	1.2	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	8.6	3.0		ppbV	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Methylene chloride	7.0	1.5		ppbV	10	6/10/2011 12:31:00 AM
o-Xylene	0.58	0.15		ppbV	1	6/9/2011 8:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	0.22	0.15		ppbV	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Toluene	3.8	1.5		ppbV	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Trichloroethene	8.6	1.5		ppbV	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:46:00 PM
Surr: Bromofluorobenzene	129	70-130		%REC	1	6/9/2011 8:46:00 PM

alt
12/7/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
1,2,4-Trimethylbenzene	31	7.5		ug/m3	10	6/10/2011 12:31:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
1,3,5-Trimethylbenzene	9.4	0.75		ug/m3	1	6/9/2011 8:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM
2,2,4-trimethylpentane	0.66	0.71	J	ug/m3	1	6/9/2011 8:46:00 PM
4-ethyltoluene	11	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Acetone	150	65		ug/m3	90	6/13/2011 1:05:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:46:00 PM
Benzene	0.71	0.49		ug/m3	1	6/9/2011 8:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:46:00 PM
Carbon disulfide	0.82	0.47	B	ug/m3	1	6/9/2011 8:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:46:00 PM
Chloroform	1.9	0.74		ug/m3	1	6/9/2011 8:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,2-Dichloroethene	4.8	0.60		ug/m3	1	6/9/2011 8:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:46:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Freon 11	1.8	0.86		ug/m3	1	6/9/2011 8:46:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:46:00 PM

CMK 12/7/11

Qualifiers:

- ****** Reporting Limit
- **B** Analyte detected in the associated Method Blank
- **H** Holding times for preparation or analysis exceeded
- **JN** Non-routine analyte. Quantitation estimated.
- **S** Spike Recovery outside accepted recovery limits
- **.** Results reported are not blank corrected
- **E** Value above quantitation range
- **J** Analyte detected at or below quantitation limits
- **ND** Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AA
Lab Order:	C1106012	**Tag Number:**	357
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:46:00 PM
Heptane	4.4	0.62		ug/m3	1	6/9/2011 8:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:46:00 PM
m&p-Xylene	4.1	1.3		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Butyl Ketone	5.0	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl Ethyl Ketone	26	9.0		ug/m3	10	6/10/2011 12:31:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:46:00 PM
Methylene chloride	25	5.3		ug/m3	10	6/10/2011 12:31:00 AM
o-Xylene	2.6	0.66		ug/m3	1	6/9/2011 8:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:46:00 PM
Tetrachloroethylene	1.5	1.0		ug/m3	1	6/9/2011 8:46:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:46:00 PM
Toluene	15	5.7		ug/m3	10	6/10/2011 12:31:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:46:00 PM
Trichloroethene	47	8.2		ug/m3	10	6/10/2011 12:31:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:46:00 PM

wt 12/7/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-30			"Hg		6/7/2011
Lab Vacuum Out	-30			"Hg		6/7/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Acetone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.10	0.15	F	ppbV	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	6/9/2011 8:07:00 PM

12/7/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 11	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Freon 12	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Toluene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	6/9/2011 8:07:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	6/9/2011 8:07:00 PM

WA
12/7/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	6/9/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	6/9/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Acetone	< 0.72	0.72		ug/m3	1	6/9/2011 8:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	6/9/2011 8:07:00 PM
Benzene	< 0.49	0.49		ug/m3	1	6/9/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	6/9/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	6/9/2011 8:07:00 PM
Carbon disulfide	0.32	0.47	F	ug/m3	1	6/9/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	6/9/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	6/9/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	6/9/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	6/9/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	6/9/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	6/9/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	6/9/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	6/9/2011 8:07:00 PM

12/1/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *06-Jul-11*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1106012	**Tag Number:**	552
Project:	B774/B776 SSVM	**Collection Date:**	6/6/2011
Lab ID:	C1106012-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	6/9/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	6/9/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	6/9/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	6/9/2011 8:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	6/9/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	6/9/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	6/9/2011 8:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	6/9/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	6/9/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	6/9/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	6/9/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	6/9/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	6/9/2011 8:07:00 PM
Toluene	< 0.57	0.57		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	6/9/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	6/9/2011 8:07:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	6/9/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	6/9/2011 8:07:00 PM

GA
12/7/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1108077

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	17
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	August 23-25, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
774VMP0101AB	8/24/11		
774VMP0201AB	8/24/11	TRIP BLANK	8/25/11
774VMP0301AB	8/24/11		
785VMP0202AE	8/24/11		
785VMP0401AB	8/24/11		
785VMP0501AB	8/25/11		
786VMP0102AB	8/24/11		
786VMP0202AB	8/24/11		
786VMP0302AB	8/24/11		
785IA05	8/24/11		
785OA01	8/24/11		
786IA04	8/24/11		
774776CA01AB	8/23/11		
774776CA02AB	8/23/11		
785786CA01AB	8/23/11		
785786CA02AB	8/23/11		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AB, AE, IA, OA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)

- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID ALCS1UG-090711					
(all samples associated)					
LCS: 1,4-dioxane*	***65***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: 1,4-dioxane*	***51***				
LCSD: 1,2,4-Trichlorobenzene*	***65***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: Hexachloro-1,3-butadiene*	***53***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: Methyl Butyl Ketone*	***54***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: In the LCS sample listed above, all compounds yielded recoveries within AFCEE control limits, so no flagging and/or further corrective action is considered necessary. There were several recovery exceedances in the LCSD (090711), but since all recoveries of these compounds in the associated primary LCS sample were within QC limits, no further corrective action was considered necessary.

There were some exceedances of the RPD (30%) between the LCS and LCSD samples, for the following compound: hexachloro-1,3-butadiene (40.6%). No corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these

exceedances: sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but no compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30%.

- The following blank sample analyses indicated blank contaminants present at concentrations equal to or greater than half the reporting limit (RL). The Blank ID, detected contaminant, and concentration are listed.

Blank ID	Analyte	Concentration ($\mu g/m^3$)	Reporting Limit ($\mu g/m^3$)	Samples Affected
TRIP BLANK	Acetone	4.9	0.72	774VMP0301AB, 785VMP0202AE, 785VMP0401AB, 785VMP0501AA, 786VMP0102AB, 786VMP0302AB, 774776CA02AB, 785786CA01AB, 785786CA02AB

The purpose of laboratory, equipment or trip blank analysis is to determine the existence and magnitude of contamination resulting from lab or field activities. If contamination is found in blanks the associated sample results for these analytes may be considered suspect. As per the QAPP, based on the blank contaminants present above half the RL, results for the specific analytes in the associated environmental samples are qualified with a "B" flag. However, in accordance with the EPA National Functional Guidelines and consistent with AFCEE QAPP Version 4.0, the "B" flag is **not** applied for sample results that are greater than five times (5x) the blank concentration. Thus the "B" flag is only applied to those samples for which the sample result is positive and less than five times (5x) the blank concentration.

Corrective Action: "B" flags were applied to the acetone results for the field samples as shown in the table above.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1108077 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.5	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	0.41	0.15		ppbV	1	9/7/2011 2:30:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 2:30:00 PM
Acetone	13	3.0		ppbV	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.21	0.15		ppbV	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.11	0.15	F-d	ppbV	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.11	0.15	F-d	ppbV	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.19	0.15		ppbV	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Cyclohexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 2:30:00 PM

cwt 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.64	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 11	3.4	1.5		ppbV	10	9/7/2011 11:56:00 PM
Freon 113	0.10	0.15	F✓	ppbV	1	9/7/2011 2:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 2:30:00 PM
Heptane	0.89	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Hexane	2.2	0.15		ppbV	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
m&p-Xylene	2.0	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	1.6	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Methylene chloride	0.28	0.15		ppbV	1	9/7/2011 2:30:00 PM
o-Xylene	0.54	0.15		ppbV	1	9/7/2011 2:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Toluene	4.5	1.5		ppbV	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Trichloroethene	75	14		ppbV	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 2:30:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	9/7/2011 2:30:00 PM

CLK 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	8.3	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
1,2,4-Trimethylbenzene	3.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 2:30:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 2:30:00 PM
1,3,5-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 2:30:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 2:30:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM
2,2,4-trimethylpentane	1.9	0.71		ug/m3	1	9/7/2011 2:30:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Acetone	31	7.2		ug/m3	10	9/7/2011 11:56:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 2:30:00 PM
Benzene	4.3	0.49		ug/m3	1	9/7/2011 2:30:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 2:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 2:30:00 PM
Carbon disulfide	0.66	0.47		ug/m3	1	9/7/2011 2:30:00 PM
Carbon tetrachloride	0.70	0.96	FJ	ug/m3	1	9/7/2011 2:30:00 PM
Chlorobenzene	0.51	0.70	FJ	ug/m3	1	9/7/2011 2:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 2:30:00 PM
Chloroform	9.1	0.74		ug/m3	1	9/7/2011 2:30:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,2-Dichloroethene	0.77	0.60		ug/m3	1	9/7/2011 2:30:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Cyclohexane	7.8	0.52		ug/m3	1	9/7/2011 2:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 2:30:00 PM
Ethylbenzene	2.8	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Freon 11	19	8.6		ug/m3	10	9/7/2011 11:56:00 PM
Freon 113	0.78	1.2	FJ	ug/m3	1	9/7/2011 2:30:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 2:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Cwk 1/29/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0101AB
Lab Order:	C1108077	**Tag Number:**	542,391
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 2:30:00 PM
Heptane	3.7	0.62		ug/m3	1	9/7/2011 2:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 2:30:00 PM
Hexane	7.9	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 2:30:00 PM
m&p-Xylene	9.0	1.3		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Ethyl Ketone	4.9	0.90		ug/m3	1	9/7/2011 2:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 2:30:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 2:30:00 PM
Methylene chloride	0.99	0.53		ug/m3	1	9/7/2011 2:30:00 PM
o-Xylene	2.4	0.66		ug/m3	1	9/7/2011 2:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 2:30:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 2:30:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	9/7/2011 2:30:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 2:30:00 PM
Toluene	17	5.7		ug/m3	10	9/7/2011 11:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 2:30:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 2:30:00 PM
Trichloroethene	410	76		ug/m3	90	9/8/2011 4:06:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 2:30:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 2:30:00 PM

CMS 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.43	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	0.81	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	0.40	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	0.46	0.15		ppbV	1	9/7/2011 3:09:00 PM
4-ethyltoluene	0.31	0.15		ppbV	1	9/7/2011 3:09:00 PM
Acetone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzene	1.4	0.15		ppbV	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.19	0.15		ppbV	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.11	0.15	FJ	ppbV	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.12	0.15	FJ	ppbV	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloroform	0.36	0.15		ppbV	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Cyclohexane	2.9	1.5		ppbV	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.17	0.25	FJ	ppbV	1	9/7/2011 3:09:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.73	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 11	3.8	1.5		ppbV	10	9/8/2011 1:02:00 AM
Freon 113	0.10	0.15	E d	ppbV	1	9/7/2011 3:09:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 3:09:00 PM
Heptane	1.0	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Hexane	2.3	1.5		ppbV	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 1:02:00 AM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	1.0	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
o-Xylene	0.63	0.15		ppbV	1	9/7/2011 3:09:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Toluene	4.5	1.5		ppbV	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:09:00 PM
Surr: Bromofluorobenzene	117	70-130		%REC	1	9/7/2011 3:09:00 PM

cct
12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.4	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
1,2,4-Trimethylbenzene	4.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:09:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:09:00 PM
1,3,5-Trimethylbenzene	2.0	0.75		ug/m3	1	9/7/2011 3:09:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:09:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:09:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM
2,2,4-trimethylpentane	2.2	0.71		ug/m3	1	9/7/2011 3:09:00 PM
4-ethyltoluene	1.5	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Acetone	< 0.72	0.72		ug/m3	1	9/7/2011 3:09:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:09:00 PM
Benzene	4.4	0.49		ug/m3	1	9/7/2011 3:09:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:09:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:09:00 PM
Carbon disulfide	0.60	0.47		ug/m3	1	9/7/2011 3:09:00 PM
Carbon tetrachloride	0.70	0.96	F J	ug/m3	1	9/7/2011 3:09:00 PM
Chlorobenzene	0.56	0.70	F J	ug/m3	1	9/7/2011 3:09:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:09:00 PM
Chloroform	1.8	0.74		ug/m3	1	9/7/2011 3:09:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Cyclohexane	10	5.2		ug/m3	10	9/8/2011 1:02:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Ethyl acetate	0.62	0.92	F J	ug/m3	1	9/7/2011 3:09:00 PM
Ethylbenzene	3.2	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Freon 11	22	8.6		ug/m3	10	9/8/2011 1:02:00 AM
Freon 113	0.78	1.2	F J	ug/m3	1	9/7/2011 3:09:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:09:00 PM

UBt 12/1/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0201AB
Lab Order:	C1108077	**Tag Number:**	157,440
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 3:09:00 PM
Heptane	4.2	0.62		ug/m3	1	9/7/2011 3:09:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:09:00 PM
Hexane	8.2	5.4		ug/m3	10	9/8/2011 1:02:00 AM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 1:02:00 AM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Ethyl Ketone	3.0	0.90		ug/m3	1	9/7/2011 3:09:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:09:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:09:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:09:00 PM
o-Xylene	2.8	0.66		ug/m3	1	9/7/2011 3:09:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:09:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 3:09:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:09:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:09:00 PM
Toluene	17	5.7		ug/m3	10	9/8/2011 1:02:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:09:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:09:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 1:02:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:09:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:09:00 PM

Ctd 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.12	0.15	F✓	ppbV	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	0.36	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	0.49	0.15		ppbV	1	9/7/2011 3:42:00 PM
4-ethyltoluene	0.33	0.15		ppbV	1	9/7/2011 3:42:00 PM
Acetone	8.0	3.0		ppbV	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzene	1.2	0.15		ppbV	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon disulfide	0.44	0.15		ppbV	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.18	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Cyclohexane	3.1	1.5		ppbV	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 3:42:00 PM

CAA 12/4/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.82	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 11	20	1.5		ppbV	10	9/8/2011 1:35:00 AM
Freon 113	0.10	0.15	FJ	ppbV	1	9/7/2011 3:42:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Freon 12	0.52	0.15		ppbV	1	9/7/2011 3:42:00 PM
Heptane	0.84	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Hexane	2.1	0.15		ppbV	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
m&p-Xylene	2.7	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
o-Xylene	0.73	0.15		ppbV	1	9/7/2011 3:42:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Styrene	0.32	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Toluene	4.2	1.5		ppbV	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Trichloroethene	2.0	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 3:42:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 3:42:00 PM

AA 9/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.67	0.83	F J	ug/m3	1	9/7/2011 3:42:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
1,2,4-Trimethylbenzene	4.1	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 3:42:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 3:42:00 PM
1,3,5-Trimethylbenzene	1.8	0.75		ug/m3	1	9/7/2011 3:42:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 3:42:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM
2,2,4-trimethylpentane	2.3	0.71		ug/m3	1	9/7/2011 3:42:00 PM
4-ethyltoluene	1.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Acetone	19	7.2	B	ug/m3	10	9/8/2011 1:35:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 3:42:00 PM
Benzene	3.8	0.49		ug/m3	1	9/7/2011 3:42:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 3:42:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 3:42:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 3:42:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 3:42:00 PM
Chlorobenzene	0.84	0.70		ug/m3	1	9/7/2011 3:42:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 3:42:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 3:42:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Cyclohexane	11	5.2		ug/m3	10	9/8/2011 1:35:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 3:42:00 PM
Ethylbenzene	3.6	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Freon 11	120	8.6		ug/m3	10	9/8/2011 1:35:00 AM
Freon 113	0.78	1.2	F J	ug/m3	1	9/7/2011 3:42:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 3:42:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

9/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774VMP0301AB
Lab Order:	C1108077	**Tag Number:**	141,120
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	9/7/2011 3:42:00 PM
Heptane	3.5	0.62		ug/m3	1	9/7/2011 3:42:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 3:42:00 PM
Hexane	7.5	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 3:42:00 PM
m&p-Xylene	12	1.3		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 3:42:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 3:42:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 3:42:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 3:42:00 PM
o-Xylene	3.2	0.66		ug/m3	1	9/7/2011 3:42:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 3:42:00 PM
Styrene	1.4	0.65		ug/m3	1	9/7/2011 3:42:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 3:42:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 3:42:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 1:35:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 3:42:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 3:42:00 PM
Trichloroethene	11	0.82		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 3:42:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 3:42:00 PM

Cust 12/9/11

Qualifiers:

**	Reporting Limit	-	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	0.29	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	0.25	0.15		ppbV	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Acetone	7.0	1.5		ppbV	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzene	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Cyclohexane	0.27	0.15		ppbV	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:16:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Cust 12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 113	0.10	0.15	F	ppbV	1	9/7/2011 4:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Freon 12	0.61	0.15		ppbV	1	9/7/2011 4:16:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.21	0.30	F	ppbV	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	3.6	0.75		ppbV	5	9/8/2011 2:09:00 AM
Toluene	0.87	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Trichloroethene	3.4	0.75		ppbV	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:16:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	9/7/2011 4:16:00 PM

12/9/11

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dichlorobenzene	1.5	0.92		ug/m3	1	9/7/2011 4:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 4:16:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Acetone	17	3.6	B	ug/m3	5	9/8/2011 2:09:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:16:00 PM
Benzene	0.65	0.49		ug/m3	1	9/7/2011 4:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:16:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 4:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 4:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 4:16:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Cyclohexane	0.94	0.52		ug/m3	1	9/7/2011 4:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:16:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 4:16:00 PM
Freon 113	0.78	1.2	F	ug/m3	1	9/7/2011 4:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:16:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

1/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AE
Lab Order:	C1108077	**Tag Number:**	479,395
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-004A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.1	0.75		ug/m3	1	9/7/2011 4:16:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 4:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:16:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 4:16:00 PM
m&p-Xylene	0.93	1.3	F	ug/m3	1	9/7/2011 4:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/7/2011 4:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:16:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:16:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 4:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:16:00 PM
Tetrahydrofuran	11	2.2		ug/m3	5	9/8/2011 2:09:00 AM
Toluene	3.3	0.57		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:16:00 PM
Trichloroethene	19	4.1		ug/m3	5	9/8/2011 2:09:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:16:00 PM

CAA 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.13	0.15	F	ppbV	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	0.43	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	0.32	0.15		ppbV	1	9/7/2011 4:49:00 PM
4-ethyltoluene	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Acetone	6.7	3.0		ppbV	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Carbon disulfide	4.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.14	0.15	F	ppbV	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloroform	0.16	0.15		ppbV	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Cyclohexane	2.7	1.5		ppbV	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.4	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 113	0.11	0.15	F-d	ppbV	1	9/7/2011 4:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 4:49:00 PM
Heptane	1.3	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Hexane	2.2	1.5		ppbV	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	0.93	0.15		ppbV	1	9/7/2011 4:49:00 PM
m&p-Xylene	3.2	3.0		ppbV	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
o-Xylene	1.2	0.15		ppbV	1	9/7/2011 4:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Toluene	6.1	1.5		ppbV	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Trichloroethene	16	1.5		ppbV	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 4:49:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 4:49:00 PM

LCA 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.72	0.83	F	ug/m3	1	9/7/2011 4:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
1,2,4-Trimethylbenzene	6.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 4:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 4:49:00 PM
1,3,5-Trimethylbenzene	2.1	0.75		ug/m3	1	9/7/2011 4:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 4:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM
2,2,4-trimethylpentane	1.5	0.71		ug/m3	1	9/7/2011 4:49:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Acetone	16	7.2	B	ug/m3	10	9/8/2011 2:42:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 4:49:00 PM
Benzene	4.2	0.49		ug/m3	1	9/7/2011 4:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 4:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 4:49:00 PM
Carbon disulfide	13	4.7		ug/m3	10	9/8/2011 2:42:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 4:49:00 PM
Chlorobenzene	0.66	0.70	F	ug/m3	1	9/7/2011 4:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 4:49:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/7/2011 4:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Cyclohexane	9.4	5.2		ug/m3	10	9/8/2011 2:42:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 4:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 4:49:00 PM
Ethylbenzene	6.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 4:49:00 PM
Freon 113	0.86	1.2	F	ug/m3	1	9/7/2011 4:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 4:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CDA 12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0401AB
Lab Order:	C1108077	**Tag Number:**	415,299
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 4:49:00 PM
Heptane	5.3	0.62		ug/m3	1	9/7/2011 4:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 4:49:00 PM
Hexane	7.9	5.4		ug/m3	10	9/8/2011 2:42:00 AM
Isopropyl alcohol	2.3	0.37		ug/m3	1	9/7/2011 4:49:00 PM
m&p-Xylene	14	13		ug/m3	10	9/8/2011 2:42:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/7/2011 4:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 4:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 4:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 4:49:00 PM
o-Xylene	5.1	0.66		ug/m3	1	9/7/2011 4:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 4:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 4:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 4:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 4:49:00 PM
Toluene	23	5.7		ug/m3	10	9/8/2011 2:42:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 4:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 4:49:00 PM
Trichloroethene	88	8.2		ug/m3	10	9/8/2011 2:42:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 4:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 4:49:00 PM

clh 9/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.86	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	0.45	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.17	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.10	0.15	F✓	ppbV	1	9/7/2011 5:23:00 PM
Acetone	8.7	3.0		ppbV	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Benzene	0.12	0.15	F✓	ppbV	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.12	0.15	F✓	ppbV	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloroform	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:23:00 PM

CWA 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.51	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 11	0.39	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 113	0.11	0.15	F	ppbV	1	9/7/2011 5:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 5:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 3:15:00 AM
m&p-Xylene	1.8	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	0.66	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Methylene chloride	1.0	0.15		ppbV	1	9/7/2011 5:23:00 PM
o-Xylene	0.68	0.15		ppbV	1	9/7/2011 5:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	0.32	0.15		ppbV	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Toluene	0.56	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Trichloroethene	110	14		ppbV	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:23:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 5:23:00 PM

CLA 12/9/11

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.8	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
1,2,4-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
1,3,5-Trimethylbenzene	0.85	0.75		ug/m3	1	9/7/2011 5:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 5:23:00 PM
4-ethyltoluene	0.50	0.75	F J	ug/m3	1	9/7/2011 5:23:00 PM
Acetone	21	7.2	B	ug/m3	10	9/8/2011 3:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:23:00 PM
Benzene	0.39	0.49	F J	ug/m3	1	9/7/2011 5:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:23:00 PM
Carbon disulfide	0.38	0.47	F J	ug/m3	1	9/7/2011 5:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:23:00 PM
Chloroform	2.8	0.74		ug/m3	1	9/7/2011 5:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,2-Dichloroethene	2.1	0.60		ug/m3	1	9/7/2011 5:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 5:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:23:00 PM
Ethylbenzene	2.3	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Freon 11	2.2	0.86		ug/m3	1	9/7/2011 5:23:00 PM
Freon 113	0.86	1.2	F J	ug/m3	1	9/7/2011 5:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLA 12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0501AA
Lab Order:	C1108077	**Tag Number:**	561,124
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 5:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 3:15:00 AM
m&p-Xylene	8.2	1.3		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/7/2011 5:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:23:00 PM
Methylene chloride	3.7	0.53		ug/m3	1	9/7/2011 5:23:00 PM
o-Xylene	3.0	0.66		ug/m3	1	9/7/2011 5:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:23:00 PM
Tetrachloroethylene	2.2	1.0		ug/m3	1	9/7/2011 5:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:23:00 PM
Toluene	2.1	0.57		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:23:00 PM
Trichloroethene	610	76		ug/m3	90	9/8/2011 4:39:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl Bromide	< 0.87	0.87		ug/m3	1	9/7/2011 5:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:23:00 PM

CLK 9/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	0.39	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
4-ethyltoluene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Acetone	8.3	3.0		ppbV	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzene	0.94	0.15		ppbV	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloroform	0.17	0.15		ppbV	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Cyclohexane	0.72	0.15		ppbV	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.0	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 113	0.11	0.15	FJ	ppbV	1	9/7/2011 5:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 5:56:00 PM
Heptane	0.82	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Hexane	1.4	0.15		ppbV	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	5.8	1.5		ppbV	10	9/8/2011 4:21:00 AM
m&p-Xylene	4.2	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	0.78	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
o-Xylene	1.1	0.15		ppbV	1	9/7/2011 5:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	0.54	0.15		ppbV	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Toluene	3.9	1.5		ppbV	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Trichloroethene	15	1.5		ppbV	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 5:56:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 5:56:00 PM

Cut 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
1,2,4-Trimethylbenzene	6.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 5:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
1,3,5-Trimethylbenzene	1.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 5:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM
2,2,4-trimethylpentane	0.95	0.71		ug/m3	1	9/7/2011 5:56:00 PM
4-ethyltoluene	2.7	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Acetone	20	7.2	B	ug/m3	10	9/8/2011 4:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 5:56:00 PM
Benzene	3.1	0.49		ug/m3	1	9/7/2011 5:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 5:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 5:56:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	9/7/2011 5:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 5:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 5:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 5:56:00 PM
Chloroform	0.84	0.74		ug/m3	1	9/7/2011 5:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Cyclohexane	2.5	0.52		ug/m3	1	9/7/2011 5:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 5:56:00 PM
Ethylbenzene	4.6	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 5:56:00 PM
Freon 113	0.86	1.2	F	ug/m3	1	9/7/2011 5:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 5:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AB
Lab Order:	C1108077	**Tag Number:**	171,278
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 5:56:00 PM
Heptane	3.4	0.62		ug/m3	1	9/7/2011 5:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 5:56:00 PM
Hexane	4.9	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Isopropyl alcohol	14	3.7		ug/m3	10	9/8/2011 4:21:00 AM
m&p-Xylene	19	1.3		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Ethyl Ketone	2.3	0.90		ug/m3	1	9/7/2011 5:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 5:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 5:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 5:56:00 PM
o-Xylene	4.9	0.66		ug/m3	1	9/7/2011 5:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 5:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 5:56:00 PM
Tetrachloroethylene	3.7	1.0		ug/m3	1	9/7/2011 5:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 5:56:00 PM
Toluene	15	5.7		ug/m3	10	9/8/2011 4:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 5:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 5:56:00 PM
Trichloroethene	84	8.2		ug/m3	10	9/8/2011 4:21:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 5:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 5:56:00 PM

CLS 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.75	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	1.5	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	0.62	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
4-ethyltoluene	0.40	0.15		ppbV	1	9/7/2011 6:29:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Benzene	0.10	0.15	F	ppbV	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromodichloromethane	0.47	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon disulfide	0.43	0.15		ppbV	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Chloroform	21	1.5		ppbV	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Ethyl acetate	0.31	0.25		ppbV	1	9/7/2011 6:29:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cwt 12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.0	1.5		ppbV	10	9/8/2011 4:54:00 AM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 113	0.14	0.15	F-d	ppbV	1	9/7/2011 6:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 6:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
m&p-Xylene	7.3	3.0		ppbV	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	2.9	3.0	F-d	ppbV	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Methylene chloride	6.4	1.5		ppbV	10	9/8/2011 4:54:00 AM
o-Xylene	1.5	1.5		ppbV	10	9/8/2011 4:54:00 AM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Styrene	0.50	0.15		ppbV	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.12	0.15	F-d	ppbV	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Toluene	4.3	1.5		ppbV	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Trichloroethene	47	6.0		ppbV	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 6:29:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 6:29:00 PM

dlst 12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.2	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 6:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
1,2,4-Trimethylbenzene	7.5	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
1,3,5-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 6:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 6:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 6:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 6:29:00 PM
4-ethyltoluene	2.0	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Acetone	25	7.2		ug/m3	10	9/8/2011 4:54:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 6:29:00 PM
Benzene	0.32	0.49	F✓	ug/m3	1	9/7/2011 6:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 6:29:00 PM
Bromodichloromethane	3.2	1.0		ug/m3	1	9/7/2011 6:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 6:29:00 PM
Carbon disulfide	1.4	0.47		ug/m3	1	9/7/2011 6:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 6:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 6:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 6:29:00 PM
Chloroform	100	7.4		ug/m3	10	9/8/2011 4:54:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 6:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 6:29:00 PM
Ethyl acetate	1.1	0.92		ug/m3	1	9/7/2011 6:29:00 PM
Ethylbenzene	8.8	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 6:29:00 PM
Freon 113	1.1	1.2	F✓	ug/m3	1	9/7/2011 6:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 6:29:00 PM

out 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AB
Lab Order:	C1108077	**Tag Number:**	236,346
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 6:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 6:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 6:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 6:29:00 PM
m&p-Xylene	32	13		ug/m3	10	9/8/2011 4:54:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl Ethyl Ketone	8.7	9.0	F,S	ug/m3	10	9/8/2011 4:54:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 6:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 6:29:00 PM
Methylene chloride	23	5.3		ug/m3	10	9/8/2011 4:54:00 AM
o-Xylene	6.6	6.6		ug/m3	10	9/8/2011 4:54:00 AM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 6:29:00 PM
Styrene	2.2	0.65		ug/m3	1	9/7/2011 6:29:00 PM
Tetrachloroethylene	0.83	1.0	F,S	ug/m3	1	9/7/2011 6:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 6:29:00 PM
Toluene	16	5.7		ug/m3	10	9/8/2011 4:54:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 6:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 6:29:00 PM
Trichloroethene	260	33		ug/m3	40	9/8/2011 5:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 6:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 6:29:00 PM

Cut 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	0.48	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.13	0.15	FJ	ppbV	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.12	0.15	FJ	ppbV	1	9/7/2011 7:02:00 PM
Acetone	10	3.0		ppbV	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Benzene	0.10	0.15	FJ	ppbV	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:02:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 113	0.10	0.15	F✓	ppbV	1	9/7/2011 7:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:02:00 PM
Heptane	0.30	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	4.4	1.5		ppbV	10	9/8/2011 6:01:00 AM
m&p-Xylene	1.2	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	2.1	3.0	F✓	ppbV	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
o-Xylene	0.33	0.15		ppbV	1	9/7/2011 7:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Styrene	0.22	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	0.38	0.15		ppbV	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Toluene	1.4	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Trichloroethene	9.3	1.5		ppbV	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:02:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 7:02:00 PM

CLA 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
1,2,4-Trimethylbenzene	2.4	0.75		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
1,3,5-Trimethylbenzene	0.65	0.75	FS	ug/m3	1	9/7/2011 7:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:02:00 PM
4-ethyltoluene	0.60	0.75	FS	ug/m3	1	9/7/2011 7:02:00 PM
Acetone	24	7.2	B	ug/m3	10	9/8/2011 6:01:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:02:00 PM
Benzene	0.32	0.49	FS	ug/m3	1	9/7/2011 7:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:02:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/7/2011 7:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:02:00 PM
Freon 113	0.78	1.2	FS	ug/m3	1	9/7/2011 7:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cut 12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AB
Lab Order:	C1108077	**Tag Number:**	546,399
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-009A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:02:00 PM
Heptane	1.2	0.62		ug/m3	1	9/7/2011 7:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Isopropyl alcohol	11	3.7		ug/m3	10	9/8/2011 6:01:00 AM
m&p-Xylene	5.3	1.3		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl Ethyl Ketone	6.3	9.0	E	ug/m3	10	9/8/2011 6:01:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:02:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 7:02:00 PM
o-Xylene	1.5	0.66		ug/m3	1	9/7/2011 7:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:02:00 PM
Styrene	0.95	0.65		ug/m3	1	9/7/2011 7:02:00 PM
Tetrachloroethylene	2.6	1.0		ug/m3	1	9/7/2011 7:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:02:00 PM
Toluene	5.2	0.57		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:02:00 PM
Trichloroethene	51	8.2		ug/m3	10	9/8/2011 6:01:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:02:00 PM

CLH 12/4/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	7851A05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Acetone	15	3.0		ppbV	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Freon 12	0.56	0.15		ppbV	1	9/7/2011 7:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	9.6	1.5		ppbV	10	9/8/2011 6:34:00 AM
m&p-Xylene	0.23	0.30	F-4	ppbV	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Methylene chloride	0.24	0.15		ppbV	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Toluene	1.1	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Trichloroethene	0.20	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 7:35:00 PM
Surr: Bromofluorobenzene	116	70-130		%REC	1	9/7/2011 7:35:00 PM

ust 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 7:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 7:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Acetone	35	7.2	B	ug/m3	10	9/8/2011 6:34:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 7:35:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 7:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 7:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 7:35:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 7:35:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 7:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 7:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 7:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 7:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 7:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 7:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 7:35:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 7:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 7:35:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785IA05
Lab Order:	C1108077	**Tag Number:**	248,441
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 7:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 7:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 7:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Isopropyl alcohol	24	3.7		ug/m3	10	9/8/2011 6:34:00 AM
m&p-Xylene	1.0	1.3	F-J	ug/m3	1	9/7/2011 7:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Ethyl Ketone	3.2	0.90		ug/m3	1	9/7/2011 7:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 7:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 7:35:00 PM
Methylene chloride	0.85	0.53		ug/m3	1	9/7/2011 7:35:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 7:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 7:35:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 7:35:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 7:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 7:35:00 PM
Toluene	4.2	0.57		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 7:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 7:35:00 PM
Trichloroethene	1.1	0.82		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 7:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 7:35:00 PM

CWA 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	0.26	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Acetone	16	3.0		ppbV	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Benzene	0.12	0.15	F	ppbV	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Cyclohexane	0.22	0.15		ppbV	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:07:00 PM

12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Freon 12	0.57	0.15		ppbV	1	9/7/2011 8:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	6.0	1.5		ppbV	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.17	0.30	F✓	ppbV	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	1.1	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Toluene	0.61	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Trichloroethene	0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:07:00 PM
Surr: Bromofluorobenzene	115	70-130		%REC	1	9/7/2011 8:07:00 PM

12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
1,2,4-Trimethylbenzene	1.3	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 8:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Acetone	39	7.2		ug/m3	10	9/8/2011 7:07:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:07:00 PM
Benzene	0.39	0.49	F	ug/m3	1	9/7/2011 8:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:07:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Cyclohexane	0.77	0.52		ug/m3	1	9/7/2011 8:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:07:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:07:00 PM

cat 14/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785OA01
Lab Order:	C1108077	**Tag Number:**	347,119
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 8:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 8:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Isopropyl alcohol	15	3.7		ug/m3	10	9/8/2011 7:07:00 AM
m&p-Xylene	0.75	1.3	F	ug/m3	1	9/7/2011 8:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Ethyl Ketone	3.4	0.90		ug/m3	1	9/7/2011 8:07:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:07:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/7/2011 8:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 8:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 8:07:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:07:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:07:00 PM
Toluene	2.3	0.57		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:07:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:07:00 PM

12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	1.0	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	0.52	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.17	0.15		ppbV	1	9/7/2011 8:40:00 PM
4-ethyltoluene	0.24	0.15		ppbV	1	9/7/2011 8:40:00 PM
Acetone	20	3.0	B	ppbV	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzene	0.28	0.15		ppbV	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.16	0.15		ppbV	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.68	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 11	0.30	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 113	0.10	0.15	F-S	ppbV	1	9/7/2011 8:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Freon 12	0.55	0.15		ppbV	1	9/7/2011 8:40:00 PM
Heptane	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	3.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
m&p-Xylene	2.5	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	2.0	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Methylene chloride	0.77	0.15		ppbV	1	9/7/2011 8:40:00 PM
o-Xylene	0.61	0.15		ppbV	1	9/7/2011 8:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Styrene	0.42	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Toluene	2.3	1.5		ppbV	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Trichloroethene	0.45	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 8:40:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 8:40:00 PM

CWT 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
1,2,4-Trimethylbenzene	5.1	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 8:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
1,3,5-Trimethylbenzene	2.6	0.75		ug/m3	1	9/7/2011 8:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 8:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM
2,2,4-trimethylpentane	0.81	0.71		ug/m3	1	9/7/2011 8:40:00 PM
4-ethyltoluene	1.2	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Acetone	49	7.2		ug/m3	10	9/8/2011 7:41:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 8:40:00 PM
Benzene	0.91	0.49		ug/m3	1	9/7/2011 8:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 8:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 8:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 8:40:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 8:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 8:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 8:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 8:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,2-Dichloroethene	0.64	0.60		ug/m3	1	9/7/2011 8:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 8:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 8:40:00 PM
Ethylbenzene	3.0	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 8:40:00 PM
Freon 113	0.78	1.2	F	ug/m3	1	9/7/2011 8:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 8:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	786IA04
Lab Order:	C1108077	**Tag Number:**	287,76
Project:	Griffis AFB	**Collection Date:**	8/24/2011
Lab ID:	C1108077-012A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.8	0.75		ug/m3	1	9/7/2011 8:40:00 PM
Heptane	1.7	0.62		ug/m3	1	9/7/2011 8:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 8:40:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Isopropyl alcohol	8.2	3.7		ug/m3	10	9/8/2011 7:41:00 AM
m&p-Xylene	11	1.3		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Ethyl Ketone	5.9	0.90		ug/m3	1	9/7/2011 8:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 8:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 8:40:00 PM
Methylene chloride	2.7	0.53		ug/m3	1	9/7/2011 8:40:00 PM
o-Xylene	2.7	0.66		ug/m3	1	9/7/2011 8:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 8:40:00 PM
Styrene	1.8	0.65		ug/m3	1	9/7/2011 8:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 8:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 8:40:00 PM
Toluene	8.8	5.7		ug/m3	10	9/8/2011 7:41:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 8:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 8:40:00 PM
Trichloroethene	2.5	0.82		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 8:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 8:40:00 PM

cdt 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.73	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	0.63	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	0.44	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/7/2011 9:13:00 PM
Acetone	12	3.0		ppbV	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzene	1.3	0.15		ppbV	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloroform	0.87	0.15		ppbV	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
		TO-15				Analyst: RJP
1UG/M3 BY METHOD TO15						
Ethylbenzene	0.21	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 11	24	1.5		ppbV	10	9/8/2011 8:15:00 AM
Freon 113	0.25	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Freon 12	3.2	1.5		ppbV	10	9/8/2011 8:15:00 AM
Heptane	2.8	1.5		ppbV	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
m&p-Xylene	0.74	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	1.5	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
o-Xylene	0.41	0.15		ppbV	1	9/7/2011 9:13:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	0.35	0.15		ppbV	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	2.0	0.15		ppbV	1	9/7/2011 9:13:00 PM
Toluene	0.58	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Trichloroethene	43	27		ppbV	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:13:00 PM
Surr: Bromofluorobenzene	125	70-130		%REC	1	9/7/2011 9:13:00 PM

CWA 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	4.0	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
1,2,4-Trimethylbenzene	3.1	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:13:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
1,3,5-Trimethylbenzene	2.2	0.75		ug/m3	1	9/7/2011 9:13:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:13:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:13:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/7/2011 9:13:00 PM
Acetone	30	7.2		ug/m3	10	9/8/2011 8:15:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:13:00 PM
Benzene	4.1	0.49		ug/m3	1	9/7/2011 9:13:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:13:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:13:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:13:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:13:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:13:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:13:00 PM
Chloroform	4.3	0.74		ug/m3	1	9/7/2011 9:13:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:13:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:13:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Freon 11	130	8.6		ug/m3	10	9/8/2011 8:15:00 AM
Freon 113	1.9	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:13:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA01AB
Lab Order:	C1108077	**Tag Number:**	243,98
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	16	7.5		ug/m3	10	9/8/2011 8:15:00 AM
Heptane	12	6.2		ug/m3	10	9/8/2011 8:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:13:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:13:00 PM
m&p-Xylene	3.3	1.3		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Ethyl Ketone	4.4	0.90		ug/m3	1	9/7/2011 9:13:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:13:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:13:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:13:00 PM
o-Xylene	1.8	0.66		ug/m3	1	9/7/2011 9:13:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:13:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:13:00 PM
Tetrachloroethylene	2.4	1.0		ug/m3	1	9/7/2011 9:13:00 PM
Tetrahydrofuran	6.0	0.45		ug/m3	1	9/7/2011 9:13:00 PM
Toluene	2.2	0.57		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:13:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:13:00 PM
Trichloroethene	240	150		ug/m3	180	9/8/2011 8:49:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:13:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:13:00 PM

CWS
12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Acetone	1.8	0.30		ppbV	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloroform	0.80	0.15		ppbV	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cdt 12/4/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.12	0.15	FS	ppbV	1	9/7/2011 9:46:00 PM
Freon 11	8.6	1.5		ppbV	10	9/8/2011 9:22:00 AM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Freon 12	1.2	0.15		ppbV	1	9/7/2011 9:46:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
o-Xylene	0.16	0.15		ppbV	1	9/7/2011 9:46:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	2.7	1.5		ppbV	10	9/8/2011 9:22:00 AM
Toluene	0.12	0.15	FS	ppbV	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Trichloroethene	45	27		ppbV	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 9:46:00 PM
Surr: Bromofluorobenzene	109	70-130		%REC	1	9/7/2011 9:46:00 PM

WT 12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	8.8	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 9:46:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 9:46:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Acetone	4.4	0.72	B	ug/m3	1	9/7/2011 9:46:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 9:46:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 9:46:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 9:46:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 9:46:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 9:46:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 9:46:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 9:46:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 9:46:00 PM
Chloroform	4.0	0.74		ug/m3	1	9/7/2011 9:46:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 9:46:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 9:46:00 PM
Ethylbenzene	0.53	0.66	F	ug/m3	1	9/7/2011 9:46:00 PM
Freon 11	49	8.6		ug/m3	10	9/8/2011 9:22:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 9:46:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

MT 12/4/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	774776CA02AB
Lab Order:	C1108077	**Tag Number:**	203
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	6.0	0.75		ug/m3	1	9/7/2011 9:46:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 9:46:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 9:46:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 9:46:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 9:46:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 9:46:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 9:46:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 9:46:00 PM
o-Xylene	0.71	0.66		ug/m3	1	9/7/2011 9:46:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 9:46:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 9:46:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 9:46:00 PM
Tetrahydrofuran	8.1	4.5		ug/m3	10	9/8/2011 9:22:00 AM
Toluene	0.46	0.57	F.d	ug/m3	1	9/7/2011 9:46:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 9:46:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 9:46:00 PM
Trichloroethene	250	150		ug/m3	180	9/8/2011 9:55:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 9:46:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 9:46:00 PM

CWA
12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.26	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	0.35	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	6.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Acetone	2.1	0.30		ppbV	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzene	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloroform	1.6	0.15		ppbV	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Cyclohexane	7.9	1.5		ppbV	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:18:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.66	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 11	0.31	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 113	0.10	0.15	FD	ppbV	1	9/7/2011 10:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Freon 12	0.54	0.15		ppbV	1	9/7/2011 10:18:00 PM
Heptane	7.3	1.5		ppbV	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Hexane	3.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
o-Xylene	0.78	0.15		ppbV	1	9/7/2011 10:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	7.6	1.5		ppbV	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Toluene	0.88	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Trichloroethene	94	14		ppbV	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:18:00 PM
Surr: Bromofluorobenzene	118	70-130		%REC	1	9/7/2011 10:18:00 PM

Ctd 12/4/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.4	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
1,3,5-Trimethylbenzene	1.5	0.75		ug/m3	1	9/7/2011 10:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM
2,2,4-trimethylpentane	31	7.1		ug/m3	10	9/8/2011 1:45:00 PM
4-ethyltoluene	0.75	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Acetone	5.1	0.72	B	ug/m3	1	9/7/2011 10:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:18:00 PM
Benzene	0.81	0.49		ug/m3	1	9/7/2011 10:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:18:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/7/2011 10:18:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:18:00 PM
Chloroform	8.1	0.74		ug/m3	1	9/7/2011 10:18:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,2-Dichloroethene	4.5	0.60		ug/m3	1	9/7/2011 10:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Cyclohexane	28	5.2		ug/m3	10	9/8/2011 1:45:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:18:00 PM
Ethylbenzene	2.9	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/7/2011 10:18:00 PM
Freon 113	0.78	1.2	F	ug/m3	1	9/7/2011 10:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA01AB
Lab Order:	C1108077	**Tag Number:**	366
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.7	0.75		ug/m3	1	9/7/2011 10:18:00 PM
Heptane	30	6.2		ug/m3	10	9/8/2011 1:45:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:18:00 PM
Hexane	13	5.4		ug/m3	10	9/8/2011 1:45:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:18:00 PM
m&p-Xylene	6.3	1.3		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:18:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:18:00 PM
o-Xylene	3.4	0.66		ug/m3	1	9/7/2011 10:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:18:00 PM
Tetrachloroethylene	52	10		ug/m3	10	9/8/2011 1:45:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 10:18:00 PM
Toluene	3.4	0.57		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:18:00 PM
Trichloroethene	520	76		ug/m3	90	9/8/2011 3:01:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:18:00 PM

12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Acetone	3.5	3.0		ppbV	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzene	0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.18	0.15		ppbV	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloroform	1.8	0.15		ppbV	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	1.3	0.15		ppbV	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Cyclohexane	4.9	1.5		ppbV	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 10:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 11	0.29	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Freon 12	0.58	0.15		ppbV	1	9/7/2011 10:50:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.17	0.30	F	ppbV	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	3.6	1.5		ppbV	10	9/8/2011 2:16:00 PM
Toluene	0.21	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Trichloroethene	100	14		ppbV	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 10:50:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	9/7/2011 10:50:00 PM

CAA 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
1,2,4-Trimethylbenzene	0.90	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 10:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 10:50:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Acetone	8.5	7.2	B	ug/m3	10	9/8/2011 2:16:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 10:50:00 PM
Benzene	0.49	0.49		ug/m3	1	9/7/2011 10:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 10:50:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 10:50:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/7/2011 10:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 10:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 10:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 10:50:00 PM
Chloroform	8.9	0.74		ug/m3	1	9/7/2011 10:50:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,2-Dichloroethene	5.1	0.60		ug/m3	1	9/7/2011 10:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Cyclohexane	17	5.2		ug/m3	10	9/8/2011 2:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 10:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 10:50:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/7/2011 10:50:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 10:50:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	785786CA02AB
Lab Order:	C1108077	**Tag Number:**	552
Project:	Griffis AFB	**Collection Date:**	8/23/2011
Lab ID:	C1108077-016A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/7/2011 10:50:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 10:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 10:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 10:50:00 PM
m&p-Xylene	0.75	1.3	F	ug/m3	1	9/7/2011 10:50:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 10:50:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 10:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 10:50:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 10:50:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 10:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 10:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 10:50:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 10:50:00 PM
Tetrahydrofuran	11	4.5		ug/m3	10	9/8/2011 2:16:00 PM
Toluene	0.80	0.57		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 10:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 10:50:00 PM
Trichloroethene	570	76		ug/m3	90	9/8/2011 3:32:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 10:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 10:50:00 PM

cut 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		8/30/2011
Lab Vacuum Out	-30			"Hg		8/30/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Acetone	2.0	0.30		ppbV	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/7/2011 1:24:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

dlt 1/29/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 11	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Freon 12	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Toluene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/7/2011 1:24:00 PM
Surr: Bromofluorobenzene	111	70-130		%REC	1	9/7/2011 1:24:00 PM

CWA 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/7/2011 1:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/7/2011 1:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Acetone	4.9	0.72		ug/m3	1	9/7/2011 1:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/7/2011 1:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/7/2011 1:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/7/2011 1:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/7/2011 1:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/7/2011 1:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	9/7/2011 1:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/7/2011 1:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/7/2011 1:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/7/2011 1:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/7/2011 1:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/7/2011 1:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	9/7/2011 1:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/7/2011 1:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *15-Sep-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blanl
Lab Order:	C1108077	**Tag Number:**	567
Project:	Griffis AFB	**Collection Date:**	8/25/2011
Lab ID:	C1108077-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	9/7/2011 1:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/7/2011 1:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/7/2011 1:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/7/2011 1:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/7/2011 1:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/7/2011 1:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/7/2011 1:24:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	9/7/2011 1:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	9/7/2011 1:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/7/2011 1:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/7/2011 1:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/7/2011 1:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/7/2011 1:24:00 PM
Toluene	< 0.57	0.57		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/7/2011 1:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/7/2011 1:24:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/7/2011 1:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/7/2011 1:24:00 PM

CMK 9/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 785
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1109015

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	6
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	September 6, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
776VMP0101AB	8/24/11		
776VMP0201AB	8/24/11		
776VMP0301AB	8/24/11		
776IA1DA	8/24/11		
776OA1EA	8/24/11		
774IA1AE	8/24/11		

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AB, AE, DA, EA – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)

- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times
- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID ALCS1UG-091011					
(all samples associated)					
LCSD: Carbon tetrachloride	***137***	70-130	60-140	None	%Rec within AFCEE control limits
LCSD: o-Xylene	***138***	70-130	60-140	None	%Rec within AFCEE control limits

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: As shown above, there were two recovery exceedances in the LCSD (091011), but since all recoveries of these compounds in the associated primary LCS sample were within QC limits, no further corrective action was considered necessary.

There was one exceedance of the RPD (30%) between the LCS and LCSD samples, for the following compound: hexachloro-1,3-butadiene (40.6%). No corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these exceedances: sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 9/10/11, 9:29				
Naphthalene	***48.3***	±30	UJ	Compound not included on target analyte list

Corrective Action: No corrective action was deemed necessary, since naphthalene is not included on the target analyte list.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1109015 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	0.70	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.11	0.15	F	ppbV	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzene	0.17	0.15		ppbV	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.16	0.15		ppbV	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.12	0.15	F	ppbV	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloroform	0.16	0.15		ppbV	1	9/10/2011 12:02:00 PM
Chloromethane	0.54	0.15		ppbV	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Cyclohexane	0.47	0.15		ppbV	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CMS 12/9/11

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 11	0.44	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 113	0.11	0.15	J	ppbV	1	9/10/2011 12:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 12:02:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	9/10/2011 3:24:00 PM
m&p-Xylene	0.44	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	0.90	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Methylene chloride	3.8	1.5		ppbV	10	9/10/2011 3:24:00 PM
o-Xylene	0.22	0.15		ppbV	1	9/10/2011 12:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Styrene	0.26	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	0.39	0.15		ppbV	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	0.38	0.15		ppbV	1	9/10/2011 12:02:00 PM
Toluene	1.1	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Trichloroethene	6.9	1.5		ppbV	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.31	0.15		ppbV	1	9/10/2011 12:02:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 12:02:00 PM

12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
1,1-Dichloroethene	0.69	0.60		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
1,2,4-Trimethylbenzene	3.5	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloroethane	0.45	0.62	F	ug/m3	1	9/10/2011 12:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
1,3,5-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 12:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:02:00 PM
4-ethyltoluene	0.90	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:24:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:02:00 PM
Benzene	0.55	0.49		ug/m3	1	9/10/2011 12:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:02:00 PM
Carbon disulfide	0.57	0.47		ug/m3	1	9/10/2011 12:02:00 PM
Carbon tetrachloride	0.77	0.96	F	ug/m3	1	9/10/2011 12:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:02:00 PM
Chloroform	0.79	0.74		ug/m3	1	9/10/2011 12:02:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 12:02:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	9/10/2011 3:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Cyclohexane	1.6	0.52		ug/m3	1	9/10/2011 12:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 12:02:00 PM
Ethylbenzene	0.79	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Freon 11	2.5	0.86		ug/m3	1	9/10/2011 12:02:00 PM
Freon 113	0.86	1.2	F	ug/m3	1	9/10/2011 12:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/9/11

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AB
Lab Order:	C1109015	**Tag Number:**	283,4326
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 12:02:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 12:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	9/10/2011 3:24:00 PM
m&p-Xylene	1.9	1.3		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Ethyl Ketone	2.7	0.90		ug/m3	1	9/10/2011 12:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:02:00 PM
Methylene chloride	13	5.3		ug/m3	10	9/10/2011 3:24:00 PM
o-Xylene	0.97	0.66		ug/m3	1	9/10/2011 12:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:02:00 PM
Styrene	1.1	0.65		ug/m3	1	9/10/2011 12:02:00 PM
Tetrachloroethylene	2.7	1.0		ug/m3	1	9/10/2011 12:02:00 PM
Tetrahydrofuran	1.1	0.45		ug/m3	1	9/10/2011 12:02:00 PM
Toluene	4.1	0.57		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:02:00 PM
Trichloroethene	38	8.2		ug/m3	10	9/10/2011 3:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:02:00 PM
Vinyl chloride	0.81	0.39		ug/m3	1	9/10/2011 12:02:00 PM

ent 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	0.67	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.12	0.15	F-d	ppbV	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	0.24	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
4-ethyltoluene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Acetone	16	3.0		ppbV	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Benzene	0.14	0.15	F-d	ppbV	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.12	0.15	F-d	ppbV	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Cyclohexane	2.1	1.5		ppbV	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Ethyl acetate	0.51	0.25		ppbV	1	9/10/2011 12:36:00 PM

CWT 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT: FPM
Lab Order: C1109015
Project: 1000-08-17
Lab ID: C1109015-002A

Client Sample ID: 776VMP0201AB
Tag Number: 95,304
Collection Date: 9/6/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Ethylbenzene	0.20	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 11	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 113	0.13	0.15	F	ppbV	1	9/10/2011 12:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Freon 12	0.59	0.15		ppbV	1	9/10/2011 12:36:00 PM
Heptane	0.31	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	27	1.5		ppbV	10	9/10/2011 3:57:00 PM
m&p-Xylene	0.54	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Methylene chloride	0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
o-Xylene	0.21	0.15		ppbV	1	9/10/2011 12:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Styrene	0.23	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	1.4	0.15		ppbV	1	9/10/2011 12:36:00 PM
Toluene	1.2	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Trichloroethene	0.70	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 12:36:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	9/10/2011 12:36:00 PM

12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 12:36:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
1,2,4-Trimethylbenzene	3.3	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloroethane	0.49	0.62	F-J	ug/m3	1	9/10/2011 12:36:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
1,3,5-Trimethylbenzene	1.2	0.75		ug/m3	1	9/10/2011 12:36:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 12:36:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 12:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 12:36:00 PM
4-ethyltoluene	1.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Acetone	39	7.2		ug/m3	10	9/10/2011 3:57:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 12:36:00 PM
Benzene	0.45	0.49	F-J	ug/m3	1	9/10/2011 12:36:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 12:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 12:36:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	9/10/2011 12:36:00 PM
Carbon tetrachloride	0.77	0.96	F-J	ug/m3	1	9/10/2011 12:36:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 12:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 12:36:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 12:36:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Cyclohexane	7.3	5.2		ug/m3	10	9/10/2011 3:57:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Ethyl acetate	1.9	0.92		ug/m3	1	9/10/2011 12:36:00 PM
Ethylbenzene	0.88	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Freon 11	1.8	0.86		ug/m3	1	9/10/2011 12:36:00 PM
Freon 113	1.0	1.2	F-J	ug/m3	1	9/10/2011 12:36:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 12:36:00 PM

cld 11/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AB
Lab Order:	C1109015	**Tag Number:**	95,304
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	3.0	0.75		ug/m3	1	9/10/2011 12:36:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 12:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 12:36:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Isopropyl alcohol	68	3.7		ug/m3	10	9/10/2011 3:57:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	9/10/2011 12:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 12:36:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 12:36:00 PM
Methylene chloride	0.53	0.53		ug/m3	1	9/10/2011 12:36:00 PM
o-Xylene	0.93	0.66		ug/m3	1	9/10/2011 12:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 12:36:00 PM
Styrene	1.0	0.85		ug/m3	1	9/10/2011 12:36:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 12:36:00 PM
Tetrahydrofuran	4.3	0.45		ug/m3	1	9/10/2011 12:36:00 PM
Toluene	4.5	0.57		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 12:36:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 12:36:00 PM
Trichloroethene	3.8	0.82		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 12:36:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 12:36:00 PM

CAT 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT: FPM
Lab Order: C1109015
Project: 1000-08-17
Lab ID: C1109015-003A

Client Sample ID: 776VMP0301AB
Tag Number: 350,455
Collection Date: 9/6/2011
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	0.42	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.14	0.15	F J	ppbV	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.13	0.15	F J	ppbV	1	9/10/2011 1:10:00 PM
Acetone	12	3.0		ppbV	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Benzene	0.12	0.15	F J	ppbV	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.30	0.15		ppbV	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.13	0.15	F J	ppbV	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Chloromethane	0.46	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Cyclohexane	0.99	0.15		ppbV	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 1:10:00 PM

UA (2/9/11)

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 11	0.29	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 113	0.12	0.15	FS	ppbV	1	9/10/2011 1:10:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Freon 12	0.57	0.15		ppbV	1	9/10/2011 1:10:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	5.0	1.5		ppbV	10	9/10/2011 4:30:00 PM
m&p-Xylene	0.39	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	0.68	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Methylene chloride	0.27	0.15		ppbV	1	9/10/2011 1:10:00 PM
o-Xylene	0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Styrene	0.16	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	0.59	0.15		ppbV	1	9/10/2011 1:10:00 PM
Toluene	0.82	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Trichloroethene	1.8	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:10:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	9/10/2011 1:10:00 PM

cwt 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
1,2,4-Trimethylbenzene	2.1	0.75		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloroethane	0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
1,3,5-Trimethylbenzene	0.70	0.75	F	ug/m3	1	9/10/2011 1:10:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:10:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:10:00 PM
4-ethyltoluene	0.65	0.75	F	ug/m3	1	9/10/2011 1:10:00 PM
Acetone	30	7.2		ug/m3	10	9/10/2011 4:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:10:00 PM
Benzene	0.39	0.49	F	ug/m3	1	9/10/2011 1:10:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:10:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:10:00 PM
Carbon disulfide	0.95	0.47		ug/m3	1	9/10/2011 1:10:00 PM
Carbon tetrachloride	0.83	0.96	F	ug/m3	1	9/10/2011 1:10:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:10:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:10:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:10:00 PM
Chloromethane	0.97	0.31		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	9/10/2011 1:10:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 1:10:00 PM
Ethylbenzene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:10:00 PM
Freon 113	0.93	1.2	F	ug/m3	1	9/10/2011 1:10:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:10:00 PM

12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AB
Lab Order:	C1109015	**Tag Number:**	350,455
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 1:10:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 1:10:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:10:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Isopropyl alcohol	12	3.7		ug/m3	10	9/10/2011 4:30:00 PM
m&p-Xylene	1.7	1.3		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Ethyl Ketone	2.0	0.90		ug/m3	1	9/10/2011 1:10:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:10:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:10:00 PM
Methylene chloride	0.95	0.53		ug/m3	1	9/10/2011 1:10:00 PM
o-Xylene	0.66	0.66		ug/m3	1	9/10/2011 1:10:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:10:00 PM
Styrene	0.69	0.65		ug/m3	1	9/10/2011 1:10:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:10:00 PM
Tetrahydrofuran	1.8	0.45		ug/m3	1	9/10/2011 1:10:00 PM
Toluene	3.1	0.57		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:10:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:10:00 PM
Trichloroethene	10	0.82		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl Bromide	< 0.87	0.67		ug/m3	1	9/10/2011 1:10:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:10:00 PM

aut
12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.13	0.15	F	ppbV	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Acetone	19	3.0		ppbV	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Benzene	0.11	0.15	F	ppbV	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.12	0.15	F	ppbV	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Chloromethane	0.71	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Ethyl acetate	0.91	0.25		ppbV	1	9/10/2011 1:44:00 PM

12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.21	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 113	0.12	0.15	F ✓	ppbV	1	9/10/2011 1:44:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Freon 12	0.62	0.15		ppbV	1	9/10/2011 1:44:00 PM
Heptane	0.32	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	20	1.5		ppbV	10	9/10/2011 5:03:00 PM
m&p-Xylene	0.48	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	1.4	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Methylene chloride	0.37	0.15		ppbV	1	9/10/2011 1:44:00 PM
o-Xylene	0.17	0.15		ppbV	1	9/10/2011 1:44:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Styrene	0.24	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Toluene	0.83	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Trichloroethene	0.34	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 1:44:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	9/10/2011 1:44:00 PM

cdt
12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 1:44:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloroethane	0.53	0.62	FJ	ug/m3	1	9/10/2011 1:44:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 1:44:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 1:44:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 1:44:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Acetone	47	7.2		ug/m3	10	9/10/2011 5:03:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 1:44:00 PM
Benzene	0.36	0.49	FJ	ug/m3	1	9/10/2011 1:44:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 1:44:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 1:44:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	9/10/2011 1:44:00 PM
Carbon tetrachloride	0.77	0.96	FJ	ug/m3	1	9/10/2011 1:44:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 1:44:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 1:44:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 1:44:00 PM
Chloromethane	1.5	0.31		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 1:44:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Ethyl acetate	3.3	0.92		ug/m3	1	9/10/2011 1:44:00 PM
Ethylbenzene	0.93	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 1:44:00 PM
Freon 113	0.93	1.2	FJ	ug/m3	1	9/10/2011 1:44:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 1:44:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CM 12/9/11

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1DA
Lab Order:	C1109015	**Tag Number:**	317,448
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.1	0.75		ug/m3	1	9/10/2011 1:44:00 PM
Heptane	1.3	0.62		ug/m3	1	9/10/2011 1:44:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 1:44:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Isopropyl alcohol	50	3.7		ug/m3	10	9/10/2011 5:03:00 PM
m&p-Xylene	2.1	1.3		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Ethyl Ketone	4.1	0.90		ug/m3	1	9/10/2011 1:44:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 1:44:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 1:44:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	9/10/2011 1:44:00 PM
o-Xylene	0.75	0.66		ug/m3	1	9/10/2011 1:44:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 1:44:00 PM
Styrene	1.0	0.65		ug/m3	1	9/10/2011 1:44:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 1:44:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 1:44:00 PM
Toluene	3.2	0.57		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 1:44:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 1:44:00 PM
Trichloroethene	1.9	0.82		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 1:44:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 1:44:00 PM

CM
12/9/11

Qualifiers:	**	Reporting Limit
	B	Analyte detected in the associated Method Blank
	H	Holding times for preparation or analysis exceeded
	JN	Non-routine analyte. Quantitation estimated.
	S	Spike Recovery outside accepted recovery limits
	.	Results reported are not blank corrected
	E	Value above quantitation range
	J	Analyte detected at or below quantitation limits
	ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.16	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Acetone	22	3.0		ppbV	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Benzene	0.12	0.15	F,d	ppbV	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.11	0.15	F,d	ppbV	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.14	0.15	F,d	ppbV	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Chloromethane	0.53	0.15		ppbV	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.12	0.15	F,d	ppbV	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:18:00 PM

12/9/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 11	0.30	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 113	0.11	0.15	F J	ppbV	1	9/10/2011 2:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Freon 12	0.58	0.15		ppbV	1	9/10/2011 2:18:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
m&p-Xylene	0.25	0.30	F J	ppbV	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	2.9	3.0	F J	ppbV	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Methylene chloride	0.26	0.15		ppbV	1	9/10/2011 2:18:00 PM
o-Xylene	0.10	0.15	F J	ppbV	1	9/10/2011 2:18:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	0.45	0.15		ppbV	1	9/10/2011 2:18:00 PM
Toluene	1.5	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Trichloroethene	0.47	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:18:00 PM
Surr: Bromofluorobenzene	94.0	70-130		%REC	1	9/10/2011 2:18:00 PM

CVA
12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
1,3,5-Trimethylbenzene	0.80	0.75		ug/m3	1	9/10/2011 2:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:18:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Acetone	53	7.2		ug/m3	10	9/10/2011 5:35:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:18:00 PM
Benzene	0.39	0.49	F	ug/m3	1	9/10/2011 2:18:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:18:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:18:00 PM
Carbon disulfide	0.35	0.47	F	ug/m3	1	9/10/2011 2:18:00 PM
Carbon tetrachloride	0.90	0.96	F	ug/m3	1	9/10/2011 2:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:18:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:18:00 PM
Chloromethane	1.1	0.31		ug/m3	1	9/10/2011 2:18:00 PM
cis-1,2-Dichloroethene	0.48	0.60	F	ug/m3	1	9/10/2011 2:18:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:18:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	9/10/2011 2:18:00 PM
Freon 11	1.7	0.86		ug/m3	1	9/10/2011 2:18:00 PM
Freon 113	0.86	1.2	F	ug/m3	1	9/10/2011 2:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CLA 12/9/11

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	776OA1EA
Lab Order:	C1109015	**Tag Number:**	327,382
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.9	0.75		ug/m3	1	9/10/2011 2:18:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:18:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:18:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	9/10/2011 2:18:00 PM
m&p-Xylene	1.1	1.3	F	ug/m3	1	9/10/2011 2:18:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl Ethyl Ketone	8.7	9.0	F	ug/m3	10	9/10/2011 5:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:18:00 PM
Methylene chloride	0.92	0.53		ug/m3	1	9/10/2011 2:18:00 PM
o-Xylene	0.44	0.66	F	ug/m3	1	9/10/2011 2:18:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	9/10/2011 2:18:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:18:00 PM
Tetrahydrofuran	1.3	0.45		ug/m3	1	9/10/2011 2:18:00 PM
Toluene	5.8	0.57		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:18:00 PM
Trichloroethene	2.6	0.82		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:18:00 PM

Ant 12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		9/8/2011
Lab Vacuum Out	-30			"Hg		9/8/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	0.32	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Acetone	14	3.0		ppbV	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromoform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.14	0.15	E	ppbV	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloroform	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Chloromethane	0.57	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	9/10/2011 2:52:00 PM

(2/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.13	0.15	F J	ppbV	1	9/10/2011 2:52:00 PM
Freon 11	14	1.5		ppbV	10	9/10/2011 6:08:00 PM
Freon 113	0.11	0.15	F J	ppbV	1	9/10/2011 2:52:00 PM
Freon 114	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Freon 12	0.56	0.15		ppbV	1	9/10/2011 2:52:00 PM
Heptane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Hexane	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	9/10/2011 6:08:00 PM
m&p-Xylene	0.28	0.30	F J	ppbV	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	0.92	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Methylene chloride	0.31	0.15		ppbV	1	9/10/2011 2:52:00 PM
o-Xylene	0.11	0.15	F J	ppbV	1	9/10/2011 2:52:00 PM
Propylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Styrene	0.13	0.15	F J	ppbV	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Toluene	0.65	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Trichloroethene	0.43	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	9/10/2011 2:52:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	9/10/2011 2:52:00 PM

CWT 12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	9/10/2011 2:52:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	9/10/2011 2:52:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Acetone	34	7.2		ug/m3	10	9/10/2011 6:08:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	9/10/2011 2:52:00 PM
Benzene	< 0.49	0.49		ug/m3	1	9/10/2011 2:52:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	9/10/2011 2:52:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	9/10/2011 2:52:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	9/10/2011 2:52:00 PM
Carbon tetrachloride	0.90	0.96	F	ug/m3	1	9/10/2011 2:52:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	9/10/2011 2:52:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	9/10/2011 2:52:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	9/10/2011 2:52:00 PM
Chloromethane	1.2	0.31		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	9/10/2011 2:52:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	9/10/2011 2:52:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	9/10/2011 2:52:00 PM
Ethylbenzene	0.57	0.66	F	ug/m3	1	9/10/2011 2:52:00 PM
Freon 11	77	8.6		ug/m3	10	9/10/2011 6:08:00 PM
Freon 113	0.86	1.2	F	ug/m3	1	9/10/2011 2:52:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	9/10/2011 2:52:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CWH 12/1/11

Centek Laboratories, LLC

Date: *11-Oct-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AE
Lab Order:	C1109015	**Tag Number:**	232,66
Project:	1000-08-17	**Collection Date:**	9/6/2011
Lab ID:	C1109015-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	2.8	0.75		ug/m3	1	9/10/2011 2:52:00 PM
Heptane	< 0.62	0.62		ug/m3	1	9/10/2011 2:52:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	9/10/2011 2:52:00 PM
Hexane	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Isopropyl alcohol	32	3.7		ug/m3	10	9/10/2011 6:08:00 PM
m&p-Xylene	1.2	1.3	F-J	ug/m3	1	9/10/2011 2:52:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Ethyl Ketone	2.8	0.90		ug/m3	1	9/10/2011 2:52:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	9/10/2011 2:52:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	9/10/2011 2:52:00 PM
Methylene chloride	1.1	0.53		ug/m3	1	9/10/2011 2:52:00 PM
o-Xylene	0.49	0.66	F-J	ug/m3	1	9/10/2011 2:52:00 PM
Propylene	< 0.26	0.26		ug/m3	1	9/10/2011 2:52:00 PM
Styrene	0.56	0.65	F-J	ug/m3	1	9/10/2011 2:52:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	9/10/2011 2:52:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	9/10/2011 2:52:00 PM
Toluene	2.5	0.57		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	9/10/2011 2:52:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	9/10/2011 2:52:00 PM
Trichloroethene	2.3	0.82		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	9/10/2011 2:52:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	9/10/2011 2:52:00 PM

CAA
12/9/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Building 774, 776
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1110030

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	3
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	October 14, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
774776CA01AC	10/14/11		
774776CA01AD	10/14/11	TRIP BLANK	10/14/11

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AC, AD – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times

- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 10/21/11, 7:32				
Bromodichloromethane	***-30.7***	±30	None	%D > upper control limit; results ND
CCV 10/22/11, 12:18				
1,1,1-Trichloroethane	***-44.7***	±30	None	Associated results not used; dilution analysis performed for other analytes
Carbon Tetrachloride	***-47.9***	±30	None	Associated results not used; dilution analysis performed for other analytes
Bromodichloromethane	***-51.3***	±30	None	Associated results not used; dilution analysis performed for other analytes
Dibromochloromethane	***-34.9***	±30	None	Associated results not used; dilution analysis performed for other analytes
CCV 10/24/11, 10:49				
1,1,1-Trichloroethane	***-41.1***	±30	None	Associated results not used; dilution analysis performed for other analytes
Bromodichloromethane	***-38.8***	±30	None	Associated results not used; dilution analysis performed for other analytes
Dibromochloromethane	***-43.6***	±30	None	Associated results not used; dilution analysis performed for other analytes
Bromoform	***-42.3***	±30	None	Associated results not used; dilution analysis performed for other analytes
Naphthalene	***34.9***	±30	None	Compound not included on target analyte list

Corrective Action: As stated in the case narrative, the standard response in the CCV for bromodichloromethane (10/21/11) was above the acceptance limit, and the associated results may be biased high. All associated results were non-detect, so flagging was not deemed necessary or appropriate. For the remaining exceedances, results were not reported from the affected compounds, as the associated analyses were dilutions performed for the quantification of other compounds.

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID ALCS1UG-102111					
(all samples associated)					

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS: 1,4-dioxane*	***188***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND
LCS: Isopropyl alcohol*	***143***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND
LCS: Methyl Isobutyl Ketone*	***190***	70-130	60-140	None	%Rec greater than upper control limit and all associated results ND
LCS ID ALCS1UG-102211					
(associated samples 774776CA01AD 1:10, 1:40, and 1:90 only)					
LCS: 1,1,1-Trichloroethane	***139***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: 1,2-Dichloropropane	***131***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Bromodichloromethane*	***132***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Carbon tetrachloride	***156***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Dibromochloromethane*	***143***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS ID ALCS1UG-102411					
(associated samples 774776CA01AC 1:180 only)					
LCS: 1,1,1-Trichloroethane	***161***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: 1,1,2,2-Tetrachloroethane	***146***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: 1,2-Dibromoethane	***139***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: 1,2-Dichloropropane	***151***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: 1,4-dioxane*	***151***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Bromodichloromethane*	***150***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Bromoform*	***141***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Carbon tetrachloride	***153***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Dibromochloromethane*	***144***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Methyl Butyl Ketone*	***189***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each

AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: For all compounds listed above, results were not reported from the affected compounds, as the associated analyses were dilutions performed for the quantification of other compounds. No flagging and/or corrective action was deemed necessary.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but only two LCS's with exceedances of compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30% (see table below). The AFCEE QAPP requires that the second source calibration verification be within control limits.

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
ALCS1UG-102211				
1,1,1-Trichloroethane	***39***	±30	None	%D > upper control limit, all results ND
1,2-Dichloropropane	***31***	±30	None	%D > upper control limit, all results ND
Carbon tetrachloride	***56***	±30	None	%D > upper control limit, all results ND
ALCS1UG-102411				
1,1,1-Trichloroethane	***61***	±30	None	%D > upper control limit, all results ND
1,1,2,2-Tetrachloroethane	***46***	±30	None	%D > upper control limit, all results ND
1,2-Dibromoethane	***39***	±30	None	Within AFCEE control limits
1,2-Dichloropropane	***51***	±30	None	%D > upper control limit, all results ND
Carbon tetrachloride	***53***	±30	None	%D > upper control limit, all results ND

Corrective Action: Since all associated results were non-detect and the exceedance indicated a high bias, using professional judgment, no further corrective action was deemed necessary. As stated in the case narrative, if results continue to be outside established limits, then the system would be recalibrated.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1110030 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2630

15-Nov-11

SHIPPED TO:

Company:	FPM
Contact:	Katrina Mattice
Address:	584 Phoenix Drive Rome, NY 13441
Phone:	(315) 336-7721
Quote ID:	0
Project:	

Submitted By:

Ship Date:	10/12/2011
VIA:	FedEx
Due Date:	10/13/2011

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	3

Can / Reg ID	Description
86	1L Mini-Can - 1091
275	1L Mini-Can - 7259
333	1L Mini-Can - 1296

Comments: 2 1L w/QG + 1 TRIP BLANKWAC 100511 A,B,E

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Acetone	130	54		ppbV	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Benzene	0.13	0.15	F-d	ppbV	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloroform	0.73	0.15		ppbV	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

EWS 12/9/11

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 11	15	1.5		ppbV	10	10/22/2011 6:05:00 PM
Freon 113	0.14	0.15	F,J	ppbV	1	10/21/2011 11:07:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:07:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	100	54		ppbV	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	0.34	0.15		ppbV	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	200	27		ppbV	180	10/24/2011 1:59:00 PM
Toluene	0.25	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Trichloroethene	120	27		ppbV	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:07:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/21/2011 11:07:00 PM

12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.9	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:07:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:07:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Acetone	300	130		ug/m3	180	10/24/2011 1:59:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:07:00 PM
Benzene	0.42	0.49	FJ	ug/m3	1	10/21/2011 11:07:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:07:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:07:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:07:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:07:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:07:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:07:00 PM
Chloroform	3.6	0.74		ug/m3	1	10/21/2011 11:07:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:07:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:07:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Freon 11	83	8.6		ug/m3	10	10/22/2011 6:05:00 PM
Freon 113	1.1	1.2	FJ	ug/m3	1	10/21/2011 11:07:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:07:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

AM 12/9/11

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AC
Lab Order:	C1110030	**Tag Number:**	86
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:07:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:07:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:07:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:07:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl Ethyl Ketone	300	160		ug/m3	180	10/24/2011 1:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:07:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:07:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:07:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:07:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:07:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:07:00 PM
Tetrachloroethylene	2.3	1.0		ug/m3	1	10/21/2011 11:07:00 PM
Tetrahydrofuran	600	81		ug/m3	180	10/24/2011 1:59:00 PM
Toluene	0.96	0.57		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:07:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:07:00 PM
Trichloroethene	670	150		ug/m3	180	10/24/2011 1:59:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:07:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:07:00 PM

CLK 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.1	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Acetone	180	27		ppbV	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzene	0.22	0.15		ppbV	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloroform	1.0	0.15		ppbV	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/21/2011 11:39:00 PM

CAH 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Ethylbenzene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 11	10	1.5		ppbV	10	10/22/2011 7:11:00 PM
Freon 113	0.13	0.15	F	ppbV	1	10/21/2011 11:39:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Freon 12	1.2	0.15		ppbV	1	10/21/2011 11:39:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	130	27		ppbV	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	1.7	0.15		ppbV	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	260	14		ppbV	90	10/22/2011 8:17:00 PM
Toluene	0.36	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Trichloroethene	220	14		ppbV	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/21/2011 11:39:00 PM
Surr: Bromofluorobenzene	96.0	70-130		%REC	1	10/21/2011 11:39:00 PM

cvt 12/9/11

Qualifiers:					
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.1	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/21/2011 11:39:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/21/2011 11:39:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Acetone	440	65		ug/m3	90	10/22/2011 8:17:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/21/2011 11:39:00 PM
Benzene	0.71	0.49		ug/m3	1	10/21/2011 11:39:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/21/2011 11:39:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/21/2011 11:39:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/21/2011 11:39:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/21/2011 11:39:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/21/2011 11:39:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/21/2011 11:39:00 PM
Chloroform	5.0	0.74		ug/m3	1	10/21/2011 11:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/21/2011 11:39:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/21/2011 11:39:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Freon 11	59	8.6		ug/m3	10	10/22/2011 7:11:00 PM
Freon 113	1.0	1.2	F-d	ug/m3	1	10/21/2011 11:39:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/21/2011 11:39:00 PM

abd 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AD
Lab Order:	C1110030	**Tag Number:**	333
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	6.1	0.75		ug/m3	1	10/21/2011 11:39:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/21/2011 11:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/21/2011 11:39:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/21/2011 11:39:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl Ethyl Ketone	400	81		ug/m3	90	10/22/2011 8:17:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/21/2011 11:39:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/21/2011 11:39:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/21/2011 11:39:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/21/2011 11:39:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/21/2011 11:39:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/21/2011 11:39:00 PM
Tetrachloroethylene	12	1.0		ug/m3	1	10/21/2011 11:39:00 PM
Tetrahydrofuran	770	42		ug/m3	90	10/22/2011 8:17:00 PM
Toluene	1.4	0.57		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/21/2011 11:39:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/21/2011 11:39:00 PM
Trichloroethene	1200	76		ug/m3	90	10/22/2011 8:17:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/21/2011 11:39:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/21/2011 11:39:00 PM

12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/17/2011
Lab Vacuum Out	-30			"Hg		10/17/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Acetone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/22/2011 12:11:00 AM

CAH 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 11	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Freon 12	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Heptane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Hexane	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Styrene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Toluene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/22/2011 12:11:00 AM
Surr: Bromofluorobenzene	73.0	70-130		%REC	1	10/22/2011 12:11:00 AM

CLA 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/22/2011 12:11:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/22/2011 12:11:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Acetone	< 0.72	0.72		ug/m3	1	10/22/2011 12:11:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/22/2011 12:11:00 AM
Benzene	< 0.49	0.49		ug/m3	1	10/22/2011 12:11:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/22/2011 12:11:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	10/22/2011 12:11:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/22/2011 12:11:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/22/2011 12:11:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/22/2011 12:11:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/22/2011 12:11:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	10/22/2011 12:11:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/22/2011 12:11:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/22/2011 12:11:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	10/22/2011 12:11:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	10/22/2011 12:11:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

dmt 12/9/11

Centek Laboratories, LLC

Date: *08-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1110030	**Tag Number:**	275
Project:	1000-08-17	**Collection Date:**	10/14/2011
Lab ID:	C1110030-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	10/22/2011 12:11:00 AM
Heptane	< 0.62	0.62		ug/m3	1	10/22/2011 12:11:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/22/2011 12:11:00 AM
Hexane	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/22/2011 12:11:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/22/2011 12:11:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/22/2011 12:11:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/22/2011 12:11:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/22/2011 12:11:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	10/22/2011 12:11:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/22/2011 12:11:00 AM
Styrene	< 0.65	0.65		ug/m3	1	10/22/2011 12:11:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/22/2011 12:11:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/22/2011 12:11:00 AM
Toluene	< 0.57	0.57		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/22/2011 12:11:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/22/2011 12:11:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/22/2011 12:11:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/22/2011 12:11:00 AM

CWS 11/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

FPM GROUP, LTD.
Data Verification and Usability Report
GRIFFISS AIR FORCE BASE
GRIFFISS SUBSLAB VAPOR MITIGATION SYSTEM
Site Griffiss AFB Buildings 774, 776, 785, 786
Contract No. FA8903-04-D-8687

FPM Project No. 1000-08-17

Centek Job # C1110054

Laboratory:	Centek Laboratories, LLC
Sample Matrix:	Soil gas
Number of Samples:	23
Analytical Protocol:	AFCEE QAPP, Version 4.0, with AFCEE-approved lab variances
Data Reviewer:	Connie van Hoesel
Sample Date:	October 21, 24-25, 2011

LIST OF DATA VERIFICATION SAMPLES

This verification report pertains to the following environmental samples and corresponding QC samples:

Sample ID	Date	Sample ID	Date
774VMP0101AC	10/21/11		
774VMP0201AC	10/21/11		
774VMP0301AC	10/21/11		
776VMP0101AC	10/21/11		
776VMP0201AC	10/21/11		
776VMP0301AC	10/21/11		
774IA1AF	10/21/11		
774776OA1FA	10/21/11		
776IA1EA	10/21/11		
785VMP0202AF	10/24/11		
785VMP0401AC	10/24/11		
785VMP0501AB	10/24/11		
786VMP0102AC	10/24/11		
786VMP0202AC	10/24/11		
786VMP0302AC	10/24/11		
785IA06	10/24/11		
785786OA02	10/24/11		
786IA05	10/24/11		
774776CA01AE	10/25/11		
774776CA02AC	10/25/11		
785786CA01AC	10/25/11		
785786CA02AC	10/25/11	TRIP BLANK	10/24/11

Notes:

Refer to attached chain-of-custody for detailed sampling information and sample specific analyses requested.
AC, AF, FA, EA, AB, AE – Primary environmental samples

DELIVERABLES

The data deliverable report was per requirements of the AFCEE QAPP 4.0 and approved variances. The report consisted of the following major sections: lab attachment letter, case narrative, chain-of-custody, lab qualifier definitions, analytical results (sheet 2) based on analytical batch, calibration summaries, method blank summaries, laboratory control sample summaries, matrix spike/matrix spike duplicate summaries, holding time forms, performance checks, surrogate and internal standard recoveries, as applicable.

ANALYTICAL METHODS

The analytical test methods and QA/QC requirements used for the water sample analysis were per methods as specified in the AFCEE Quality Assurance Project Plan, Version 4.0 and AFCEE approved laboratory variances. The analytical methods employed included the EPA Compendium Methods for toxic organics: Volatile Organic Compounds (VOC) by EPA method TO-15.

VERIFICATION GUIDANCE

The analytical work was performed by Severn Trent Laboratory in accordance with the Air Force Center for Environmental Excellence (AFCEE), Quality Assurance Project Plan (QAPP), Version 4.0, with AFCEE-approved laboratory variances. The data was verified according to the protocols and QC requirements of the respective analytical methods and of the QAPP Version 4.0. For data usability purposes all values were further evaluated, including positive and non-detect results that were qualified "Q" according to the QAPP. The data usability analysis was based on the reviewer's professional judgment and on an assessment of how this data would fare with respect to the method performance criteria for acceptance of data established by U.S. Environmental Protection Agency (USEPA) in Compendium Method TO-15, and the AFCEE QAPP, Version 4.0.

QA/QC CRITERIA

The following QA/QC criteria were reviewed, as applicable and available:

- Method detection limits and reporting limits (MDL, RL)
- Holding times, sample preservation and storage
- MS tune performance
- Initial and Continuing calibration summaries
- Second source calibration verification summary
- Method blanks
- Ambient, equipment, and trip blanks (as applicable)
- Field duplicate results
- Surrogate spike recoveries
- Internal standard areas counts and retention times

- Laboratory control samples (LCS)
- Results reported between MDL and RL (F-flag)
- Sample storage and preservation
- Data system printouts
- Qualitative and quantitative compound identification
- Chain-of-custody (COC)
- Case narrative and deliverables compliance

The items listed above were in compliance with AFCEE QAPP and USEPA criteria and protocols with exceptions discussed in the text below. The data have been verified according to the procedures outlined above and qualified accordingly.

GENERAL NOTES:

BLANKS

Whenever blanks, including method, ambient, equipment, and trip, contained low levels of contaminants (between MDL and RL), the laboratory and/or data validator qualified the subject results with an "F" flag. Since no qualification of associated field samples are required for blanks less than half the RL, no further action was taken in such instances.

REPORTING LIMIT

It should be noted that the "U" qualifier has been defined by the laboratory as the "compound was not detected above the *reporting limit*." AFCEE defines this qualifier as the compound was not detected above the *method detection limit*. The "U" qualifier as defined by the laboratory shall be retained for the purpose of consistency with previous soil vapor results.

In general, results less than the reporting limit were flagged "J" by the laboratory. However, these results were identified as detected but the quantitated amount was below the limit of quantitation (i.e., the reporting limit). An "F" flag, as defined by the AFCEE QAPP, was thus deemed the more appropriate qualifier for these results.

VOLATILE ORGANIC COMPOUNDS (VOC)

- According to the case narrative, in the following continuing calibration verification (CCV), analytes exhibited the following exceedances:

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
CCV 11/1/11, 1:49				
Methyl Isobutyl Ketone	***-112.8***	±30	None	%D > upper control limit, all results ND
Methyl Butyl Ketone	***-291.1***	±30	None	%D > upper control limit, all results ND

Corrective Action: As stated in the case narrative, the standard response in the CCV for these compounds (11/1/11) was above the acceptance limit, and the associated results may be biased high. All associated results were non-detect, so flagging was not deemed necessary or appropriate.

- Laboratory control samples (LCS) are samples spiked with all analytes of interest at known concentrations. The following table summarizes QC exceedances (**bold**) of the LCS analyses. The LCS ID, percent recovery, and QC limits are listed. For each LCS sample, the associated samples are also listed in the table.

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCS ID ALCS1UG-110111					
(all sample dilutions associated)					
LCS: Bromoform*	***150***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: Bromoform*	***137***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: 1,2,4-Trichlorobenzene*	***46.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: 1,3,5-Trimethylenzene	***69.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: 1,4-dioxane*	***27.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: 4-ethyltoluene*	***64.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Carbon tetrachloride	***157***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: Carbon tetrachloride	***160***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Dibromochloromethane*	***140***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: Dibromochloromethane*	***132***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCSD: Hexachloro-1,3-butadiene*	***49.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS: Methyl Butyl Ketone*	***156***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes

Spike Analytes	LCS %Rec	QC Limits	ME Limits	Flag Applied	Rationale
LCSD: Methyl Ethyl Ketone*	***37.0***	70-130	60-140	None	Associated results not used; dilution analysis performed for other analytes
LCS ID ALCS1UG-103111					
(associated samples 774776CA01AD 1:10, 1:40, and 1:90 only)					
LCSD: 1,2,4-Trichlorobenzene*	***48.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: 1,2,4-Trimethylenzene	***60.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: 1,3,5-Trimethylenzene	***59.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: 1,4-dioxane*	***60.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: 4-ethyltoluene*	***49.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: Hexachloro-1,3-butadiene*	***43.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: Methyl Butyl Ketone*	***49.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS
LCSD: Methyl Ethyl Ketone*	***56.0***	70-130	60-140	None	%Rec within AFCEE control limits in primary LCS

Note 1: The compounds listed with asterisks above are not listed in the AFCEE QAPP for Method TO-15. In all such cases, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range was assumed to be 70-130.

The LCS analyses are used to assess the overall laboratory performance pertaining to the analytical method. The QAPP includes method-specific QC acceptance criteria for the percent recovery of the spike compounds. However, the QAPP includes criteria for only a sub-set of the TO-15 analyte list; in the case of all other analytes, using professional judgment and consistent with the lab's methodology, the LCS QC acceptance range for percent recovery was assumed to be 70-130. The LCS results are used to evaluate each AFCEE analytical batch and to determine if the method is within control limits. When an LCS analyte is outside the acceptance limit, the laboratory shall perform corrective action. If the corrective action is ineffective in resolving the exceedance, then that analyte's results in all the associated samples are qualified. According to the QAPP, when the percent recovery (%Rec) is greater than the upper control limit, positive results are considered estimated (flagged "J"); and when the %Rec is less than the lower control limit, positive values are estimated (flagged "J") and non-detects are rejected (flagged "R"). Using professional judgment, the non-detect results may be considered usable, albeit estimated, and shall be flagged "UJ."

Corrective Action: There were several recovery exceedances in the LCSD (103111), but since all recoveries of these compounds in the associated primary LCS sample were within QC limits, no further corrective action was considered necessary.

It should also be noted that all of the results associated with exceedances in LCS/LCSD (110111) were not used since they were associated with dilutions performed for other compounds.

There were some exceedances of the RPD (30%) between the LCS and LCSD samples ALCS1UGD-103111, for the following compounds: 1,2,4-trichlorobenzene (55.6%), 1,2,4-

trimethylbenzene (38.9%), 1,3,5-trimethylbenzene (50.6%), 1,4-dioxane (47.1%), 4-ethyltoluene (62.0%), acetone (39.6%), hexachloro-1,3-butadiene (78.0%), isopropyl alcohol (33.3%), methyl butyl ketone (64.8%), and methyl ethyl ketone (49.7%); also in LCS and LCSD samples ALCS1UGD-110111, for the following compounds: 1,2,4-trichlorobenzene (52.8%), hexachloro-1,3-butadiene (62.0%), methyl butyl ketone (37.3%), methyl ethyl ketone (70.2%). No corrective action was deemed necessary for RPD exceedances alone. The laboratory was consulted regarding these exceedances: sample humidity and/or carbon dioxide content in recently analyzed samples can greatly affect the integrity of the LCSD analysis.

- Second source calibration verification analysis, which is basically a calibration standard obtained from a source (vendor) other than the one for the Initial calibration standard, is required to be run once per five-point Initial calibration. It is used to verify that the analytes' relative response factors (RRF) calculated from the Initial calibration runs is accurate. According to the lab, the second source calibration is the same as the laboratory control sample (LCS; it should be noted that LCSD samples were not used for this purpose). As discussed above, there were several laboratory control samples with exceedances, but only two LCS's with exceedances of compounds on the AFCEE QAPP TO-14A/TO-15 list with a percent difference (%D) value between the RRF of the Initial and Second source exceeding the AFCEE QAPP QC criteria of ±30% (see table below). The AFCEE QAPP requires that the second source calibration verification be within control limits.

Type of Calibration Exceedance Affected Analytes	%D/ %RSD	AFCEE QC Limit	Flag Applied	Rationale
ALCS1UG-110111				
Carbon tetrachloride	***57***	±30	None	%D > upper control limit, all results ND

Corrective Action: Since all associated results were non-detect and the exceedance indicated a high bias, using professional judgment, no further corrective action was deemed necessary. As stated in the case narrative, if results continue to be outside established limits, then the system would be recalibrated.

- Internal Standard (IS) performance criteria ensure that the GC/MS sensitivity and response are stable during every experimental run. Per the AFCEE QAPP, for Method TO-15 the internal standard area count must not vary by more than -40% to +40% from the associated continuing calibration standard. Also, per the QAPP, for Method TO-15 the retention time of the internal standard must not vary more than ±20 seconds from the associated continuing calibration standard. If these criteria are exceeded, the QAPP requires a mandatory re-analysis of samples analyzed while the system was malfunctioning, and all results for analytes associated with the deficient IS are qualified ("Q"), unless a matrix effect can be verified, in which case an "M" qualifier is applied. In such circumstances, the EPA National Functional Guidelines for Organic Data Review provide the following guidance: If the area count is outside the (-50% to +100%) range of the associated standard, all of the positive results for compounds quantitated using that IS are qualified as estimated ("J"); no action is taken for non-detects if IS area is > 100%, and all non-detects are qualified as estimated ("UJ") if IS area is < 50%. Non-detects are qualified as "R" if there is a severe loss of

sensitivity (< 25% of associated IS area counts). Also, if an internal standard retention time varies by more than 30 seconds, the reviewer will use professional judgment to determine either partial or total rejection of the data for that sample fraction. **Proposed approach**: In this data verification, for data usability purposes, the data qualifiers will be applied following the EPA National Functional Guidance [estimate ("J") for positives if area count is outside of allowed ±40% range, no action for non-detects if IS area > + 40%, estimate ("UJ") for non-detects if IS area < - 40%, reject ("R") for non-detects if IS area is < -75%, and use professional judgment if retention time varies by more than 20 seconds].

The following are the assessment results for the "internal standards performance" criterion (the Sample ID and IS area counts are listed) for samples exhibiting exceedance (***bold italic***) [no retention time exceedances were encountered during this sampling round and NOTE: Samples with no exceedances are not listed below]:

	IS1 (BCM)	IS2 (DFB)	IS3 (CBZ)
12 Hour Std. (10/31/11)	20531	57419	56959
Upper Limit (+40%)	28743	80387	79743
Lower Limit (-40%)	12319	34451	34175
Severe loss of sensitivity (< -75%)*	5133	14355	14240
SAMPLE ID			
776VMP0301AC (1:10)	18121	37405	***33832***
774776CA02AC (1:5)	17110	38155	***31802***

IS1 (BCM) =Bromochloromethane; IS2 (DFB) =1,4-Difluorobenzene; IS3 (CBZ) = Chlorobenzene-d5
Area count: Upper Limit = +40% and Lower Limit = -40% of internal standard

Corrective Action: The exceedances for internal standard chlorobenzene-d5 are not associated with the analytes for which the dilutions were performed; therefore, no flagging was deemed necessary.

DATA USABILITY RESULTS

VOCs

Based on the evaluation of all information in the analytical data groups, the results of all the samples for VOCs are highly usable with the data validation qualifiers as noted. Using the validation approach as presented above, the results for all samples in this analytical batch are 100% usable [i.e., all results are usable when the results from dilution samples are transferred to the original sample results]. The AFCEE QAPP minimum requirement for completeness (for aqueous samples, but will be applied here for vapor samples) is 95%, which is exceeded in this analytical batch.

AFCEE SUMMARY

All data in Job # C1110054 are usable, which can be used with qualifications as noted in the data review.

Signed: _Concordia van Hoesel___ Date: ___12/12/2011_____

ATTACHMENTS

- Laboratory's Case Narrative
- Chain-of-Custody
- Definition of AFCEE Data Validation Qualifiers
- Definition of USEPA Data Validation Qualifiers
- Qualified final data verification results on annotated Lab Sheet 2s

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

SHIPPED TO:

Company:	FPM	**Submitted By:**	
Contact:	Katrina Mattice		
Address:	584 Phoenix Drive		
	Rome, NY 13441	**Ship Date:**	10/19/2011
Phone:	(315) 336-7721	**VIA:**	FedEx
Quote ID:	0	**Due Date:**	10/21/2011
Project:			

Bottle Code	Bottle Type	TEST(s)	QTY
201	1L Mini-Can - 1156		
362	1L Mini-Can - 1311		
420	1L Mini-Can - 1344		
431	1L Mini-Can - 1358		
494	1L Mini-Can - 1386		
58	Time-Set Reg - 539		
82	Time-Set Reg		
106	1L Mini-Can - 1056		

Comments: (23) 1L as follows: (12) @ 5mins, (6) @ 12hours, (4) w/ quick grabs, (1) trip blank WAC 101811A-E, 100611A-D, 092811 K-L

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Acetone	7.6	3.0		ppbV	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Cyclohexane	0.70	0.15		ppbV	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.21	0.25	J	ppbV	1	10/31/2011 8:24:00 PM

Qualifiers:			
	**	Reporting Limit	. Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	

ccd 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 11	0.35	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 8:24:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	1.1	0.15		ppbV	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	0.58	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Methylene chloride	0.13	0.15	F	ppbV	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Toluene	0.56	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Trichloroethene	0.67	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:24:00 PM
Surr: Bromofluorobenzene	95.0	70-130		%REC	1	10/31/2011 8:24:00 PM

CLA 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:24:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:24:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:24:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Acetone	18	7.2		ug/m3	10	11/1/2011 4:59:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:24:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:24:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:24:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:24:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:24:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 8:24:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:24:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:24:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 8:24:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Cyclohexane	2.4	0.52		ug/m3	1	10/31/2011 8:24:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Ethyl acetate	0.77	0.92	FJ	ug/m3	1	10/31/2011 8:24:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Freon 11	2.0	0.86		ug/m3	1	10/31/2011 8:24:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:24:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0101AC
Lab Order:	C1110054	**Tag Number:**	362,82
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 8:24:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 8:24:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:24:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Isopropyl alcohol	2.8	0.37		ug/m3	1	10/31/2011 8:24:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Ethyl Ketone	1.7	0.90		ug/m3	1	10/31/2011 8:24:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:24:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:24:00 PM
Methylene chloride	0.46	0.53	Fd	ug/m3	1	10/31/2011 8:24:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:24:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:24:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:24:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:24:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:24:00 PM
Toluene	2.1	0.57		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:24:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:24:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:24:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:24:00 PM

CWA 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	F,J	ppbV	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Acetone	4.6	1.5		ppbV	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Chloroform	0.14	0.15	F,J	ppbV	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Cyclohexane	1.0	0.15		ppbV	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 8:56:00 PM

adt 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 11	0.39	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Freon 12	0.41	0.15		ppbV	1	10/31/2011 8:56:00 PM
Heptane	1.5	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	0.97	0.15		ppbV	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.12	0.30	F.d	ppbV	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Toluene	0.36	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Trichloroethene	2.1	0.75		ppbV	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 8:56:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 8:56:00 PM

Cwd 12/1/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	FJ	ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 8:56:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 8:56:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 8:56:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Acetone	11	3.6		ug/m3	5	11/1/2011 5:30:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 8:56:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 8:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 8:56:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 8:56:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 8:56:00 PM
Carbon tetrachloride	< 0.98	0.98		ug/m3	1	10/31/2011 8:56:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 8:56:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 8:56:00 PM
Chloroform	0.69	0.74	FJ	ug/m3	1	10/31/2011 8:56:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Cyclohexane	3.5	0.52		ug/m3	1	10/31/2011 8:56:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 8:56:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 8:56:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Freon 11	2.2	0.86		ug/m3	1	10/31/2011 8:56:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 8:56:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/19/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0201AC
Lab Order:	C1110054	**Tag Number:**	286,58
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.1	0.75		ug/m3	1	10/31/2011 8:56:00 PM
Heptane	6.2	0.62		ug/m3	1	10/31/2011 8:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 8:56:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Isopropyl alcohol	2.4	0.37		ug/m3	1	10/31/2011 8:56:00 PM
m&p-Xylene	0.53	1.3	F	ug/m3	1	10/31/2011 8:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 8:56:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 8:56:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 8:56:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 8:56:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 8:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 8:56:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 8:56:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 8:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 8:56:00 PM
Toluene	1.4	0.57		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 8:56:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 8:56:00 PM
Trichloroethene	11	4.1		ug/m3	5	11/1/2011 5:30:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 8:56:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 8:56:00 PM

cwh 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.19	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Acetone	4.8	3.0		ppbV	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Benzene	0.12	0.15	F-d	ppbV	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 9:29:00 PM

12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 11	1.7	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 9:29:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
m&p-Xylene	0.27	0.30	F-S	ppbV	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Toluene	0.57	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Trichloroethene	0.55	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 9:29:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/31/2011 9:29:00 PM

12/6/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
1,2,4-Trimethylbenzene	0.95	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 9:29:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 9:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Acetone	12	7.2		ug/m3	10	11/1/2011 6:02:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 9:29:00 PM
Benzene	0.39	0.49	F-d	ug/m3	1	10/31/2011 9:29:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 9:29:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 9:29:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 9:29:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 9:29:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 9:29:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 9:29:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 9:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 9:29:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 9:29:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 9:29:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Freon 11	9.5	0.86		ug/m3	1	10/31/2011 9:29:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 9:29:00 PM

ark 21/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774VMP0301AC
Lab Order:	C1110054	**Tag Number:**	406,66
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 9:29:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 9:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 9:29:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 9:29:00 PM
m&p-Xylene	1.2	1.3	F	ug/m3	1	10/31/2011 9:29:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 9:29:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 9:29:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 9:29:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 9:29:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 9:29:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 9:29:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 9:29:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 9:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 9:29:00 PM
Toluene	2.2	0.57		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 9:29:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 9:29:00 PM
Trichloroethene	3.0	0.82		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 9:29:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 9:29:00 PM

CWA 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.10	0.15	F-J	ppbV	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Acetone	16	3.0		ppbV	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzene	0.40	0.15		ppbV	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.14	0.15	F-J	ppbV	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Cyclohexane	0.87	0.15		ppbV	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cwt 11/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 11	0.22	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Freon 12	0.43	0.15		ppbV	1	10/31/2011 10:02:00 PM
Heptane	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Hexane	0.54	0.15		ppbV	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	8.6	1.5		ppbV	10	11/1/2011 6:33:00 AM
m&p-Xylene	0.91	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	0.65	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Methylene chloride	0.13	0.15	F.d	ppbV	1	10/31/2011 10:02:00 PM
o-Xylene	0.24	0.15		ppbV	1	10/31/2011 10:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Styrene	0.13	0.15	F.d	ppbV	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:02:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 10:02:00 PM

WA 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM
2,2,4-trimethylpentane	0.47	0.71	F J	ug/m3	1	10/31/2011 10:02:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Acetone	39	7.2		ug/m3	10	11/1/2011 6:33:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:02:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 10:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:02:00 PM
Carbon disulfide	0.44	0.47	F J	ug/m3	1	10/31/2011 10:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 10:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Cyclohexane	3.0	0.52		ug/m3	1	10/31/2011 10:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:02:00 PM
Ethylbenzene	1.6	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 10:02:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0101AC
Lab Order:	C1110054	**Tag Number:**	371,126
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 10:02:00 PM
Heptane	1.0	0.82		ug/m3	1	10/31/2011 10:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:02:00 PM
Hexane	1.9	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 6:33:00 AM
m&p-Xylene	4.0	1.3		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Ethyl Ketone	1.9	0.90		ug/m3	1	10/31/2011 10:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:02:00 PM
Methylene chloride	0.46	0.53	F	ug/m3	1	10/31/2011 10:02:00 PM
o-Xylene	1.1	0.66		ug/m3	1	10/31/2011 10:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:02:00 PM
Styrene	0.56	0.65	F	ug/m3	1	10/31/2011 10:02:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 10:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:02:00 PM
Toluene	6.1	0.57		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:02:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:02:00 PM

dda 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	E-J	ppbV	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Acetone	19	3.0		ppbV	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzene	0.45	0.15		ppbV	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.12	0.15	F-J	ppbV	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.11	0.15	F-J	ppbV	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Cyclohexane	2.4	0.15		ppbV	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 10:35:00 PM

ads 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.32	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 11	0.28	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Freon 12	0.52	0.15		ppbV	1	10/31/2011 10:35:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	13	1.5		ppbV	10	11/1/2011 7:04:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	1.3	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 10:35:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Styrene	0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	1.1	0.15		ppbV	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Toluene	1.8	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Trichloroethene	0.68	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 10:35:00 PM
Surr: Bromofluorobenzene	105	70-130		%REC	1	10/31/2011 10:35:00 PM

cwt 12/19/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	F	ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 10:35:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 10:35:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Acetone	45	7.2		ug/m3	10	11/1/2011 7:04:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 10:35:00 PM
Benzene	1.5	0.49		ug/m3	1	10/31/2011 10:35:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 10:35:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 10:35:00 PM
Carbon disulfide	0.38	0.47	F	ug/m3	1	10/31/2011 10:35:00 PM
Carbon tetrachloride	0.70	0.96	F	ug/m3	1	10/31/2011 10:35:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 10:35:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 10:35:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 10:35:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Cyclohexane	8.5	0.52		ug/m3	1	10/31/2011 10:35:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 10:35:00 PM
Ethylbenzene	1.4	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Freon 11	1.6	0.86		ug/m3	1	10/31/2011 10:35:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 10:35:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0201AC
Lab Order:	C1110054	**Tag Number:**	367,144
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 10:35:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 10:35:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 10:35:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Isopropyl alcohol	31	3.7		ug/m3	10	11/1/2011 7:04:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Ethyl Ketone	3.9	0.90		ug/m3	1	10/31/2011 10:35:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 10:35:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 10:35:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 10:35:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 10:35:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 10:35:00 PM
Styrene	0.65	0.65		ug/m3	1	10/31/2011 10:35:00 PM
Tetrachloroethylene	7.4	1.0		ug/m3	1	10/31/2011 10:35:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 10:35:00 PM
Toluene	6.9	0.57		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 10:35:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 10:35:00 PM
Trichloroethene	3.7	0.82		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 10:35:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 10:35:00 PM

ws 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.10	0.15	F J	ppbV	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Acetone	24	3.0		ppbV	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzene	0.32	0.15		ppbV	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.20	0.15		ppbV	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.11	0.15	F J	ppbV	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloroform	0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Cyclohexane	1.4	0.15		ppbV	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:08:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cwlt 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 11	0.27	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:08:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	8.4	1.5		ppbV	10	11/1/2011 7:37:00 AM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	0.74	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:08:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Styrene	0.13	0.15	F.d	ppbV	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Toluene	0.66	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Trichloroethene	1.3	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:08:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:08:00 PM

CLA 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
1,2,4-Trimethylbenzene	0.50	0.75	F	ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:08:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 11:08:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Acetone	58	7.2		ug/m3	10	11/1/2011 7:37:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:08:00 PM
Benzene	1.0	0.49		ug/m3	1	10/31/2011 11:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:08:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:08:00 PM
Carbon disulfide	0.63	0.47		ug/m3	1	10/31/2011 11:08:00 PM
Carbon tetrachloride	0.70	0.96	F	ug/m3	1	10/31/2011 11:08:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:08:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:08:00 PM
Chloroform	0.74	0.74		ug/m3	1	10/31/2011 11:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Cyclohexane	4.8	0.52		ug/m3	1	10/31/2011 11:08:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:08:00 PM
Ethylbenzene	1.2	0.66		ug/m3	1	10/31/2011 11:08:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:08:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:08:00 PM

12/1/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776VMP0301AC
Lab Order:	C1110054	**Tag Number:**	358,44
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:08:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 11:08:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:08:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Isopropyl alcohol	21	3.7		ug/m3	10	11/1/2011 7:37:00 AM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Ethyl Ketone	2.2	0.90		ug/m3	1	10/31/2011 11:08:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:08:00 PM
Methyl tert-butyl ether	< 0.56	0.56		ug/m3	1	10/31/2011 11:08:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:08:00 PM
o-Xylene	0.71	0.86		ug/m3	1	10/31/2011 11:08:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:08:00 PM
Styrene	0.56	0.55	F J	ug/m3	1	10/31/2011 11:08:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:08:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:08:00 PM
Toluene	2.5	0.57		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:08:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:08:00 PM
Trichloroethene	7.3	0.82		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:08:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:08:00 PM

Acd 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	Fd	ppbV	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Acetone	7.8	1.5		ppbV	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

ws 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 11	0.74	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Freon 12	0.48	0.15		ppbV	1	10/31/2011 1:04:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	4.0	0.75		ppbV	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Toluene	0.34	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Trichloroethene	0.16	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:04:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	10/31/2011 1:04:00 PM

CLK 12/19/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:04:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:04:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Acetone	19	3.6		ug/m3	5	10/31/2011 4:39:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:04:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:04:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:04:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:04:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:04:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:04:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:04:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:04:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:04:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:04:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:04:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:04:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Freon 11	4.2	0.86		ug/m3	1	10/31/2011 1:04:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:04:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/6/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774IA1AF
Lab Order:	C1110054	**Tag Number:**	174,174
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.4	0.75		ug/m3	1	10/31/2011 1:04:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:04:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:04:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Isopropyl alcohol	9.9	1.9		ug/m3	5	10/31/2011 4:39:00 PM
m&p-Xylene	0.57	1.3	F-J	ug/m3	1	10/31/2011 1:04:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:04:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:04:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:04:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 1:04:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 1:04:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:04:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:04:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:04:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:04:00 PM
Toluene	1.3	0.57		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:04:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:04:00 PM
Trichloroethene	0.87	0.82		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:04:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:04:00 PM

CWA 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	F d	ppbV	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Acetone	2.8	1.5		ppbV	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Chloromethane	0.36	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.24	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Freon 12	0.50	0.15		ppbV	1	10/31/2011 1:38:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	0.48	0.15		ppbV	1	10/31/2011 1:38:00 PM
m&p-Xylene	0.62	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Methylene chloride	0.16	0.15		ppbV	1	10/31/2011 1:38:00 PM
o-Xylene	0.22	0.15		ppbV	1	10/31/2011 1:38:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Toluene	0.92	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Trichloroethene	0.11	0.15	FV	ppbV	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 1:38:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	10/31/2011 1:38:00 PM

ABA 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	F	ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 1:38:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 1:38:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Acetone	6.8	3.6		ug/m3	5	10/31/2011 5:11:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 1:38:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 1:38:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 1:38:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 1:38:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 1:38:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 1:38:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 1:38:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 1:38:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 1:38:00 PM
Chloromethane	0.76	0.31		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 1:38:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 1:38:00 PM
Ethylbenzene	1.1	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 1:38:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 1:38:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776OA1FA
Lab Order:	C1110054	**Tag Number:**	474,310
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-008A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	10/31/2011 1:38:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 1:38:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 1:38:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Isopropyl alcohol	1.2	0.37		ug/m3	1	10/31/2011 1:38:00 PM
m&p-Xylene	2.7	1.3		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 1:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 1:38:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 1:38:00 PM
Methylene chloride	0.56	0.53		ug/m3	1	10/31/2011 1:38:00 PM
o-Xylene	0.97	0.66		ug/m3	1	10/31/2011 1:38:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 1:38:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 1:38:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 1:38:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 1:38:00 PM
Toluene	3.5	0.57		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 1:38:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 1:38:00 PM
Trichloroethene	0.60	0.82	F	ug/m3	1	10/31/2011 1:38:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 1:38:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 1:38:00 PM

CW 12/6/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Acetone	12	1.5		ppbV	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzene	0.42	0.15		ppbV	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Chloroform	0.11	0.15	F	ppbV	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

CWA 12/19/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 2:11:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	14	0.75		ppbV	5	10/31/2011 5:43:00 PM
m&p-Xylene	0.66	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
o-Xylene	0.20	0.15		ppbV	1	10/31/2011 2:11:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Styrene	0.19	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Trichloroethene	0.18	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:11:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	10/31/2011 2:11:00 PM

cdd 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
1,2,4-Trimethylbenzene	0.85	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:11:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 2:11:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Acetone	30	3.6		ug/m3	5	10/31/2011 5:43:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:11:00 PM
Benzene	1.4	0.49		ug/m3	1	10/31/2011 2:11:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:11:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:11:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:11:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:11:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:11:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:11:00 PM
Chloroform	0.55	0.74	FJ	ug/m3	1	10/31/2011 2:11:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:11:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:11:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:11:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:11:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	776IA1EA
Lab Order:	C1110054	**Tag Number:**	165,394
Project:	1000-08-17	**Collection Date:**	10/21/2011
Lab ID:	C1110054-009A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 2:11:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 2:11:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:11:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Isopropyl alcohol	35	1.9		ug/m3	5	10/31/2011 5:43:00 PM
m&p-Xylene	2.9	1.3		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:11:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:11:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:11:00 PM
o-Xylene	0.88	0.66		ug/m3	1	10/31/2011 2:11:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:11:00 PM
Styrene	0.82	0.65		ug/m3	1	10/31/2011 2:11:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 2:11:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:11:00 PM
Toluene	3.9	0.57		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:11:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:11:00 PM
Trichloroethene	0.98	0.82		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:11:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:11:00 PM

Cust 12/10/11

Qualifiers:	**	Reporting Limit	. Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Acetone	1.3	0.30		ppbV	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzene	0.67	0.15		ppbV	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.11	0.15	F	ppbV	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Cyclohexane	0.55	0.15		ppbV	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 11:40:00 PM

12/10/11

Qualifiers:	** Reporting Limit	.	Results reported are not blank corrected
	B Analyte detected in the associated Method Blank	E	Value above quantitation range
	H Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 11	0.26	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Freon 12	0.51	0.15		ppbV	1	10/31/2011 11:40:00 PM
Heptane	0.43	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Hexane	1.7	0.15		ppbV	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
m&p-Xylene	0.53	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
o-Xylene	0.16	0.15		ppbV	1	10/31/2011 11:40:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Toluene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Trichloroethene	1.6	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 11:40:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/31/2011 11:40:00 PM

CLK 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 11:40:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 11:40:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM
2,2,4-trimethylpentane	1.2	0.71		ug/m3	1	10/31/2011 11:40:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Acetone	3.2	0.72		ug/m3	1	10/31/2011 11:40:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 11:40:00 PM
Benzene	2.2	0.49		ug/m3	1	10/31/2011 11:40:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 11:40:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 11:40:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 11:40:00 PM
Carbon tetrachloride	0.70	0.96	F	ug/m3	1	10/31/2011 11:40:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 11:40:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 11:40:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 11:40:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Cyclohexane	1.9	0.52		ug/m3	1	10/31/2011 11:40:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 11:40:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/31/2011 11:40:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 11:40:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0202AF
Lab Order:	C1110054	**Tag Number:**	325,48
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-010A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	10/31/2011 11:40:00 PM
Heptane	1.8	0.62		ug/m3	1	10/31/2011 11:40:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 11:40:00 PM
Hexane	6.1	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 11:40:00 PM
m&p-Xylene	2.3	1.3		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 11:40:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 11:40:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 11:40:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 11:40:00 PM
o-Xylene	0.71	0.66		ug/m3	1	10/31/2011 11:40:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 11:40:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 11:40:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 11:40:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 11:40:00 PM
Toluene	6.2	0.57		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 11:40:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 11:40:00 PM
Trichloroethene	8.9	0.82		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 11:40:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 11:40:00 PM

Cust 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	0.37	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.10	0.15	F-J	ppbV	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	0.82	0.15		ppbV	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.17	0.15		ppbV	1	11/1/2011 12:12:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Benzene	2.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon disulfide	2.9	1.5		ppbV	10	11/1/2011 4:02:00 PM
Carbon disulfide	2.2	0.15		ppbV	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Cyclohexane	2.3	1.5		ppbV	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

12/1/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:12:00 AM
Ethylbenzene	1.1	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 11	0.23	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Freon 12	0.49	0.15		ppbV	1	11/1/2011 12:12:00 AM
Heptane	2.0	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Hexane	3.7	1.5		ppbV	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.25	0.15		ppbV	1	11/1/2011 12:12:00 AM
m&p-Xylene	3.1	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
o-Xylene	0.64	0.15		ppbV	1	11/1/2011 12:12:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	11	0.15		ppbV	1	11/1/2011 12:12:00 AM
Toluene	8.6	1.5		ppbV	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Trichloroethene	6.0	1.5		ppbV	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:12:00 AM
Surr: Bromofluorobenzene	107	70-130		%REC	1	11/1/2011 12:12:00 AM

12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
1,2,4-Trimethylbenzene	1.8	0.75		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:12:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
1,3,5-Trimethylbenzene	0.60	0.75	f	ug/m3	1	11/1/2011 12:12:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:12:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
2,2,4-trimethylpentane	3.9	0.71		ug/m3	1	11/1/2011 12:12:00 AM
4-ethyltoluene	0.85	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 12:12:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:12:00 AM
Benzene	8.4	4.9		ug/m3	10	11/1/2011 4:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:12:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:12:00 AM
Carbon disulfide	9.2	4.7		ug/m3	10	11/1/2011 4:02:00 PM
Carbon disulfide	6.9	0.47		ug/m3	1	11/1/2011 12:12:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:12:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:12:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:12:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 12:12:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Cyclohexane	8.0	5.2		ug/m3	10	11/1/2011 4:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:12:00 AM
Ethylbenzene	4.9	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Freon 11	1.3	0.86		ug/m3	1	11/1/2011 12:12:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

CWS 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0401AC
Lab Order:	C1110054	**Tag Number:**	201,404
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-011A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:12:00 AM
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:12:00 AM
Heptane	8.2	0.62		ug/m3	1	11/1/2011 12:12:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:12:00 AM
Hexane	13	5.4		ug/m3	10	11/1/2011 4:02:00 PM
Isopropyl alcohol	0.62	0.37		ug/m3	1	11/1/2011 12:12:00 AM
m&p-Xylene	14	1.3		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:12:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:12:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:12:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:12:00 AM
o-Xylene	2.8	0.66		ug/m3	1	11/1/2011 12:12:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:12:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:12:00 AM
Tetrachloroethylene	1.0	1.0		ug/m3	1	11/1/2011 12:12:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	42	0.57		ug/m3	1	11/1/2011 12:12:00 AM
Toluene	33	5.7		ug/m3	10	11/1/2011 4:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:12:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:12:00 AM
Trichloroethene	33	8.2		ug/m3	10	11/1/2011 4:02:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:12:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:12:00 AM

aut 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	0.30	0.15		ppbV	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzene	0.79	0.15		ppbV	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloroform	0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Cyclohexane	0.82	0.15		ppbV	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.36	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 11	0.40	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Freon 12	0.50	0.15		ppbV	1	11/1/2011 12:44:00 AM
Heptane	0.45	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
m&p-Xylene	1.3	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
o-Xylene	0.33	0.15		ppbV	1	11/1/2011 12:44:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Toluene	1.9	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 12:44:00 AM
Surr: Bromofluorobenzene	88.0	70-130		%REC	1	11/1/2011 12:44:00 AM

cust 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	1.8	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 12:44:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 12:44:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 12:44:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 12:44:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 12:44:00 AM
Benzene	2.6	0.49		ug/m3	1	11/1/2011 12:44:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 12:44:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 12:44:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 12:44:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 12:44:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 12:44:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 12:44:00 AM
Chloroform	0.74	0.74		ug/m3	1	11/1/2011 12:44:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Cyclohexane	2.9	0.52		ug/m3	1	11/1/2011 12:44:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 12:44:00 AM
Ethylbenzene	1.6	0.66		ug/m3	1	11/1/2011 12:44:00 AM
Freon 11	2.3	0.86		ug/m3	1	11/1/2011 12:44:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 12:44:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785VMP0501AB
Lab Order:	C1110054	**Tag Number:**	206,51
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-012A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.5	0.75		ug/m3	1	11/1/2011 12:44:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 12:44:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 12:44:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 12:44:00 AM
m&p-Xylene	5.8	1.3		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 12:44:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 12:44:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 12:44:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 12:44:00 AM
o-Xylene	1.5	0.86		ug/m3	1	11/1/2011 12:44:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 12:44:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 12:44:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 12:44:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 12:44:00 AM
Toluene	7.4	0.57		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 12:44:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 12:44:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 4:35:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 12:44:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 12:44:00 AM

clist 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	0.25	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	0.81	0.15		ppbV	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.13	0.15	F	ppbV	1	11/1/2011 1:16:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Benzene	2.8	1.5		ppbV	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.11	0.15	F	ppbV	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Cyclohexane	1.6	0.15		ppbV	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

2/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.71	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 11	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 113	0.10	0.15	F	ppbV	1	11/1/2011 1:16:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Heptane	1.9	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Hexane	4.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
m&p-Xylene	2.4	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
o-Xylene	0.46	0.15		ppbV	1	11/1/2011 1:16:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	0.29	0.15		ppbV	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Toluene	7.6	1.5		ppbV	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Trichloroethene	9.0	1.5		ppbV	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:16:00 AM
Surr: Bromofluorobenzene	83.0	70-130		%REC	1	11/1/2011 1:16:00 AM

CMA 12/19/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
1,2,4-Trimethylbenzene	1.2	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:16:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:16:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM
2,2,4-trimethylpentane	3.8	0.71		ug/m3	1	11/1/2011 1:16:00 AM
4-ethyltoluene	0.65	0.75	F d	ug/m3	1	11/1/2011 1:16:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:16:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:16:00 AM
Benzene	9.1	4.9		ug/m3	10	11/1/2011 5:08:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:16:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:16:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 1:16:00 AM
Carbon tetrachloride	0.70	0.96	F d	ug/m3	1	11/1/2011 1:16:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:16:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:16:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 1:16:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Cyclohexane	5.7	0.52		ug/m3	1	11/1/2011 1:16:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:16:00 AM
Ethylbenzene	3.1	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Freon 11	2.6	0.86		ug/m3	1	11/1/2011 1:16:00 AM
Freon 113	0.78	1.2	F d	ug/m3	1	11/1/2011 1:16:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:16:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Cwt 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0102AC
Lab Order:	C1110054	**Tag Number:**	420,67
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-013A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 1:16:00 AM
Heptane	8.1	0.62		ug/m3	1	11/1/2011 1:16:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:16:00 AM
Hexane	16	5.4		ug/m3	10	11/1/2011 5:08:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:16:00 AM
m&p-Xylene	11	1.3		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:16:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:16:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:16:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 1:16:00 AM
o-Xylene	2.0	0.66		ug/m3	1	11/1/2011 1:16:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:16:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:16:00 AM
Tetrachloroethylene	2.0	1.0		ug/m3	1	11/1/2011 1:16:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:16:00 AM
Toluene	29	5.7		ug/m3	10	11/1/2011 5:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:16:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:16:00 AM
Trichloroethene	49	8.2		ug/m3	10	11/1/2011 5:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 1:16:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:16:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:16:00 AM

12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.66	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	0.33	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	F J	ppbV	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	0.28	0.15		ppbV	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.11	0.15	F J	ppbV	1	11/1/2011 1:48:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzene	0.69	0.15		ppbV	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromodichloromethane	0.25	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.13	0.15	F J	ppbV	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Chloroform	15	1.5		ppbV	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.62	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 11	0.24	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 113	0.14	0.15	E,J	ppbV	1	11/1/2011 1:48:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Freon 12	0.45	0.15		ppbV	1	11/1/2011 1:48:00 AM
Heptane	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
m&p-Xylene	2.2	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Methylene chloride	0.71	0.15		ppbV	1	11/1/2011 1:48:00 AM
o-Xylene	0.47	0.15		ppbV	1	11/1/2011 1:48:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	0.42	0.15		ppbV	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Toluene	2.9	1.5		ppbV	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Trichloroethene	26	1.5		ppbV	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 1:48:00 AM
Surr: Bromofluorobenzene	104	70-130		%REC	1	11/1/2011 1:48:00 AM

12/10/11

Qualifiers:

- ****** Reporting Limit
- **B** Analyte detected in the associated Method Blank
- **H** Holding times for preparation or analysis exceeded
- **JN** Non-routine analyte. Quantitation estimated.
- **S** Spike Recovery outside accepted recovery limits
- **.** Results reported are not blank corrected
- **E** Value above quantitation range
- **J** Analyte detected at or below quantitation limits
- **ND** Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	3.7	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 1:48:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
1,2,4-Trimethylbenzene	1.6	0.75		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 1:48:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	F J	ug/m3	1	11/1/2011 1:48:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 1:48:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM
2,2,4-trimethylpentane	1.3	0.71		ug/m3	1	11/1/2011 1:48:00 AM
4-ethyltoluene	0.55	0.75	F J	ug/m3	1	11/1/2011 1:48:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 1:48:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 1:48:00 AM
Benzene	2.2	0.49		ug/m3	1	11/1/2011 1:48:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 1:48:00 AM
Bromodichloromethane	1.7	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 1:48:00 AM
Carbon disulfide	0.41	0.47	F J	ug/m3	1	11/1/2011 1:48:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 1:48:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 1:48:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 1:48:00 AM
Chloroform	72	7.4		ug/m3	10	11/1/2011 6:08:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 1:48:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 1:48:00 AM
Ethylbenzene	2.7	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Freon 11	1.4	0.86		ug/m3	1	11/1/2011 1:48:00 AM
Freon 113	1.1	1.2	F J	ug/m3	1	11/1/2011 1:48:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 1:48:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CMS 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0202AC
Lab Order:	C1110054	**Tag Number:**	431,78
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-014A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.3	0.75		ug/m3	1	11/1/2011 1:48:00 AM
Heptane	1.7	0.62		ug/m3	1	11/1/2011 1:48:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 1:48:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 1:48:00 AM
m&p-Xylene	9.9	1.3		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 1:48:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 1:48:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 1:48:00 AM
Methylene chloride	2.5	0.53		ug/m3	1	11/1/2011 1:48:00 AM
o-Xylene	2.1	0.66		ug/m3	1	11/1/2011 1:48:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 1:48:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 1:48:00 AM
Tetrachloroethylene	2.9	1.0		ug/m3	1	11/1/2011 1:48:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 1:48:00 AM
Toluene	11	5.7		ug/m3	10	11/1/2011 6:08:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 1:48:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 1:48:00 AM
Trichloroethene	140	8.2		ug/m3	10	11/1/2011 6:08:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 1:48:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 1:48:00 AM

12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.16	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	0.29	0.15		ppbV	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Acetone	1.8	0.30		ppbV	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzene	1.3	0.15		ppbV	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.10	0.15	F d	ppbV	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.25	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Freon 12	0.51	0.15		ppbV	1	11/1/2011 2:21:00 AM
Heptane	0.46	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Hexane	1.9	0.15		ppbV	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
m&p-Xylene	0.77	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
o-Xylene	0.19	0.15		ppbV	1	11/1/2011 2:21:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	0.22	0.15		ppbV	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Toluene	2.0	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Trichloroethene	4.3	1.5		ppbV	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:21:00 AM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	11/1/2011 2:21:00 AM

Cust 12/16/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
1,2,4-Trimethylbenzene	0.80	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:21:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:21:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM
2,2,4-trimethylpentane	1.4	0.71		ug/m3	1	11/1/2011 2:21:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Acetone	4.3	0.72		ug/m3	1	11/1/2011 2:21:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:21:00 AM
Benzene	4.2	0.49		ug/m3	1	11/1/2011 2:21:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:21:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:21:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:21:00 AM
Carbon tetrachloride	0.64	0.96	F	ug/m3	1	11/1/2011 2:21:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:21:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:21:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 2:21:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:21:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:21:00 AM
Ethylbenzene	1.1	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 2:21:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:21:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cwt 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786VMP0302AC
Lab Order:	C1110054	**Tag Number:**	494,60
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-015A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.6	0.75		ug/m3	1	11/1/2011 2:21:00 AM
Heptane	1.9	0.62		ug/m3	1	11/1/2011 2:21:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:21:00 AM
Hexane	6.8	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:21:00 AM
m&p-Xylene	3.4	1.3		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 2:21:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:21:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:21:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:21:00 AM
o-Xylene	0.84	0.66		ug/m3	1	11/1/2011 2:21:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:21:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:21:00 AM
Tetrachloroethylene	1.5	1.0		ug/m3	1	11/1/2011 2:21:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 2:21:00 AM
Toluene	7.7	0.57		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:21:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:21:00 AM
Trichloroethene	23	8.2		ug/m3	10	11/1/2011 6:40:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:21:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:21:00 AM

Cert 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.11	0.15	f	ppbV	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Acetone	4.6	1.5		ppbV	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloroform	0.95	0.15		ppbV	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 2:43:00 PM

AK 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 11	0.23	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Freon 12	0.45	0.15		ppbV	1	10/31/2011 2:43:00 PM
Heptane	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Hexane	0.65	0.15		ppbV	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
m&p-Xylene	0.55	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
o-Xylene	0.17	0.15		ppbV	1	10/31/2011 2:43:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	3.1	0.75		ppbV	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Toluene	1.0	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 2:43:00 PM
Surr: Bromofluorobenzene	102	70-130		%REC	1	10/31/2011 2:43:00 PM

cwt 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785IA06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 2:43:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 2:43:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM
2,2,4-trimethylpentane	0.52	0.71	F-d	ug/m3	1	10/31/2011 2:43:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Acetone	11	3.6		ug/m3	5	10/31/2011 6:15:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 2:43:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 2:43:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 2:43:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 2:43:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 2:43:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 2:43:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 2:43:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 2:43:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 2:43:00 PM
Chloroform	4.7	0.74		ug/m3	1	10/31/2011 2:43:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 2:43:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 2:43:00 PM
Ethylbenzene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Freon 11	1.3	0.86		ug/m3	1	10/31/2011 2:43:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 2:43:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CM 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	7851A06
Lab Order:	C1110054	**Tag Number:**	335,143
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-016A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.3	0.75		ug/m3	1	10/31/2011 2:43:00 PM
Heptane	0.71	0.62		ug/m3	1	10/31/2011 2:43:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 2:43:00 PM
Hexane	2.3	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 2:43:00 PM
m&p-Xylene	2.4	1.3		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 2:43:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 2:43:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 2:43:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 2:43:00 PM
o-Xylene	0.75	0.66		ug/m3	1	10/31/2011 2:43:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 2:43:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 2:43:00 PM
Tetrachloroethylene	21	5.2		ug/m3	5	10/31/2011 6:15:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 2:43:00 PM
Toluene	4.0	0.57		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 2:43:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 2:43:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 2:43:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 2:43:00 PM

cvd 12/6/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-7			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	0.52	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.16	0.15		ppbV	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.13	0.15	F	ppbV	1	10/31/2011 3:16:00 PM
Acetone	5.1	1.5		ppbV	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzene	0.55	0.15		ppbV	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:16:00 PM

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.30	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 11	0.24	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Freon 12	0.44	0.15		ppbV	1	10/31/2011 3:16:00 PM
Heptane	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Hexane	1.1	0.15		ppbV	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	0.89	0.15		ppbV	1	10/31/2011 3:16:00 PM
m&p-Xylene	0.98	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Methylene chloride	0.36	0.15		ppbV	1	10/31/2011 3:16:00 PM
o-Xylene	0.29	0.15		ppbV	1	10/31/2011 3:16:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Toluene	1.9	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Trichloroethene	0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:16:00 PM
Surr: Bromofluorobenzene	107	70-130		%REC	1	10/31/2011 3:16:00 PM

out 12/10/11

Qualifiers:	**	Reporting Limit	. Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits	

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
1,2,4-Trimethylbenzene	2.6	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:16:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:16:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:16:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM
2,2,4-trimethylpentane	0.76	0.71		ug/m3	1	10/31/2011 3:16:00 PM
4-ethyltoluene	0.65	0.75	F J	ug/m3	1	10/31/2011 3:16:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 6:47:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:16:00 PM
Benzene	1.8	0.49		ug/m3	1	10/31/2011 3:16:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:16:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:16:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:16:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:16:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:16:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:16:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:16:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 3:16:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:16:00 PM
Ethylbenzene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Freon 11	1.4	0.86		ug/m3	1	10/31/2011 3:16:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:16:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786OA02
Lab Order:	C1110054	**Tag Number:**	496,438
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-017A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.2	0.75		ug/m3	1	10/31/2011 3:16:00 PM
Heptane	1.2	0.62		ug/m3	1	10/31/2011 3:16:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:16:00 PM
Hexane	3.8	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Isopropyl alcohol	2.2	0.37		ug/m3	1	10/31/2011 3:16:00 PM
m&p-Xylene	4.3	1.3		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:16:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:16:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:16:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	10/31/2011 3:16:00 PM
o-Xylene	1.3	0.66		ug/m3	1	10/31/2011 3:16:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:16:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:16:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:16:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:16:00 PM
Toluene	7.2	0.57		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:16:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:16:00 PM
Trichloroethene	0.82	0.82		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:16:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:16:00 PM

CLH 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.12	0.15	F	ppbV	1	10/31/2011 3:49:00 PM
Acetone	5.2	1.5		ppbV	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzene	0.39	0.15		ppbV	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Cyclohexane	0.50	0.15		ppbV	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.41	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 11	0.20	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Freon 12	0.40	0.15		ppbV	1	10/31/2011 3:49:00 PM
Heptane	0.23	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Hexane	0.73	0.15		ppbV	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	1.2	0.15		ppbV	1	10/31/2011 3:49:00 PM
m&p-Xylene	1.4	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
o-Xylene	0.38	0.15		ppbV	1	10/31/2011 3:49:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Toluene	2.4	0.75		ppbV	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 3:49:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	10/31/2011 3:49:00 PM

12/10/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
1,2,4-Trimethylbenzene	1.9	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 3:49:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 3:49:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 3:49:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 3:49:00 PM
4-ethyltoluene	0.60	0.75	F	ug/m3	1	10/31/2011 3:49:00 PM
Acetone	12	3.6		ug/m3	5	10/31/2011 7:18:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 3:49:00 PM
Benzene	1.3	0.49		ug/m3	1	10/31/2011 3:49:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 3:49:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 3:49:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 3:49:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 3:49:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 3:49:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 3:49:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 3:49:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Cyclohexane	1.7	0.52		ug/m3	1	10/31/2011 3:49:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 3:49:00 PM
Ethylbenzene	1.8	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Freon 11	1.1	0.86		ug/m3	1	10/31/2011 3:49:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 3:49:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

CWA 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	786IA05
Lab Order:	C1110054	**Tag Number:**	161,452
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-018A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	2.0	0.75		ug/m3	1	10/31/2011 3:49:00 PM
Heptane	0.86	0.62		ug/m3	1	10/31/2011 3:49:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 3:49:00 PM
Hexane	2.6	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Isopropyl alcohol	3.0	0.37		ug/m3	1	10/31/2011 3:49:00 PM
m&p-Xylene	6.2	1.3		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 3:49:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 3:49:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 3:49:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 3:49:00 PM
o-Xylene	1.7	0.66		ug/m3	1	10/31/2011 3:49:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 3:49:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 3:49:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 3:49:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 3:49:00 PM
Toluene	9.4	2.9		ug/m3	5	10/31/2011 7:18:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 3:49:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 3:49:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 3:49:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 3:49:00 PM

12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.2	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	0.34	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.11	0.15	F.J	ppbV	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Acetone	11	3.0		ppbV	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzene	0.30	0.15		ppbV	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloroform	0.93	0.15		ppbV	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

CWA 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 11	8.5	1.5		ppbV	10	11/1/2011 8:10:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Freon 12	1.3	0.15		ppbV	1	11/1/2011 2:53:00 AM
Heptane	0.21	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
m&p-Xylene	0.54	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	5.1	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
o-Xylene	0.23	0.15		ppbV	1	11/1/2011 2:53:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	0.51	0.15		ppbV	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	1.7	0.15		ppbV	1	11/1/2011 2:53:00 AM
Toluene	0.58	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Trichloroethene	120	14		ppbV	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 2:53:00 AM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	11/1/2011 2:53:00 AM

cwt 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.5	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
1,2,4-Trimethylbenzene	1.7	0.75		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 2:53:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
1,3,5-Trimethylbenzene	0.55	0.75	F	ug/m3	1	11/1/2011 2:53:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 2:53:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 2:53:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Acetone	27	7.2		ug/m3	10	11/1/2011 8:10:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 2:53:00 AM
Benzene	0.97	0.49		ug/m3	1	11/1/2011 2:53:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 2:53:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 2:53:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 2:53:00 AM
Carbon tetrachloride	0.96	0.96		ug/m3	1	11/1/2011 2:53:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 2:53:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 2:53:00 AM
Chloroform	4.6	0.74		ug/m3	1	11/1/2011 2:53:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 2:53:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 2:53:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Freon 11	49	8.6		ug/m3	10	11/1/2011 8:10:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 2:53:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

cdt 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA01AE
Lab Order:	C1110054	**Tag Number:**	324
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-019A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	6.4	0.75		ug/m3	1	11/1/2011 2:53:00 AM
Heptane	0.87	0.62		ug/m3	1	11/1/2011 2:53:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 2:53:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 2:53:00 AM
m&p-Xylene	2.4	1.3		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Ethyl Ketone	15	0.90		ug/m3	1	11/1/2011 2:53:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 2:53:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 2:53:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 2:53:00 AM
o-Xylene	1.0	0.66		ug/m3	1	11/1/2011 2:53:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 2:53:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 2:53:00 AM
Tetrachloroethylene	3.5	1.0		ug/m3	1	11/1/2011 2:53:00 AM
Tetrahydrofuran	5.2	0.45		ug/m3	1	11/1/2011 2:53:00 AM
Toluene	2.2	0.57		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 2:53:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 2:53:00 AM
Trichloroethene	650	76		ug/m3	90	11/1/2011 8:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 2:53:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 2:53:00 AM

12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Acetone	4.5	1.5		ppbV	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:25:00 AM

mt 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 11	4.5	0.75		ppbV	5	11/1/2011 9:14:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Freon 12	1.5	0.15		ppbV	1	11/1/2011 3:25:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
m&p-Xylene	0.23	0.30	F	ppbV	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	4.3	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Toluene	0.27	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:25:00 AM
Surr: Bromofluorobenzene	102	70-130		%REC	1	11/1/2011 3:25:00 AM

cwt 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:25:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 3:25:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Acetone	11	3.6		ug/m3	5	11/1/2011 9:14:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:25:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:25:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:25:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:25:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:25:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:25:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:25:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:25:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 3:25:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:25:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:25:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:25:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Freon 11	26	4.3		ug/m3	5	11/1/2011 9:14:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:25:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	774776CA02AC
Lab Order:	C1110054	**Tag Number:**	136
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-020A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	7.3	0.75		ug/m3	1	11/1/2011 3:25:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 3:25:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:25:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:25:00 AM
m&p-Xylene	1.0	1.3	F	ug/m3	1	11/1/2011 3:25:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Ethyl Ketone	13	0.90		ug/m3	1	11/1/2011 3:25:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:25:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:25:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:25:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	11/1/2011 3:25:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:25:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:25:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 3:25:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:25:00 AM
Toluene	1.0	0.57		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:25:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:25:00 AM
Trichloroethene	< 0.82	0.82		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:25:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:25:00 AM

cdt 12/9/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.29	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	0.57	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	6.9	1.5		ppbV	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloroform	1.6	0.15		ppbV	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	0.74	0.15		ppbV	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Cust 12/9/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.38	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 11	0.26	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Heptane	6.3	1.5		ppbV	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
m&p-Xylene	1.4	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
o-Xylene	0.42	0.15		ppbV	1	11/1/2011 3:56:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	10	1.5		ppbV	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Toluene	1.0	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Trichloroethene	140	40		ppbV	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 3:56:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 3:56:00 AM

cwd 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected	
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range	
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits	
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit	
	S	Spike Recovery outside accepted recovery limits			

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.6	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
1,2,4-Trimethylbenzene	2.8	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 3:56:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 3:56:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM
2,2,4-trimethylpentane	33	7.1		ug/m3	10	11/1/2011 3:29:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 3:56:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 3:56:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 3:56:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 3:56:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 3:56:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 3:56:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 3:56:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 3:56:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 3:56:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 3:56:00 AM
Chloroform	7.8	0.74		ug/m3	1	11/1/2011 3:56:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,2-Dichloroethene	3.0	0.60		ug/m3	1	11/1/2011 3:56:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 3:56:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 3:56:00 AM
Ethylbenzene	1.7	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Freon 11	1.5	0.86		ug/m3	1	11/1/2011 3:56:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 3:56:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA01AC
Lab Order:	C1110054	**Tag Number:**	457
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-021A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 3:56:00 AM
Heptane	26	6.2		ug/m3	10	11/1/2011 3:29:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 3:56:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 3:56:00 AM
m&p-Xylene	6.0	1.3		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 3:56:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 3:56:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 3:56:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 3:56:00 AM
o-Xylene	1.9	0.66		ug/m3	1	11/1/2011 3:56:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 3:56:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 3:56:00 AM
Tetrachloroethylene	72	10		ug/m3	10	11/1/2011 3:29:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 3:56:00 AM
Toluene	3.8	0.57		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 3:56:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 3:56:00 AM
Trichloroethene	740	220		ug/m3	270	11/1/2011 8:18:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 3:56:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 3:56:00 AM

Cltd 12/10/11

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	0.28	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Acetone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromoform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloroform	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.25	0.25		ppbV	1	11/1/2011 4:27:00 AM

CWA 12/10/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 11	0.18	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 113	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 114	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Freon 12	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Heptane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Hexane	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
m&p-Xylene	0.58	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
o-Xylene	0.17	0.15		ppbV	1	11/1/2011 4:27:00 AM
Propylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Styrene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Toluene	0.50	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Trichloroethene	0.12	0.15	F,J	ppbV	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	11/1/2011 4:27:00 AM
Surr: Bromofluorobenzene	105	70-130		%REC	1	11/1/2011 4:27:00 AM

CLA 12/10/11

Qualifiers:

- ** Reporting Limit
- B Analyte detected in the associated Method Blank
- H Holding times for preparation or analysis exceeded
- JN Non-routine analyte. Quantitation estimated.
- S Spike Recovery outside accepted recovery limits
- . Results reported are not blank corrected
- E Value above quantitation range
- J Analyte detected at or below quantitation limits
- ND Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
1,2,4-Trimethylbenzene	1.4	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	11/1/2011 4:27:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	11/1/2011 4:27:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Acetone	< 0.72	0.72		ug/m3	1	11/1/2011 4:27:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	11/1/2011 4:27:00 AM
Benzene	< 0.49	0.49		ug/m3	1	11/1/2011 4:27:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	11/1/2011 4:27:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	11/1/2011 4:27:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	11/1/2011 4:27:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	11/1/2011 4:27:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	11/1/2011 4:27:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	11/1/2011 4:27:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	11/1/2011 4:27:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	11/1/2011 4:27:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	11/1/2011 4:27:00 AM
Ethylbenzene	0.79	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Freon 11	1.0	0.86		ug/m3	1	11/1/2011 4:27:00 AM
Freon 113	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	11/1/2011 4:27:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	785786CA02AC
Lab Order:	C1110054	**Tag Number:**	471
Project:	1000-08-17	**Collection Date:**	10/25/2011
Lab ID:	C1110054-022A	**Matrix:**	

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	11/1/2011 4:27:00 AM
Heptane	< 0.62	0.62		ug/m3	1	11/1/2011 4:27:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	11/1/2011 4:27:00 AM
Hexane	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	11/1/2011 4:27:00 AM
m&p-Xylene	2.6	1.3		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	11/1/2011 4:27:00 AM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	11/1/2011 4:27:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	11/1/2011 4:27:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	11/1/2011 4:27:00 AM
o-Xylene	0.75	0.66		ug/m3	1	11/1/2011 4:27:00 AM
Propylene	< 0.26	0.26		ug/m3	1	11/1/2011 4:27:00 AM
Styrene	< 0.65	0.65		ug/m3	1	11/1/2011 4:27:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	11/1/2011 4:27:00 AM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	11/1/2011 4:27:00 AM
Toluene	1.9	0.57		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	11/1/2011 4:27:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	11/1/2011 4:27:00 AM
Trichloroethene	0.66	0.82	F J	ug/m3	1	11/1/2011 4:27:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	11/1/2011 4:27:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	11/1/2011 4:27:00 AM

CMT 12/10/11

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/26/2011
Lab Vacuum Out	-30			"Hg		10/26/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Cust 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/31/2011 12:27:00 PM
Surr: Bromofluorobenzene	87.0	70-130		%REC	1	10/31/2011 12:27:00 PM

CWS 12/10/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/31/2011 12:27:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/31/2011 12:27:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/31/2011 12:27:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/31/2011 12:27:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/31/2011 12:27:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/31/2011 12:27:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/31/2011 12:27:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/31/2011 12:27:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/31/2011 12:27:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/31/2011 12:27:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/31/2011 12:27:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/31/2011 12:27:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/31/2011 12:27:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/31/2011 12:27:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/31/2011 12:27:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/31/2011 12:27:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

dwt 12/10/11

Centek Laboratories, LLC

Date: *21-Nov-11*

CLIENT:	FPM	**Client Sample ID:**	Trip Blank
Lab Order:	C1110054	**Tag Number:**	215
Project:	1000-08-17	**Collection Date:**	10/24/2011
Lab ID:	C1110054-023A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	10/31/2011 12:27:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/31/2011 12:27:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/31/2011 12:27:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/31/2011 12:27:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/31/2011 12:27:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/31/2011 12:27:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/31/2011 12:27:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/31/2011 12:27:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/31/2011 12:27:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/31/2011 12:27:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/31/2011 12:27:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/31/2011 12:27:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/31/2011 12:27:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/31/2011 12:27:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/31/2011 12:27:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/31/2011 12:27:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/31/2011 12:27:00 PM

Cert 12/9/11

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Appendix F
Operation and Maintenance
Field Forms and Manuals

SOIL GAS SAMPLING FORM

Project: _____ Sampled by: _____

Location and Site Code (**SITEID**): _____

Well No. (**LOCID**): _____

Date (**LOGDATE**): _____ Weather: _____

FIELD MEASUREMENTS:

Time	**O_2 (%)**	**CO_2 (%)**	**PID (ppb)**

Sample Time: _____ Sample ID: _____

Container # _____

SSVM Vapor Monitoring Point Vacuum Measurements

Date:				
conducted by:				
Site ID:			Patm (inch hg):	
Vacuum Gauge:	Vacuum (inch w.g.)	Magnehelic Gauge:	Differential Pressure (inch w.g.)	Temperature (Deg F)
well 1		well 1		
well 2		well 2		
well 3		well 3		
Blower Temp (deg F)		After Cooler Temp (deg F)		
Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)



Schrader Environmental Services, Inc.
215 S Pine River
Ithaca, MI 48847

Operation & Maintenance Manual

Building 774 and 776 SSVM System
Griffiss Business and Technology Park
Rome, NY 13441

Table of Contents

Section 1: Major System Components

- Regenerative Blower
- Knockout Tank
- Air Filtration
- Vacuum Relief Valve
- Discharge Silencer

Section 2: System Drawing

- System Layout Drawing

Section 3: Instrumentation

- High Level Control Switch
- Vacuum Gauges
- Temperature Gauges
- Pitot Tube Flow Sensor
- Differential Pressure Gauge

Section 4: Control Panel

- Electrical Schematics

Buildings 774 and 776 Bill of Materials

System Component	Characteristics
Blower TEFC 15 HP electric motor (ROTRON® Model DR909BE72W)	Maximum flow: 600 SCFM, Maximum Vacuum: 106 inch w.g.
50 gallon Moisture Knockout Vessel High Level Alarm Switch (Flow Line® LC05)	Required to avoid moisture impact on blower. When moisture knockout vessel reaches maximum volume, high level alarm switch is initiated. Equipped with manual bottom drain.
Inline Particulate Filter (Solberg® Model CT-235P 4" NPT)	An inlet filter is required to avoid the negative impact of soil particles present in the extracted vapor.
Air Dilution Ball Valve (Dilution Filter 0.010 inch slotted PVC)	An air dilution valve is required to adjust the systems applied vacuum.
Vacuum Relief Valve (Kunkle® Model 215V)	A vacuum relief valve is required to avoid damage to the blower in the event the flow is obstructed.
Discharge Silencer (Universal® Silencer Model #U5-4)	A silencer is needed to mitigate the noise impact of the blower on the surroundings.
Horizontal Well Manifold (4 inch PVC)	Three point manifold with individual ball valves to control flow rate and vacuum per each horizontal well.
Gauges: Analog Dial Bimetal Thermometers, WIKA® Low Vacuum Gauges, Magnehelic® Differential Pressure Gauges, Pitot Tubes (Series DS-300 Flow Sensors)	Outlet temperature gauge before and after vapor treatment, inlet vacuum gauge before and after filter, and three flow meters, vacuum gauges and temperature gauges on each leg of manifold.
Control Panel	Fused disconnect, input voltage: 208V, 3 phase power, HOA switch, motor overload and starter, motor fault light, high fault light, high level shut down relay.
Vapor After Treatment	Two air purification canisters (G3-S) with 140-pounds granular activated carbon installed to treat vapor extracted from the soil.
Heat Exchanger (ACA® Model 6422-3)	Air cooled heat exchanger creates optimal influent temperatures for efficient absorption through granular activated carbon treatment.
Enclosure: wooden shed, 8ft X 8ft T-111 sided, wooden floor, asphalt shingle. Heater: 1,800 watt electric heater with thermostat. Exhaust Fan: manual inlet louver and exhaust fan with thermostat.	System will be located outside of office building, and needs to be enclosed with lights, heater, exhaust fan, insulation, and outlet.



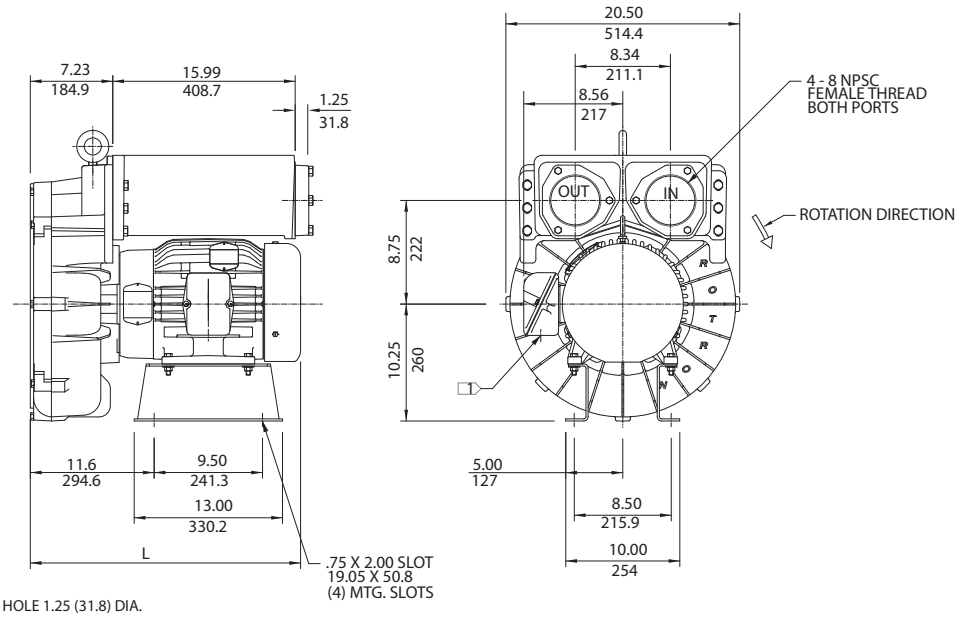
Section 1:

Major System Components

DR 909 & CP 909

ROTRON®

10.0 / 15.0 HP Regenerative Blower



IN
MM

NOTES
1. TERMINAL BOX CONNECTOR HOLE 1.25 (31.8) DIA.
2. DRAWING NOT TO SCALE, CONTACT FACTORY FOR SCALE CAD DRAWING.
3. CONTACT FACTORY FOR BLOWER MODEL LENGTHS NOT SHOWN.

MODEL	L(IN/MM)
DR909BE72W	23.57/598.7
DR909BB72W	23.38/593.8

		Part/Model Number					
		DR909BE72W	DR909BE86W	DR909BB72W	DR909BB86W	CP909FJ72WLR	HiE909BE72W
Specification	**Units**	**081737**	**081739**	**081738**	**081744**	**038632**	**081735**
Motor Enclosure - Shaft Mtl.	-	TEFC-CS	TEFC-CS	TEFC-CS	TEFC-CS	Chem TEFC-SS	TEFC-CS
Horsepower	-	15	15	10	10	15	10
Voltage	AC	208-230/460	575	230/460	575	208-230/460	208-230/460
Phase - Frequency	-	Three-60 hz	Three-60 hz	Three - 60 Hz	Three-60 hz	Three-60 hz	Three-60 hz
Insulation Class	-	F	F	F	F	F	F
NEMA Rated Motor Amps	Amps (A)	41.5-37.6/18.8	14.6	26/13	10.5	41.5-37.6/18.8	41.5-37.6/18.8
Service Factor	-	1.15	1.15	1.15	1.15	1.15	1.15
Max. Blower Amps	Amps (A)	42/21	17	34/17	13.0	42/21	42/21
Locked Rotor Amps	Amps (A)	318/159	164	162/81	65	318/159	318/159
NEMA Starter Size	-	2/2	2	2/1	1	2/2	2/2
Shipping Weight	Lbs	400	400	400	400	400	400
	Kg	181.4	181.4	181.4	181.4	181.4	181.4
Model (Base Mount)	-	DR909BE72X	DR909BE86X	DR909BB72X	DR909BB86X		
Part Number (Base Mount)	-	038622	038626	038623	080183		

Voltage - ROTRON motors are designed to handle a broad range of world voltages and power supply variations. Our dual voltage 3 phase motors are factory tested and certified to operate on both: **208-230/415-460 VAC-3 ph-60 Hz** and **190-208/380-415 VAC-3 ph-50 Hz**. Our dual voltage 1 phase motors are factory tested and certified to operate on both: **104-115/208-230 VAC-1 ph-60 Hz** and **100-110/200-220 VAC-1 ph-50 Hz**. All voltages above can handle a ±10% voltage fluctuation. Special wound motors can be ordered for voltages outside our certified range.

Operating Temperatures - Maximum operating temperature: Motor winding temperature (winding rise plus ambient) should not exceed 140°C for Class F rated motors or 120°C for Class B rated motors. Blower outlet air temperature should not exceed 140°C (air temperature rise plus inlet temperature). Performance curve maximum pressure and suction points are based on a 40°C inlet and ambient temperature. Consult factory for inlet or ambient temperatures above 40°C.

Maximum Blower Amps - Corresponds to the performance point at which the motor or blower temperature rise with a 40°C inlet and/or ambient temperature reaches the maximum operating temperature.

This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Sales department.

AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
75 North Street, Saugerties, NY 12477
USA: +1 215-256-6601 - Europe: +44 (0) 845 366 9664 - Asia: +86 21 5763 1258
Customer Service Fax: +1 215.256.1338
www.ametektip.com

Industrial / Chemical Processing Blowers

DR 909 & CP 909

ROTRON®

10.0 / 15.0 HP Regenerative Blower

FEATURES

- Manufactured in the USA - ISO 9001 and NAFTA compliant
- CE compliant - Declaration of Conformity on file
- Maximum flow: 600 SCFM
- Maximum pressure: 137 IWG
- Maximum vacuum: 106 IWG
- Standard motor: 15 HP, TEFC
- Cast aluminum blower housing, impeller & cover; cast iron flanges (threaded)
- UL & CSA approved motor with permanently sealed ball bearings
- Inlet & outlet internal muffling
- Quiet operation within OSHA standards when properly piped and muffled



MOTOR OPTIONS

- International voltage & frequency (Hz)
- Chemical duty, high efficiency, inverter duty or industry-specific designs
- Various horsepowers for application-specific needs

BLOWER OPTIONS

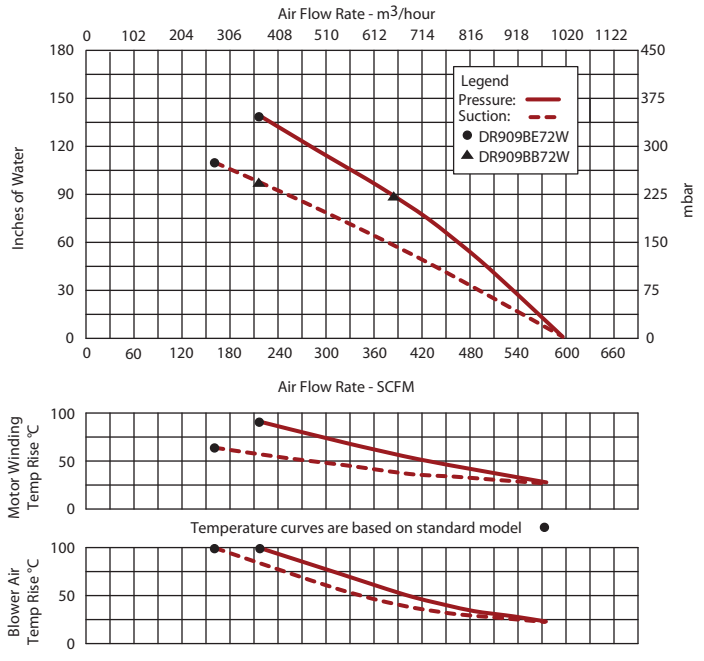
- Corrosion resistant surface treatments & sealing options
- Remote drive (motorless) models
- Slip-on or face flanges for application-specific needs

ACCESSORIES

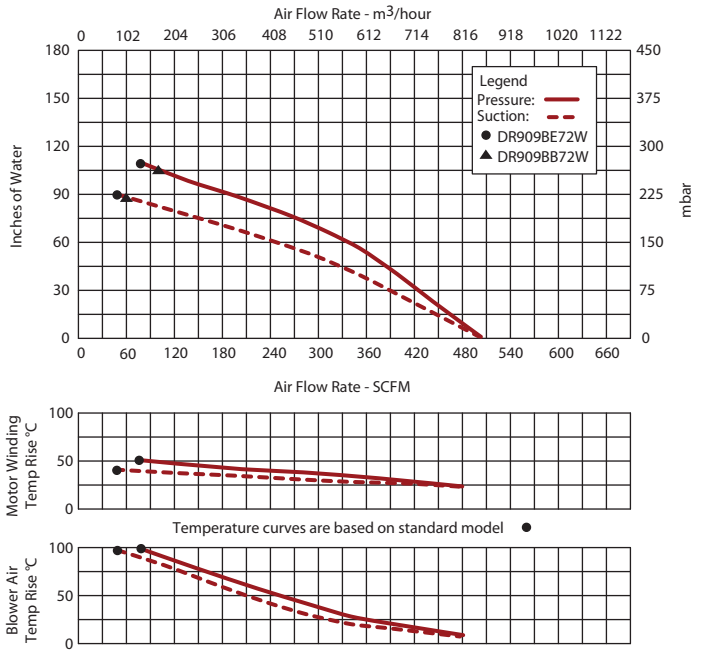
- Flowmeters reading in SCFM
- Filters & moisture separators
- Pressure gauges, vacuum gauges, & relief valves
- Switches - air flow, pressure, vacuum, or temperature
- External mufflers for additional silencing
- Air knives (used on blow-off applications)
- Variable frequency drive package

Blower Performance at Standard Conditions

60 Hz



50 Hz



This document is for informational purposes only and should not be considered as a binding description of the products or their performance in all applications. The performance data on this page depicts typical performance under controlled laboratory conditions. AMETEK is not responsible for blowers driven beyond factory specified speed, temperature, pressure, flow or without proper alignment. Actual performance will vary depending on the operating environment and application. AMETEK products are not designed for and should not be used in medical life support applications. AMETEK reserves the right to revise its products without notification. The above characteristics represent standard products. For product designed to meet specific applications, contact AMETEK Technical & Industrial Products Sales department.

AMETEK TECHNICAL & INDUSTRIAL PRODUCTS
75 North Street, Saugerties, NY 12477
USA: +1 215-256-6601 - Europe: +44 (0) 845 366 9664 - Asia: +86 21 5763 1258
Customer Service Fax: +1 215.256.1338
www.ametektip.com

AMETEK®
TECHNICAL & INDUSTRIAL PRODUCTS

SERVICE AND PARTS MANUAL
FOR
BLOWER MODEL

EN6, EN858, EN909, EN979, EN14

DIRECT DRIVE REGENERATIVE BLOWER



AMETEK

Technical & Industrial Products
627 Lake Street, Kent, Ohio 44240 U.S.A.
Telephone: 330-673-3452 Fax: 330-677-3306
e-mail: rotronindustrial@ametek.com
internet: www.ametektip.com

Your Choice. Our Commitment.™

WARRANTY, INSTALLATION, MAINTENANCE AND TROUBLESHOOTING INSTRUCTIONS

TECHNICAL AND INDUSTRIAL PRODUCTS
627 Lake Street, Kent, Ohio 44240 USA
Telephone: 330-673-3452 Fax: 330-677-3306
e-mail: rotronindustrial@ametek.com web site: www.ametektip.com

1. AMETEK Rotron DR, EN and HiE regenerative direct drive blowers are guaranteed for one full year from the date of installation (limited to 18 months from the date of shipment) to the original purchaser only. Should the blower fail we will evaluate the failure If failure is determined to be workmanship or material defect related, we will at our option repair or replace the blower.

2. AMETEK Rotron Minispiral, Revaflow, Multiflow, Nautilair, remote drive blowers, moisture separators, packaged units, CP blowers, Nasty Gas™ models and special built (EO) products are guaranteed for one full year from date of shipment for workmanship and material defect to the original purchaser only. Should the blower fail, If failure is determined to be workmanship or material defect related, we will at our option repair or replace the blower.

3. **Parts Policy** - AMETEK Rotron spare parts and accessories are guaranteed for three months from date of shipment for workmanship and material defect to the original purchaser only. If failure is determined to be workmanship or material defect related we will at our option repair or replace the part.

Corrective Action - A written report will be provided indicating reason(s) for failure, with suggestions for corrective action. Subsequent customer failures due to abuse, misuse, misapplication or repeat offense will not be covered. AMETEK Rotron will then notify you of your options. Any failed unit that is tampered with by attempting repair or diagnosis will void the warranty, unless authorized by the factory.

Terms and Conditions - Our warranty covers repairs or replacement of regenerative blowers only, and will not cover labor for installation, outbound and inbound shipping costs, accessories or other items not considered integral blower parts. Charges may be incurred on products returned for reasons other than failures covered by their appropriate warranty. Out-of-warranty product and in warranty product returned for failures determined to be caused by abuse, misuse, or repeat offense will be subject to an evaluation charge. Maximum liability will in no case exceed the value of the product purchased. Damage resulting from mishandling during shipment is not covered by this warranty. It is the responsibility of the purchaser to file claims with the carrier. Other terms and conditions of sale are stated on the back of the order acknowledgement.

Installation Instructions for SL, DR, EN, CP, and HiE Series Blowers

1. **Bolt It Down** - Any blower must be secured against movement prior to starting or testing to prevent injury or damage. The blower does not vibrate much more than a standard electric motor.

2. **Filtration** - All blowers should be filtered prior to starting. Care must be taken so that no foreign material enters the blower. If foreign material does enter the blower, it could cause internal damage or may exit at extremely high velocity.

   Should excessive amounts of material pass through the blower, it is suggested that the cover(s) and impeller(s) be removed periodically and cleaned to avoid impeller imbalance. Impeller

imbalance greatly speeds bearing wear, thus reducing blower life. Disassembling the blower will void warranty, so contact the factory for cleaning authorization.

3. **Support the Piping** - The blower flanges and nozzles are designed as connection points only and are not designed to be support members.

   Caution: Plastic piping should not be used on blowers larger than 1 HP that are operating near their maximum pressure or suction point. Blower housing and nearby piping temperatures can exceed 200°F. Access by personnel to the blower or nearby piping should be limited, guarded, or marked, to prevent danger of burns.

4. **Wiring** - Blowers must be wired and protected/fused in accordance with local and national electrical codes. All blowers must be grounded to prevent electrical shock. Slo-Blo or time delay fuses should be used to bypass the first second of start-up amperage.

5. **Pressure/Suction Maximums** - The maximum pressure and/or suction listed on the model label should not be exceeded. This can be monitored by means of a pressure or suction gage (available from Rotron), installed in the piping at the blower outlet or inlet. Also, if problems do arise, the Rotron Field representative will need to know the operating pressure/suction to properly diagnose the problem.

6. **Excess Air** - Bleed excess air off. DO NOT throttle to reduce flow. When bleeding off excess air, the blower draws less power and runs cooler.

   Note: Remote Drive (Motorless) Blowers - Properly designed and installed guards should be used on all belts, pulleys, couplings, etc. Observe maximum remote drive speed allowable. Due to the range of uses, drive guards are the responsibility of the customer or user. Belts should be tensioned using belt gauge.

Maintenance Procedure

When properly piped, filtered, and applied, little or no routine maintenance is required. Keep the filter clean. Also, all standard models in the DR, EN, CP, and HiE series have sealed bearings that require no maintenance. Bearing should be changed after 15,000 to 20,000 hours, on average. Replacement bearing information is specified on the chart below.

Bearing Part Number	Size	Seal Material	Grease	Heat Stabilized
510217 510218 510219	205 206 207	Polyacrylic	Nye Rheotemp 500 30% +/- 5% Fill	Yes – 325 F
510449 516440 516648	203 202 307	Buna N	Exxon Polyrex Grease	NO
516840 516841 516842 516843 516844 516845 516846 516847	206 207 208 210 309 310 311 313	Buna N	Exxon Polyrex Grease	NO

Troubleshooting

		POSSIBLE CAUSE	OUT OF WARRANTY REMEDY ***
IMPELLER DOES NOT TURN	Humming Sound	1. * One phase of power line not connected 2. * One phase of stator winding open 3. Bearings defective 4. Impeller jammed by foreign material 5. Impeller jammed against housing or cover 6. ** Capacitor open	1. Connect 2. Rewind or buy new motor 3. Change bearings 4. Clean and add filter 5. Adjust 6. Change capacitor
	No Sound	1. * Two phases of power line not connected 2. * Two phases of stator winding open	1. Connect 2. Rewind or buy new motor
IMPELLER TURNS	Blown Fuse	1. Insufficient fuse capacity 2. Short circuit	1. Use time delay fuse of proper rating 2. Repair
	Motor Overheated Or Protector Trips	1. High or low voltage 2. * Operating in single phase condition 3. Bearings defective 4. Impeller rubbing against housing or cover 5. Impeller or air passage clogged by foreign material 6. Unit operating beyond performance range 7. Capacitor shorted 8. * One phase of stator winding short circuited	1. Check input voltage 2. Check connections 3. Check bearings 4. Adjust 5. Clean and add filter 6. Reduce system pressure/vacuum 7. Change capacitor 8. Rewind or buy new motor
	Abnormal Sound	1. Impeller rubbing against housing or cover 2. Impeller or air passages clogged by foreign material 3. Bearings defective	1. Adjust 2. Clean and add filter 3. Change bearings
	Performance Below Standard	1. Leak in piping 2. Piping and air passages clogged 3. Impeller rotation reversed 4. Leak in blower 5. Low voltage	1. Tighten 2. Clean 3. Check wiring 4. Tighten cover, flange 5. Check input voltage

* 3 phase units

** 1 phase units

*** Disassembly and repair of new blowers or motors will void the Rotron warranty. Factory should be contacted prior to any attempt to field repair an in-warranty unit.

Blower Disassembly:

WARNING: Attempting to repair or diagnose a blower may void Rotron's warranty. It may also be difficult to successfully disassemble and reassemble the unit.

1) Disconnect the power leads. **CAUTION:** Be sure the power is disconnected before doing any work whatsoever on the unit.

2) Remove or separate piping and/or mufflers and filters from the unit.

3) Remove the cover bolts and then the cover. **NOTE:** Some units are equipped with seals. It is mandatory that these seals be replaced once the unit has been opened.

4) Remove the impeller bolt and washers and then remove the impeller. **NOTE:** Never pry on the edges of the impeller. Use a puller as necessary.

5) Carefully note the number and location of the shims. Remove and set them aside. NOTE: If the disassembly was for inspection and cleaning the unit may now be reassembled by reversing the above steps. If motor servicing or replacement and/or impeller replacement is required the same shims may not be used. It will be necessary to re-shim the impeller according to the procedure explained under assembly.

6) Remove the housing bolts and remove the motor assembly (arbor/.housing on remote drive models).

7) Arbor disassembly (Applicable on remote drive models only):
   a) Slide the bearing retraining sleeve off the shaft at the blower end.
   b) Remove the four (4) screws and the bearing retaining plate from the blower end.
   c) Lift the shaft assembly far enough out of the arbor to allow removal of the blower end snap ring.
   d) Remove the shaft assembly from the arbor.
   e) If necessary, remove the shaft dust seal from the pulley end of the arbor.

Muffler Material Replacement:

1) Remove the manifold cover bolts and them manifold cover.

2) The muffler material can now be removed and replaced if necessary. On blowers with fiberglass acoustical wrap the tubular retaining screens with the fiberglass matting before sliding the muffler pads over the screens.

3) Reassemble by reversing the procedure.

NOTE: On DR068 models with tubular mufflers it is necessary to remove the cover and impeller accessing the muffler material from the housing cavity.

Blower Reassembly:

1) Place the assembled motor (assembled arbor assembly for remote drive models) against the rear of the housing and fasten with the bolts and washer.

2) To ensure the impeller is centered within the housing cavity re-shim the impeller according to the procedure outlined below.

3) If blower had a seal replace the seal with a new one.

4) Place the impeller onto the shaft making sure the shaft key is in place and fasten with the bolt, washer and spacer as applicable. Torque the impeller bolt per the table below. Once fastened carefully rotate the impeller to be sure it turns freely.

5) Replace the cover and fasten with bolts.

6) Reconnect the power leads to the motor per the motor nameplate.

Bolt Size	Torque Pound-Force-Foot
1/4-20	6.25 +/- 0.25
5/16-18	11.5 +/- 0.25
3/8-16	20.0 +/- 0.5
½-13	49.0 +/- 1
5/8 –11	90.0 +/- 2

Impeller Shimming Procedure:

WARNING: This unit may be difficult to shim. Extreme care may be exercised.

Tools Needed: Machinist's Parallel Bar
Vernier Caliper with depth measuring capability
Feeler gauges or depth gauge

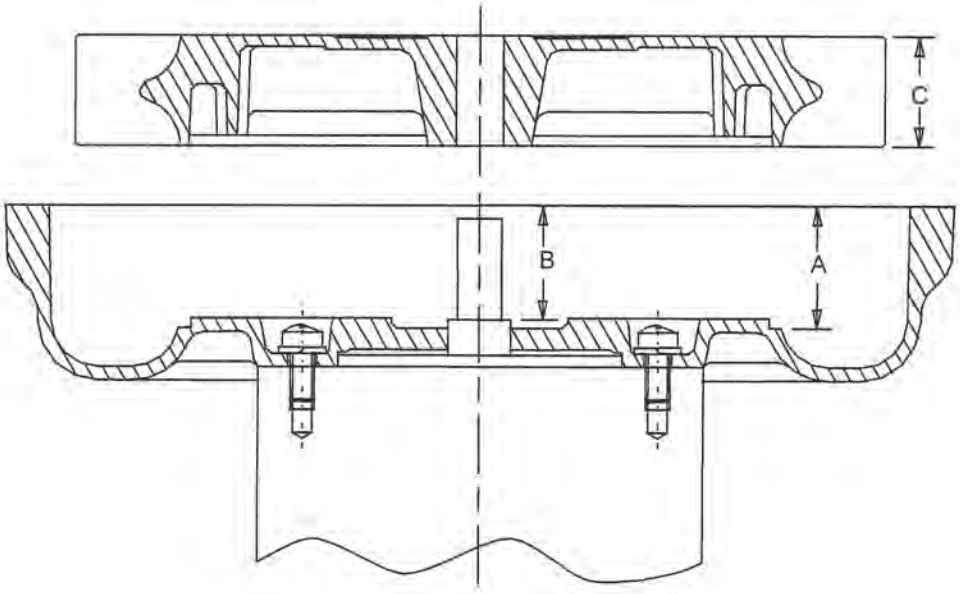
Measure the Following:

Distance from the flange face to the housing (A)
Distance from the flange face to the motor shaft shoulder (B)
Impeller Thickness (C)

Measurements (A) and (B) are made by laying the parallel bar across the housing flange face and measuring to the proper points. Each measurement should be made at three points, and the average of the readings should be used.

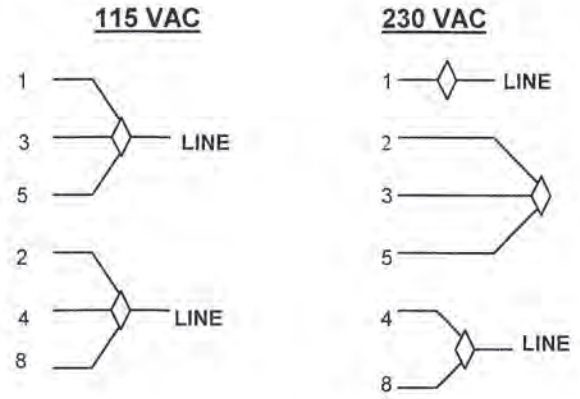
Shim Thickness = B – (A+C)/2

After the impeller installation (step #4 above) the impeller/cover clearance can be checked with feeler gauges, laying the parallel bar across the housing flange face. This clearance should nominally be (A-C)/2.



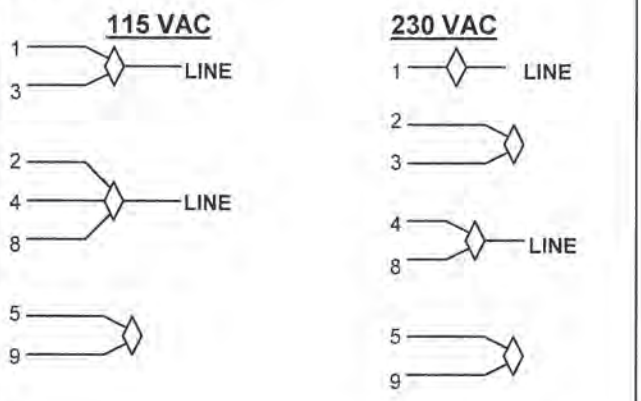
WIRING DIAGRAMS, XP MOTORS

H. 1Ø, 6 WIRE



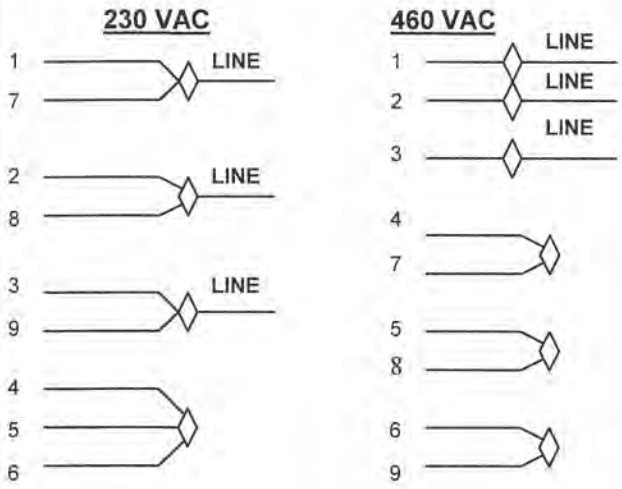
INTERCHANGE LEADWIRES 5 & 8 to REVERSE ROTATION

I. 1Ø, 7 WIRE



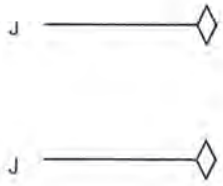
INTERCHANGE LEADWIRES 5 & 8 to REVERSE ROTATION

K. 3Ø, 9 WIRE



INTERCHANGE ANY TWO LEAD LINES TO REVERSE ROTATION

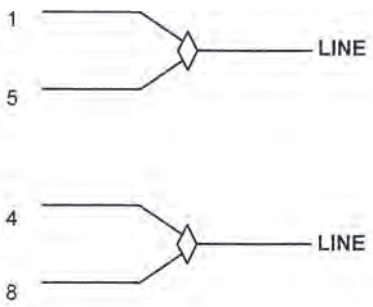
L. PILOT DUTY THERMAL OVERLOADS



HOOK J LEADS TO CONTROL CIRCUITRY

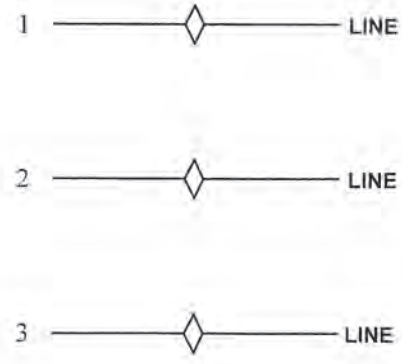
M. 1Ø 230 VAC

SINGLE VOLTAGE



INTERCHANGE LEADWIRES 5 & 8 TO REVERSE ROTATION

N. 3Ø 575 VAC



INTERCHAGE ANY TWO LEAD LINES TO REVERSE ROTATION

AMETEK®
ROTRON TECHNICAL MOTOR DIVISION
REGENERATIVE BLOWER GROUP

75 North Street
Saugerties, New York 12477
Phone: (845) 246-3401
Fax: (845) 246-3802

EXPLOSION-PROOF BLOWERS

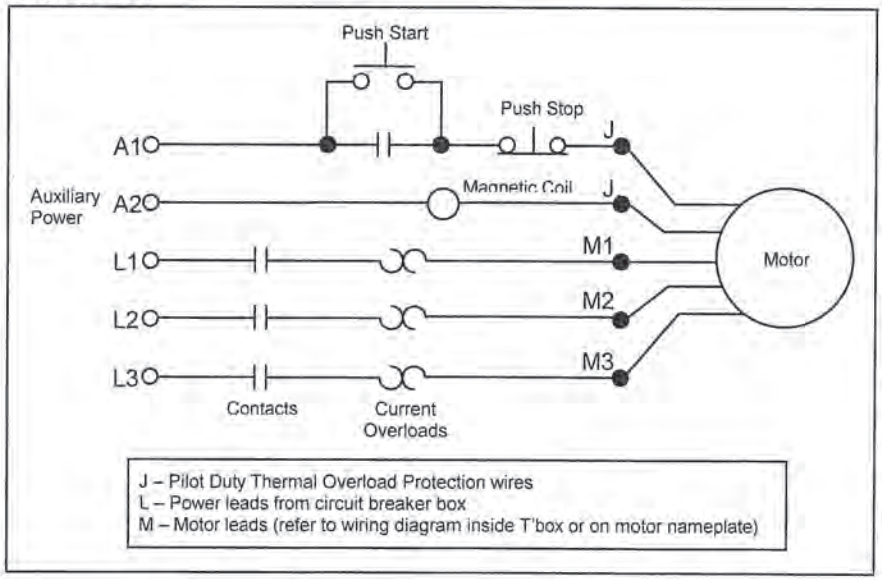
IMPORTANT: Read before wiring this Explosion-proof Blower

This AMETEK Rotron Explosion-proof Regenerative Blower may be equipped with Pilot Duty Thermal Overload (PDTO) or Automatic Thermal Overload (ATO) protection. When properly wired to a motor starter, this protection limits the motor winding temperature rise per the National Electric Code (NEC) article 500. Failure to properly wire this blower is an NEC violation and could cause an explosion. AMETEK Rotron assumes no responsibilities for damages incurred by negligent use of this product, and will not warranty a blower on which the PDTO is not properly connected. Some blowers 1 HP and under do not require PDTO and have built in ATO. Consult the factory if verification of wiring connections is required.

In all cases, follow the motor controller manufacturer's instructions. The following schematic is for conceptual understanding only, and may not apply to all motor/controller combinations.

The manufacturer's wiring diagram found on the motor takes precedent over reference diagrams supplied by AMETEK Rotron Technical Motor Division.

Schematic



The schematic is shown for a three phase motor. For a single phase motor disregard L3 and M3. Pushing the START button completes the auxiliary control circuit, allowing current to flow through the magnetic coil. The contacts are magnetically closed, starting the motor and latching the auxiliary circuit. The motor will continue to run until the STOP push button is depressed, the motor reaches the overload temperature, or the current sensing overloads trip out.

If you have any questions, contact AMETEK Rotron at 914-246-3401 for the location of your area representative.

POLICY REGARDING INSTALLATION OF AMETEK ROTRON REGENERATIVE BLOWERS IN HAZARDOUS LOCATIONS

AMETEK Rotron will not knowingly specify, design or build any regenerative blower for installation in a hazardous, explosive location without the proper NEMA motor enclosure. AMETEK Rotron does not recognize sealed blowers as a substitute for explosion-proof motors. Sealed units with standard TEFC motors should never be utilized where local, state, and/or federal codes specify the use of explosion-proof equipment.

AMETEK Rotron has a complete line of regenerative blowers with explosion-proof motors. Division 1 & 2, Class I, Group D; Class II, Groups F & G requirements are met with these standard explosion-proof blowers.

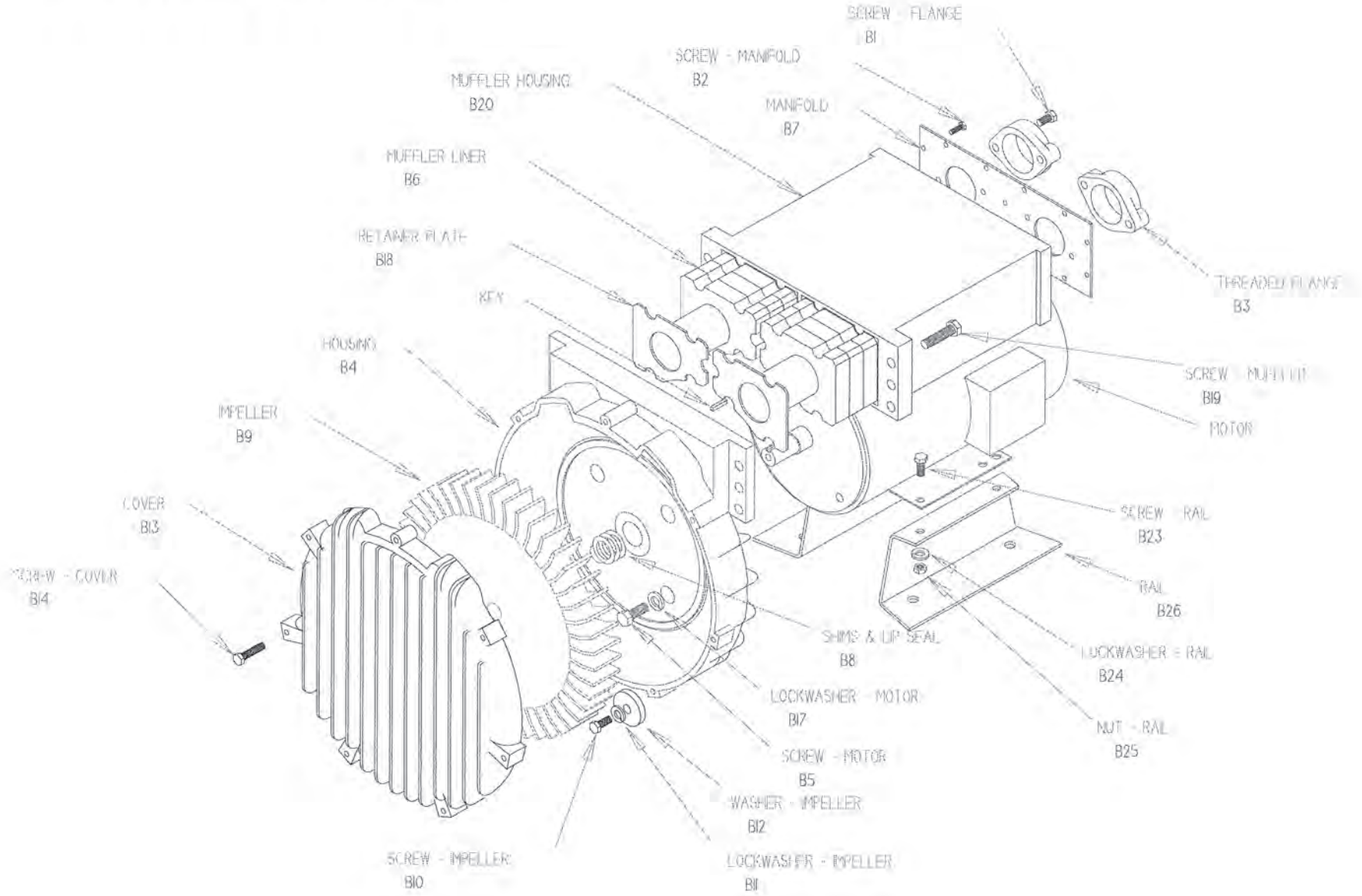
AMETEK Rotron will not knowingly specify, design or build any regenerative blower for installation in a hazardous, corrosive environment without the proper surface treatment and sealing options.

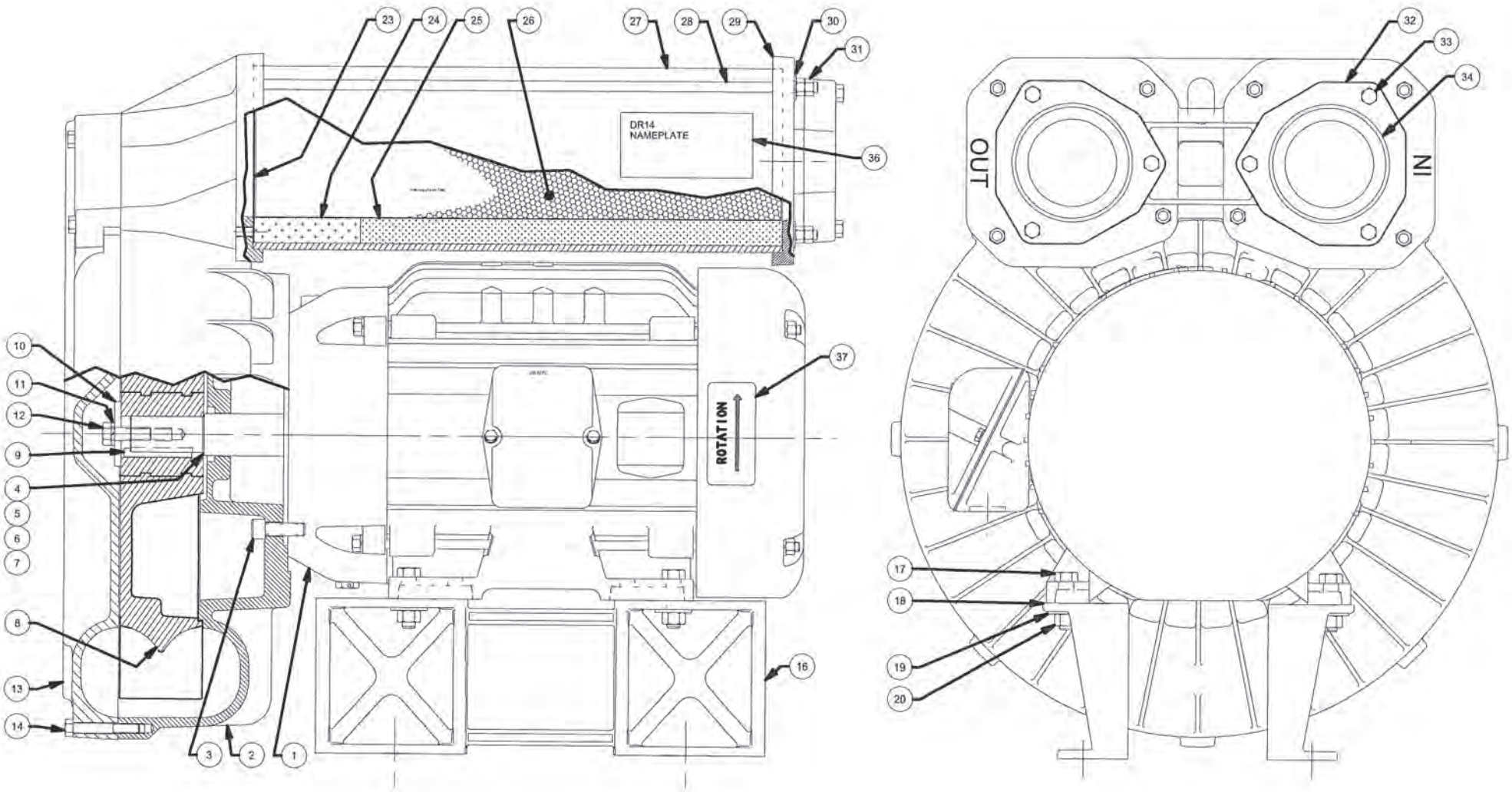
AMETEK Rotron has a complete line of Chemical Processing and Nasty Gas™ regenerative blowers with Chem-Tough™, stainless steel parts, and seals.

AMETEK Rotron offers general application guidance; however, suitability of the particular blower selection is ultimately the responsibility of the purchaser, not the manufacturer of the blower.

FS2 Rev. B 3/10/98

ASSEMBLY DIAGRAM
EN6 EN808 EN909 EN14





ASSEMBLY DWG "B"

Parts Breakdown

Item No.	Qty. Req'd	Description	EN6 038361 038180 038438	EN858 038744 038745 080070	EN909 038629 038634 080071	EN14 038762 038761	EN14 038760	EN979 80724
M3	1	Key Motor Shaft	510212	511532	511532	155066	511532	551570
B1	6	Screw, Flange	(4 pcs) 120255	(4 pcs) 155067	140016	140016	140016	140016
B2		Screw, Manifold	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B3	2	Flange	See Next Page	511614	529912	529912	529912	529912
	2	O-ring	Not Used	Not Used	155377	155377	155377	155377
		Elbow 90°	See Next Page	Not Used	Not Used	Not Used	Not Used	Not Used
B4	1	Housing	516747	516764	515356	516799	516797	551560
B5	4	Screw, Hsg /Motor	251792	155034	140014	120205	120205	120205
B6	7	Muffler Material (Gray)	Not Used	551736	(10 pcs) 551738	(12)551740	(12)551740	(8) 551571
	2	Muffler Material (White)	Not Used	551737	551739	551741	551741	Not Used
	2	Finger Guard	Not Used	Not Used	551730	551744	551744	Not Used
B8	*	Shim .002"	272703	511547	511547	515991	511547	511547
	*	Shim .005"	272704	511548	511548	515992	511548	511548
	*	Shim .010"	272705	511549	511549	515993	511549	511549
	*	Shim .020"	272706	511550	511550	515994	511550	511550
	*	Shim .030"	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B9	1	Impeller	515484	515249	515270	515509	515683	551566
B10	1	Bolt, Impeller	251791	120210	140015	155068	120251	140015
B11	1	Lockwasher, Impeller	251787	251788	251788	251788	251788	251788
B12	1	Washer, Impeller	Not Used	511529	Not Used	Not Used	Not Used	Not Used
B13	1	Cover	515488	515247	515359	515910	515910	551409
B14	8	Screw, Cover	155170	140016	140016	155069	155069	155512
B15	1	Eye Bolt	Not Used	140019	140019	140019	140019	Not Used
B16	1	Spacer, Impeller Bolt	478336	515555	511529	515990	515990	511529
		Shaft Sleeve	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B17		Lockwasher, Housing	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B18	2	Screen, Muffler Retaining,	Not Used	551723	551725	551727	551727	551611
B19	6	Bolt, Muffler Hsg/Hsg	Not Used	155025	155025	155067	155067	155512
B19A	4	Bolt, Muffler/Housing	Not Used	120214	120214	120214	120214	Not Used
B20	1	Muffler Housing	Not Used	550019	529932	550039	550039	551422
	1	Muffler Discrete	522948	Not Used	Not Used	Not Used	Not Used	Not Used
		Bolt, Motor/Muffler	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B21		Heat Slinger	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B22		Guard Heat slinger	Not Used	Not Used	Not Used	Not Used	Not Used	Not Used
B23	4	Bolt, Rail	251791	120007	140016	120256	155025	120256
B24	4	Lockwasher Rail	251787	251787	251787	251788	251788	Not Used

*As needed **Viewed looking at inlet/outlet ports

B24A	8	Washer, Rail/Motor	Not Used	Not Used	155091	Not Used	Not Used	Not Used
B25	6	Nut, Rail	251789	251789	251789	(4 pcs)155070	(4 pcs)155070	155070
B26	2	Rail Mounting	478338	595301	551584	551658	551658	551658
	1	Lip Seal	516691	516693	516693	516694	516693	516693

Model	Part No.	Motor	Wiring Diagram	Specific Parts	Bearing, Rear (M1)	Impeller End (M2)
EN6F5L	038361	529475	M + L	B3 Flange 511480 (2 pcs) Elbow 120153 (2 pcs)	510217	510218
EN6F72L	038180	500297	K + L	B3 Flange 478341 (2 pcs) Elbow Not Used, Screen Guard, Flange 511479 (2 pcs)		
EN6F86L	038438	529634	N + L	B3 Flange 478341 (2 pcs) , Elbow Not Used Screen Guard, Flange 511479 (2 pcs)		
EN858BD72WL	038744	515556	K + L		516840	516844
EN858BD86WL	038745	529627	N + L			
EN858BA72W	080070	515558	K + L			
EN909BG72WL	038629	511512	K + L		516842	516844
EN909BG86WL	038634	529631	N + L			
EN909BD72WL	080071	515556	K + L			
EN14DX86MWL	038762	529632	N + L		516844	516846
EN14DX72MWL	038761	516095	K + L			
EN14BK72MWL	038760	511513	K + L		516842	516844
EN979BK72WL	080724	551637	K + L		Call Factory	

*As needed **Viewed looking at inlet/outlet ports

Use Assembly Diagram "B"

EN/CP 14
Service and Parts Manual

Parts Breakdown

		EN14	EN14
Model:			
Part No.:		**081486**	**081485**
		081487	

REF #	QTY	Description		
1	1	Motor	See below	See below
2	1	Housing	552373	552375
3	4	Housing to mtr bolts	120256	155025
4	*	Shim	515991	511547
5	*	Shim	515992	511548
6	*	Shim	515993	511549
7	*	Shim	515994	511550
8	1	Impeller	515509	515683
9	1	Mtr shaft Key	155066	511532
10	1	Impeller washer	515990	515990
11	1	Impeller lockwasher	251788	251788
12	1	Impeller bolt	155068	120251
13	1	Cover	515910	515910
14	8	Cover screws	155069	155069
15		Not used	Not used	Not used
16	2	Mounting Rails	551658	551658
17	4	Rail Bolts	155025	155025
18	4	Rail spacers	Not used	Not used
19	4	Rail lockwashers	251788	251788
20	4	Rail -Nuts	155070	155070
21	4	Rail washers	155091	155091
22		Not used	Not used	Not used
23	2	Finger guard screen	552322	552322
24	2	Muffler foam (hi temp)	552328	552328
25	2	Muffler foam (regular)	552327	552327
26	2	Retainer	552332	552332
27	2	Muffler tube	552324	552324
28	8	Muffler Tie Rod	552325	552325
29	1	Connector plate	552298	552298
30	8	Muffler washer	155091	155091

*As needed **Viewed looking at inlet/outlet ports

31	16	Muffler tie rod nuts	251789	251789
32	2	Flange	529912	529912
	2	Flange - O-Ring	155377	155377
33	6	Flange bolts	140016	140016
34		Flange Cap.	Not used	Not used
35		Not used	Not used	Not used
36		Nameplate- Blower	Not used	Not used
37		Rotation Sticker	Not used	Not used
38		Not used	Not used	Not used
39				
40		Lip Seal	516694	516693
41				
42				

Model	Part #	Motor	Wiring Diagram	Specific Parts	Bearing, Rear (M1)	Bearing, Impeller End (M2)
EN14DX86MWL	081487	529632	N + L		516844	516846
EN14DX72MWL	081486	516095	K + L			
EN14BK72MWL	081485	511513	K + L		516842	516844

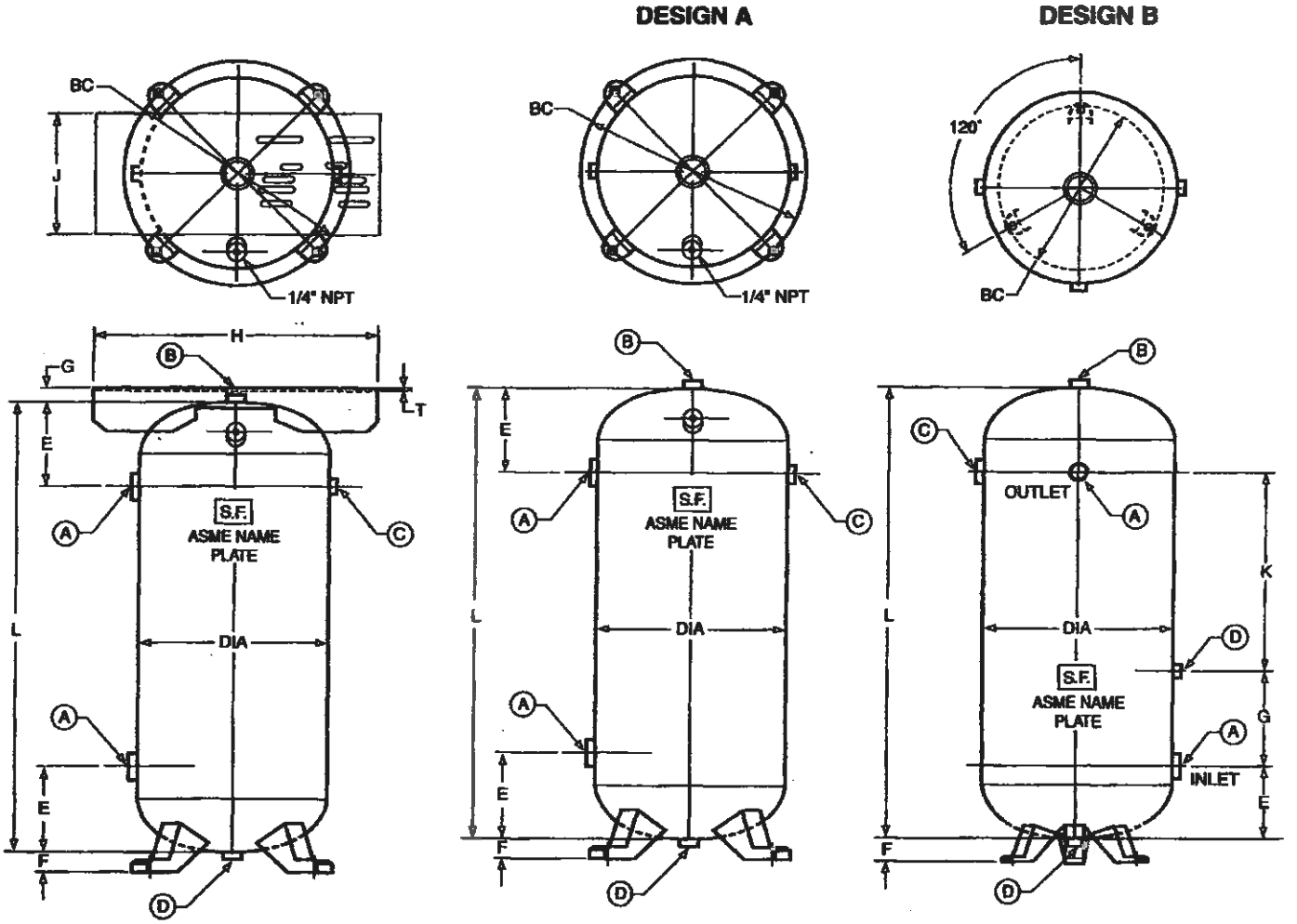
*As needed **Viewed looking at inlet/outlet ports

VERTICAL AIR RECEIVERS

Reference only. Please consult factory for installation dimensions.

With Topplate

Less Topplate



WITH TOPPLATE					OPENINGS (NPT)"				DIMENSIONS"							
P/N	GAL	DIA	L	PSI	A	B	C	D	E	F	G	H	J	K	T	BC
A10041	30	16	38	200	1-1/2	1/2	1/4	1/4	8	1-3/4	1-1/2	23	9	-	3/16	18-3/4
A10044	60	20	48	200	2	3/4	1/4	1/4	9	2-1/4	1-1/2	30	13	-	3/16	23-3/4
A10046	80	24	46	200	2	1	1/4	1/2	11	3-3/8	1-1/2	30	13	-	3/16	25-1/2
A10047*	120	30	46	200	2	1	1/4	1/2	12	6	3-7/8	39	15	-	1/4	26
DESIGN A - LESS TOPPLATE																
A10040	30	16	38	200	1-1/2	1/2	1/4	1/4	8	1-3/4	-	-	-	-	-	18-3/4
A10043	60	20	48	200	2	3/4	1/4	1/4	9	2-1/4	-	-	-	-	-	23-3/4
A10045	80	24	46	200	2	3/4	1/4	1/2	11	3-3/8	-	-	-	-	-	25-1/2
DESIGN B - LESS TOPPLATE																
A11175	80	20	63	200	2	1	1/2	1/2	10	2-1/4	21	-	-	22	-	23-3/4
A11176	120	24	69	200	2	1	1/2	1/2	12	3-3/8	26	-	-	18	-	25-1/2
A11177	200	30	72	200	2	1	1/2	1/2	12	3-3/8	15	-	-	32	-	25-1/2
A11178	240	30	84	200	2	1	1/2	1/2	12	3-3/8	19	-	-	40	-	25-1/2

* Skirt instead of pressed steel feet

COMPACT "T" STYLE VACUUM FILTERS
"CT Series" 2" - 6" FPT

SOLBERG®



- **Compact Design**
- **Multi-Stage Filtration**
- **Quick Change Out**
- **Vacuum Tested**

BENEFITS

- **Compact** design for space restrictions; **Minimal** service area needed
- **Integrated Inlet Baffle**
- Inlet is above the element to **Extend** element life and maintenance intervals
- "T" style design **Minimizes** piping requirements
- "Drop-Down" housing for easy servicing and containment of particles
- Cast aluminum head **Resists** corrosion
- Pressure differential ports standard for monitoring
- Casting has 4 unthreaded tap holes for mounting bracket
- **Vacuum level**: Typically $1x10^{-3}$ mmHg ($1.3x10^{-3}$ mbar)
- Swing Bolts on 5" & 6" sizes for additional strength

OPTIONS (Inquires Encouraged)

- Various media alternatives
- **See Through Bottom for Visual Inspection Now available for 3" and 4" housings!**
- Swing Bolts for 2" - 4" Sizes



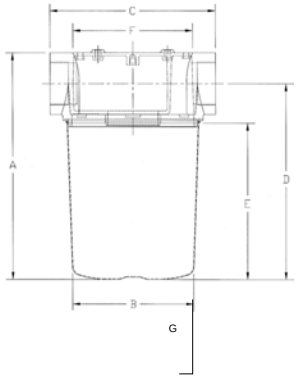
CT-851/850
2" & 2 1/2" FPT



CT-235P/234P
3" & 4" FPT



CT-275P/274P
5" & 6" FPT



Dimension tolerance ± 1/4"

I = Industrial Duty S = Severe Duty E = Extreme Duty

	with Polyester Element	with Paper Element	FPT Inlet & Outlet	DIMENSIONS - inches A	B	C	D	E	Rated Flow SCFM Nominal Rating	Element Rating	Approx. Wt. lbs
I	CT-851-200C	CT-850-200C	2"	13	10 7/8	9	9	18	175	290	16
I	CT-851-250C	CT-850-250C	2-1/2"	13	10 7/8	9	9	18	210	290	15
I	CT-235P-300C	CT-234P-300C	3"	18 7/8	16 1/8	13 1/2	13	25	300	570	30
I	CT-235P-400C	CT-234P-400C	4"	18 7/8	16 1/8	13 1/2	13	25	520	570	26
S	CT-275P-500C	CT-274P-500C	5"	18 1/4	14 3/8	19	9 7/8	20	800	1100	50
I	CT-275P-600C	CT-274P-600C	6"	18 1/4	14 3/8	19	9 7/8	20	1100	1100	45

1151 Ardmore Ave. • Itasca, IL 60143 USA
Tel: 630/773 1363 • Fax: 630/773 2643
E-mail: sales@solbergmfg.com • Web Site: www.solbergmfg.com

Solberg – Discover the Possibilities

Models 215V and 337

KUNKLE

Model 215V is Non-code Vacuum and Model 337 is ASME Section VIII, Air/Gas Vacuum, 'UV' National Board Certified, Safety Valves. PED Certified for Non-Hazardous Gas.

Features

- **Large nozzle design** provides high capacity.
- **Flat bronze valve seats are lapped** for optimum performance.
- **Warn ring offers easy adjustability** for precise opening with minimum pre-open or simmer and exact blowdown control.
- **Pivot between disc and spring** corrects misalignment and compensates for spring side thrust.

Model Descriptions

- **Model 337 has 'pull-ring' lift device** for easy manual testing.
- **Every valve is 100% tested/inspected** for pressure setting, blowdown and leakage.
- **All adjustments are factory sealed** to prevent tampering or disassembly.

Option

- SS trim. (nozzle and disc) (Variation 03)

Applications

- Protection of low to medium pressure high volume blowers, compressors and pneumatic conveying systems.
- Bulk hauling trailers/equipment.
- Light gauge tanks.
- Protection of high volume vacuum pumps and conveying systems.



Vacuum Limits

Model 215V:
2-inch HG
to 29-inch HG
[67.7 to 982 mbarg]
-20° to 406°F [-29° to 208°C]

Pressure and Temperature Limits

Model 337:
1 to 60 psig [0.07 to 4.1 barg]
-20° to 406°F [-29° to 208°C]

tyco / Flow Control

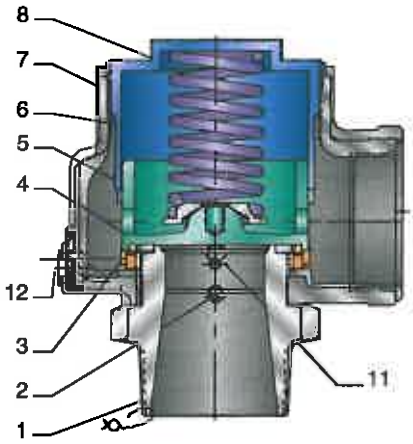
Total Flow Control Solutions™

Kunkle is either a trademark or registered trademark of Tyco International Services AG or its affiliates in the United States and/or other countries. All other brand names, product names, or trademarks belong to their respective holders.

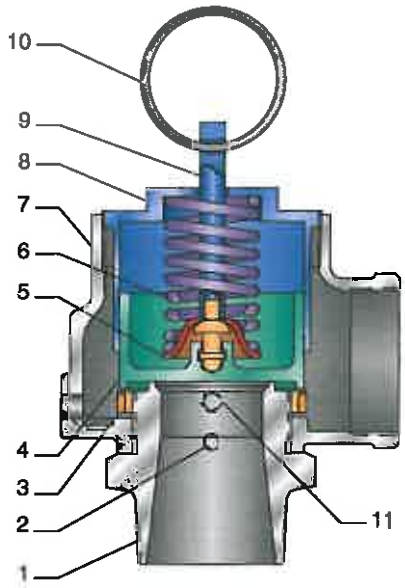
Copyright © 2005 Tyco Flow Control. All rights reserved.

Models 215V and 337

arts and Materials



Model 215V



Model 337

Models 215V and 337

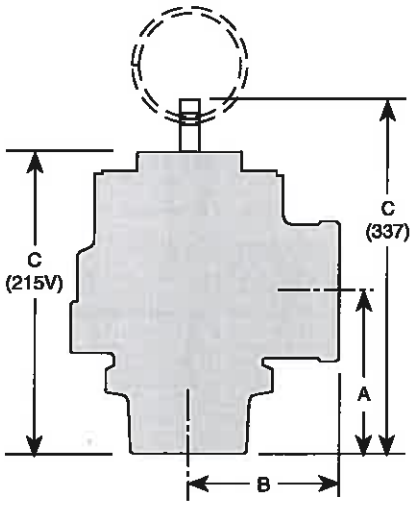
No.	Part Name	215V	337
1	Nozzle[1]	Bronze, SB62	Bronze, SB62
2	Set Screw	Steel A108-1018 Brass Plated	Steel A108-1018 Brass Plated
3	Regulator Ring	Bronze B584 Alloy 84400	Bronze B584-C84400
4	Disc[1]	Bronze B584 Alloy 84400	Bronze B584-C84400
5	Spring Step	Steel A-109 Coated[3]	Steel A109 Coated[3]
6	Spring	SS, A313 TY 302	SS A313-302
7	Body	Cast Iron A-126, CL A or B	Iron A-126, CL A or B
8	Compression Screw	Bronze, B-584 Alloy 84400	Bronze, B584-C84400
9	Stem[2]	N/A	Brass B16
10	Lift Ring[2]	N/A	SS A313-302
11	Regulator Ring Set Screw	N/A	Brass B16
12	NPT Drainplug	Steel A108-1018	N/A

Notes

1. Disc and nozzle available in SSA-479 TY 316.
2. Stem and lift ring available on Model 337 only.
3. Corrosion preventative coating.

Specifications

Size Inlet and Outlet	Dimensions, in [mm] A	B	C 215V	C 337	Weight lb [kg]
2" [50.8 mm]	3¼ [82.5]	3 [76.2]	6½ [165.1]	7 [177.8]	8 [3.6]
2½" [63.5 mm]	3¾ [95.2]	3½ [88.9]	7⅝ [194.6]	8 [203.2]	12 [5.4]
3" [76.2 mm]	4¼ [107.9]	4 [101.6]	8½ [215.9]	9 [228.6]	20 [4.1]



Model 337

Copyright © 2006 Tyco Flow Control. All rights reserved.

Models 215V and 337

Capacities

Model 337, Non-code[1] and ASME Section VIII Air (SCFM)

Set Pressure (psig)	Valve Inlet and Outlet Size 2"	2½"	3"
1	240	364	527
5	531	805	1166
10	741	1124	1628
15	948	1436	2081
20	1092	1656	2399
25	1237	1875	2718
30	1382	2095	3036
35	1542	2337	3386
40	1701	2578	3736
45	1860	2820	4086
50	2020	3061	4436
55	2179	3303	4786
60	2338	3544	5136

Note

1. No code stamp or 'NB' on nameplate below 15 psig set.

Model 337, Non-code[1] and ASME Section VIII Air [Metric, Nm³/h]

Set Pressure [barg]	Valve Inlet and Outlet Size 50 mm	63 mm	80 mm
0.5	1049	1589	2303
1.0	1457	2208	3200
1.5	1888	2861	4147
2.0	2235	3387	4910
2.5	2613	3959	5739
3.0	2995	4538	6579
3.5	3377	5117	7418
4.0	3760	5696	8258

Note

1. No code stamp or 'NB' on nameplate below 1.1 barg set.

Model 215V, Non-code Vacuum Air (SCFM)

Relief Set (in, HG)	Valve Inlet and Outlet Size 2" Orifice Area, in² 1.84	2½" Orifice Area, in² 2.79	3" Orifice Area, in² 4.04
2	229	347	503
5	338	512	742
10	415	630	912
15	426	646	936
20	426	646	936
29	426	646	936

Model 215V, Non-code Vacuum Air [Metric, Nm³/h]

Relief Set [mbarg]	Valve Inlet and Outlet Size 5.08 cm Orifice Area [11.86 cm²]	6.35 cm Orifice Area [17.97 cm²]	7.62 cm Orifice Area [26.05 cm²]
50	328	498	722
100	450	682	988
150	533	807	1170
200	593	899	1303
250	638	966	1400
300	669	1014	1470
350	690	1046	1516
400	701	1062	1540
450	704	1067	1546
500	704	1067	1546
550	704	1067	1546
600	704	1067	1546
650	704	1067	1546
700	704	1067	1546
750	704	1067	1546

Copyright © 2005 Tyco Flow Control. All rights reserved.

Models 215V and 337

Model Number/Order Guide

Model Number Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	2	1	5	V	—	H	0	1	A	Q	E	0	0	5	0

Model
215V
0337

Inlet Size
H - 2-inch [50.8 mm]
J - 2½-inch [63.5 mm]
K - 3-inch [76.2 mm]

Variation (01 through 99)
01 - Bronze Disc and Nozzle
03 - SS Disc and Nozzle
60 - BSP Connections

Design Revision
Indicates non-interchangeable revision. Current Design is at Revision 'A'

Valve Service
K - Air ASME Section VIII (Model 337 only)
Q - Vacuum (Model 215V only)
N - Non-code Air/Gas (Model 337 only)

Spring Material
E - SST Type 302
(H-Orifice up to 18 psi; J-Orifice up to 20 psi; K-Orifice up to 25 psi)
M - SST Type 17-7
(H-Orifice above 18 psi; J-Orifice above 20 psi; K-Orifice above 25 psi)

Set Pressure
Model 337, 1 psig [0.7 barg] (0001) through 60 psig [4.1 barg] (0060)
Model 215V, 2-inch HG [68 mbarg] (0002) through 29-inch HG [982 mbarg] (0029) vacuum

Facility Phone: 828-669-3700

Tyco Valves & Controls

www.kunklevalve.com

Tyco Flow Control (TFC) provides the information herein in good faith but makes no representation as to its comprehensiveness or accuracy. This data sheet is intended only as a guide to TFC products and services. Individuals using this data sheet must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose and system requirements. TFC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT(S) TO WHICH THE INFORMATION REFERS. ACCORDINGLY, TFC WILL NOT BE RESPONSIBLE FOR DAMAGES (OF ANY KIND OR NATURE, INCLUDING INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES) RESULTING FROM THE USE OF OR RELIANCE UPON THIS INFORMATION. Patents and Patents Pending in the U.S. and foreign countries. Tyco reserves the right to change product designs and specifications without notice.

Copyright © 2005 Tyco Flow Control. All rights reserved

The absorptive type silencer is the classic dissipative design, deriving its noise control properties from the basic fact that noise energy is effectively "absorbed" by various types of fibrous packing materials. More technically, as sound waves pass through the spaces between the tightly-packed small-diameter fibers of the absorptive material, the resulting viscous friction dissipates the sound energy as small amounts of heat.

Absorptive silencers are very effective on high frequency noise (500–8,000 Hz). At frequencies above and below this range, attenuation performance progressively diminishes.

Since noise is absorbed by the packing media, absorptive silencers do not rely on internal baffles, tubes or other restrictive devices to achieve noise reduction. Consequently, absorptive silencers generally employ "straight-through" or similar internal designs which impose very little air flow restriction.

General Information

Absorptive Silencers

U5 Series (page 3.2)
Highly efficient straight-through silencer available in pipe sizes ½"–6". Attenuation characteristics equivalent to SU5 Series.

U2 Series (page 3.3)
Moderately efficient straight-through silencer available in pipe sizes 5"–30". For better performance, use SU3, SU4, SU5, or U5 Series.

SU5 Series (page 3.4–3.5)
Highest efficiency full flow annular type silencer. Available in pipe sizes 4"–60". Larger sizes available based on application.

SU4 Series (page 3.4–3.5)
Annular type silencer with performance one grade below the SU5 Series. Available in pipe sizes 8"–60". Larger sizes available based on application.

SU3 Series (page 3.4–3.5)
Annular type silencer with performance one grade below the SU4 Series. Available in pipe sizes 8"–60" and larger.

Sizing Information, Pressure Drop Data

The flow area through the silencer must be sufficient to accommodate the maximum flow without imposing excessive pressure drop. The following instructions enable the selection of the proper silencer size and determination of actual pressure drop. These instructions assume air as the flowing gas. For other gases, density and other corrections may be necessary—contact Universal Silencer for assistance.

Data required:
air flow rate (actual CFM)
temperature (°F)
pressure (psig)
maximum pressure drop (inches of water)

1 Determine maximum velocity.

$$V = 4005\sqrt{\left(\frac{\Delta P}{c}\right)\left(\frac{14.7}{P+14.7}\right)\left(T+460\right)}$$

V = air or gas velocity, ft/min (see note 1)
ΔP = maximum pressure drop, inches of water
c = silencer pressure drop coefficient (see Table 1)
T = air temperature, °F (see note 2)
P = operating pressure, psig (If at atmospheric pressure, pressure ratio is unity and may be omitted from equation. If P exceeds 15 psig, contact Universal Silencer for recommendations.)

2 Determine flow area required.

$$A = \frac{Q}{V}$$

A = flow area required, ft²
Q = air flow rate (actual CFM)

$$\text{Actual } CFM = (\text{Standard CFM})\left(\frac{14.7}{P+14.7}\right)\left(\frac{T+460}{530}\right)$$

3 From Table 2, select size with flow area equal to or greater than that calculated.

4 Determine actual gas velocity in ft/min.

$$V\,\text{actual} = \frac{Q}{A}$$

A = flow area from Table 2

5 Determine actual pressure drop.

$$\Delta P = c\left(\frac{V\,\text{actual}}{4005}\right)^2\left(\frac{530}{T+460}\right)\left(\frac{P+14.7}{14.7}\right)$$

c =silencer pressure drop coefficient (see Table 1)

1 Pressure Drop Coefficients

Silencer Series	Pressure Drop Coefficient *(C)*
U5, U2	.25
SU5	.75
SU3, SU4	.85

2 Flow Area Size

Flow Area (ft²)	Diameter Size (in)	Flow Area (ft²)	Diameter Size (in)
0.0014	½	2.6	22
0.0031	¾	3.1	24
0.0055	1	3.7	26
0.012	1½	4.3	28
0.022	2	4.9	30
0.034	2½	5.6	32
0.049	3	6.3	34
0.067	3½	7.1	36
0.087	4	7.9	38
0.136	5	8.7	40
0.196	6	9.6	42
0.349	8	10.6	44
0.55	10	11.5	46
0.79	12	12.6	48
1.07	14	15.9	54
1.4	16	19.6	60
1.8	18	23.8	66
2.2	20	28.3	72

Notes

1 Since self noise and aerodynamic noise generation increase with velocity, absorptive silencers are usually sized for 4,000–8,000 ft/min. In no case should the velocity exceed 15,000 ft/min, regardless of pressure drop allowed.

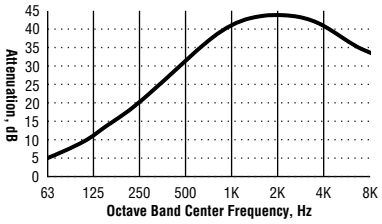
2 Typical attenuation curves indicate the characteristics of the silencer series and are neither a minimum nor a guarantee for an individual silencer. Individual silencer performance can be affected by sound source characteristics including pure tones, flow velocity, adjacent piping, and temperature.

∴ See pages 1.1–1.3 for ordering information | www.universalsilencer.com

U5 Series

Straight-Through Absorptive Silencer

Typical Attenuation Curve



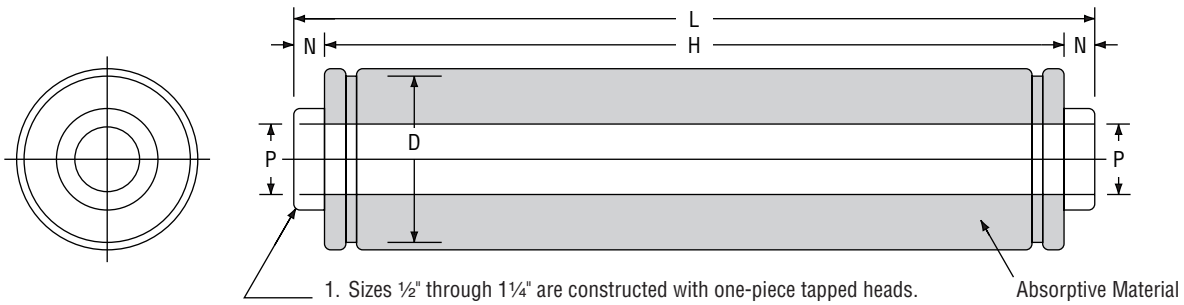
The U5 Series is a premium, straight-through, absorptive silencer. It provides excellent noise attenuation due to its very high length to diameter ratio. It is especially well suited for inlet service on small rotary positive or centrifugal blowers or the discharge of vacuum pumps. Mild steel construction with enamel paint.

Note
U5 series standard paint and acoustical packing are suitable for 325°F.



Common Applications

- rotary positive/centrifugal blowers
- vacuum pump discharge
- air valves and cylinders
- small low-pressure vents
- high frequency noise sources



1. Sizes ½" through 1¼" are constructed with one-piece tapped heads. The tapped opening is approximately flush with the end on the shell.
2. Sizes ½" through 4": female NPT pipe connections.
3. Sizes 5" and 6": 125#/150# ANSI drilled flanges.

See pages 1.1–1.3 for ordering information | www.universalsilencer.com

Straight-Through Absorptive Silencer

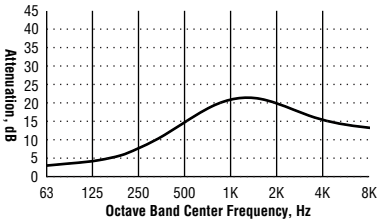
Model	Part	P	D	L	N	H	Weight
U5-½	11-150-AA	½	3¼	8	—	8	2
U5-¾	11-170-AA	¾	3¼	11	—	11	3
U5-1	11-101-AA	1	3¼	14	—	14	3
U5-1¼	11-121-AA	1¼	3¼	16	—	16	4
U5-1½	11-115-AA	1½	4¼	19¾	½	18⅞	6
U5-2	11-102-AA	2	5⅛	26	½	25	10
U5-2½	11-125-AA	2½	6⅛	33½	½	32½	15
U5-3	11-103-AA	3	6⅝	36½	½	35½	20
U5-4	11-104-AA	4	8	48⅞	⅛	48¾	40
U5-5	11-105-AA	5	10	57	3	51	60
U5-6	11-106-AA	6	12	63	3	57	100

U2 Series

Straight-Through Absorptive Silencer

The U2 Series is an economical straight-though silencer for applications requiring lower-degree noise attenuation. It is fundamentally similar to the U5 Series, but has lesser attenuation due to its relatively low length to diameter ratio. Mild steel construction, primer-coated exterior.

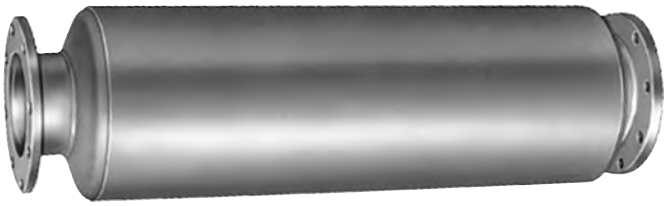
Typical Attenuation Curve

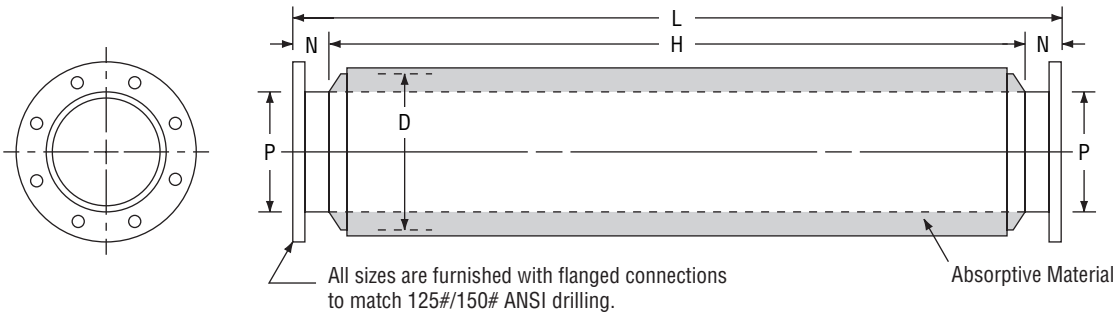


Note:
U2 series standard paint and acoustical packing are suitable for 325°F.

Common Applications

- intermediate size rotary positive blower inlet
- centrifugal blower inlet or discharge
- intermediate size dry vacuum pump discharge
- gas turbine inlet
- high-speed centrifugal compressor inlet
- high frequency noise sources





See pages 1.1–1.3 for ordering information | www.universalsilencer.com

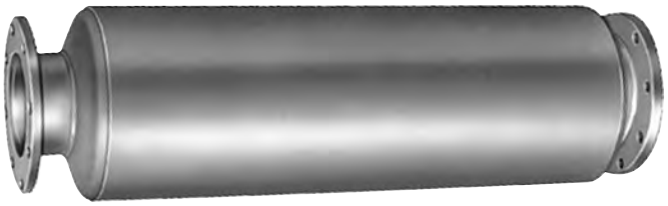
Straight-Through Absorptive Silencer

Model	Part	P	D	L	N	H	Weight
U2-5	10-105-AA	5	10	36	3	30	45
U2-6	10-106-AA	6	12	40	3	34	70
U2-8	10-108-AA	8	14	53	3½	46	105
U2-10	10-110-AA	10	16	65	3½	58	160
U2-12	10-112-AA	12	18	77	3½	70	220
U2-14	10-114-AA	14	20	89	3½	82	340
U2-16	10-116-AA	16	22	101	3½	94	440
U2-18	10-118-AA	18	24	113	3½	106	530
U2-20	10-120-AA	20	26	128	4½	119	700
U2-22	10-122-AA	22	28	140	4½	131	820
U2-24	10-124-AA	24	30	152	4½	143	1,070
U2-30	10-126-AA	30	36	189	4½	180	1,940

SU Series

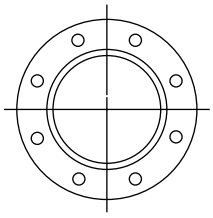
Annular Flow Absorptive Silencer

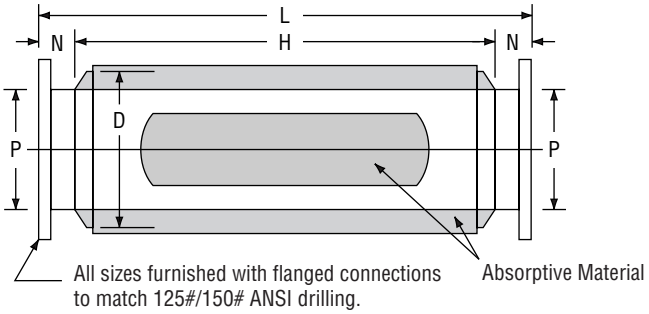
Note:
SU Series standard paint and acoustical packing are suitable for 325°F.



Common Applications

- inlet and discharge of high-speed, low-pressure centrifugal compressors and blowers (discharge P < 15 psig)
- industrial fan inlet and discharge
- high-pressure centrifugal compressors inlet
- gas turbine inlet
- dry vacuum pump discharge
- some low-pressure vents (< 15 psig)
- high-frequency noise sources
- inlet of turbocharged reciprocating engines





See pages 1.1–1.3 for ordering information | www.universalsilencer.com

SU5 Series

The SU5 Series is our highest grade standard absorptive silencer. Its design consists of two concentric perforated cylinders lined with acoustical pack, forming an annular flow path. This design features full blocked-line-of-sight, while providing full flow area for low resistance. Mild steel construction, primer-coated exterior.

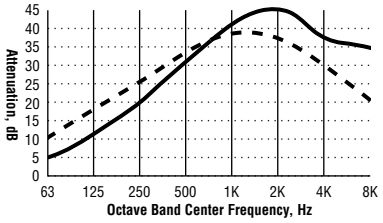
SU4 Series

The SU4 Series provides lower attenuation, ranking just below the SU5 Series. The design of this unit features a bullet centered in the flow tube to provide annular flow path and partial blocked-line-of-sight. Pressure drop is only slightly greater than the SU5. Mild steel construction, primer-coated exterior.

SU3 Series

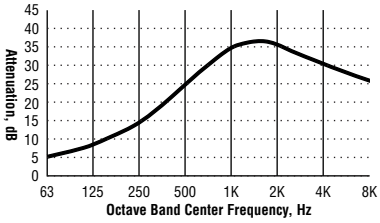
The SU3 Series is the most economical of Universal Silencer's three grades of annular design silencers. Its design is nearly identical to the SU4, including annular flow path and partial blocked-line-of-sight. Pressure drop coefficient is the same as for the SU4 Series. Mild steel construction, primer-coated exterior.

Typical Attenuation Curve

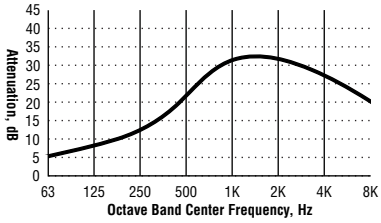


12" size and smaller
24" size and larger

Typical Attenuation Curve



Typical Attenuation Curve



SU Series

Annular Flow Absorptive Silencer

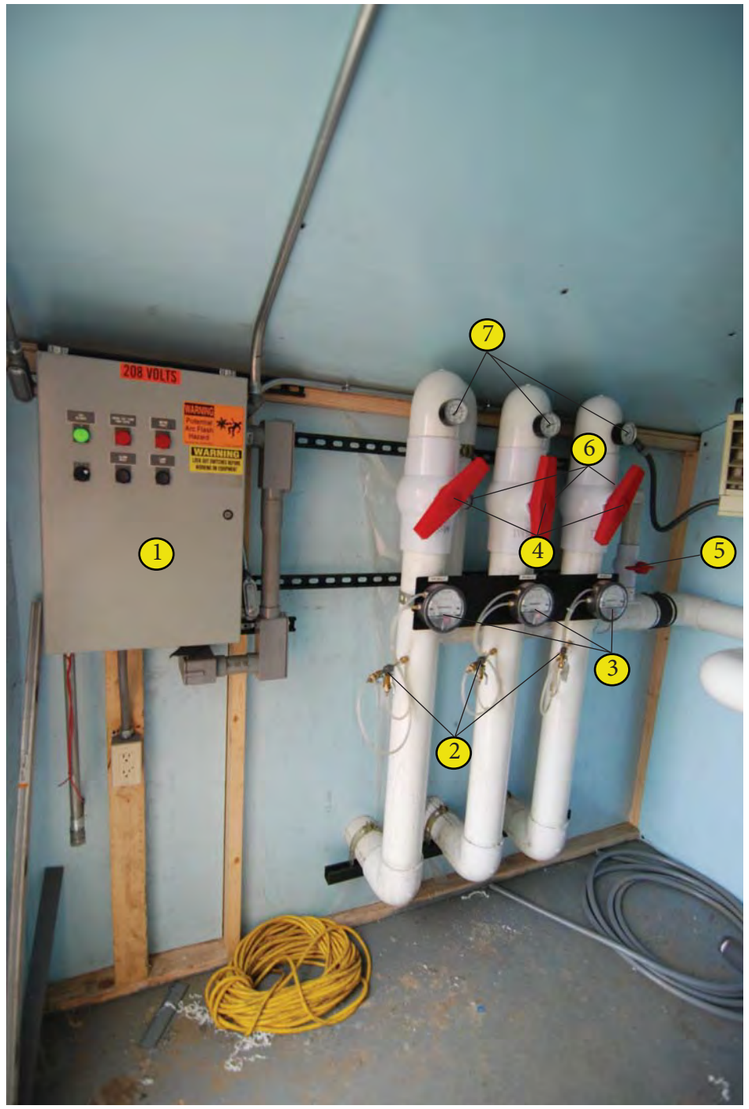
	Model	Part	P	D	L	N	H	Weight
SU5	SU5-4	14-104-AA	4	10	21½	3	15½	30
	SU5-5	14-105-AA	5	12	26	3	20	55
	SU5-6	14-106-AA	6	12	26	3	20	60
	SU5-8	14-108-AA	8	18	36	3½	29	120
	SU5-10	14-110-AA	10	20	44½	3½	37½	195
	SU5-12	14-112-AA	12	24	53	3½	46	290
	SU5-14	14-114-AA	14	26	61½	3½	54½	390
	SU5-16	14-116-AA	16	28	68	3½	61	500
	SU5-18	14-118-AA	18	30	74	3½	67	650
	SU5-20	14-120-AA	20	36	78	4½	69	950
	SU5-22	14-122-AA	22	36	89	4½	80	1,080
	SU5-24	14-124-AA	24	42	91	4½	82	1,400
	SU5-26	14-126-AA	26	42	102	4½	93	1,580
	SU5-28	14-128-AA	28	48	104	4½	95	2,200
	SU5-30	14-130-AA	30	48	115	4½	106	2,600
	SU5-32	14-132-AA	32	54	128	6	116	3,150
	SU5-34	14-134-AA	34	60	136	6	124	3,600
	SU5-36	14-136-AA	36	60	145	6	133	4,500
	SU5-42	14-142-AA	42	66	170	6	158	6,200
	SU5-48	14-148-AA	48	78	186	6	175	8,200
	SU5-54	14-154-AA	54	84	198	6	186	10,300
	SU5-60	14-160-AA	60	90	210	6	198	12,500
SU4	SU4-8	13-108-AA	8	14	33	3½	26	90
	SU4-10	13-110-AA	10	16	35	3½	28	120
	SU4-12	13-112-AA	12	18	47	3½	40	180
	SU4-14	13-114-AA	14	20	51	3½	44	240
	SU4-16	13-116-AA	16	22	59	3½	52	320
	SU4-18	13-118-AA	18	24	63	3½	56	370
	SU4-20	13-120-AA	20	26	73½	4½	64½	490
	SU4-22	13-122-AA	22	28	73½	4½	64½	530
	SU4-24	13-124-AA	24	30	85½	4½	76½	720
	SU4-30	13-130-AA	30	36	108	4½	99	1,340
	SU4-36	13-136-AA	36	42	122	4½	113	2,020
	SU4-42	13-142-AA	42	48	137	6	125	3,200
	SU4-48	13-148-AA	48	54	161½	6	149½	4,100
	SU4-54	13-154-AA	54	60	178	6	166	5,400
	SU4-60	13-160-AA	60	66	192½	6	180½	7,300
SU3	SU3-8	12-108-AA	8	14	31	3½	24	85
	SU3-10	12-110-AA	10	16	35	3½	28	120
	SU3-12	12-112-AA	12	18	39	3½	32	155
	SU3-14	12-114-AA	14	20	39	3½	32	200
	SU3-16	12-116-AA	16	22	47	3½	40	270
	SU3-18	12-118-AA	18	24	47	3½	40	290
	SU3-20	12-120-AA	20	26	49½	4½	40½	350
	SU3-22	12-122-AA	22	28	55½	4½	46½	420
	SU3-24	12-124-AA	24	30	55½	4½	46½	500
	SU3-26	12-126-AA	26	30	61	4½	52	680
	SU3-28	12-128-AA	28	36	63½	4½	54½	830
	SU3-30	12-130-AA	30	36	62	4½	53	890
	SU3-32	12-132-AA	32	36	68	4½	59	1,120
	SU3-34	12-134-AA	34	42	75	4½	66	1,360
	SU3-36	12-136-AA	36	42	80	4½	71	1,490
	SU3-42	12-142-AA	42	48	83	6	71	1,920
	SU3-48	12-148-AA	48	54	89½	6	77½	2,600
	SU3-54	12-154-AA	54	60	96	6	84	3,300
	SU3-60	12-160-AA	60	66	108½	6	96½	4,430

∴ See pages 1.1–1.3 for ordering information | www.universalsilencer.com



Section 2:

System Drawing



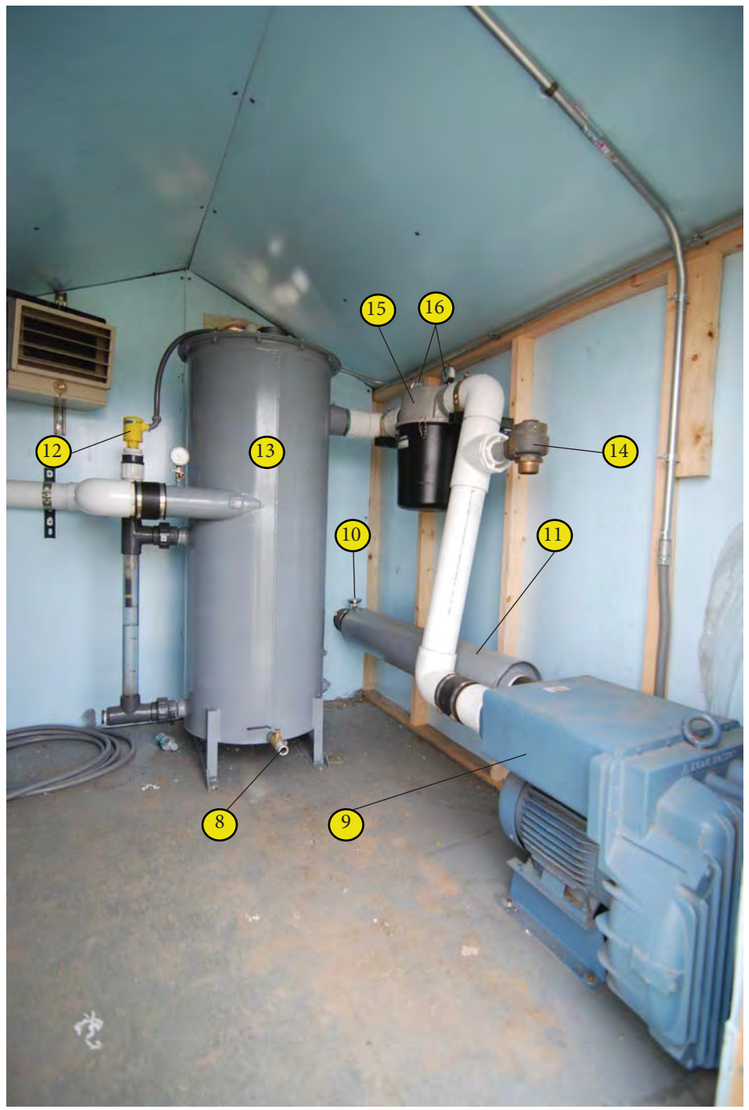
Inside Left View

1.- Control Panel (208 Volts 3 Phase 60 Hz)
2.- Pitot Tube (Series DS-300 Flow Sensors)
3.- Magnehelic® Differential Pressure Gauge (0 - 3 in W.G.)
4.- 4 Inch Ball Valve
5.- Air Dilution Ball Valve (Dilution Filter 0.010 inch slotted PVC)
6.- Analog Dial Bimetal Thermometers (2BM25, 0 - 250° F) (Hidden by Valve Handle)
7.- Wika Low Vacuum Gauges (0 - 100 in W.G.)



Figure 3-6

Buildings 774 and 776
Blower System Schematic



Inside Right View

8.- 3/4 Inch Drain Port
9.- Rotron DR909 Regenerative Blower
(15 HP 208-230/460/3/60 TEFC Motor)
10.- Analog Dial Bimetal Thermometer (3BM25, 0 - 250° F)
11.- Discharge Silencer (Universal Silencer Model #U5-4)
12.- High Level Control Switch with Sight Tube (FlowLine LC05)
13.- 60 Gallon Moisture Knockout Vessel
14.- Vacuum Relief Valve (Kunkle Model 215V)
15.- Inline Particulate Filter (Solberg CT-235P 4" NPT)
16.- Wika Low Vacuum Gauges (0 - 3 in Hg) (Before and After Filter)



Section 3:

Instrumentation

Warranty, Service & Repair

To register your product with the manufacturer, fill out the enclosed warranty card and return it immediately to:

Flowline Inc.
10500 Humbolt Street
Los Alamitos, CA 90720.

If for some reason your product must be returned for factory service, contact Flowline Inc. to receive a Material Return Authorization number (MRA) first, providing the following information:

1. Part Number, Serial Number
2. Name and telephone number of someone who can answer technical questions related to the product and its application.
3. Return Shipping Address
4. Brief Description of the Symptom
5. Brief Description of the Application

Once you have received a Material Return Authorization number, ship the product prepaid in its original packing to:

Flowline Factory Service
MRA _____
10500 Humbolt Street
Los Alamitos, CA 90720

To avoid delays in processing your repair, write the MRA on the shipping label. Please include the information about the malfunction with your product. This information enables our service technicians to process your repair order as quickly as possible.

FLOWLINE®

Compact Junction Box
LC05 / LC06 Series
Owner's Manual



Version 5.0A
© 1999 FLOWLINE Inc.
All rights reserved.
Manual # LC900003 5/99

WARRANTY

Flowline warrants to the original purchaser of its products that such products will be free from defects in material and workmanship under normal use and service for a period which is equal to the shorter of one year from the date of purchase of such products or two years from the date of manufacture of such products.

This warranty covers only those components of the products which are non-moving and not subject to normal wear. Moreover, products which are modified or altered, and electrical cables which are cut to length during installation are not covered by this warranty.

Flowline's obligation under this warranty is solely and exclusively limited to the repair or replacement, at Flowline's option, of the products (or components thereof) which Flowline's examination proves to its satisfaction to be defective. FLOWLINE SHALL HAVE NO OBLIGATION FOR CONSEQUENTIAL DAMAGES TO PERSONAL OR REAL PROPERTY, OR FOR INJURY TO ANY PERSON.

This warranty does not apply to products which have been subject to electrical or chemical damage due to improper use, accident, negligence, abuse or misuse. Abuse shall be assumed when indicated by electrical damage to relays, reed switches or other components. The warranty does not apply to products which are damaged during shipment back to Flowline's factory or designated service center or are returned without the original casing on the products. Moreover, this warranty becomes immediately null and void if anyone other than service personnel authorized by Flowline attempts to repair the defective products.

Products which are thought to be defective must be shipped prepaid and insured to Flowline's factory or a designated service center (the identity and address of which will be provided upon request) within 30 days of the discovery of the defect. Such defective products must be accompanied by proof of the date of purchase.

Flowline further reserves the right to unilaterally wave this warranty and to dispose of any product returned to Flowline where:

a. There is evidence of a potentially hazardous material present with product.
b. The product has remained unclaimed at Flowline for longer than 30 days after dutifully requesting disposition of the product.

THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS WARRANTY. This warranty and the obligations and liabilities of Flowline under it are exclusive and instead of, and the original purchaser hereby waives, all other remedies, warranties, guarantees or liabilities, express or implied. EXCLUDED FROM THIS WARRANTY IS THE IMPLIED WARRANTY OF FITNESS OF THE PRODUCTS FOR A PARTICULAR PURPOSE OR USE AND THE IMPLIED WARRANTY OF MERCHANT ABILITY OF THE PRODUCTS.

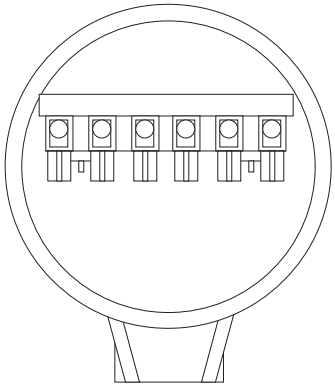
This warranty may not be extended, altered or varied except by a written instrument signed by a duly-authorized officer of Flowline, Inc.

SPECIFICATIONS

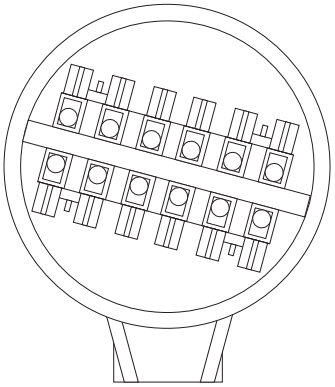
Step One

Sensor Input:	LC05: 1-6 sensors LC06: 1-3 sensors
Terminal strip:	LC05: 12 pole socket LC06: 6 pole socket
Max. current capacity:	26 amp
Max. voltage:	380 V.
Wire Gauge:	22-14 AWG Cu (copper)
Enclosure rating:	NEMA 4X (IP65)
Enclosure material:	Polypropylene, (U.L. 94 VO)
Enclosure rotation:	300° swivel base
Temperature range:	F: -40° to 158° C: -40° to 70°
Conduit connection:	1/2" NPT

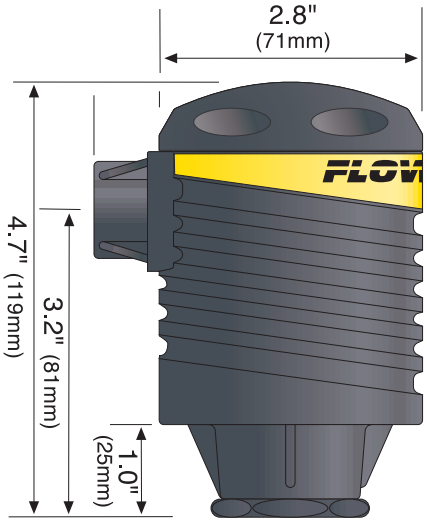
LC06 Terminal Strip



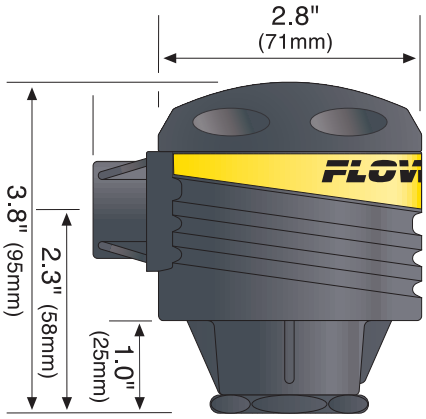
LC06 Terminal Strip



LC05 Dimensions



LC06 Dimensions



SAFETY PRECAUTIONS

Step Two

⚠ About this Manual:

PLEASE READ THE ENTIRE MANUAL PRIOR TO INSTALLING OR USING THIS PRODUCT. This manual includes information on the Compact Junction Boxes from Flowline: LC05-1001, LC05-1051, LC06-1001 and LC06-1051. Please refer to the part number located on the sensor label to verify the exact model which you have purchased. Many aspects of installation and use are similar between the models.

⚠ User's Responsibility for Safety:

Flowline manufactures several models of controller, with different mounting and switching configurations. It is the user's responsibility to determine if a compact junction box is appropriate for the application, install it properly, perform tests of the installed system, and maintain all components.

⚠ Electrical Shock Hazard:

When the cap of the housing is removed, it may be possible to contact components that carry high voltage, causing serious injury or death. All power to the circuits in the terminal strip should be turned OFF prior to working on the installation. If it is necessary to make adjustments during powered operation, use extreme caution and use only insulated tools. Making adjustments to powered systems is not recommended. Wiring should be performed by qualified personnel in accordance with all applicable national, state, and local electrical codes.

⚠ Install In a Dry Location:

While the compact junction box is liquid-resistant when installed properly, it is not designed to be immersed. It should be mounted in such a way that it does not normally come into contact with fluid. Its housing is made out of PP (polypropylene). Refer to an industry reference such as the Compass Corrosion Guide to ensure that compounds that may splash onto the housing will not damage it. Such damage is not covered by the warranty.

⚠ Application

The LC05-1001 junction box is commonly used for the local termination of multiple level switches installed on Smart Trak. The LC06-1001 junction box is commonly used for the local termination of a single level or flow switch. Combine these junction boxes with any switch or fitting assembly to complete your compact switch.

INTRODUCTION

Step Three

Make a Fail-Safe System:

Design a fail-safe system that accommodates the possibility of relay or power failure. If power is cut off to the controller, it will de-energize the relay. Make sure that the de-energized state of the relay is the safe state in your process. For example, if controller power is lost, a pump filling a tank will turn off if it is connected to the Normally Open side of the relay.

⚠ All power to the system must be off before installing the housing.

⚠ IMPORTANT: Do not strip more than .25" of insulation from any wire that will be connected to the terminal strip. Longer un-insulated wire may contact the terminal strip panel, causing a short circuit leading to system failure.

⚠ All wiring between a controller and sensors should be in conduit. The power entrance of the terminal strip housing is a standard 1/2" NPT female fitting that will attach to standard electrical conduit, either plastic or metal, as specified by local codes. Keep in mind that the housing may have to be unscrewed from the sensor for periodic cleaning of the sensor. For this reason the use of flexible conduit, providing enough slack for easy access, is recommended.

⚠ Use caution when installing the conduit. Excessive tightening may break the fitting. Such damage is not covered by the warranty.

⚠ In some cases, additional user-provided components may need to be attached to the terminals. If so, make sure that both wires or components entering the terminal are secure after the screws are tightened.

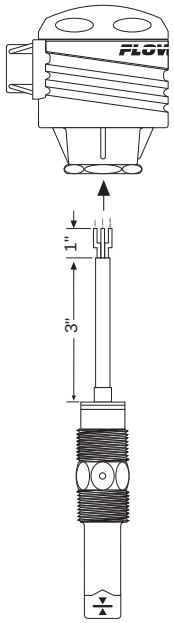
INSTALLATION

Step Four

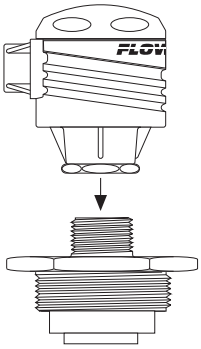
3/4" NPT Mounting Thread

Installation of the compact relay controller takes advantage of the 3/4" NPT thread located on its base. This makes the controller fully compatible with any of Flowline's level switches or Smart Trak™ or Switch Pak™ mounting systems.

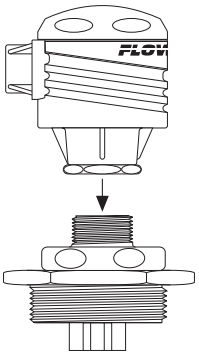
LC06 to Switch



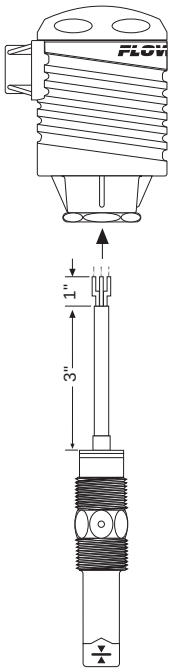
LC06 to Switch Pak



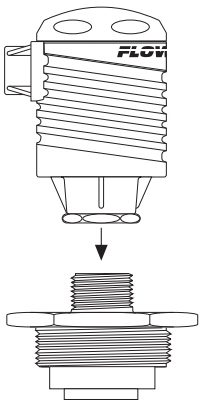
LC06 to Smart Trak



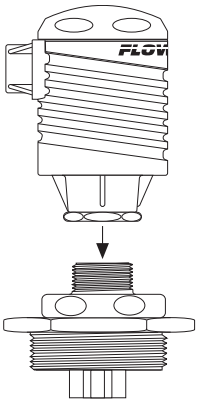
LC05 to Switch



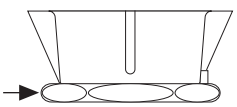
LC05 to Switch Pak



LC05 to Smart Trak



Always tighten the controller from the wrench flat located on the swivel base. Never tighten from the body of the controller.



Step Five

Capsule Pressure Gauges
Plastic Case / Low Cost Design
Type 611.13

Applications

- For gaseous, dry and non aggressive media.
- Medical, vacuum, environmental, HVAC and filter monitoring.

Special features

- Compact design
- Plastic case
- Low ranges from 0/25” H2O (60 mbar)
- Maximum range 0/400” H2O (1000 mbar)



Capsule Pressure Gauge Model 611.13

Description

Nominal Sizes
2” & 2.5” (50 & 63 mm)

Accuracy class
± 2.5% of span

Scale Ranges
0/25 to 0/400 “H2O (0/60 to 0/1000 mbar)
or other equivalent units of pressure or vacuum

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value

Operating Temperature
Ambient: -4°F to +140°F (-20°C to +60°C)
Medium: +140°F (+60°C)

Temperature effect
When temperature of the pressure element deviates from reference temperature (+70°F / +20°C): max. ±0.6%/18°F

Weather protection
IP 53 per EN 60 529 / IEC 529

WIKA
Part of your business

Standard features

Pressure connection
Material: copper alloy
Lower mount (LM) or center back mount (CBM)
1/4" NPT (male), 14 mm wrench flats

Pressure element
Material: Beryllium copper (CuBe2)

O-ring
NBR (Perbunan)

Movement
Copper alloy

Dial
White aluminum with black numberals

Pointer
Black aluminum

Case
Plastic, black

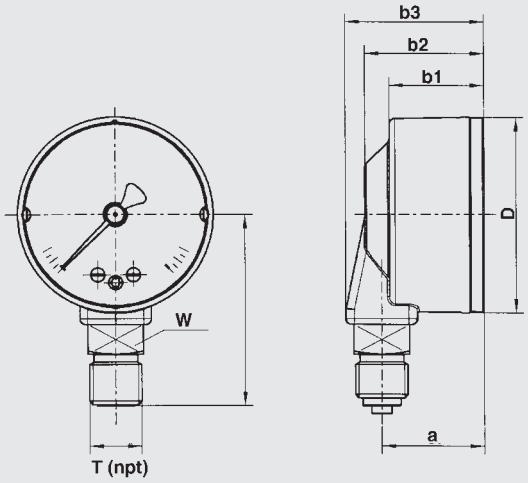
Window
Acrylic, snapped-in

Optional extras

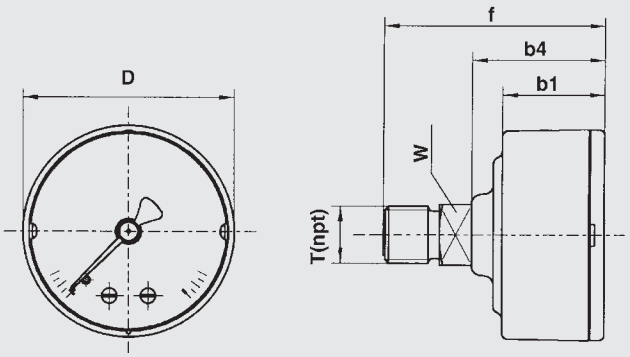
- Other pressure connection
- Under & overpressure safety
- Accuracy ±1.6% of span
- Zero adjustment screw on dial
- Black painted steel case (Type 611.23)
- Restrictor

Dimensions

Lower mount (LM) connection



Center back mount (CBM) connection



Size		a	b1	b2	b3	b4	D	f	h	T	W	Weight
2"	mm	26	24	30	35	31	49	51.5	48		14	0.07 kg
	in	1.02	0.94	1.18	1.38	1.22	1.93	2.03	1.89	1/4"	0.55	0.15 lbs
2.5"	mm	25.5	24	29.5	34.5	31	62	51.5	48		14	0.08 kg
	in	1.00	0.94	1.16	1.36	1.22	2.44	2.03	1.89	1/4"	0.55	0.18 lbs

Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.

WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, GA 30043
Tel (770) 513-8200 Toll-free 1-888-WIKA-USA
Fax (770) 338-5118
E-Mail info@wika.com
www.wika.com

SPECIFICATIONS

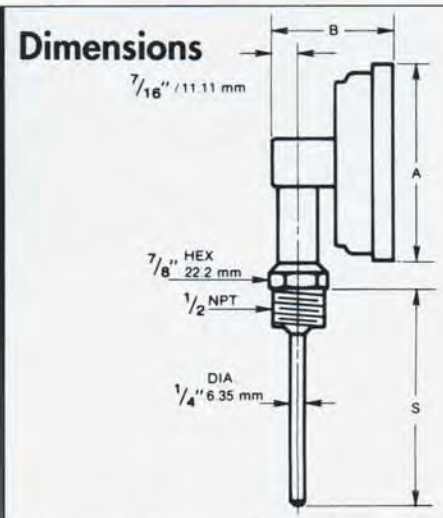
CASE	The entire case assembly is of Type 304 Stainless Steel. To insure a moisture proof unit, the heavy glass face is securely gasketed with the case and bezel assembly, hermetically sealed.
STEM ASSEMBLY	The stem and fixed thread connection is fabricated of stainless steel. All welded construction insures complete corrosion resistance. Series BM, RBM and VBM stem diameter is 1/4" and for 2" dials the fixed thread is 1/4" NPT, 3" & 5" dials are 1/2" NPT.
BIMETALLIC ELEMENT	The sensitive, precision formed bimetallic element is accurately calibrated to meet certified temperature standards. The Helix assembly is silicone damped against vibration. Silicone fluid increases the speed of responses due to more rapid heat transfer from stem to bimetallic element.
DIAL	Heavy gauge aluminum with hard surface white matte finish to reduce glare. Black graduation lines and numerals.
ACCURACY	Accurate within 1% of scale range.
SEPARABLE SOCKETS	Separable sockets are available in all materials for direct attachment to the fixed stems.

MODEL

2BM - 3BM - 3BMS - 5BM - 5BMS

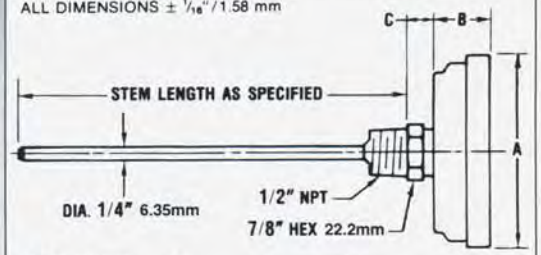


Dimensions



DIAL SIZE	A	B	S (stem length)
3" 76.2 mm	3 1/4" 82.55 mm	1 7/8" 47.62 mm	as specified
5" 127 mm	5 1/4" 133.35 mm	1 7/8 47.62 mm	as specified

ALL DIMENSIONS ± 1/16" / 1.58 mm



DIAL SIZE	A	B	C
3" 76.2 mm	3 1/4" 82.55 mm	11/16" 17.38mm	1/4" 6.35mm
5" 127 mm	5 1/4" 133.35 mm	15/16" 23.81 mm	7/16" 11.11mm

ALL DIMENSIONS ± 1/16" 1.58 mm

2" Dial

Catalog No. 2" Angle	Stem Length (Incl. thread)	NPT
2BM25	2-1/2"	1/4"
2BM4	4"	1/4"
2BM6	6"	1/4"
2BM9	9"	1/4"
2BM12	12"	1/4"

Longer stems lengths available

3" Dial

Catalog No. 3" Angle	Catalog No. 3" Str.	Stem Length (Incl. thread)	NPT
3BM25	3BMS25	2-1/2"	1/2"
3BM4	3BMS4	4"	1/2"
3BM6	3BMS6	6"	1/2"
3BM9	3BMS9	9"	1/2"
3BM12	3BMS12	12"	1/2"

Longer stem lengths available

5" Dial

Catalog No. 5" Angle	Catalog No. 5" Str.	Stem Length (Incl. thread)	NPT
5BM25	5BMS25	2-1/2"	1/2"
5BM4	5BMS4	4"	1/2"
5BM6	5BMS6	6"	1/2"
5BM9	5BMS9	9"	1/2"
5BM12	5BMS12	12"	1/2"

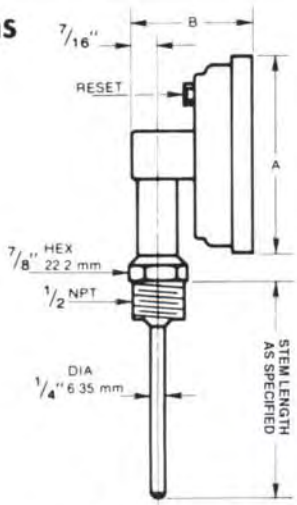
Longer stem lengths available

MODEL

3RBM - 3RBMS - 5RBM - 5RBMS

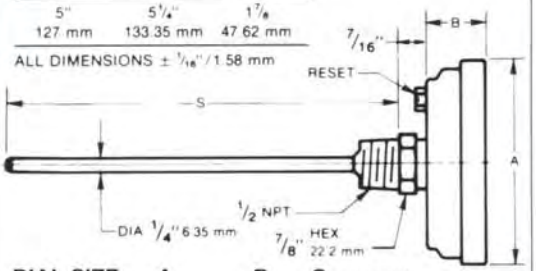


Dimensions



DIAL SIZE	A	B
3" 76.2 mm	3 1/4" 82.55 mm	1 7/8" 47.62 mm
5" 127 mm	5 1/4" 133.35 mm	1 7/8" 47.62 mm

ALL DIMENSIONS ± 1/16" / 1.58 mm



DIAL SIZE	A	B	S (stem length)
3" 76.2 mm	3 1/4" 82.55 mm	15/16" 23.81 mm	as specified
5" 127 mm	5 1/4" 133.35 mm	15/16" 23.81 mm	as specified

ALL DIMENSIONS ± 1/16" 1.58 mm

3" Dial

Catalog No. 3" Angle	Catalog No. 3" Straight	Stem Length (Incl. thread)	NPT
3RBM25	3RBMS25	2-1/2"	1/2"
3RBM4	3RBMS4	4"	1/2"
3RBM6	3RBMS6	6"	1/2"
3RBM9	3RBMS9	9"	1/2"
3RBM12	3RBMS12	12"	1/2"

Longer stems lengths available

NOTE: When ordering Liquid Filled BiMetals add Prefix **SF** to appropriate Catalog Number. **Ex: SF3RBM25**

5" Dial

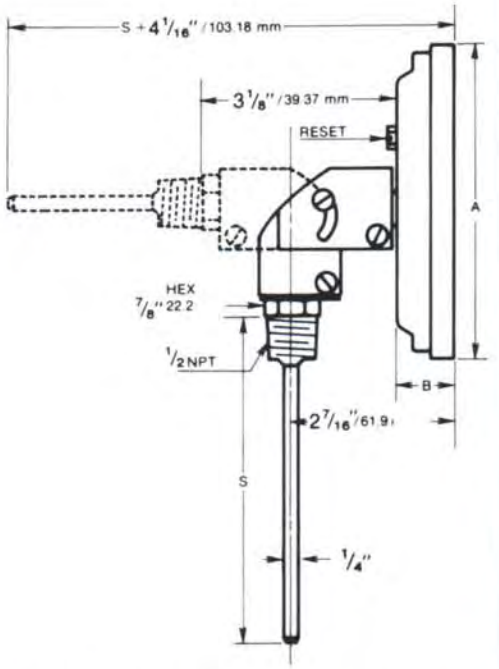
Catalog No. 5" Angle	Catalog No. 5" Straight	Stem Length (Incl. thread)	NPT
5RBM25	5RBMS25	2-1/2"	1/2"
5RBM4	5RBMS4	4"	1/2"
5RBM6	5RBMS6	6"	1/2"
5RBM9	5RBMS9	9"	1/2"
5RBM12	5RBMS12	12"	1/2"

Longer stem lengths available

Vari-angle®

MODEL
3VBM - 5VBM

Dimensions



DIAL SIZE	A	B	S (stem length)
3" 76.2 mm	3 1/4" 82.55 mm	15/16" 23.81 mm	as specified
5" 127 mm	5 1/4" 133.35 mm	15/16" 23.81 mm	as specified

ALL DIMENSIONS ± 1/16" 1.58 mm



3VBM - 5VBM
Vari-angle Form

SF3VBM - SF5VBM
Liquid Filled Vari-angle

3" Dial

Catalog No. 3" Vari-angle	Stem Length (Incl. thread)	NPT
3VBM25	2-1/2"	1/2"
3VBM4	4"	1/2"
3VBM6	6"	1/2"
3VBM9	9"	1/2"
3VBM12	12"	1/2"

Longer stems lengths available

NOTE: When ordering Liquid Filled BiMetals add Prefix **SF** to appropriate Catalog Number. **Ex: SF3VBM25**

5" Dial

Catalog No. 5" Vari-angle	Stem Length (Incl. thread)	NPT
5VBM25	2-1/2"	1/2"
5VBM4	4"	1/2"
5VBM6	6"	1/2"
5VBM9	9"	1/2"
5VBM12	12"	1/2"

Longer stem lengths available

Weiss Series RBM and VBM Silicone Filled Bimetal Thermometers are offered for those applications where severe vibration is a condition. The silicone filling dampens and lubricates the internal parts which reduces pointer flutter and prolongs instrument life. The silicone allows more rapid temperature response.

MODEL
134 & PT

These versatile all stainless steel Bimetal Thermometers are specifically designed for general testing.

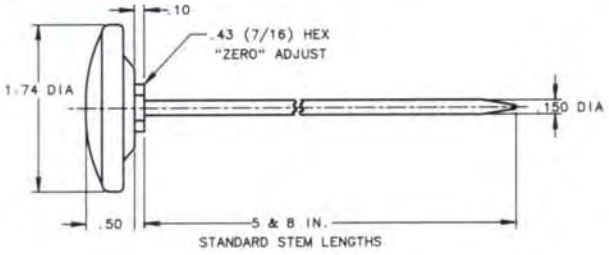


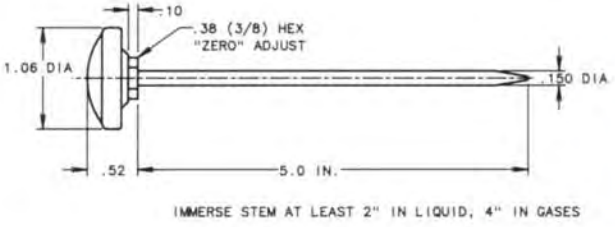
Model 134



Model PT

Dimensions





MODEL 134

1-3/4" diameter head, .150" diameter stem and 8" stem length (5" stem length also available).
1% Accuracy of entire scale range.

STANDARD RANGES

Fahrenheit	Celsius
40-0-160°	0-100°
25-125°	10-150°
0-220°	0-200°
50-550°	

MODEL PT

1" diameter head, .150" diameter stem, 5" stem length with recalibrator. Includes pocket case and clip. Spike stems standard.
1% Accuracy of scale range.

Order by Model No., include scale range and stem length.

STANDARD RANGES

Fahrenheit	Celsius
40-0-180°	0-100°
25-125°	0-250°
0-220°	
50-550°	

Thermowell Conversion Kit

Designed to permit installation of Weiss Bimetal Thermometer in existing mercury-in-glass industrial thermometer thermowells.

Easy To Determine Stem Length

Measure exiting well depth by inserting a small diameter rod (or pencil will do) into well until it reaches the bottom (Fig.1). Using your thumb as the index, remove rod and measure distance from end of rod to the index point (Fig.2). Use selector table to determine thermometer stem length to fit well.



FIG.1

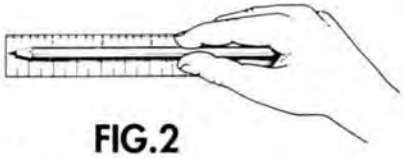
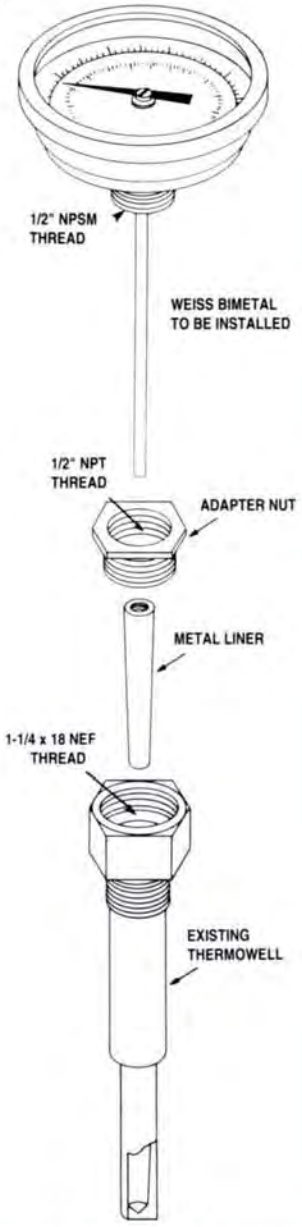


FIG.2

Assemble Adapter/Install Thermometer

Drop or push metal liner into well, thread adapter nut into well and tighten, install Weiss Bimetal Thermometer. Note: As with any thermowell, a small amount of graphite and oil on the lower 2" of the stem will improve response time.



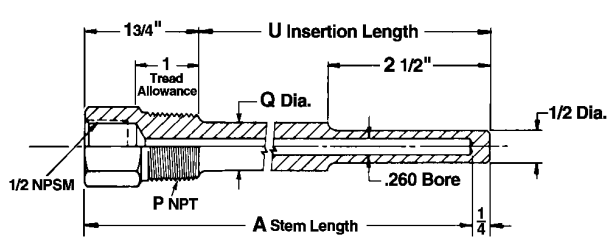
Stem Length Selection Table

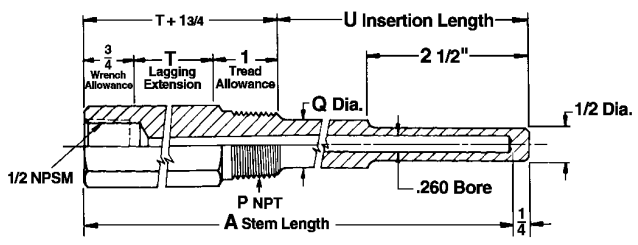
Nominal Stem Length	3-1/2"	6"	8"	9"	10"	12"	18"	24"
Well Depth	4-1/2"	6-1/2"	8-1/2"	9-1/2"	10-1/2"	12-1/2"	18-1/2"	24-1/2"
Bimetal Stem Length	4"	6"	*8"	9"	*10"	12"	18"	24"

* Non-standard stem length thermometer available with prompt delivery.

Thermowell Conversion Kit

Separable Socket - Series 3 & 5"





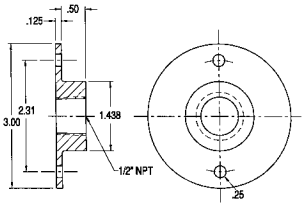
EXT TH'D P	CAT NO.	STEM LGTH. A	INSERT LGTH. U	SHANK DIA. Q
3/4" NPT	* **B25**	2 1/2	1	–
	* **B35**	4	2 1/2	3/4
	BR6	6	4 1/2	3/4
	BR9	9	7 1/2	3/4
	BR12	12	10 1/2	3/4
	BR15	15	13 1/2	3/4
	BR18	18	16 1/2	3/4
	BR24	24	22 1/2	3/4
1" NPT	**B35**	4	2 1/2	3/4
	BR6	6	4 1/2	3/4
	BR9	9	7 1/2	3/4
	BR12	12	10 1/2	3/4
	BR15	15	13 1/2	3/4
	BR18	18	16 1/2	3/4
	BR24	24	22 1/2	3/4

*1/2" NPT Available

EXT TH'D P	CAT NO.	STEM LGTH. A	INSERT LGTH. U	LAG EXT. T	SHANK DIA. Q
3/4" NPT	**BSS35**	4	1 1/2	1 3/4	3/4
	BN6	6	2 1/2	2	3/4
	BN9	9	4 1/2	3	3/4
	BN12	12	7 1/2	3	3/4
	BN15	15	10 1/2	3	3/4
	BN18	18	13 1/2	3	3/4
	BN24	24	19 1/2	3	3/4
1" NPT	**BSS35**	4	1 1/2	1 3/4	7/8
	BN6	6	2 1/2	2	7/8
	BN9	9	4 1/2	3	7/8
	BN12	12	7 1/2	3	7/8
	BN15	15	10 1/2	3	7/8
	BN18	18	13 1/2	3	7/8
	BN24	24	19 1/2	3	7/8

Wells should be used on all pressurized applications, to protect the stem of the thermometer from corrosion and physical damage and to facilitate removal of the thermometer without disturbing the process.

BF3 Flange



Also available with Fixed Extension Neck - Cat. No. BF3-2

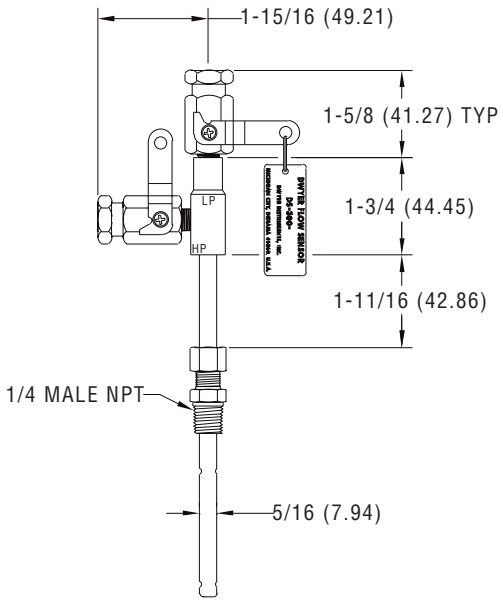
FAHRENHEIT	FIG. INTERVAL	SCALE DIV.	CELSIUS	FIG. INTERVAL	SCALE DIV.	DUAL SCALE - F&C	
-80/0/120	20°	2°	-50/0/50	10°	1°	-80/0/120F	-60/0/50C
-20/0/120	20°	2°	**0/50	5°	1/2°	-20/0/120F	-30/0/50C
**30/130	10°	1°	0/100	10°	1°	**30/130F	0/55C
0/200	20°	2°	0/150	10°	1°	0/200F	-15/0/90C
0/250	20°	2°	0/200	20°	2°	0/250F	-20/0/120C
50/300	20°	2°	0/300	50°	2°	50/300F	10/150C
50/400	50°	5°	*0/450	50°	5°	50/400F	10/200C
50/550	50°	5°	•*100/550	50°	5°	50/550F	10/260C
*100/800	100°	10°				*100/800F	40/425C
•*200/1000	100°	10°				•*200/1000F	100/540C

• Satisfactory for continuous service up to 800°F or 425°C. Can be used for intermittent service from 800-1000°F or 425-500°C.
* Minimum stem length for these Ranges is 4". ** Minimum stem length is 4" Straight and Vari-angle Form.

Series DS-300 Flow Sensors

Installation and Operating Instructions Flow Calculations





Series DS-300 Flow Sensors are averaging pitot tubes that provide accurate, convenient flow rate sensing. When purchased with a Dwyer Capsuhelic® for liquid flow or Magnehelic® for air flow, differential pressure gage of appropriate range, the result is a flow-indicating system delivered off the shelf at an economical price. Series DS-300 Flow Sensors are designed to be inserted in the pipeline through a compression fitting and are furnished with instrument shut-off valves on both pressure connections. Valves are fitted with 1/8″ female NPT connections. Accessories include adapters with 1/4″ SAE 45° flared ends compatible with hoses supplied with the Model A-471 Portable Capsuhelic® kit. Standard valves are rated at 200°F (93.3°C). Where valves are not required, they can be omitted at reduced cost. Series DS-300 Flow Sensors are available for pipe sizes from 1″ to 10″.

INSPECTION

Inspect sensor upon receipt of shipment to be certain it is as ordered and not damaged. If damaged, contact carrier.

INSTALLATION

General - The sensing ports of the flow sensor must be correctly positioned for measurement accuracy. The instrument connections on the sensor indicate correct positioning. The side connection is for total or high pressure and should be pointed upstream. The top connection is for static or low pressure.

Location - The sensor should be installed in the flowing line with as much straight run of pipe upstream as possible. A rule of thumb is to allow 10 - 15 pipe diameters upstream and 5 downstream. The table below lists recommended up and down piping.

PRESSURE AND TEMPERATURE

Maximum: 200 psig (13.78 bar) at 200°F (93.3°C).

Upstream and Downstream Dimensions in Terms of Internal Diameter of Pipe*

Upstream Condition	Minimum Diameter of Straight Pipe		
	Upstream		Downstream
	In-Plane	Out of Plane	
One Elbow or Tee	7	9	5
Two 90° Bends in Same Plane	8	12	5
Two 90° Bends in Different Plane	18	24	5
Reducers or Expanders	8	8	5
All Valves**	24	24	5

* Values shown are recommended spacing, in terms of internal diameter for normal industrial metering requirements. For laboratory or high accuracy work, add 25% to values.

** Includes gate, globe, plug and other throttling valves that are only partially opened. If valve is to be fully open, use values for pipe size change. **CONTROL VALVES SHOULD BE LOCATED AFTER THE FLOW SENSOR.**

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361, U.S.A.
Phone: 219/879-8000 **www.dwyer-inst.com**
Fax: 219/872-9057 **e-mail: info@dwyer-inst.com**

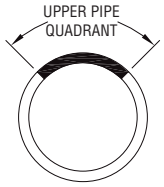
POSITION

Be certain there is sufficient clearance between the mounting position and other pipes, walls, structures, etc, so that the sensor can be inserted through the mounting unit once the mounting unit has been installed onto the pipe.

Flow sensors should be positioned to keep air out of the instrument connecting lines on liquid flows and condensate out of the lines on gas flows. The easiest way to assure this is to install the sensor into the pipe so that air will bleed into, or condensate will drain back to, the pipe.

For Air or Gas Flow

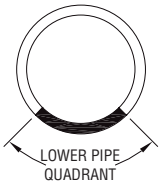
Install in upper quadrant of pipe



Condensate drains back to pipe

For Liquid or Steam Flow

Install in lower quadrant of pipe



Air bleeds back to pipe

INSTALLATION

1. When using an A-160 thred-o-let, weld it to the pipe wall. If replacing a DS-200 unit, an A-161 bushing (1/4˝ x 3/8˝) will be needed.

2. Drill through center of the thred-o-let into the pipe with a drill that is slightly larger than the flow sensor diameter.

3. Install the packing gland using proper pipe sealant. If the packing gland is disassembled, note that the tapered end of the ferrule goes into the fitting body.

4. Insert sensor until it bottoms against opposite wall of the pipe, then withdraw 1/16˝ to allow for thermal expansion.

5. Tighten packing gland nut finger tight. Then tighten nut with a wrench an additional 1-1/4 turns. Be sure to hold the sensor body with a second wrench to prevent the sensor from turning.

INSTRUMENT CONNECTION

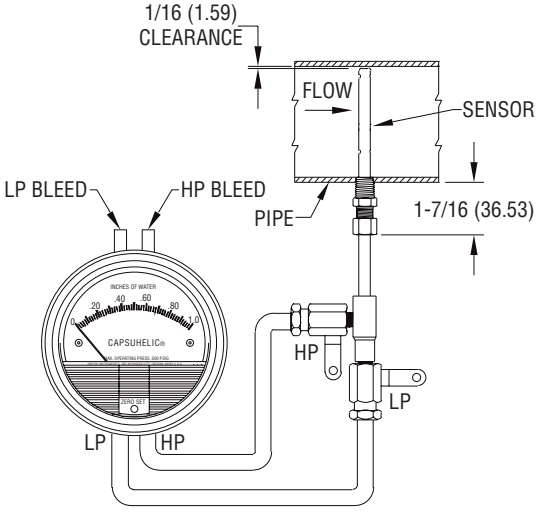
Connect the slide pressure tap to the high pressure port of the Magnehelic® (air only) or Capsuhelic® gage or transmitting instrument and the top connection to the low pressure port.

See the connection schematics below.

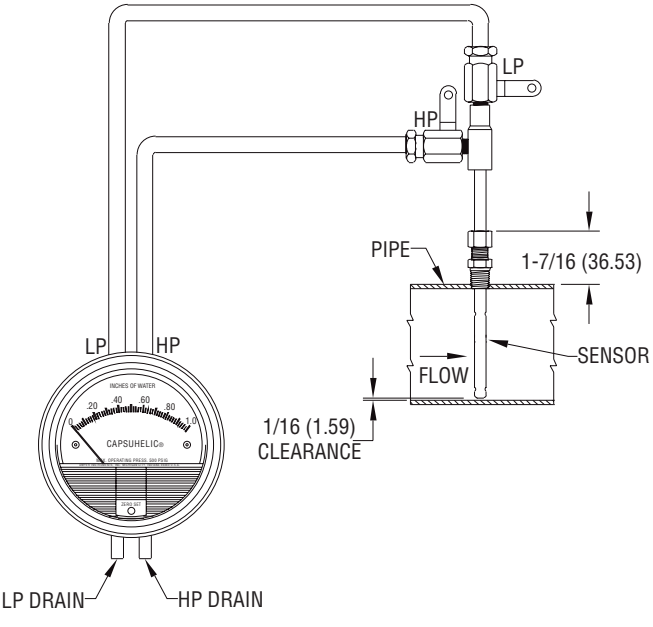
Bleed air from instrument piping on liquid flows. Drain any condensate from the instrument piping on air and gas flows.

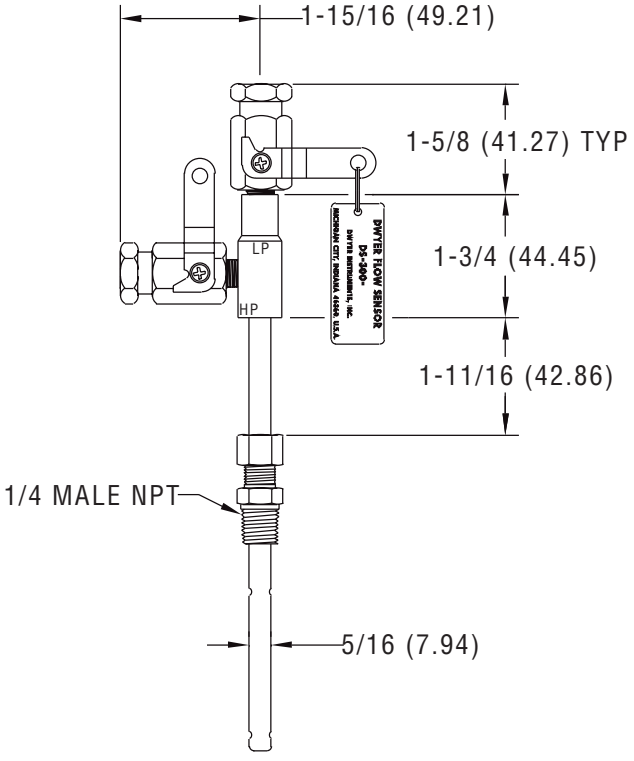
Open valves to instrument to place flow meter into service. For permanent installations, a 3-valve manifold is recommended to allow the gage to be zero checked without interrupting the flow. The Dwyer A-471 Portable Test Kit includes such a device.

Water Flow



Air or Gas Flow





Flow Calculations and Charts

The following information contains tables and equations for determining the differential pressure developed by the DS-300 Flow Sensor for various flow rates of water, steam, air or other gases in different pipe sizes.

This information can be used to prepare conversion charts to translate the differential pressure readings being sensed into the equivalent flow rate. When direct readout of flow is required, use this information to calculate the full flow differential pressure in order to specify the exact range of Dwyer Magnehelic® or Capsuhelic® gage required. Special ranges and calculations are available for these gages at minimal extra cost. See bulletins A-30 and F-41 for additional information on Magnehelic® and Capsuhelic® gages and DS-300 flow sensors.

For additional useful information on making flow calculations, the following service is recommended: Crane Valve Co. Technical Paper No. 410 “Flow of Fluids Through Valves, Fittings and Pipe.” It is available from Crane Valve Company, www.cranevalve.com.

Using the appropriate differential pressure equation from Page 4 of this bulletin,calculate the differential pressure generated by the sensor under normal operating conditions of the system. Check the chart below to determine if this value is within the recommended operating range for the sensor. Note that the data in this chart is limited to standard conditions of air at 60°F (15.6°C) and 14.7 psia static line pressure or water at 70°F (21.1°C). To determine recommended operating ranges of other gases, liquids an/or operating conditions, consult factory.

Note: the column on the right side of the chart which defines velocity ranges to avoid. Continuous operation within these ranges can result in damage to the flow sensor caused by excess vibration.

Pipe Size (Schedule 40)	Flow Coefficient “K”	Operating Ranges Air @ 60°F & 14.7 psia (D/P in. W.C.)	Operating Ranges Water @ 70°F (D/P in. W.C.)	Velocity Ranges Not Recommended (Feet per Second)
1	0.52	1.10 to 186	4.00 to 675	146 to 220
1-1/4	0.58	1.15 to 157	4.18 to 568	113 to 170
1-1/2	0.58	0.38 to 115	1.36 to 417	96 to 144
2	0.64	0.75 to 75	2.72 to 271	71 to 108
2-1/2	0.62	1.72 to 53	6.22 to 193	56 to 85
3	0.67	0.39 to 35	1.43 to 127	42 to 64
4	0.67	0.28 to 34	1.02 to 123	28 to 43
6	0.71	0.64 to 11	2.31 to 40	15 to 23
8	0.67	0.10 to 10	0.37 to 37	9.5 to 15
10	0.70	0.17 to 22	0.60 to 79	6.4 to 10

FLOW EQUATIONS

1. Any Liquid

$$Q\ (GPM) = 5.668 \times K \times D^2 \times \sqrt{\Delta P / S_f}$$

2. Steam or Any Gas

$$Q\ (lb/Hr) = 359.1 \times K \times D^2 \times \sqrt{p \times \Delta P}$$

3. Any Gas

$$Q\ (SCFM) = 128.8 \times K \times D^2 \times \sqrt{\frac{P \times \Delta P}{(T + 460) \times S_s}}$$

DIFFERENTIAL PRESSURE EQUATIONS

1. Any Liquid

$$\Delta P\ (in.\ WC) = \frac{Q^2 \times S_f}{K^2 \times D^4 \times 32.14}$$

2. Steam or Any Gas

$$\Delta P\ (in.\ WC) = \frac{Q^2}{K^2 \times D^4 \times p \times 128{,}900}$$

3. Any Gas

$$\Delta P\ (in.\ WC) = \frac{Q^2 \times S_s \times (T + 460)}{K^2 \times D^4 \times P \times 16{,}590}$$

Technical Notations

The following notations apply:

ΔP = Differential pressure expressed in inches of water column
Q = Flow expressed in GPM, SCFM, or PPH as shown in equation
K = Flow coefficient— See values tabulated on Pg. 3.
D = Inside diameter of line size expressed in inches.

For square or rectangular ducts, use: $D = \sqrt{\frac{4 \times \text{Height} \times \text{Width}}{\pi}}$

P = Static Line pressure (psia)
T = Temperature in degrees Fahrenheit (plus 460 = °Rankine)
p = Density of medium in pounds per square foot
S_f = Sp Gr at flowing conditions
S_s = Sp Gr at 60°F (15.6°C)

SCFM TO ACFM EQUATION

$$SCFM = ACFM \times \left(\frac{14.7 + PSIG}{14.7}\right) \left(\frac{520^*}{460 + °F}\right)$$

$$ACFM = SCFM \times \left(\frac{14.7}{14.7 + PSIG}\right) \left(\frac{460 + °F}{520}\right)$$

$$\text{POUNDS PER CUBIC FOOT STD.} = \text{POUNDS PER CUBIC FOOT ACT.} \times \left(\frac{14.7}{14.7 + PSIG}\right) \left(\frac{460 + °F}{520^*}\right)$$

$$\text{POUNDS PER CUBIC FOOT ACT.} = \text{POUNDS PER CUBIC FOOT STD.} \times \left(\frac{14.7 + PSIG}{14.7}\right) \left(\frac{520^*}{460 + °F}\right)$$

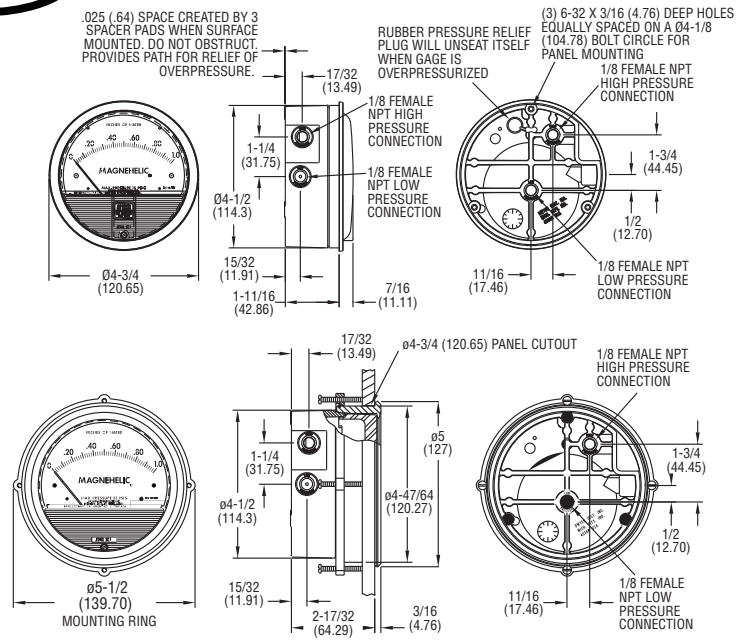
1 Cubic foot of air = 0.076 pounds per cubic foot at 60° F (15.6°C) and 14.7 psia.
* (520°= 460 + 60°) Std. Temp. Rankine

©Copyright 2004 Dwyer Instruments, Inc.
Printed in U.S.A. 7/04 FR# 72-440451-01 Rev. 2

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361, U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

Bulletin A-27

Magnehelic® Differential Pressure Gage



**The blowout plug is not used on models above 180 inches of water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.*

STANDARD GAGE ACCESSORIES: Two 1/8″ NPT plugs for duplicate pressure taps, two 1/8″ pipe thread to rubber tubing adapters and three flush mounting adapters with screws.

MP AND HP GAGE ACCESSORIES: Mounting ring and snap ring retainer substituted for 3 adaptors, 1/4" compression fittings replace 1/8" pipe thread to rubber tubing adaptors.

OVERPRESSURE PROTECTION: Standard Magnehelic® Differential Pressure Gages are rated for a maximum pressure of 15 psig and should not be used where that limit could be exceeded. Models employ a rubber plug on the rear which functions as a relief valve by unseating and venting the gage interior when over pressure reaches approximately 25 psig (excludes MP and HP models). To provide a free path for pressure relief, there are four spacer pads which maintain .023″ clearance when gage is surface mounted. Do not obstruct the gap created by these pads.

SPECIFICATIONS

Service: Air and non-combustible, compatible gases. (Natural Gas option available.)
Wetted Materials: Consult factory.
Housing: Die cast aluminum case and bezel, with acrylic cover. (MP model has polycarbonate cover).
Accuracy: ±2% of full scale (±3% on - 0, -100 Pa, -125 Pa, 10MM and ±4% on -00, - 00N, -60 Pa, -6MM ranges), throughout range at 70°F (21.1°C).
Pressure Limits: -20″ Hg to 15 psig.† (-0.677 bar to 1.034 bar); MP option: 35 psig (2.41 bar), HP option: 80 psig (5.52 bar).
Overpressure: Relief plug opens at approximately 25 psig (1.72 bar), standard gages only. The blowout plug is not used on models above 180 inches of water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.
Temperature Limits: 20 to 140°F (-6.67 to 60°C). *Low temperature models available as special option.
Size: 4″ (101.6 mm) diameter dial face.
Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
Process Connections: 1/8″ female NPT duplicate high and low pressure taps - one pair side and one pair back.
Weight: 1 lb 2 oz (510 g), MP & HP 2 lb 2 oz (963 g).

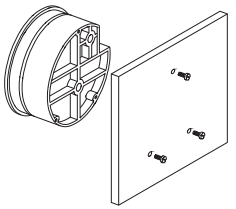
†For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options.

Note: May be used with hydrogen when ordering Buna-N diaphragm. Pressure must be less than 35 psi.

INSTALLATION

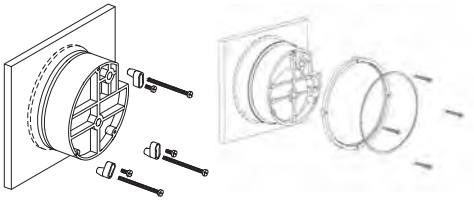
Select a location free from excessive vibration and where the ambient temperature will not exceed 140°F (60°C). Also, avoid direct sunlight which accelerates discoloration of the clear plastic cover. Sensing lines may be run any necessary distance. Long tubing lengths will not affect accuracy but will increase response time slightly. Do not restrict lines. If pulsating pressures or vibration cause excessive pointer oscillation, consult the factory for ways to provide additional damping.
All standard Magnehelic® Differential Pressure Gages are calibrated with the diaphragm vertical and should be used in that position for maximum accuracy. If gages are to be used in other than vertical position, this should be specified on the order. Many higher range gages will perform within tolerance in other positions with only rezeroing. Low range models of 0.5" w.c. plus 0.25" w.c. and metric equivalents must be used in the vertical position only.

SURFACE MOUNTING



Locate mounting holes, 120° apart on a 4-1/8" dia. circle. Use No. 6-32 machine screws of appropriate length.

FLUSH MOUNTING



Provide a 4-9/16" dia. (116 mm) opening in panel. Provide a 4-3/4" dia. (120 mm) opening for MP and HP models. Insert gage and secure in place with No. 6-32 machine screws of appropriate length, with adapters, firmly secured in place.

PIPE MOUNTING

To mount gage on 1-1/4" - 2" pipe, order optional A-610 pipe mounting kit.

TO ZERO GAGE AFTER INSTALLATION

Set the indicating pointer exactly on the zero mark, using the external zero adjust screw on the cover at the bottom. Note that the zero check or adjustment can only be made with the high and low pressure taps both open to atmosphere.

OPERATION

Positive Pressure: Connect tubing from source of pressure to either of the two high pressure ports. Plug the port not used. Vent one or both low pressure ports to atmosphere.
Negative Pressure: Connect tubing from source of vacuum or negative pressure to either of the two low pressure ports. Plug the port not used. Vent one or both high pressure ports to atmosphere.
Differential Pressure: Connect tubing from the greater of two pressure sources to either high pressure port and the lower to either low pressure port. Plug both unused ports.
When one side of the gage is vented in dirty, dusty atmosphere, we suggest an A-331 Filter Vent Plug be installed in the open port to keep inside of gage clean.

A. For portable use of temporary installation use 1/8" pipe thread to rubber tubing adapter and connect to source of pressure with flexible rubber or vinyl tubing.
B. For permanent installation, 1/4" O.D., or larger, copper or aluminum tubing is recommended.

MAINTENANCE

No lubrication or periodic servicing is required. Keep case exterior and cover clean. Occasionally disconnect pressure lines to vent both sides of gage to atmosphere and re-zero. Optional vent valves should be used in permanent installations. The Series 2000 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.

WARNING

Attempted field repair may void your warranty. Recalibration or repair by the user is not recommended.

TROUBLE SHOOTING TIPS

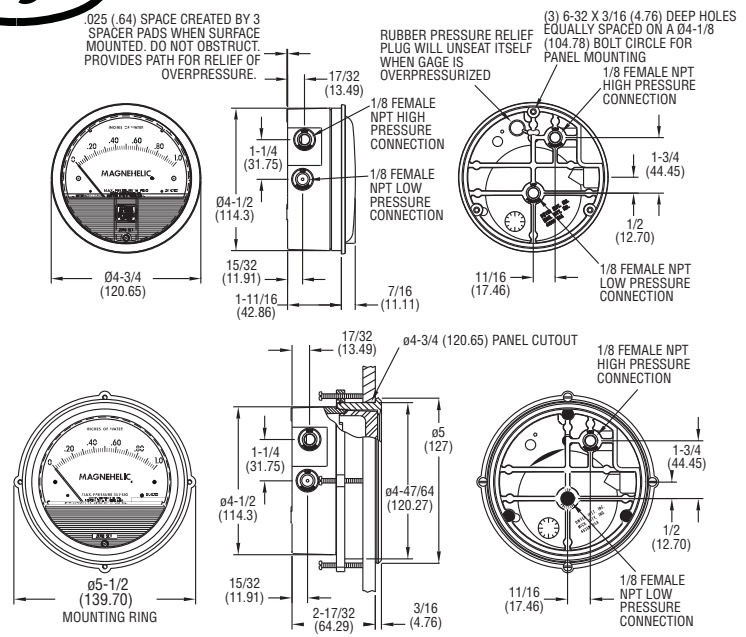
Gage won't indicate or is sluggish.

1. Duplicate pressure port not plugged.
2. Diaphragm ruptured due to overpressure.
3. Fittings or sensing lines blocked, pinched, or leaking.
4. Cover loose or "O"ring damaged, missing.
5. Pressure sensor, (static tips, Pitot tube, etc.) improperly located.
6. Ambient temperature too low. For operation below 20°F (-7°C), order gage with low temperature, (LT) option.

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 Fax: 219/872-9057
www.dwyer-inst.com e-mail: info@dwyer-inst.com

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 Fax: 219/872-9057
www.dwyer-inst.com e-mail: info@dwyer-inst.com

Magnehelic® Differential Pressure Gage
INSTRUCCIONES Y LISTA DE PARTES



(El tapón de goma no es usado en los modelos sobre 180 pulgadas de presión de agua, modelos de presión media o alta, o en instrumentos que requieren un elastizado en cualquier otro material que no sea silicona para el diafragma.)

Accesorios: Tapones 1/8" NPT para las conexiones duplicadas, dos adaptadores de rosca 1/8" NPT a tubo de goma; y tres adaptadores para montaje al ras y tornillos.

Accesorios para Los Modelos MP y HP: El anillo de montaje y el retensor del anillo de presión son substituidos por 3 adaptadores, accesorios de compresión de 1/4" remplazan a los adaptadores de rosca 1/8" a tubo de goma.

Protección Para Sobrepresión: Los Manómetros Diferenciales Magnehelic Estándar están clasificados para una presión máxima de 15 psi y no se deberían de usar donde el límite puede excederse. Los modelos emplean un tapón de goma en el trasero que funciona como una válvula de alivio desmontándose y ventilando el interior del instrumento cuando la sobrepresión alcanza aproximadamente 25 psig. (Los modelos MP y HP son excluidos) Para proveer un camino libre para el alivio de presión, el instrumento viene con rodilleras que mantienen un espacio de .023" cuando el instrumento es montado en superficie. No bloque el espacio creado por estas rodilleras.

† Para aplicaciones con alto ciclo de velocidad dentro de la clasificación de presión total del instrumento, la próxima clasificación mas alta es recomendada. Vea las opciones de media y alta presión.

El instrumento puede ser usado con hidrogeno cuando se ordena con diafragma de Buna-N. La presion tiene que ser menos de 35 psi.

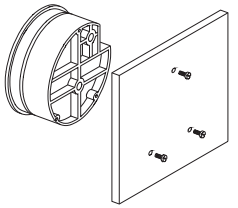
ESPECIFICACIONES

Servicio: aire y gases no combustibles, gases compatibles. (ópcion disponible para uso con gas natural).
Materiales Mojados: Consulte con la fábrica.
Carcasa: Caja y anillo de retención de aluminio fundido a presión con tapadera de acrílico. (El modelo MP tiene la tapadera de policarbonato.)
Exactitud: ±2% de fondo de escala a 21 °C
Mod. 2000-0 ±3%; Mod. 2000-00 ±4%
Límite de Presión: -20 Hg. a 15 psig. † (-0.677 bar a 1,034 bar); opción MP: 35 psig (2.41 bar), opción HP: 80 psig (5.52 bar).
Sobrepresión: El tapón de alivio se abre aproximadamente a los 25 psig, modelos estandard únicamente. El tapón de goma no es usado en los modelos sobre 180 pulgadas de presión de agua, modelos de presión media o alta, o en instrumentos que requieren un elastizado en cualquier otro material que no sea silicio para el diafragma.
Límite de Temperatura: -6.67 a 60ºC. * Modelos de baja temperatura disponibles como opción especial.
Dimensiones: diám. 120,65 mm x 55,6 prof.
Orientación de Montaje: El diafragma debe ser usado solo en posición vertical. Consulte con la fábrica para otras orientaciones de posición.
Conexiones: 1/8" NPT para alta y baja presión, duplicadas (atrás, a los lados).
Peso: 510 g, MP y HP 963 g.

Instalacíon

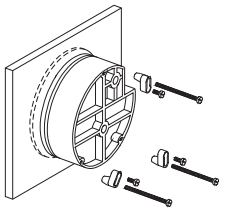
Seleccione un lugar libe de exceso de vibraciones, y donde la temperatura ambiente no supere los 60°C. Evite luz solar directa, para evitar decoloración de la cubierta plástica. Las conexiones de proceso pueden tener cualquier longitud sin afectar la exactitud, pero pueden extender el tiempo de respuesta del instrumento. Si hay pulsación de presión o vibración, consulte a fábrica sobre medios de amortiguación.
Los MAGNEHELIC han sido calibrados con el diafragma vertical, y deben ser usados en esas condiciones. Para otras posiciones, se debe especificar en la orden de provisión. Los de rango elevado pueden ser usados en diversas posiciones, pero se debe reajustar el cero. Los modelos de la serie 2000-00 y equivalentes métricos deben ser usados solo verticalmente.

Montaje en Superficie



Perfore tres orificios separados 120° sobre una circunferencia de 105 mm de diám. y sostenga el instrumento con tres tornillos 6-32 de long. apropiada.

Montaje alineado



Perfore un circulo de 115 mm de diám. en el panel, y sostenga el instrumento mediante los.

Montaje Sobre Pipa

Para montar el instrumento sobre pipas de 32 a 50 mm de diám., ordene el adaptador opcional A-610.

Puesta a Cero Después de Instalar

Deje las conexiones de presión abiertas a atmósfera y ajuste a cero desde tornillo del panel frontal.

Operacion

Presión Positiva: Conecte la tubería desde la fuente de presión a cualquiera de las dos conexiones de alta presión (HIGH), bloqueando la no usada; Las conexiones de baja (LOW) presión pueden dejarse uno o los dos abiertos a la atmósfera.
Presión Negativa: Repita el procedimiento anterior, conectado en este caso las conexiones de baja presión (LOW). Deje las otras conexiones abiertas.
Presión diferencial: Conecte el tubo correspondiente a la presión más positiva al cualquiera de los conectores de alta presión (HIGH) bloqueando el no usado, y la más baja presión o presión negativa (vacío) al conector de baja presión (LOW). Puede usarse cualquier conector de cada par, dejando siempre uno bloqueado. Si se deja una conexión abierta a la atmósfera, se recomienda el uso de un filtro tipo A-331 en el lugar correspondiente para mantener limpio el interior del instrumento. Para uso portable, o instalación temporaria, uso adapta dores para rosca de tubo de 1/89 a tubo flexible, y conecte a proceso mediante una tubería de goma, o equivalente. Para instalación permanente, se recomienda el uso de tubo de cobre o aluminio de por lo menos 1/4" de diám. exterior.

No se requiere mantenimiento específico alguno, ni lubricación. Periódicamente, desconecte el instrumento, ventee la presión acumulada, y reajuste el cero. Para instalaciones permanentes, se debe usar un juego de válvulas de montaje permanente para el venteo.
El instrumento de Serie 2000 no puede ser re parado en el campo y debería de ser regresado si reparos son necesarios (Reparos en el campo no deben de ser intentados y pueden cancelar la garantía.). Asegurarse de incluir una descripción breve del problema más cualquier notas pertinentes a la aplicación para devolución de productos antes de enviar el instrumento.

Cuidado! : La recalibración en campo puede invalidar la garantía. No se recomienda la recalibracion por parte del usuario. En caso necesario envie el instrumento con transporte pago a:

Localización De Fallas

• *El instrumento no indica, o es lento en reacción.*
1. Conexión duplicada abierta.
2. Diafragma roto por sobrepresión.
3. Tubería de conexión perforada, con pérdidas o pinchazos.
4. Anillo de retención flojo, u "O " ring dañado.
5. Conexión a proceso indebida o inadecuada.
6. Temperatura muy baja. Para este caso ordene tipos LT (baja temperatura).

©Copyright 2011 Dwyer Instruments, Inc.
Printed in U.S.A. 1/11 FR# 12-440212-10 Rev.3

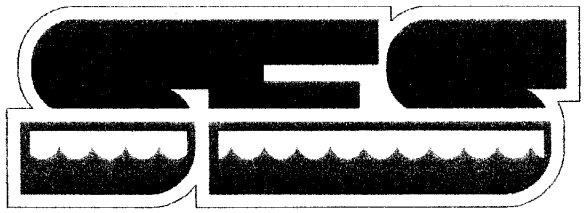
DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 Fax: 219/872-9057
www.dwyer-inst.com e-mail: info@dwyer-inst.com

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 Fax: 219/872-9057
www.dwyer-inst.com e-mail: info@dwyer-inst.com



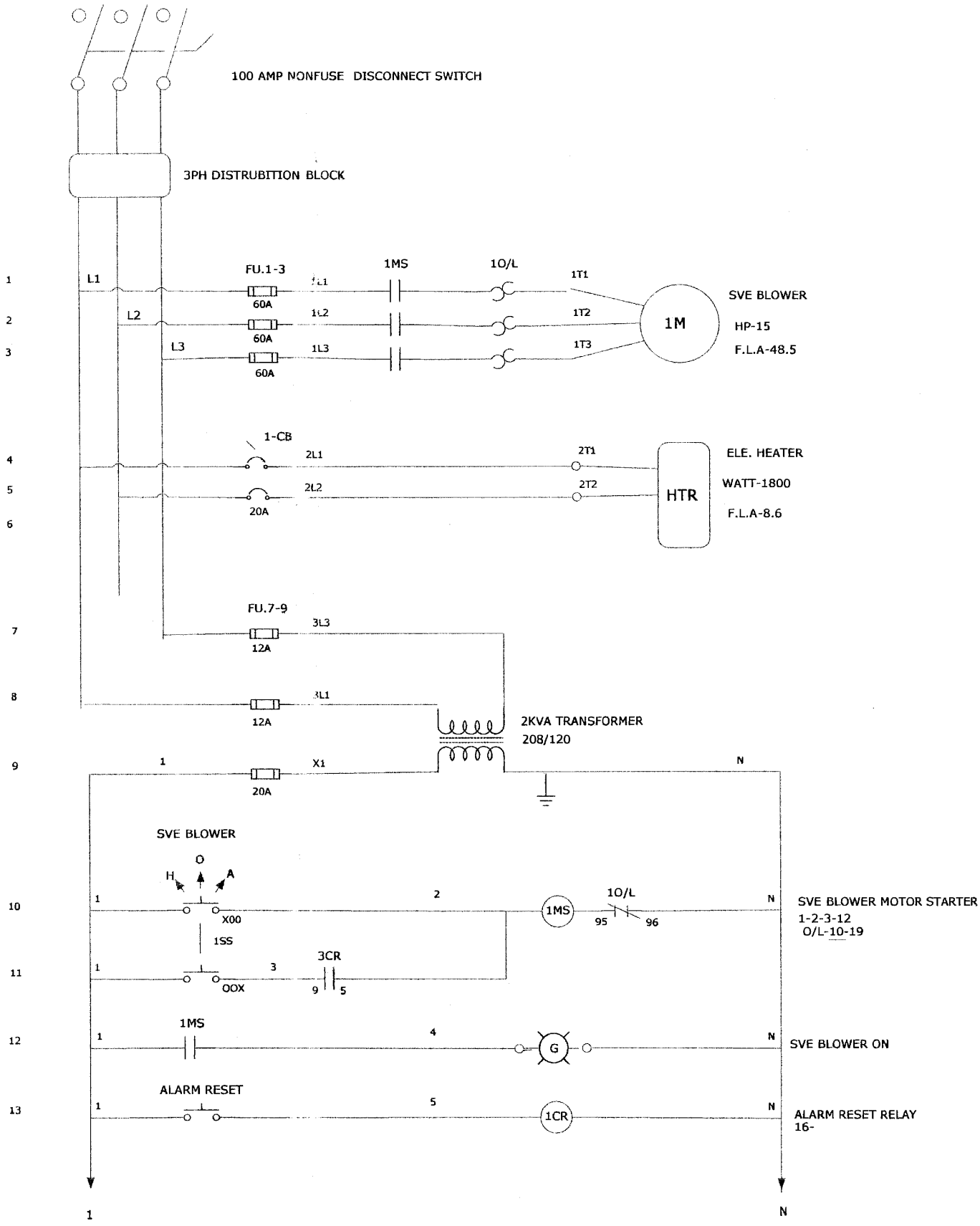
Section 4:

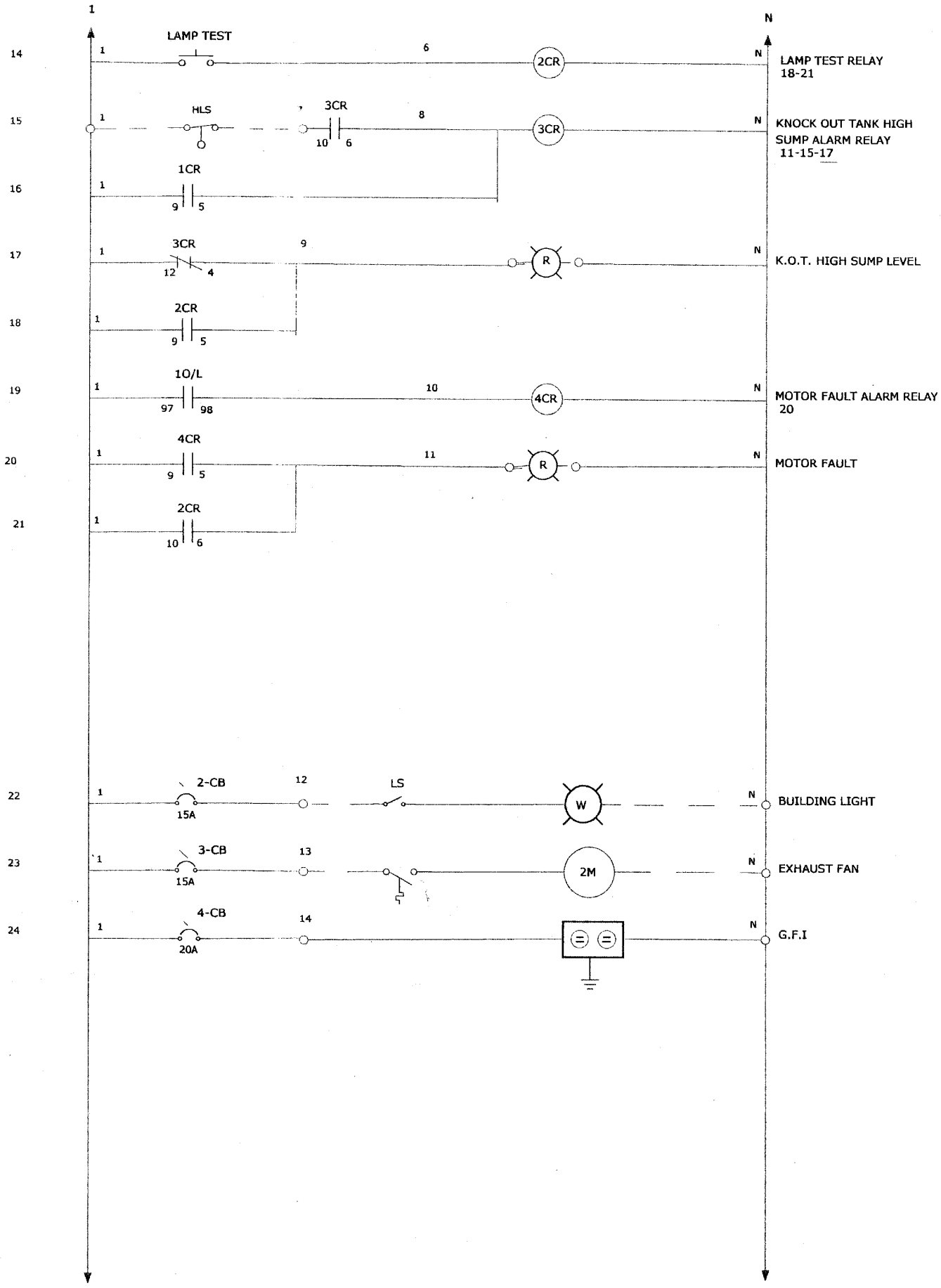
Control Panel



DRAWN	DESIGN	DATE	PROJECT
DF	DF	3-4-11	FPM
REVISE			PH 1-989-875-6500
			FAX 1-989-875-8880

208 VOLTS 3PHASE 60HZ




1
N
14
LAMP TEST
1
6
2CR
N
LAMP TEST RELAY
18-21
15
HLS
3CR
1
8
10
6
3CR
N
KNOCK OUT TANK HIGH
SUMP ALARM RELAY
11-15-17
16
1CR
1
9
5
17
3CR
1
9
12
4
R
N
K.O.T. HIGH SUMP LEVEL
18
2CR
1
9
5
19
1O/L
1
10
97
98
4CR
N
MOTOR FAULT ALARM RELAY
20
20
4CR
1
11
9
5
R
N
MOTOR FAULT
21
2CR
1
10
6
22
2-CB
1
12
15A
LS
W
N
BUILDING LIGHT
23
3-CB
1
13
15A
2M
N
EXHAUST FAN
24
4-CB
1
14
20A
N
G.F.I



AIR ENERGY, INC.

6 NORFOLK AVENUE

SO. EASTON, MA 02375

OPERATION & MAINTENANCE MANUAL

Project:

SVE Rental Skid

Table of Contents

Section 1: Major System Components

- Regenerative Blower
- Phase Separator
- Air Filtration
- Vacuum Relief Valve

Section 2: System Drawings

- System Layout Drawing

Section 3: Instrumentation

- Level Control
- Pressure, Vacuum, & Temperature Indicators
- Differential Flow Sensor
- Differential Pressure Indicator

Section 4: Control Panel

- Electrical Schematics

Buildings 785 and 786 Bill of Materials

System Component	Characteristics
Blower TEFC 10 HP electric motor (GAST® Model R7100A-3)	Maximum flow: 420 SCFM, Maximum Vacuum: 110 inch w.g.
60 gallon Moisture Knockout Vessel High Level Alarm Switch (Flotect® Model L6)	Required to avoid moisture impact on blower. When moisture knockout vessel reaches maximum volume, high level alarm switch is initiated. Equipped with manual bottom drain.
Inline Particulate Filter (Solberg® Model CT-235P 3" NPT)	An inlet filter is required to avoid the negative impact of soil particles present in the extracted vapor.
Air Dilution Gate Valve (Dilution Filter Model FS-19P-150)	An air dilution valve is required to adjust the systems applied vacuum.
Vacuum Relief Valve (Kunkle® Model 215V)	A vacuum relief valve is required to avoid damage to the blower in the event the flow is obstructed.
Horizontal Well Manifold (3 inch PVC)	Two point manifold with individual ball valves to control flow rate and vacuum per each horizontal well.
Gauges: Analog Dial Bimetal Thermometers, WIKA® Low Vacuum Gauges, Ashcroft® Low Pressure Gauge, Magnehelic® Differential Pressure Gauges, Pitot Tubes (Series DS-300 Flow Sensors)	Outlet temperature gauge before and after vapor treatment, inlet vacuum gauge before and after filter, outlet pressure gauge, and two flow meters, vacuum gauges and temperature gauges on each leg of manifold.
Control Panel	Input voltage: 460V, 3 phase power, HOA Switch, motor starter with adjustable thermal overload protection, high level alarm light, motor circuit breaker and main disconnect.
Vapor After Treatment	Two air purification canisters (G3-S) with 140 pounds granular activated carbon installed to treat vapor extracted from the soil.
Heat Exchanger (Model ACA® 6302-3)	Air cooled heat exchanger creates optimal influent temperatures for efficient absorption through granular activated carbon treatment.
Enclosure: wooden shed 8 ft X 12 ft. Heater: 3,000 - 4,000 watt electric heater, TPI model HF684TC.	System will be located in unheated former airplane hangar and needs to be enclosed with lights, heater, insulation, and outlet.

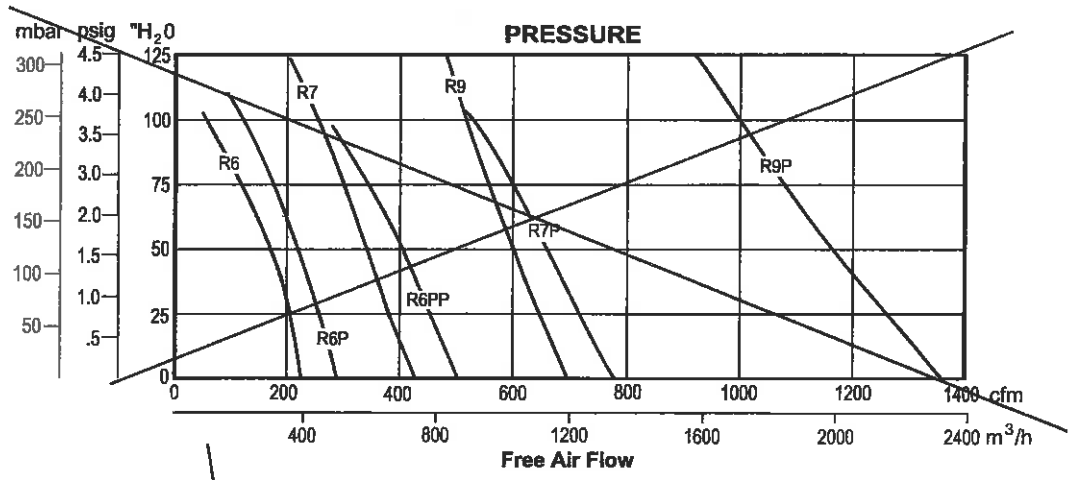
SECTION 1:

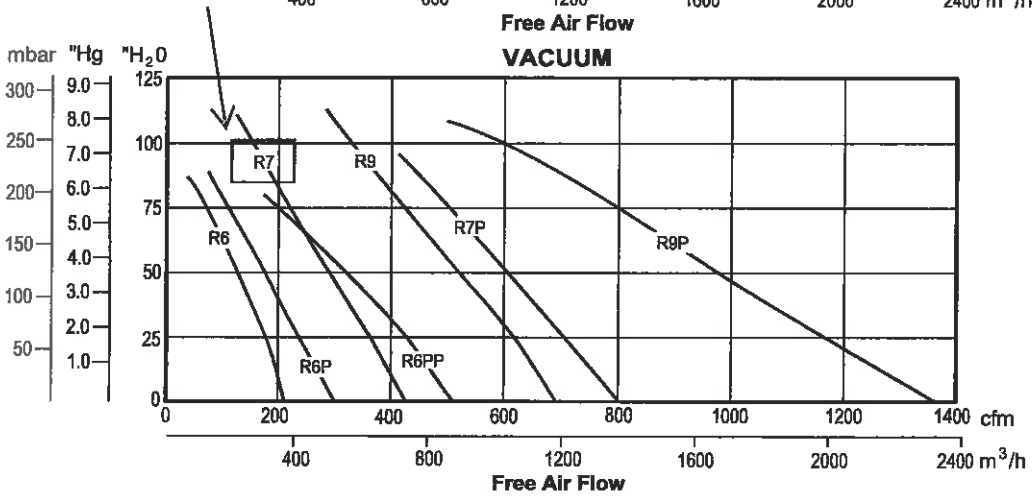
MAJOR SYSTEM COMPONENTS

Performance Curves - Mid Range for Pressure/Vacuum

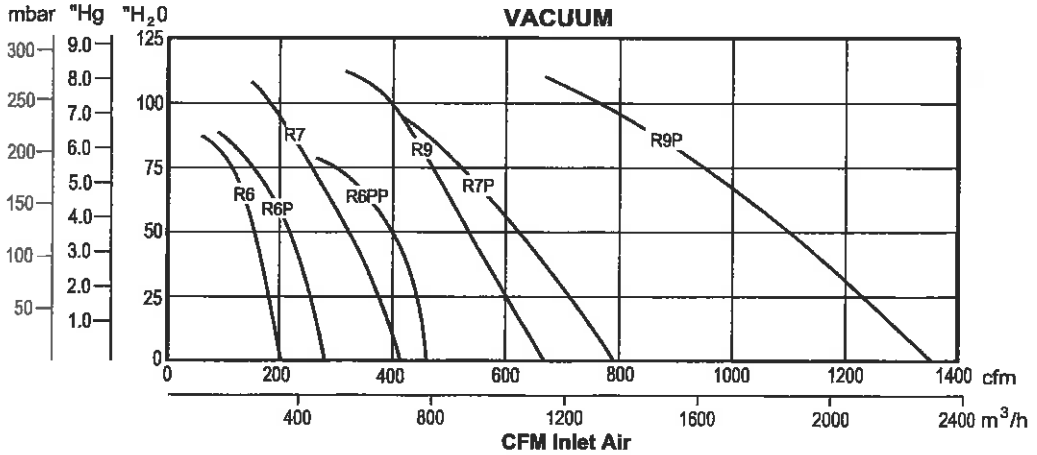
Motor mounted series R6, R6P, R6PP, R7, R7P, R9, R9P

Performance at 60 Hz





Gast advertises blower performance in Free Air Flow, or air subjected to only atmospheric pressure. (See above curves)
Some blower manufacturers advertise vacuum performance in CFM Inlet Air - measurement of the suction of air at a specific temperature at the inlet port and a specific discharge pressure at the exhaust port, which can be perceived as enhanced performance over Free Air Flow rated blowers. Therefore, we are also providing the following vacuum performance for Gast blowers in CFM Inlet Air for comparison to other blower manufacturer's advertising.



®Registered Trademark/™Trademark of Gast Manufacturing Inc., Copyright ©2001 Gast Manufacturing Inc. All rights reserved.



R7 SERIES
MODELS R7100A-3, R7100B-1

MAX. PRESSURE – 125" H_2O (60 Hz), 115" H_2O (50 Hz)
MAX. VACUUM – 110" H_2O (60 Hz), 90" H_2O (50 Hz)
MAX. AIR FLOW – 420 CFM (60 Hz), 350 CFM (50 Hz)

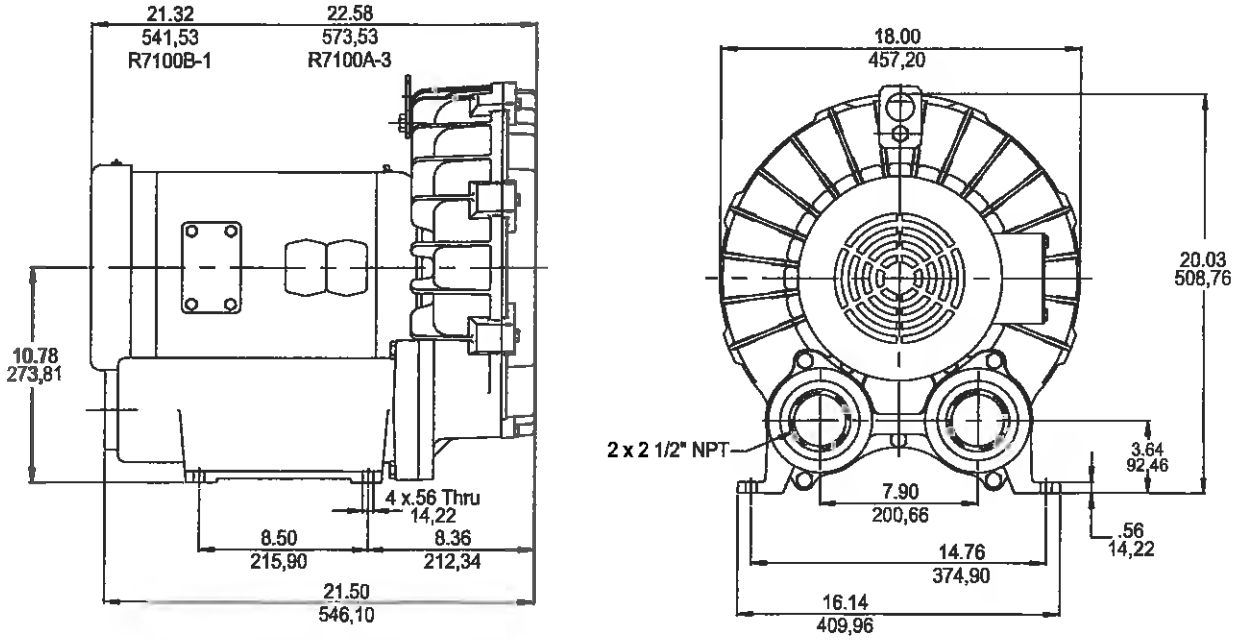
PRODUCT FEATURES

- Rugged construction, low maintenance
- Oilless operation
- UL and CSA approved TEFC motors with permanently sealed ball bearings
- IP54 rated enclosure on motors
- Aluminum impeller; cast iron cover and housing
- Can be mounted in any plane
- Inlet and outlet have internal muffling

RECOMMENDED ACCESSORIES

- Pressure gauge AE133A
- Inlet filter AJ126G (pressure)
- Vacuum gauge AE134
- Vacuum gauge for monitoring inlet filter restriction AJ497
- Pressure/vacuum relief valve AG258
- Silencer for vacuum relief valve AJ121D
- Inline filter AJ151H (vacuum)
- External muffler for additional silencing AJ121G
- Liquid separator RMS400 (vacuum)

Product Dimensions (in. mm)

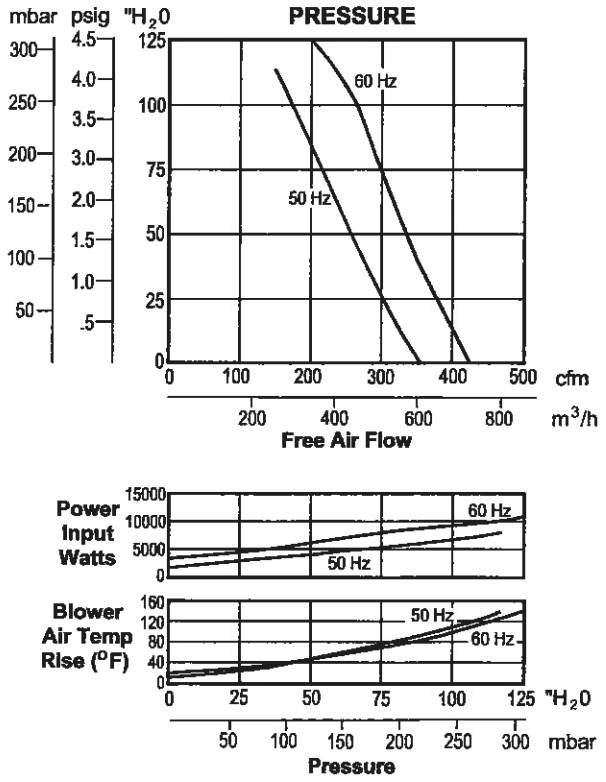


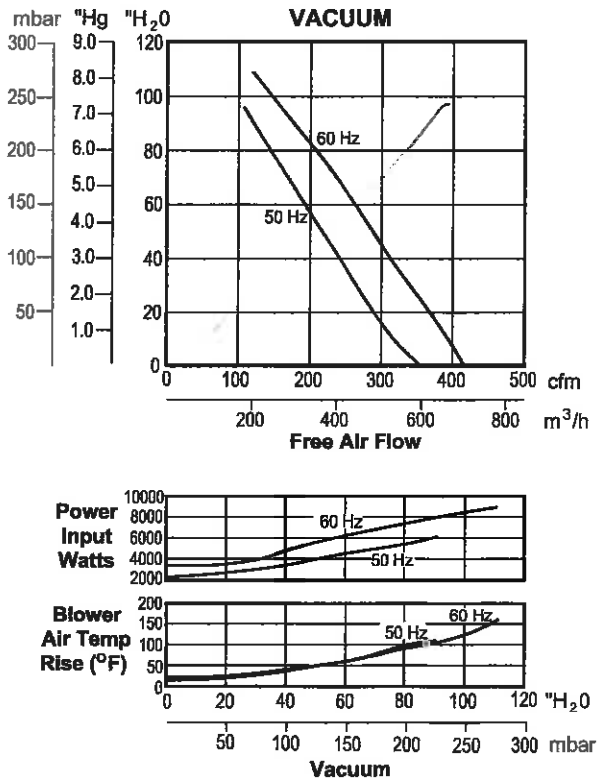
Gast Manufacturing Inc., A Unit of IDEX Corporation, Benton Harbor, MI USA • ph 616-926-6171 • fx 616-925-8288 • www.gastmfg.com
®Registered Trademark/™Trademark of Gast Manufacturing Inc., Copyright © 2001 Gast Manufacturing Inc. All rights reserved.

Product Specifications

MODEL NUMBER		R7100A-3	R7100B-1
Motor Enclosure		TEFC	TEFC
HP/kW	60 Hz	10/7,5	10/7,5
	50 Hz	8/6	-
Voltage	60 Hz	208-230/460-3	575-3
	50 Hz	190-220/380-440-3	-
Amps	60 Hz	35-29.5/15	9.6
	50 Hz	27-23/13.5-12.3	-
Starting Amps	60 Hz	120 @ 460V	84 @ 575V
	50 Hz	143 @ 380V	-
Insulation Class		F	F
Recommended NEMA Starter Size		2/1	1
Net Weight (lbs/kg)		293/133	290/131

Product Performance





®Registered Trademark/™Trademark of Gast Manufacturing Inc., Copyright ©2001 Gast Manufacturing Inc. All rights reserved.

Q. What happens to the noise when I locate two blowers close together?

A. If the blowers are of the same design they produce sound frequencies that are close together. These may cause a "beating" change in volume of the blower noise. This is because the units are not synchronized. If two small blowers are needed this change in volume can be reduced by moving tham further apart. With larger blowers a dual blower with two blowers on one motor will solve this problem.

Q. What causes the noise relief valves make?

A. Air rush through the valve.

Q. How do I control relief valve or bleed off valve noise?

A. Attach AJ121 series silencer on the port of the relief valve that is open to atmosphere.

Contact Gast at 616-926-6171 or www.gastmfg.com with any further questions you may have on reducing blower noise in your application.

Noise Reduction and Absorption Coefficients for Common and Specialty Noise Reduction Materials

	125Hz	250Hz	500Hz	1000Hz	2000Hz	4000Hz	NRC
Brick, unglazed	.03	.03	.03	.04	.05	.07	.04
Carpet 1/4 in pile height	.05	.10	.15	.30	.50	.55	.26
Fabric Heavy Velour 18 oz per sq. yd draped to 1/2 area	.14	.35	.55	.72	.70	.65	.62
Hardwood Plywood Paneling 1/4 in thick wood frame	.58	.22	.07	.04	.03	.07	.09
Tecnifoam* TFP4 Pyramind shape	.39	.60	1.21	1.14	1.16	1.13	1.05
Tecnifoam* TFW4000 Anaechoic Wedge shape	.64	1.10	1.34	1.23	1.24	1.21	1.25

Source: Mechancial Engineering Reference Manual

*TFP4 and TFW4000 are products of Tecnifoam, Inc., 7145 Boone Avenue North, Minneapolis, MN., 55428

Blower Sound Levels of Gast Blowers

Data is highest sound level out of 4 places around the blower at 1 meter.

Data represents average of several units run at nominal voltage.

Lowest to highest maximum dba level throughout performance range is shown.

Readings at other than the maximum around the blower at 1 meter may be from 2 to 10 dba less than data shown.

Readings taken in a laboratory sound room that does not reflect much noise.

Note: For comparison purposes, some blower manufacturers show sound data from 1–1/2 meters instead of from 1 meter; also, some blower manufacturers show an "average" sound level across performance instead of the full range between minimum and maximum sound levels; either of these methods will provide different and usually lower sound levels compared to Gast's sound level method.

60Hz	dBa at Pressure	50Hz	dBa at Pressure
R1	59-67	R1	59-64
R2	66	R2	61-63
R3	67-70	R3	63-68
R4	69-73	R4	64-69
R4P	69-75	R4P	64-71
R5	73-77	R5	71-77
R6	73-79	R6	70-79
R6P	82-83	R6P	77-80
R6PP	77-79	R6PP	73-76
R6PS	76-77	R6PS	72-75
R7	82-84	R7	77-79
R7P	77-80	R7P	74-79
R7S	75-77	R7S	72-76
R9	82-85	R9	78-85
R9P	81-88	R9P	79-86
R9S	79-81	R9S	77-81
R4H	80-82	R4H	75-81
R4M	82-83	R4M	78-79
R7H	83	R7H	79-81

60Hz	dBa at Vacuum	50Hz	dBa at Vacuum
R1	58-63	R1	54-60
R2	67	R2	63-64
R3	67-71	R3	64-69
R4	70-72	R4	66-70
R4P	73-74	R4P	68-71
R5	75-76	R5	71-73
R6	78-80	R6	74-77
R6P	81-85	R6P	79-81
R6PP	81-83	R6PP	78-79
R6PS	79-81	R6PS	76-77
R7	85-87	R7	79-84
R7P	84-86	R7P	80-83
R7S	82-83	R7S	78-80
R9	85-90	R9	83-84
R9P	88-90	R9P	84-87
R9S	87-88	R9S	83-86
R4H	82-89	R4H	79-88
R4M	85-89	R4M	80-85
R7H	82-91	R7H	80-90

®Registered Trademark/™Trademark of Gast Manufacturing Inc., Copyright ©2001 Gast Manufacturing Inc. All rights reserved.

PART NO. 70 - 6000 F2-200 (REV-K)

STANDARD REGENAIR BLOWER

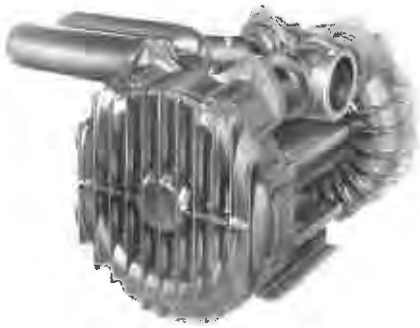
OPERATION & MAINTENANCE MANUAL



Model R1 Shown



Model R6P350A Shown



Model R7P Shown

Thank you for purchasing this Gast product. It is manufactured to the highest standards using quality materials. Please follow all recommended maintenance, operational and safety instructions and you will receive years of trouble free service.

⚠ WARNING



PLEASE READ THIS MANUAL COMPLETELY BEFORE INSTALLING AND USING THIS PRODUCT. SAVE THIS MANUAL FOR FUTURE REFERENCE AND KEEP IN THE VICINITY OF THE PRODUCT.

General information

This manual does not apply to:

- SDR Series blowers without motors
- Blowers powered with Explosion Proof Motors

Product Use Criteria:

- Pump only clean, dry air.
- Operate at -20°F - 104°F (-29°C - 40°C).
- Protect unit from dirt & moisture.
- Do not pump flammable or explosive gases or use in an atmosphere that contains such gases.
- Protect all surrounding items from exhaust air. This exhaust air can become very hot.
- Corrosive gases and particulate material will damage unit. Water vapor, oil-based contaminants or other liquids must be filtered out.
- The blower must be installed with the properly sized inlet and inline filters, gauges and relief valves to protect the product from dirt and over-heating.
- Consult your Gast Distributor/Representative before using at high altitudes.

GAST® A Unit of IDEX Corporation

ISO 9001 & 14001 CERTIFIED

www.gastmfg.com

®Registered Trademark/™Trademark of Gast Manufacturing Inc., Copyright ©2002 Gast Manufacturing Inc. All Rights Reserved.

Your safety and the safety of others is extremely important.

We have provided many important safety messages in this manual and on your product. Always read and obey all safety messages.

This is the safety alert symbol. This symbol alerts you to hazards that can kill or hurt you and others. The safety alert symbol and the words "DANGER" and "WARNING" will precede all safety messages. These words mean:

DANGER

You will be killed or seriously injured if you don't follow instructions.

WARNING

You can be killed or seriously injured if you don't follow instructions.

All safety messages will identify the hazard, tell you how to reduce the chance of injury, and tell you what can happen if the safety instructions are not followed.

INSTALLATION

WARNING



Electrical Shock Hazard

Disconnect electrical power at the circuit breaker or fuse box before installing this product.

Install this product where it will not come into contact with water or other liquids.

Install this product where it will be weather protected.

Electrically ground this product.

Failure to follow these instructions can result in death, fire or electrical shock.

Correct installation is your responsibility. Make sure you have the proper installation conditions and that installation clearances do not block air flow.

Blocking air flow over the product in any way can cause the product to overheat.

The blower must be installed with the properly sized inlet filter, gauge and relief valve to protect the product from dirt and over-heating.

Mounting

The single impeller blower should be oriented with the shaft in a horizontal position, unless the model's product features state otherwise. The dual impeller models must be mounted with the shaft in a horizontal position. Mounting the product to a stable, rigid operating surface and using shock mounts will reduce noise and vibration.

Rotation

From the motor side of the blower, check that the blower is rotating clockwise. (The motor side is marked with an arrow on most models.) Proper rotation can also be checked by the air flow at the IN and OUT ports. On blowers powered by a 3-phase motor, incorrectly connecting any two power lines can reverse direction.

Plumbing

Remove any foreign material (burrs, chips, welding drops, slag, pipe cuttings, excess sealant, sand or lime) from plumbing.

Check motor mounting and rotation before connecting to plumbing. Inlet and outlet ports are not designed to support plumbing.

Remove plugs from the IN and OUT ports. Use a small amount of pipe thread lubricant when connecting plumbing to protect the aluminum blower threads. Connect with pipe and fittings that are the same size or larger than the product's threaded ports. When installing two blowers in parallel, use plumbing that is two whole pipe sizes larger in diameter than that of the blower. Be sure to connect the intake and exhaust plumbing to the correct inlet and outlet ports.

Plumbing to remove the hot discharge air of larger blowers may be required to help maintain proper room ambient temperature. Use a relief valve to discharge excess air into the atmosphere. If the blower will be operated at 125mbar (50" H_2O) or higher, metal pipe is required for hot exhaust air.

Accessories

Install two vacuum gauges, one before and one after filter, to monitor restriction through filters. As filters become clogged, performance efficiency will be reduced. Filters should be checked periodically and replaced when necessary. See page 7 for installation.

Install a relief valve to avoid changes in pressure or vacuum that can cause overloading of large blowers. Install an intake filter with a relief valve to prevent foreign material from entering blower if blower is used in a vacuum application in a dirty environment. In applications where there is high humidity or liquids being used in the process, install a moisture separator.

See Recommended Accessories on pages 7-9 or consult your Gast Distributor/Representative for additional filter and accessories recommendations. Do Not install check valves that close with a strong spring. The recommended check valves (page 7) provide minimal pressure drop, positive sealing and are resistant to the high discharge temperatures of large blowers.

Motor Installation

It is your responsibility to contact a qualified electrician and assure that the electrical installation is adequate and in conformance with all national and local codes and ordinances.

Select fuses, motor protective switches or thermal protective switches to provide protection. Fuses act as short circuit protection for the motor, not as protection against overload. Incoming line fuses must be able to withstand the motor's starting current. Motor starters with thermal magnetic overload or circuit breakers protect motor from overload or reduced voltage conditions. Motors without automatic restart require thermal protection or magnetic over-current cutout to prevent motor overloading from one phase in a 3-phase circuit, high starting frequency or jammed blower.

The power required will rise as differential pressure increases. The wiring diagram attached to the product or on page 6 of this manual provides required electrical information. Large motors have two diagrams, one for 50Hz wiring specifications and the other for 60Hz wiring specifications. Check that the power source is correct to properly operate the dual-voltage motor. If additional information is required, please consult your Gast Distributor/Representative.

Electrical Connection

⚠ WARNING



Electrical Shock Hazard

This product must be properly grounded.

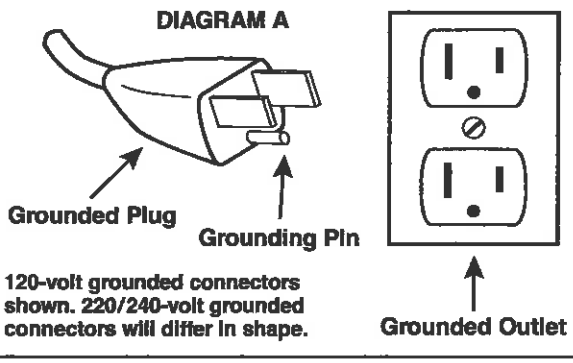
Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

If repair or replacement of the cord or plug is necessary, do not connect the grounding wire to either flat blade terminal. The wire with insulation that is green or green with yellow stripes is the grounding wire.

Check the condition of the power supply wiring. Do not permanently connect this product to wiring that is not in good condition or is inadequate for the requirements of this product.

Failure to follow these instructions can result in death, fire or electrical shock.

DIAGRAM A



120-volt grounded connectors shown. 220/240-volt grounded connectors will differ in shape.

Model with a power supply cord:
This product must be grounded. For either 120-volt or 220/240-volt circuits connect power supply cord grounding plug to a matching grounded outlet. **Do not use an adapter.** (See DIAGRAM A)

In the event of an electrical short circuit, grounding reduces the risk of electric shock by providing an escape wire for the electric current. This product may be equipped with a power supply cord having a grounding wire with an appropriate grounding plug. The plug must be plugged into an outlet that is properly installed and grounded in accordance with all local codes and ordinances.

Check with a qualified electrician or serviceman if the grounding instructions are not completely understood, or if you are not sure whether the product is properly grounded. Do not modify the plug provided. If it will not fit the outlet, have the proper outlet installed by a qualified electrician.

Model that is permanently wired:
This product must be connected to a grounded, metallic, permanent wiring system, or an equipment grounding terminal or lead on the product.

Power supply wiring must conform to all required safety codes and be installed by a qualified person. Check that supply voltage agrees with that listed on product nameplate.

Extension cords:
Use only a 3-wire extension cord that has a 3-blade grounding plug. Connect extension cord plug to a matching 3-slot receptacle. **Do not use an adapter.** Make sure your extension cord is in good condition. Check that the gage wire of the extension cord is the correct size wire to carry the current this product will draw.

An undersized cord is a potential fire hazard, and will cause a drop in line voltage resulting in loss of power causing the product to overheat. The following table indicates the correct size cord for length required and the ampere rating listed on the product nameplate. **If in doubt, use the next heavier gage cord. The smaller the gage number, the heavier the wire gage.**

Minimum gage for extension cords

Amps	Volts	Length of cord in feet								
	120v	25	50	100	150	200	250	300	400	500
	240v	50	100	200	300	400	500	600	800	1000
0-2		18	18	18	16	16	14	14	12	12
2-3		18	18	16	14	14	12	12	10	10
3-4		18	18	16	14	12	12	10	10	8
4-5		18	18	14	12	12	10	10	8	8
5-6		18	16	14	12	10	10	8	8	8
6-8		18	16	12	10	10	8	6	6	6
8-10		18	14	12	10	8	8	6	6	4
10-12		16	14	10	8	8	6	6	4	4
12-14		16	12	10	8	6	6	6	4	2
14-16		16	12	10	8	6	6	4	4	2
16-18		14	12	8	8	6	4	4	2	2
18-20		14	12	8	6	6	4	4	2	2

OPERATION

⚠ WARNING

Injury Hazard

Install proper safety guards as needed to prevent any close contact with blower suction area.

Keep fingers and objects away from openings and rotating parts.

Product surfaces become very hot during operation, allow product surfaces to cool before handling.

Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection.

Wear hearing protection. Sound level from some models may exceed 85 dBA.

Failure to follow these instructions can result in burns, eye injury or other serious injury.

It is your responsibility to operate this product at recommended pressures or vacuum duties and room ambient temperatures. Do not operate R4P or larger size blowers without air flowing through the blower. Do not throttle discharge or suction pipe to reducer capacity. Throttle will increase differential pressure causing increasing power absorption and working temperatures.

Start Up

Operate blower for an hour and then check:

1. **Ambient temperature** – Check room and discharge air temperatures. Increased room temperatures may require stronger ventilation especially for larger blowers. Exhaust air should not exceed 215°F (102°C) for all blowers less than 3.5 Hp. Exhaust air should not exceed 275°F (135°C) for all blowers above 3.5 Hp.
2. **Working pressure and vacuum values** – Adjust relief valve pressure or vacuum setting, if needed.
3. **Motor current** – Check that supply current matches recommended current rating on product nameplate.
4. **Electrical overload cutout** – Check that current matches rating on product nameplate.

If motor fails to start or slows down significantly under load, shut off and disconnect from power supply. Check that the voltage is correct for motor and that motor is turning in the proper direction.

FOR BLOWERS WITH GREASE FITTINGS

Hours of Service Per Year	Relubrication Intervals
5,000	3 years
Continual Normal Service	1 year
Seasonal Service (motor idle for 6 months or more)	1 year at beginning of season
Continuous-high ambients, dirty or moist applications	6 months

Check that all external accessories such as relief valves and gauges are not damaged before re-operating product.

MAINTENANCE

⚠ WARNING



Electrical Shock Hazard

Disconnect electrical power supply cord before performing maintenance on this product.

Some motors are thermally protected and will automatically re-start when protector resets.

If product is hard wired into system, disconnect electrical power at the circuit breaker or fuse box before performing maintenance on this product.

Failure to follow these instructions can result in death, fire or electrical shock.

If the product is supplied with an electric power chord, protect it from twisting, cuts and abrasion. When not in use, store in a clean dry place

⚠ WARNING

Injury Hazard

Product surfaces become very hot during operation, allow product surfaces to cool before handling.

Air stream from product may contain solid or liquid material that can result in eye or skin damage, wear proper eye protection.

Failure to follow these instructions can result in burns, eye injury or other serious injury.

It is your responsibility to regularly inspect and make necessary repairs to this product in order to maintain proper operation. Make sure that pressure and vacuum is released from product before starting maintenance.

Check filter elements and noise absorbing foam used in mufflers and clean motor and blower after first 500 hours of operation. Replace filter elements and determine how frequently mufflers should be checked during future operation. This one procedure will help assure the product's performance and service life.

When there is an increase in the differential pressure across the inlet filter it is beginning to clog with dirt. Replace the cartridge when the filter will not come clean.

Small motor bearings (less than 5.5 Hp) never need to be greased. Larger motor bearings (greater than 5.5 Hp) have alemite grease fittings. Use a grease gun and apply one or two strokes of Exxon POLYREX® grease to the fittings to lubricate larger motor bearings.

WARRANTY

Gast finished products, when properly installed and operated under normal conditions of use, are warranted by Gast to be free from defects in material and workmanship for a period of twelve (12) months from the date of purchase from Gast or an authorized Gast Representative or Distributor. In order to obtain performance under this warranty, the buyer must promptly (in no event later than thirty (30) days after discovery of the defect) give written notice of the defect to Gast Manufacturing Incorporated, PO Box 97, Benton Harbor Michigan USA 49023-0097 or an authorized Service Center (unless specifically agreed upon in writing signed by both parties or specified in writing as part of a Gast OEM Quotation). Buyer is responsible for freight charges both to and from Gast in all cases.

This warranty does not apply to electric motors, electrical controls, and gasoline engines not supplied by Gast. Gast's warranties also do not extend to any goods or parts which have been subjected to misuse, lack of maintenance, neglect, damage by accident or transit damage.

THIS EXPRESS WARRANTY EXCLUDES ALL OTHER WARRANTIES OR REPRESENTATIONS EXPRESSED OR IMPLIED BY ANY LITERATURE, DATA, OR PERSON. GAST'S MAXIMUM LIABILITY UNDER THIS EXCLUSIVE REMEDY SHALL NEVER EXCEED THE COST OF THE SUBJECT PRODUCT AND GAST RESERVES THE RIGHT, AT ITS SOLE DISCRETION, TO REFUND THE PURCHASE PRICE IN LIEU OF REPAIR OR REPLACEMENT.

GAST WILL NOT BE RESPONSIBLE OR LIABLE FOR INDIRECT OR CONSEQUENTIAL DAMAGES OF ANY KIND, however arising, including but not limited to those for use of any products, loss of time, inconvenience, lost profit, labor charges, or other incidental or consequential damages with respect to persons, business, or property, whether as a result of breach of warranty, negligence or otherwise. Notwithstanding any other provision of this warranty, BUYER'S REMEDY AGAINST GAST FOR GOODS SUPPLIED OR FOR NON-DELIVERED GOODS OR FAILURE TO FURNISH GOODS, WHETHER OR NOT BASED ON NEGLIGENCE, STRICT LIABILITY OR BREACH OF EXPRESS OR IMPLIED WARRANTY IS LIMITED SOLELY, AT GAST'S OPTION, TO REPLACEMENT OF OR CURE OF SUCH NONCONFORMING OR NON-DELIVERED GOODS OR RETURN OF THE PURCHASE PRICE FOR SUCH GOODS AND IN NO EVENT SHALL EXCEED THE PRICE OR CHARGE FOR SUCH GOODS. GAST EXPRESSLY DISCLAIMS ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE WITH RESPECT TO THE GOODS SOLD. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTIONS SET FORTH IN THIS WARRANTY, notwithstanding any knowledge of Gast regarding the use or uses intended to be made of goods, proposed changes or additions to goods, or any assistance or suggestions that may have been made by Gast personnel.

Unauthorized extensions of warranties by the customer shall remain the customer's responsibility.

CUSTOMER IS RESPONSIBLE FOR DETERMINING THE SUITABILITY OF GAST PRODUCTS FOR CUSTOMER'S USE OR RESALE, OR FOR INCORPORATING THEM INTO OBJECTS OR APPLICATIONS WHICH CUSTOMER DESIGNS, ASSEMBLES, CONSTRUCTS OR MANUFACTURES.

This warranty can be modified only by authorized Gast personnel by signing a specific, written description of any modifications.

ELECTRICAL WIRING DIAGRAMS

Models
R1102, R2103, R2105, R3105-1, R3105-12, R4110-2

Low Voltage Single Phase

Blue	P1	Line
Brown	P2	
Black	5	Tie together & Insulate
Orange	3	
White	2	
Yellow	4	Tie together Line

High Voltage Single Phase

P1	Line
P2	Insulate
5	
3	Tie together & Insulate
2	
4	Line

Model
R6150J-2

Low Voltage Single Phase

T1	Line
T4	Line
Brown	Thermostat
Wht/Yel	Thermostat

Models
R4P115, R5125-2, R6125-2

Low Voltage Single Phase

Purple	L1
Brown	Tie together & Insulate
Orange	
Blue	
White	L2
Red	

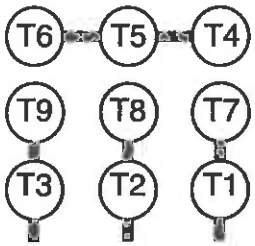
High Voltage Single Phase

Purple	L1
Brown	Insulate
White	Tie together & Insulate
Orange	
Blue	
Red	L2

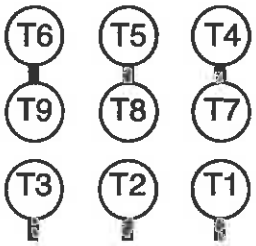
Models
R2303A, R3305A-1, R3305A-13, R4310A-2, R4P315A, R6350A-2, R6P350A, R6PP3110M, R6PS3110M, R7100A-3, R7P3180M, R7S3180M, R93150A

Note: Model R6P355A has two additional leads labeled "J" for an external thermal motor protection circuit.

Connections for 3-Phase, 9 Leads

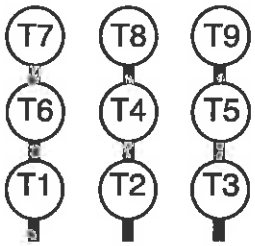


Line
Low Voltage

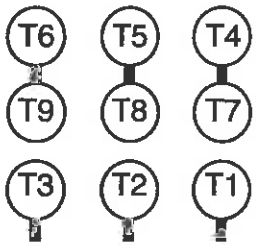


Line
High Voltage

Model R9P3300M, R93150A, R93150A-35

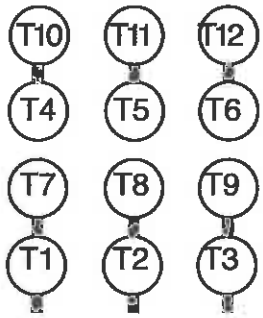


Line
Low Voltage

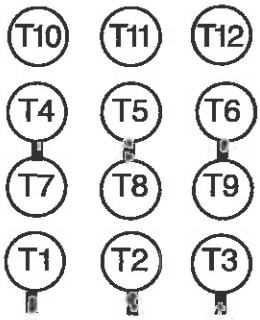


Line
High Voltage

Connections for 3-Phase, 12 Leads
Models R6335A-2, R6P335A

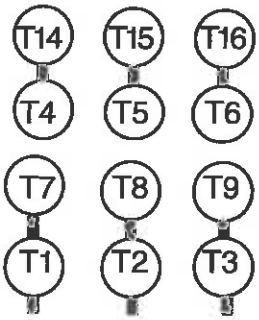


Line
Low Voltage

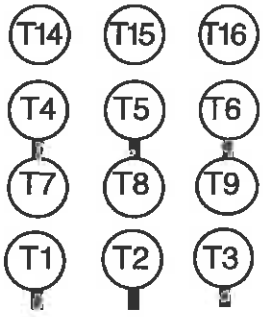


Line
High Voltage

Models R5325A-2, R6325A-2 (BEFORE 1-1-06)

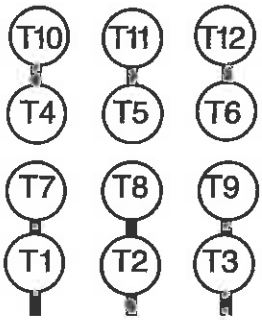


Line
Low Voltage

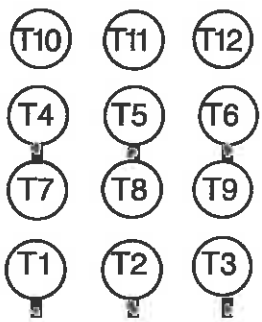


Line
High Voltage

Models R5325A-2, R6325A-2 (AFTER 1-1-06)



Line
Low Voltage



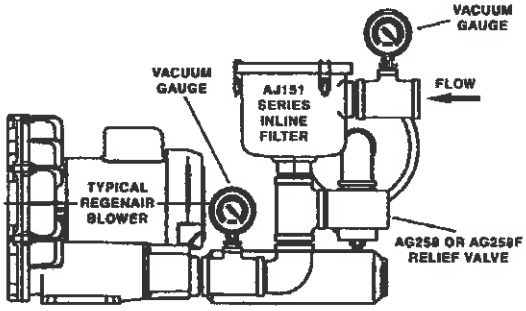
Line
High Voltage

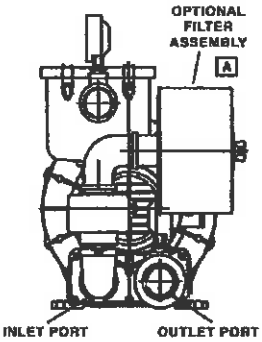
To reverse rotation on any 3-Phase motor, interchange any two external motor line connections to any two line leads.

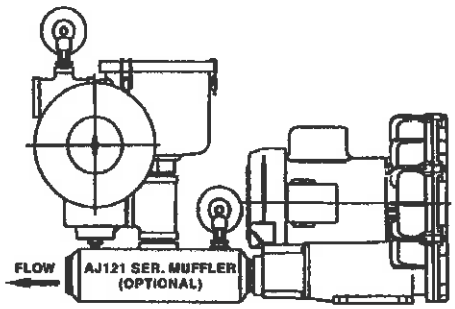
RECOMMENDED ACCESSORIES

The following diagrams are only suggested configurations for these accessories. These accessory configurations may vary depending upon a particular unit's application.

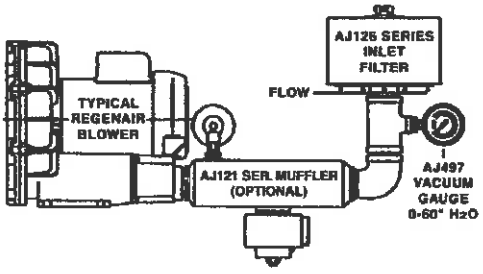
VACUUM ACCESSORIES

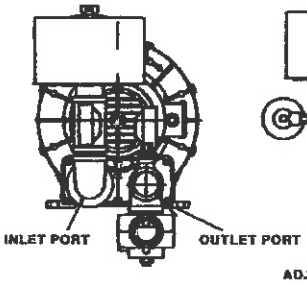


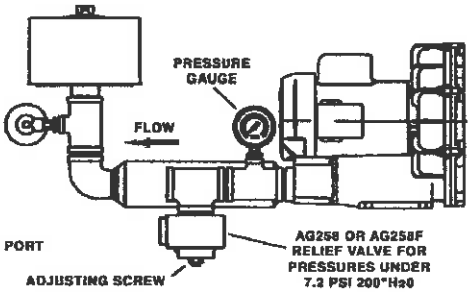




PRESSURE ACCESSORIES





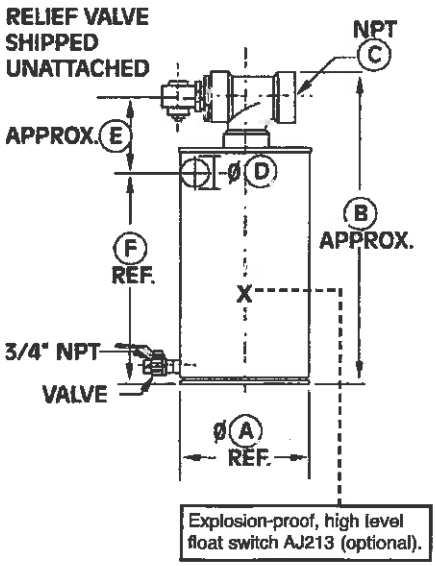


MOISTURE SEPARATOR (FOR VACUUM)

This moisture separator removes liquids from the gas stream in a vacuum process. This helps protect the blower from corrosion and the build up of mineral deposits.

For Model Number	R3, R4, R5	R4, R4H, R4P, R5	R4H, R4M, R5, R6, R6P, R6PS,	R4M, R6, R6P, R6PP, R7, R7P, R7S, R9, R9S
Part Number	**RMS160**	**RMS200**	**RMS300**	**RMS400**
CFM capacity	160	200	300	400
Liquid capacity (gal.)	10	19	19	40
Diameter (A)	14.8"	19.7"	19.7"	24"
Dimension (B)	37.5"	35"	35"	44"
NPT outlet (C)	2"	2"	2.5"	3"
Inlet diameter (D)	2"	2"	2.5"	3"
Dimension (E)	7.5"	7.5"	7.5"	9.7"
Dimension (F)	26.6"	26.6"	26.6"	29"

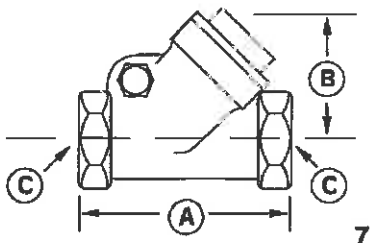
Maximum vacuum allowed: 22" Hg.



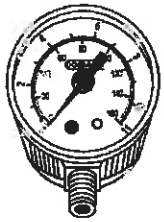
HORIZONTAL SWING TYPE CHECK VALVE

This check valve prevents backwash of fluids from entering the blower and air back-streaming. The check valve can be mounted to discharge or inlet either vertically or horizontally. The check valve will open with 3" of water pressure or vacuum.

Model Number	R1, R2	R3	R4, R5, SDR4, SDR4, R4P	R6, R6P, SDR6P, SDR6, R6PS	R7, R7S
Part Number	**AH326B**	**AH326C**	**AH326D**	**AH326F**	**AH326G**
Dimension (A)	3.57"	4.19"	4.50"	5.25"	8.00"
Dimension (B)	2.32"	2.69"	2.94"	3.82"	5.07"
Dimension (C)	1.00" NPT	1.25" NPT	1.50" NPT	2.00" NPT	2.50" NPT

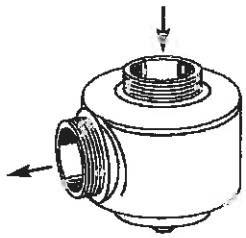


RECOMMENDED ACCESSORIES



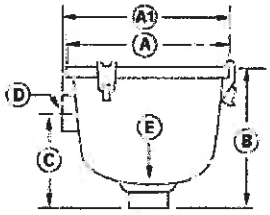
PRESSURE – VACUUM GAUGE

Pressure/Vacuum Gauges				
AJ496	2.50" Dia.	Pressure	1/4" NPT	0-60 in. H_2O and 0-150 mbar
AE133	2.50" Dia.	Pressure	1/4" NPT	0-160 in. H_2O and 0-400 mbar
AE133A	2.50" Dia.	Pressure	1/4" NPT	0-200 in. H_2O
AJ497	2.50" Dia.	Vacuum	1/4" NPT	0-60 in. H_2O and 0-150 mbar
AE134	2.50" Dia.	Vacuum	1/4" NPT	0-160 in. H_2O and 0-400 mbar
AE134F	3.50" Dia.	Vacuum	1/4" NPT	0-15 in. HG



PRESSURE – VACUUM RELIEF VALVE

Pressure/Vacuum Relief Valves		
AG258	1.50" NPT	Adjustable 30-200 in. H_2O; 200 cfm max
AJ121D		Silencer for AG258 Relief Valve
AG258F	2.50" NPT	Adjustable 25-200 in. H_2O; 560 cfm max
AJ121G		Silencer for AG258F Relief Valve



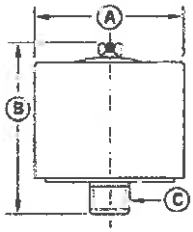
INLINE FILTERS (FOR VACUUM)

The impeller of a blower passes very closely to the housing. It is recommended to have an inlet or in-line filter to ensure a trouble-free service life.

MPT = Male Pipe Thread
FPT = Female Pipe Thread

Model Number	R1	R2	R3	R4	SDR4, R4P, R4H, R5	SDR5, SDR6, R6, R6P, R7M	R6PP, SDR6P, R6PS, R7, R7S	R7S, R9, R9P, R9S
Part Number	**AJ151A**	**AJ151B**	**AJ151C**	**AJ151D**	**AJ151E**	**AJ151G**	**AJ151H**	**AJ151M**
Dimension (A)	5.88"	7.38"	7.38"	7.38	8.75	8.75"	14.00"	18.50"
Dimension (A1)	–	–	–	–	–	–	16.25"	20.75"
Dimension (B)	4.50"	6.81"	6.81"	6.81"	10.25"	10.50"	27.13"	28.13"
Dimension (C)	2.75"	4.62"	4.62"	4.62"	5.00"	5.50"	18.50"	19.50"
Dimension (D)	1.00" FPT	1.00" FPT	1.25" FPT	1.50" FPT	2.00" FPT	2.50" FPT	3"MPT	5" MPT
Dimension (E)	1.00" FPT	1.00" FPT	1.25" FPT	1.50" FPT	2.00" FPT	2.50" FPT	3"MPT	5" MPT
Replacement Element	AJ135D	AJ135E	AJ135E	AJ135E	AJ135F	AJ135G	AJ135C	AJ135H
Micron	10	10	10	10	10	10	10	10

RECOMMENDED ACCESSORIES

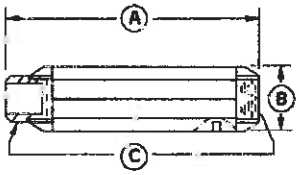


INLET FILTERS (FOR PRESSURE)

All filters are heavy duty for high-particulate service. Inlet filters for Regenair blowers are drip-proof when mounted as shown..

MPT = Male Pipe Thread
FPT = Female Pipe Thread

Model Number	R1, R2	R3	R4, R4H, R4P SDR4, R5	SDR5, R6, SDR6, R5P, R6PP, R6PS	SDR6P, R7, R7P, R7S	R9, R9P, R9S
Part Number	**AJ126B**	**AJ126C**	**AJ126D**	**AJ126F**	**AJ126G**	**AJ126M**
Dimension (A)	6.00"	6.00"	7.70"	10.62"	10.00"	16.00"
Dimension (B)	4.62"	7.12"	7.12"	4.81"	13.12"	14.62"
Dimension (C)	1.00" MPT	1.25" MPT	1.50" MPT	2.00" FPT	2.50" MPT	5" MPT
Replacement Element	AJ134B	AJ134C	AJ134E	AG340	AJ135A	AJ135H
Micron	10	10	10	10	10	10



MUFFLERS

Designed to reduce noise by up to 5 dbA and remove high-frequency sound associated with all blowers.

Model Number	R1, R2	R3	R4, SDR4, R4P, R5	R4H, R6, R6P, R6PS SDR6P, SDR6	R7, R7S	R6PP, R9 Exhaust	R7P Exhaust
Part Number	**AJ121B**	**AJ121C**	**AJ121D**	**AJ121F**	**AJ121G**	**AJ121H**	**AJ121M**
Dimension (A)	7.46"	7.94"	12.75"	17.05"	17.44"	20.30"	33.60"
Dimension (B)	2.38"	2.62"	3.25"	3.63"	4.25"	4.75"	6.00"
Dimension (C)	1.00" NPT	1.25" NPT	1.50" NPT	2.00" NPT	2.50" NPT	3" NPT	4"NPT

PARTS & ORDERING INFORMATION

Please reference the exploded view on Page 11 for the following model and parts table.

REF#	ITEM	QTY	R1102 R1102C R1102K	R2103 R2303A	R2105	R2305B	R3105-1 R3305A-1 R3305B-1
1	COVER	1	AJ101A	AJ101B	AJ101B	AJ101B	AJ101C
2	LOCK NUT	1	BC187	BC187	BC181	BC181	BC181
3	IMPELLER	1	AJ102A	AJ102BQ	AJ102B	AJ102B	AJ102C
4	SQUARE KEY	1	AH212C	AH212	AB136A	AB136A	AB136A
5	SHIM SPACER	Δ	AE686-5	AE686-3	AJ109	AE686-3	AJ109
6	RETAINING RING	1	AJ145	AJ145	AJ149	AJ145	AJ149
7	HOUSING	1	AJ103A	AJ103BQ	AJ103B	AJ103B	AJ103C
8	--	--	–	-	–	–	–
9	–	–	–	-	–	–	–
10A	FOAM	Δ	AJ112A(4)	AJ112BQ(6)	AJ112BQ(6)	AJ112BQ(6)	AJ112C(4)
10B	FOAM	2	–	–	–	–	AJ112CQ
11	MUFFLER EXTENSION	1	AJ106A	AJ106BQ	AJ106BQ	AJ106BQ	AJ106CQ

Δ As required.
Parts listed are for stock models. For specific OEM models, please consult the factory.
When corresponding or ordering parts, please give complete model and serial numbers.

PARTS & ORDERING INFORMATION

Please reference the exploded view on the next page for the following model and parts tables.

REF#	ITEM	QTY	R3105-12 R3305A-13	R4110-2 R4310A-2 R4310B-1	R4P115 R4P315A†	R5125-2 R5325A-2 R5325B-1	R6125-2 R6150J-2 R6325A-2 R6335A-2 R6335B R6350A-2 R6350B-2	R6P335A R6P350A R6P350B	R6135J-10
1	COVER	1	AJ101C	AJ101D	AJ101L	AJ101EQ	AJ101FB	AJ101K	AJ101FB
2	LOCK NUT	1	BC181	BC181	BC181	AJ259	AJ259	AJ259	AJ259
3	IMPELLER	1	AJ102CA	AJ102D	AJ102L	AJ102E	AJ102FR	AJ102K	AJ102FR
4	SQUARE KEY	1	AB136A	AB136D	AB136D	AB136	AB136	AB136	AB136
5	SHIM SPACER	Δ	AJ109	AJ109	AJ109	AJ109	AJ109	AJ109	AJ260A
5†	SHIM SPACER†	1	–	–	AJ109A†	–	–	–	–
6	RETAINING RING	1	AJ149	AJ149	AJ149	–	–	–	–
7	HOUSING	1	AJ103C	AJ103DR	AJ103L	AJ103EQ	AJ103FQ	AJ103K	AJ103FQ
8	MUFFLER BOX	1	–	–	–	–	–	AJ104K	–
9	SPRING	2	–	AJ113DR	AJ113DQ	AJ113DQ	AJ113FQ	AJ113FQ	AJ113FQ
9A	SCREEN	2	–	–	AJ123EQ	AJ123EQ	AJ123FB	–	AJ123FB
10A	FOAM	Δ	AJ112C(4)	AJ112DS(4)	AJ112ER(6)	AJ112ER(6)	AJ112FC(6)	AJ112K(8)	AJ112FC(6)
10B	FOAM	2	AJ112CQ	AJ112DR	–	–	–	–	–
11	MUFFLER EXTENSION	1	AJ106CQ	AJ106DQ	AJ106EQ	AJ106EQ	AJ106FR	–	AJ106FR

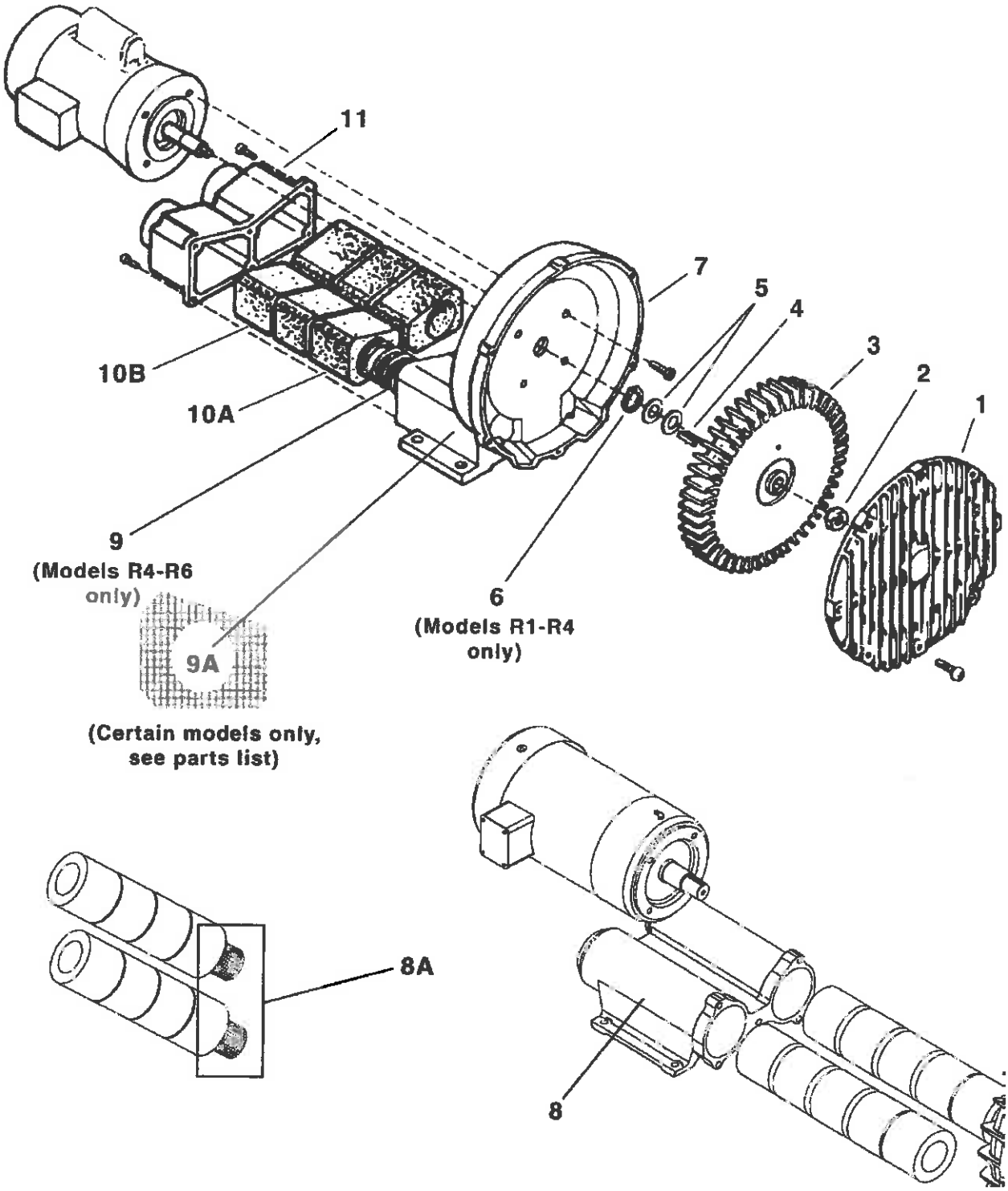
REF#	ITEM	QTY	R6P350A	R6P355A R6P350B	R6PP3110M*	R6PS3110M*	R7100A-3	R7100B-1
1	COVER	1	AJ101K	AJ101KA	AJ101KA(2)	AJ101KA(2)	AJ101G	AJ101G
2	LOCK NUT/BOLT	1	AJ259	BB750	BB750(2)	BB750(2)	BB750	BB750
3	IMPELLER	1	AJ102K	AJ102K	AJ102KA(2)	AJ102KA(2)	AJ102GZ	AJ102GA
4	SQUARE KEY	1	AB136	AB136	AB136(2)	AB136(2)	AC628	AC628
5	SHIM SPACER	Δ	AJ109	AJ169F	AJ169F	AJ169F	AJ110	AJ110
6	RETAINING RING	1	–	–	–	–	–	–
7	HOUSING	1	AJ103K	AJ103KA	AJ103KD(2)	AJ103KD(2)	AJ103GA	AJ103GA
8	MUFFLER BOX	1	AJ104K	AJ104K	–	–	AJ104GA	AJ104GA
8A	SCREEN	2	–	–	–	–	AJ998G	AJ998G
9	SPRING	2	AJ113FQ	AJ113FQ	–	–	–	–
10A	FOAM	Δ	AJ112K(8)	AJ112K (8)	–	–	AJ112GA(8)	AJ112GA(8)
10B	FOAM	2	–	–	–	–	–	–
11	MUFFLER EXTENSION	1	–	–	–	–	–	–
12 **	O-RING	2	–	–	AJ175	–	–	–
13	GASKET	4	–	–	AJ107F	AJ107F	–	–

REF#	ITEM	QTY	R7P3180M*	R7S3180M*	R9P3300M*	R9S3300M*	R93150A
1	COVER	1	AJ101G(2)	AJ101G(2)	AJ101M(2)	AJ101M(2)	AJ101M
2	LOCK NUT/BOLT	1	BB750(2)	BB750(2)	BB707(2)	BB707(2)	BB707
3	IMPELLER	1	AJ102GZ(2)	AJ102GZ(2)	AJ102M(2)	AJ102M(2)	AJ102M
4	SQUARE KEY	1	AC628(2)	AC628(2)	AE130A(2)	AE130A(2)	AE130A
5	SHIM SPACER	Δ	AJ110	AJ110	BJ110	BJ110	BJ110A
6	RETAINING RING	1	–	–	–	–	–
7	HOUSING	1	AJ103GA(2)	AJ103GA(2)	AJ103M(2)	AJ103M(2)	AJ103M
8	MUFFLER BOX	1	–	–	–	–	AJ104MP
8A	SCREEN	2	–	–	–	–	AJ998M
9	SPRING	2	–	–	–	–	–
10A	FOAM	Δ	–	–	–	–	AJ112M(10)
10B	FOAM	2	–	–	–	–	–
11	MUFFLER EXTENSION	1	–	–	–	–	–
12 **	O-RING	2	AJ175G	–	AJ175G	–	–

† R4P315A only.
* Dual models.
** Not shown.
Δ As required.

Parts listed are for stock models. For specific OEM models, please consult the factory.
When corresponding or ordering parts, please give complete model and serial numbers.

EXPLODED PRODUCT VIEW



TROUBLESHOOTING CHART

Problem	Reason	Remedy
Increased sound.	Noise absorbing foam is damaged. Impeller rubbing inside.	Replace foam. Send unit to a Gast Authorized Service Facility.
Excessive vibration.	Damaged impeller. Motor and/or impeller are dirty.	Replace impeller. Clean motor and impeller periodically.
Ambient and exhaust temperature increases.	Motor and/or blower are dirty. Filters dirty.	Clean motor and blower periodically. Replace filters.
Decreased inlet air pressure	Inlet air filter is clogged.	Clean inlet filter. Replace cartridge.
Unit is very hot.	Wrong wiring. Low voltage. Inlet air filter is clogged. Motor and/or blower are dirty. Operating at too high a pressure or vacuum.	Check wiring. Supply proper voltage. Clean inlet filter. Replace cartridge. Clean motor and blower periodically. Install a relief valve and pressure or vacuum gauge.
Unusual sound.	Impeller is damaged or dirty. Bearing going bad.	Clean or replace impeller. Send unit to a Gast Authorized Service Facility.
Motor overload	Low voltage.	Check power source. Check wire size and wire connections.
Unit does not start.	Incorrect electrical connection or power source. Impeller is damaged.	Check wiring diagram, circuit fusing and circuit capacity. Clean or replace impeller. Install proper filtration.

We have Gast Certified Service Centers throughout the world. For the most up-to-date listing, contact one of our sales offices below:

World Headquarters
P.O. Box 97
2300 S. Highway M139
Benton Harbor, MI 49022
Ph: 269/926-6171
FAX: 269/925-8288
www.gastmfg.com

European Sales & Service Headquarters
Gast Group Limited
A Unit of IDEX Corporation
Unit 11, The I O Centre
Nach Road
Redditch B98 7AS
United Kingdom
Tel: +44 (0) 1527 504040
Fax: +44 (0) 1527 525262
www.gastmfg.com
www.jun-air.com

Gast Hong Kong
Unit 12, 21/F, Block B
New Trade Plaza
6, On Ping Street, Shatin
N. T. Hong Kong
Ph: (852) 2690 1008
Fax: (852) 2690 1012
www.gasthk.com

GAST
A Unit of IDEX Corporation

ISO 9001 & 14001 CERTIFIED

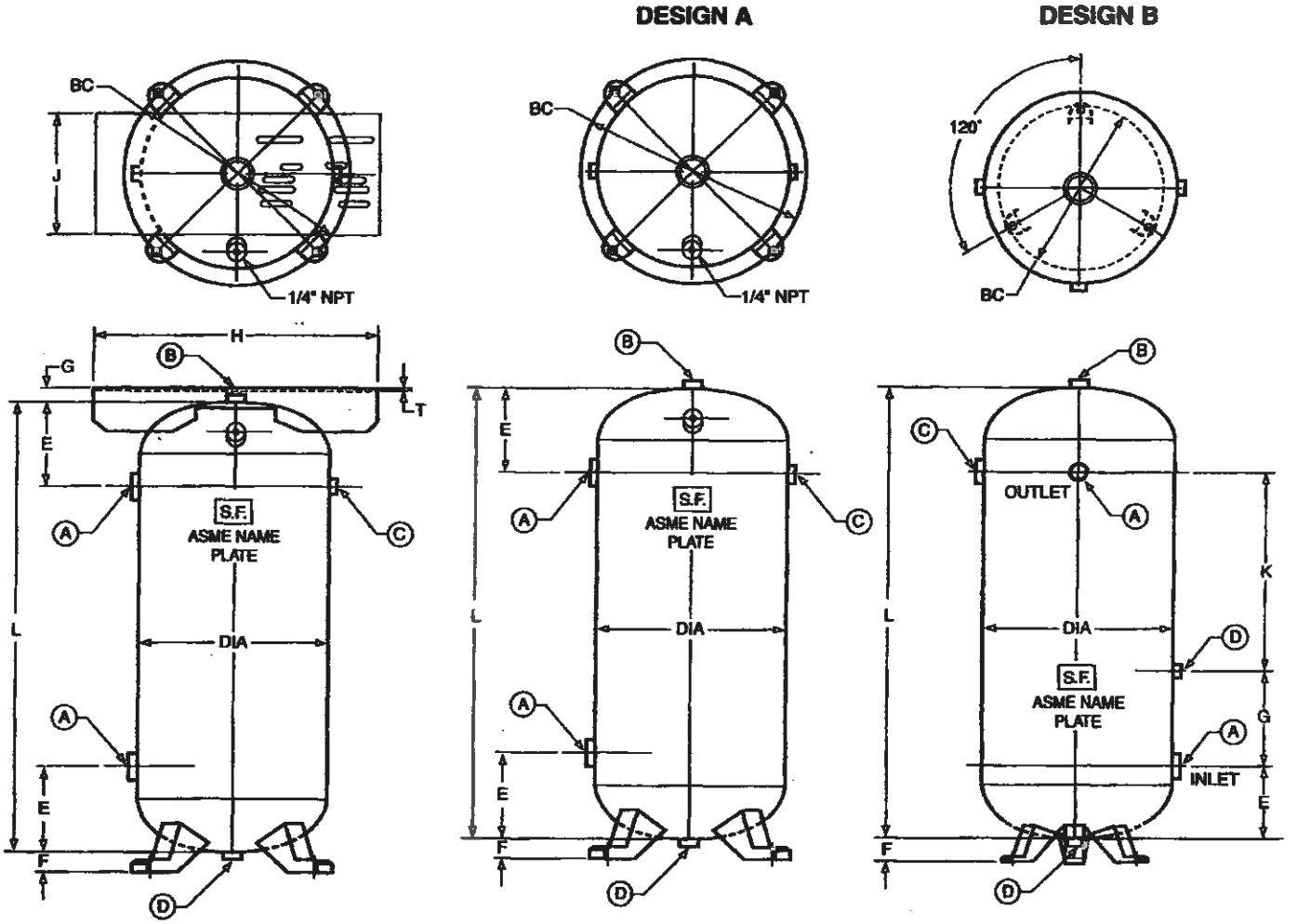
www.gastmfg.com

VERTICAL AIR RECEIVERS

Reference only. Please consult factory for installation dimensions.

With Topplate

Less Topplate



WITH TOPPLATE					OPENINGS (NPT)"				DIMENSIONS"							
P/N	GAL	DIA	L	PSI	A	B	C	D	E	F	G	H	J	K	T	BC
A10041	30	16	38	200	1-1/2	1/2	1/4	1/4	8	1-3/4	1-1/2	23	9	-	3/16	18-3/4
A10044	60	20	48	200	2	3/4	1/4	1/4	9	2-1/4	1-1/2	30	13	-	3/16	23-3/4
A10046	80	24	46	200	2	1	1/4	1/2	11	3-3/8	1-1/2	30	13	-	3/16	25-1/2
A10047*	120	30	46	200	2	1	1/4	1/2	12	6	3-7/8	39	15	-	1/4	26
DESIGN A - LESS TOPPLATE																
A10040	30	16	38	200	1-1/2	1/2	1/4	1/4	8	1-3/4	-	-	-	-	-	18-3/4
A10043	60	20	48	200	2	3/4	1/4	1/4	9	2-1/4	-	-	-	-	-	23-3/4
A10045	80	24	46	200	2	3/4	1/4	1/2	11	3-3/8	-	-	-	-	-	25-1/2
DESIGN B - LESS TOPPLATE																
A11175	80	20	63	200	2	1	1/2	1/2	10	2-1/4	21	-	-	22	-	23-3/4
A11176	120	24	69	200	2	1	1/2	1/2	12	3-3/8	26	-	-	18	-	25-1/2
A11177	200	30	72	200	2	1	1/2	1/2	12	3-3/8	15	-	-	32	-	25-1/2
A11178	240	30	84	200	2	1	1/2	1/2	12	3-3/8	19	-	-	40	-	25-1/2

* Skirt instead of pressed steel feet

COMPACT "T" STYLE VACUUM FILTERS
"CT Series" 2" - 6" FPT

SOLBERG®



- **Compact Design**
- **Multi-Stage Filtration**
- **Quick Change Out**
- **Vacuum Tested**

BENEFITS

- **Compact** design for space restrictions; **Minimal** service area needed
- **Integrated Inlet Baffle**
- Inlet is above the element to **Extend** element life and maintenance intervals
- "T" style design **Minimizes** piping requirements
- "Drop-Down" housing for easy servicing and containment of particles
- Cast aluminum head **Resists** corrosion
- Pressure differential ports standard for monitoring
- Casting has 4 unthreaded tap holes for mounting bracket
- **Vacuum level**: Typically $1x10^{-3}$ mmHg ($1.3x10^{-3}$ mbar)
- Swing Bolts on 5" & 6" sizes for additional strength

OPTIONS (Inquires Encouraged)

- Various media alternatives
- **See Through Bottom for Visual Inspection Now available for 3" and 4" housings!**
- Swing Bolts for 2" - 4" Sizes



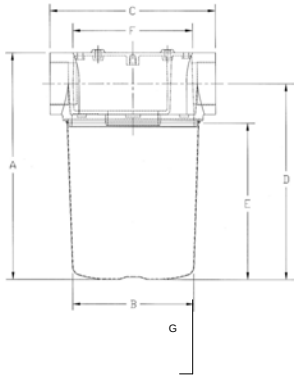
CT-851/850
2" & 2 1/2" FPT



CT-235P/234P
3" & 4" FPT



CT-275P/274P
5" & 6" FPT



Dimension tolerance ± 1/4"

I = Industrial Duty S = Severe Duty E = Extreme Duty

	with Polyester Element	with Paper Element	FPT Inlet & Outlet	DIMENSIONS - inches A	B	C	D	E	Rated Flow SCFM Nominal Rating	Element Rating	Approx. Wt. lbs
I	CT-851-200C	CT-850-200C	2"	13	10 7/8	9	9	18	175	290	16
I	CT-851-250C	CT-850-250C	2-1/2"	13	10 7/8	9	9	18	210	290	15
I	CT-235P-300C	CT-234P-300C	3"	18 7/8	16 1/8	13 1/2	13	25	300	570	30
I	CT-235P-400C	CT-234P-400C	4"	18 7/8	16 1/8	13 1/2	13	25	520	570	26
S	CT-275P-500C	CT-274P-500C	5"	18 1/4	14 3/8	19	9 7/8	20	800	1100	50
I	CT-275P-600C	CT-274P-600C	6"	18 1/4	14 3/8	19	9 7/8	20	1100	1100	45

1151 Ardmore Ave. • Itasca, IL 60143 USA
Tel: 630/773 1363 • Fax: 630/773 2643
E-mail: sales@solbergmfg.com • Web Site: www.solbergmfg.com

Solberg – Discover the Possibilities

Small Compact Filter Silencers
w/ Standard Filter Design
"FS" Series 1/2" - 3" MPT

APPLICATIONS & EQUIPMENT

- Industrial & Severe Duty
- Piston Compressors
- Screw Compressors
- Blowers - Side Channel & P.D.
- Hydraulic Breathers – fine filtration
- Engines
- Construction\Contractor Industry
- Workshop
- Medical\Dental Industry
- Pneumatic Conveying
- Waste Water Aeration
- Nailers and Staplers
- Vacuum Vent Breathers

FEATURES & SPECIFICATIONS

- Polyester: 99%+ removal efficiency standard to 5 micron
- Paper: 99%+ removal efficiency standard to 2 micron
- Fully drawn weatherhood - no welds to rust or vibrate apart
- Tubular silencing design - tube is positioned to maximize attenuation and air flow while minimizing pressure drop
- Durable carbon steel construction with baked enamel finish and powder coated weatherhood
- Interchangeable media: Polyester, Paper, HEPA
- Several element sizes available per given connection (safety factor)
- Temp (continuous): min -15°F (-26°C) max 220°F (104°C)
- Filter change out differential: 10"-15" H_2O over initial delta P
- Pressure drop graphs available upon request

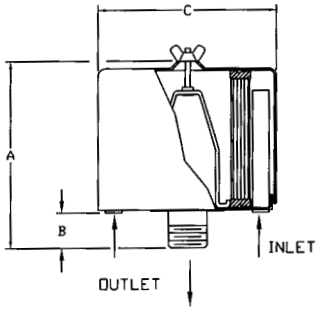
OPTIONS (Inquiries Encouraged)

- 1/8" tap holes
- Pressure Drop Indicator
- Available in ***Stainless Steel***
- Epoxy coated housings
- Various media available
- Special connections, BSPT

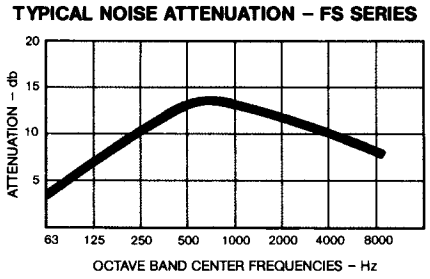
CONFIGURATION



DRAWING



Dimension tolerance ± 1/4"



- Noise attenuation may vary due to the wide range of applications and machines

I = Industrial Duty S = Severe Duty

	with Polyester Element	with Paper Element	MPT Outlet	DIMENSIONS - inches A	B	C	Rated Flow SCFM Piston	Screw, Blower, Fan	Element Rating	No. of Silencing Tubes	Approx. Wt. lbs
I	FS-15-050	FS-14-050	1/2"	4	1 1/2	6	10	10	35	1	2
I	FS-15-075	FS-14-075	3/4"	4	1 1/2	6	20	25	35	2	2
I	FS-15-100	FS-14-100	1"	4	1 1/2	6	25	35	35	3	2
S	FS-19P-100	FS-18P-100	1"	6 5/8	1 5/8	6	35	55	100	3	3
I	FS-19P-125	FS-18P-125	1 1/4"	6 5/8	1 5/8	6	55	70	100	5	3
I	FS-19P-150	FS-18P-150	1 1/2"	6 5/8	1 5/8	6	70	85	100	5	4
I	FS-31P-200	FS-30P-200	2"	7 1/4	2 1/4	10	85	135	195	5	8
S	FS-231P-200	FS-230P-200	2"	12 1/4	2 1/4	10	135	135	300	5	14
S	FS-231P-250	FS-230P-250	2 1/2"	12 1/2	2 1/2	10	195	195	300	9	15
I	FS-231P-300	FS-230P-300	3"	13	3	10	200	300	300	9	15

Note: Model offerings and design parameters may change without notice.

1151 Ardmore Ave. ♦ Itasca, IL 60143 USA
Sales/Service: 630.773.1363 ♦ Fax: 630.773.0727
E-mail: sales@solbergmfg.com ♦ Web Site: www.solbergmfg.com

SOLBERG



Inlet Vacuum Filters
Maintenance Manual

www.solbergmfg.com

Note: Please read the maintenance instructions given by the OEM for the machinery first. The OEM's manual should be adhered to in order to protect the equipment. Solberg Manufacturing, Inc has made every effort to make sure that these instructions are accurate but is not responsible for any typos, slight variations or for human errors that may occur.

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com
Rev: MMVF-407

Maintenance Manual

SOLBERG Inlet Vacuum Filters

CONTENTS

Section A

Introduction ..... pg. 3

Section B

General Information

1. Identification of Solberg Filters ..... pg. 3
2. Filtration Rules of Thumb ..... pg. 4
3. Element Specifications. ..... pg. 6
4. Element Cleaning ..... pg. 7

Section C

Procedures

1. Installation ..... pg. 8
2. Disconnecting Canister Top from Base ..... pg. 8
3. Removing Element for Service/Maintenance. ..... pg. 8
4. Securing Element ..... pg. 9
5. Securing Canister Top to Canister Base. ..... pg. 9

Section D

Maintenance Recommendations

1. General ..... pg. 10
2. Spare Parts List ..... pg. 10

**For Further Information Please Call: 630-773-1363*

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com

Rev: MMVF-407

Section A

INTRODUCTION

The purpose of this manual is instruction on the proper assembly and care of Solberg inlet vacuum filters.

WARNING

This manual must be read and thoroughly understood before using and caring for this air filter. Failure to comply could result in explosion, product/system contamination or personal injury.

This manual should be used as a supplement to the user's understanding of the proper care needed to maintain a safe and dependable air filter. It is the responsibility of the user to interpret and explain all instructions to persons who do not read or understand English BEFORE they are allowed to maintain and use this filter.

This manual should be readily available to all operators responsible for operation and maintenance of the vacuum inlet filters.

We thank you for selecting products from Solberg Manufacturing, Inc. We are confident that our superior filter designs will exceed your application requirements.

Section B

GENERAL INFORMATION

1. Identification of Solberg Vacuum Inlet Filters.

All Solberg inlet vacuum air filters should have an identification label/nameplate that gives the following information:

Assembly Model #
Replacement Element #

(The exception is OEM supplied units. In this case please enter the OEM part numbers below.)

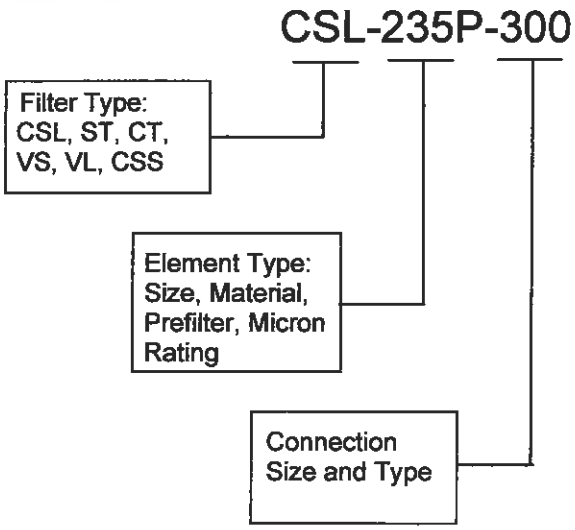
Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com

Fill in the actual nameplate data from your new Solberg inlet filter(s):

No.	Filter Model Number	Replacement Element
1		
2		
3		
4		
5		

Table 1

The model number designates the filter type, the original element configuration and housing connection size. For example, the following part number identifies the filter as being a 'CSL' design filter with a 235 element with prefilter and 3" MPT connection size:



2. Filtration Rules of Thumb

General: For peak output performance from a compressor, blower, vacuum pump, engine, or any other machine that consumes air, one must have clean, unrestricted air. Proper filtration can help stabilize the working environment within rotating equipment even when the external conditions may be quite severe. A critical component in creating the right working conditions is filter sizing. With the properly sized filter, equipment will run smoothly over its entire expected operating life.

A major factor in filtration and filter sizing is air velocity through the filter media. Generally, the slower the velocity of air through a media the higher the filter

efficiency and, conversely, the lower the pressure drop. Therefore, the primary goal in filter sizing is to optimize the velocity of air through the media (sometimes called face velocity).

Rule of Thumb #1: Always begin with the filter cartridge requirements when sizing a filter. Once the appropriate element has been selected then move on to the housing requirements.

Rule of Thumb #2: Always ask or specify a filter based on a micron rating **with** filtration efficiencies. As an example, stating a requirement for a 1-micron filter is misleading because no efficiency rating has been specified. A 1-micron filter at 95-% efficiency may be less efficient than a 5-micron filter at 99% efficiency. For proper air system performance in light and industrial duty environments, a filter with a minimum of 99% filtration efficiency at 5 microns is required.

Rule of Thumb #3: Size your filter correctly by understanding the impact air velocity through a media has on efficiency and pressure drop. Maintain the suggested Air-to-Media ratios listed below based on the external environment listings and Filtration efficiency needs.

Filtration Efficiency Requirements (99+% efficiency)	**Environmental Conditions**	**Air to Media Ratio**	
Industrial Grade 2-micron **Paper**	Industrial Duty (clean, office/warehouse-like)	30 CFM/ft^2	$(51m^3/h)/cm^2$
	Severe Duty (workshop, factory-like)	15 CFM/ft^2	$(25.5m^3/h)/cm^2$
	Extreme Duty (Foundry, Construction-like)	10 CFM/ft^2	$(17m^3/h)/cm^2$
Industrial Grade 5-micron **Polyester**	Industrial Duty (clean, office/warehouse-like)	50 CFM/ft^2	$(85m^3/h)/cm^2$
	Severe Duty (workshop, factory-like)	40 CFM/ft^2	$(68m^3/h)/cm^2$
	Extreme Duty (Foundry, Construction-like)	25 CFM/ft^2	$(42.5m^3/h)/cm^2$
Industrial Grade 1-micron **Polyester**	Severe Duty (Foundry, Construction-like)	10 CFM/ft^2	$(17m^3/h)/cm^2$
Industrial Grade 0.3-micron **HEPA** Glass @ 99.97% efficiency	Industrial Duty (clean office/warehouse-like)	10 CFM/ft^2	$(17m^3/h)/cm^2$
	Severe Duty (workshop, factory-like)	7 CFM/ft^2	$(12m^3/h)/cm^2$
	Extreme Duty (Foundry, Construction-like)	5 CFM/ft^2	$(8.5m^3/h)/cm^2$

Table 2

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com

Rule of Thumb #4: Pressure drop is also caused by the dirt holding capacity of the element. As the element fills up with dirt, the pressure drop increases. It is important to document the pressure drop across a given filter when it is new and then clean or replace it when the pressure drop increases by 10" to 15" / 250-380mm H_2O from the original reading.

Rule of Thumb #5: The inlet connection greatly influences the overall pressure drop of the filter system. To minimize the restriction contributed by an inlet filter, a velocity of 6,000 ft/min (10200m^3/h) or less is suggested through the outlet pipe. The table below lists the suggested flows based on pipe size:

Pipe Size (inches)	Max Airflow		Pipe Size (inches)	Max Airflow		Pipe Size (inches)	Airflow	
1/4"	6 CFM	10m^3/h	1 ¼"	60 CFM	102m^3/h	6"	1,100 CFM	1870m^3/h
3/8"	8 CFM	14m^3/h	1 ½"	80 CFM	136m^3/h	8"	1,800 CFM	3060m^3/h
1/2"	10 CFM	17m^3/h	2"	135 CFM	230m^3/h	10"	3,300 CFM	5610m^3/h
3/4"	20 CFM	34m^3/h	2 ½"	195 CFM	332m^3/h	12"	4,700 CFM	7990m^3/h
1"	35 CFM	60m^3/h	3"	300 CFM	510m^3/h	14"	6,000 CFM	10200m^3/h
			4"	520 CFM	884m^3/h			
			5"	800 CFM	1360m^3/h			

Table 3 **Note: This information is for general use only. A qualified engineer must properly design each system.*

3. Element Specifications

Temperature Range: -15° to 220°F / -26° to 105°C
Filter Change-Out Differential: 10" to 15" / 250-380mm H_2O Over Initial Delta P

Media	Micron Rating
Standard Paper	99+% @ 2 micron
Standard Polyester	99+% @ 5 micron
"S" Series Wire Mesh	Epoxy Coated Wire Mesh
"Z" Series Polyester	99+% @ 1 micron
"HE" Series HEPA	99.97% @ 0.3 microns
"U" Series Polyester	99+% @ 25 micron
"W" Series Polyester	99+% @ 100 micron
"S2" Series	Stainless Steel Wire Mesh
"AC" & "ACP" Series	N/A
"Y" Series Polypropylene	99+% @ 5 micron

Table 4

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com
Rev: MMVF-407

Temperature Range: -15° to 385°F / -26° to 196°C
Filter Change-Out Differential: 10" to 15" / 250-380mm H_2O Over Initial Delta P

Media	Micron Rating
"MX" & "MXD" Series – Nomex Cloth	99+% @ 5 micron

Table 5

4. Element Cleaning

Some types of Solberg inlet filter elements can be cleaned and reused. However, damage can occur to an element during cleaning so it is imperative that care is taken during disassembly, cleaning and re-assembly. Damaged elements can allow particulate bypass, which will damage rotating equipment.

A. ***Polyester Element***: The polyester element may be washed in warm soapy water, vacuumed, gently blown out or replaced. The element should be dry before reinstallation.
B. ***Paper Element***: The paper element may be lightly blown with low pressure air. It is disposable and in most cases should be replaced with a new element.
C. ***Polyurethane Prefilter***: The prefilter may be washed as a sponge or replaced to give the element a longer service life.
D. ***Epoxy Coated Wire Mesh and Stainless Steel Wire Mesh Elements***: Cleaning instructions similar to polyester, except mild solvents may be used.
E. ***Activated Carbon Element***: Not cleanable
F. ***Polypropylene Element***: Cleaning instructions similar to polyester
G. ***Nomex Cloth Element***: Cleaning instructions similar to polyester

If you are not confident that the integrity of the element was maintained during cleaning, it is recommended that a new element be installed. Also, spare parts such as gaskets, wingnuts and washers can be supplied upon request.

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com

Section C

PROCEDURES

1. **Installation.**

   A. Maximum inlet gas stream temperature for most Solberg inlet vacuum filter products is 220°F / 105°C. Temperatures in excess of this could cause damage to elements, media and elastomers.

   B. Direction of flow is typically from the outside of the element to the inside of the element. Most products have arrows indicating direction of flow on inlet and outlet ports.

   C. Ensure that pipe/flange connections are adequately sealed so the potential for leaks is reduced to a minimum.

2. **Disconnecting canister top from canister base.**

   A. ST/CT/Small CSL: Release wire-form clips or loosen wing nut on "claw" bolts.

   B. Large CSL: Loosen wing nut or hex head on T-bolts.

   C. CSS: Twist upper housing to release.

   D. VS/VL: Remove V-clamp by loosening Hex Nut or T-bolt and releasing.

   E. Lift off canister top.

3. **Removing element for service/maintenance.**

   A. Remove retaining hex head/wing-nut and washer carefully, and then remove element. Some elements will have a top plate that should also be removed.

   B. Clean sealing surfaces of housing, top & base plates, and element endcaps so that they are free of dirt or any other particulate.

WARNING

Failure to comply with these instructions may result in system or pump contamination.

4. **Securing Element.**

   A. Place new or cleaned element evenly on base plate. Be sure element seats properly on base and there is no dirt or particulate present on sealing surfaces.

   B. Place top plate (if necessary) on element by centering on tap bolt.

   C. Secure washer and wing nut to end cap (or top plate) and tap bolt. Element must be tightly secured. Note: DO NOT over tighten!

WARNING

Defective installation may cause system or pump contamination. Use only genuine Solberg replacement parts.

5. **Securing canister top to canister base.**

   A. Make sure all surfaces are free from dust and other particulate.

   B. Hemisphere o-ring must rest evenly along canister/casting base o-ring groove.

   C. ST/CT/Small CSL: Hold canister housing against o-ring or sealing ring on main filter head. Re-fasten wire-form clips or "claw" bolts.

   D. Large CSL: Replace housing top plate. Feed T-bolts into corresponding slots and tighten evenly around perimeter. Note: Do NOT over tighten!

   E. VS/VL: Secure V-clamp by disconnecting hex nut or T-bolt portion and placing V-clamp along the diameter of canister o-ring groove. Fasten T-bolt and secure tightly. V-CLAMP LEGS MUST REST UNIFORMLY ALONG ENTIRE O-RING GROOVE.

   F. CSS: Reassemble top housing to bottom housing by aligning tabs and turning into place.

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com
Rev: MMVF-407



Section D

MAINTENANCE RECOMMENDATIONS

1. Pressure drop readings are recommended to have an effective air filter. Always document initial pressure drop during start-up when element is clean. Replacement cartridge is needed when system experiences 10" to 15" / 250-380mm H_2O higher pressure drop above the initial reading. Refer to page 4 for instructions.

2. Always check replacement cartridge gaskets to insure they are adhered uniformly along the end caps during handling. If not, contact Solberg Manufacturing, Inc. immediately. Do not modify or change from Solberg specified parts!

3. Always check inlets/outlets, element base and its components when replacing element to insure cleanliness. Wipe clean if necessary.

4. Operate only when a proper seal exists.

5. VS/VL: Never operate without absolute assurance that V-clamp is secured correctly along entire diameter of canisters. Check along V-clamp for wear. Replace if any distortion occurs due to handling and usage.

SPARE PARTS LIST:

CSL/CT/VS/VL Series

		Housing						Element		
Parent Model Model-Element-Connection	Prefilter Model	Top Model No.	O-Ring Model No.	Gasket(s)/ Adapter Model No.	Wingnut(s) Model No.	Washer(s) Model No.	Clips/ Bolts Model No.	Top Plate Model No.	Wingnuts/ Bolt Model No.	Washer(s) Model No.
CSL-825/824-xxx	N/A	T824	OR337	BG224	N/A	N/A	CPWF	N/A	N/A	N/A
CSL-843/842-xxx	PF842	T842	OR550	BG268	N/A	N/A	CPWF	N/A	N/A	N/A
CSL-849/848-xxx	PF848	T848	OR675	BG281	N/A	N/A	CPWF	N/A	N/A	N/A
CSL-851/850-xxx	PF850	T850	OR750	BG412	N/A	N/A	CPWF	N/A	N/A	N/A
CSL-239/238-xxx	PF238	TD238	OR1250	N/A	N/A	N/A	CPWF	N/A	WN38X16	WR38X16
CSL-235/234-xxx	PF234	TC1400	OR1200	N/A	WN38X16	WR38X16	BT38163	T8000437	WN38X16	WR38X16
CSL-335/334-xxx	PF334	TC1400	OR1200	ADEX300	WN38X16	WR38X16	BT38163	T8000437	WN38X16	WR38X16
CSL-245/244-xxx	PF244	TC1850	OR1600	N/A	WN38X16	WR38X16	BT38163	T1000437	WN38X16	WR38X16
CSL-345/344-xxx	PF344	TC1850	OR1600	ADEX300	WN38X16	WR38X16	BT38163	T1000437	WN38X16	WR38X16
CSL-275/274-xxx	PF274	TC1850	OR1600	N/A	WN38X16	WR38X16	BT38163	T12000437	WN38X16	WR38X16
CSL-375/374-xxx	PF374	TC1850	OR1600	ADEX300	WN38X16	WR38X16	BT38163	T12000437	WN38X16	WR38X16
CSL-377/376-xxx	PF376	TC2250	OR2000	N/A	WN38X16	WR38X16	BT38163	T14750625	HN50X13	WR50X13
CSL-384(2)-xxx	PF384(2)	N/A	OR2400	N/A	WN38X16	WR38X16	BT38163	T19750625	HN50X13	WR50X13
CSL-685-xxx	PF684	N/A	OR2400	N/A	WN38X16	WR38X16	BT38163	T19750625	HN50X13	WR50X13
CSL-485(2)/484(2)-xxx	PF484(2)	N/A	OR2400	N/A	WN38X16	WR38X16	BT38163	T19750625	HN50X13	WR50X13
CT-851/850-xxx	PF850	N/A	OR725	BG412	N/A	N/A	CPWF	N/A	N/A	N/A
CT-235/234-xxx	PF234	N/A	GCT1100	ADCT234	N/A	N/A	CPWF	T8000437	BH38X16	WR38X88
CT-275/274-xxx	PF274	N/A	OR386	ADCT234	N/A	N/A	KITCT274	T12000437	BH38450	WR38X16
VS-275/274-xxx	PF274	N/A	OR386	N/A	N/A	N/A	N/A	T12000437	WN38X16	WR38X16
VL-275/274-xxx	PF274	N/A	OR386	N/A	N/A	N/A	N/A	T12000437	WN38X16	WR38X16

*Note: Spare parts are for standard products. See page 4 for replacement element.

Solberg Manufacturing, Inc., 1151 Ardmore Itasca, IL 60143 USA
Ph: 630.773.1363 Fax: 630.773.0727 Email: sales@solbergmfg.com Web: www.solbergmfg.com
Rev: MMVF-407



Models 215V and 337

KUNKLE

Model 215V is Non-code Vacuum and Model 337 is ASME Section VIII, Air/Gas Vacuum, 'UV' National Board Certified, Safety Valves. PED Certified for Non-Hazardous Gas.

Features

- **Large nozzle design** provides high capacity.
- **Flat bronze valve seats are lapped** for optimum performance.
- **Warn ring offers easy adjustability** for precise opening with minimum pre-open or simmer and exact blowdown control.
- **Pivot between disc and spring** corrects misalignment and compensates for spring side thrust.

Model Descriptions

- **Model 337 has 'pull-ring' lift device** for easy manual testing.
- **Every valve is 100% tested/inspected** for pressure setting, blowdown and leakage.
- **All adjustments are factory sealed** to prevent tampering or disassembly.

Option

- SS trim. (nozzle and disc) (Variation 03)

Applications

- Protection of low to medium pressure high volume blowers, compressors and pneumatic conveying systems.
- Bulk hauling trailers/equipment.
- Light gauge tanks.
- Protection of high volume vacuum pumps and conveying systems.



Vacuum Limits

Model 215V:
2-inch HG
to 29-inch HG
[67.7 to 982 mbarg]
-20° to 406°F [-29° to 208°C]

Pressure and Temperature Limits

Model 337:
1 to 60 psig [0.07 to 4.1 barg]
-20° to 406°F [-29° to 208°C]

tyco / Flow Control

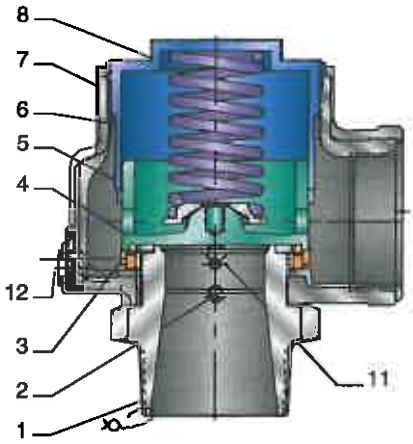
Total Flow Control Solutions™

Kunkle is either a trademark or registered trademark of Tyco International Services AG or its affiliates in the United States and/or other countries. All other brand names, product names, or trademarks belong to their respective holders.

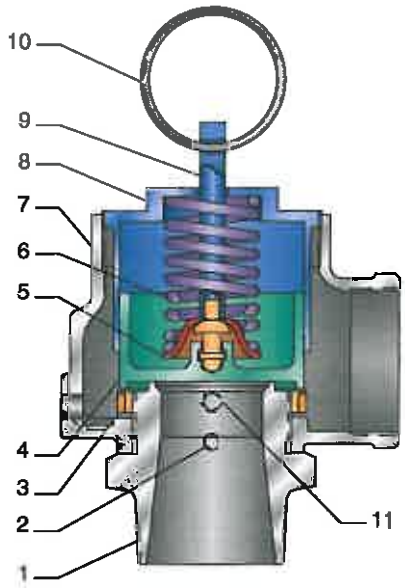
Copyright © 2005 Tyco Flow Control. All rights reserved.

Models 215V and 337

arts and Materials



Model 215V



Model 337

Models 215V and 337

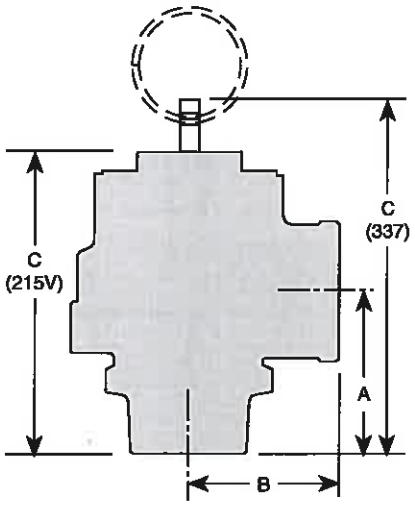
No.	Part Name	215V	337
1	Nozzle[1]	Bronze, SB62	Bronze, SB62
2	Set Screw	Steel A108-1018 Brass Plated	Steel A108-1018 Brass Plated
3	Regulator Ring	Bronze B584 Alloy 84400	Bronze B584-C84400
4	Disc[1]	Bronze B584 Alloy 84400	Bronze B584-C84400
5	Spring Step	Steel A-109 Coated[3]	Steel A109 Coated[3]
6	Spring	SS, A313 TY 302	SS A313-302
7	Body	Cast Iron A-126, CL A or B	Iron A-126, CL A or B
8	Compression Screw	Bronze, B-584 Alloy 84400	Bronze, B584-C84400
9	Stem[2]	N/A	Brass B16
10	Lift Ring[2]	N/A	SS A313-302
11	Regulator Ring Set Screw	N/A	Brass B16
12	NPT Drainplug	Steel A108-1018	N/A

Notes

1. Disc and nozzle available in SSA-479 TY 316.
2. Stem and lift ring available on Model 337 only.
3. Corrosion preventative coating.

Specifications

Size Inlet and Outlet	Dimensions, in [mm] A	B	C 215V	C 337	Weight lb [kg]
2" [50.8 mm]	3¼ [82.5]	3 [76.2]	6½ [165.1]	7 [177.8]	8 [3.6]
2½" [63.5 mm]	3¾ [95.2]	3½ [88.9]	7⅝ [194.6]	8 [203.2]	12 [5.4]
3" [76.2 mm]	4¼ [107.9]	4 [101.6]	8½ [215.9]	9 [228.6]	20 [4.1]



Model 337

Copyright © 2006 Tyco Flow Control. All rights reserved.

Models 215V and 337

Capacities

Model 337, Non-code[1] and ASME Section VIII Air (SCFM)

Set Pressure (psig)	Valve Inlet and Outlet Size 2"	2½"	3"
1	240	364	527
5	531	805	1166
10	741	1124	1628
15	948	1436	2081
20	1092	1656	2399
25	1237	1875	2718
30	1382	2095	3036
35	1542	2337	3386
40	1701	2578	3736
45	1860	2820	4086
50	2020	3061	4436
55	2179	3303	4786
60	2338	3544	5136

Note

1. No code stamp or 'NB' on nameplate below 15 psig set.

Model 337, Non-code[1] and ASME Section VIII Air [Metric, Nm³/h]

Set Pressure [barg]	Valve Inlet and Outlet Size 50 mm	63 mm	80 mm
0.5	1049	1589	2303
1.0	1457	2208	3200
1.5	1888	2861	4147
2.0	2235	3387	4910
2.5	2613	3959	5739
3.0	2995	4538	6579
3.5	3377	5117	7418
4.0	3760	5696	8258

Note

1. No code stamp or 'NB' on nameplate below 1.1 barg set.

Model 215V, Non-code Vacuum Air (SCFM)

Relief Set (in, HG)	Valve Inlet and Outlet Size 2" Orifice Area, in² 1.84	2½" Orifice Area, in² 2.79	3" Orifice Area, in² 4.04
2	229	347	503
5	338	512	742
10	415	630	912
15	426	646	936
20	426	646	936
29	426	646	936

Model 215V, Non-code Vacuum Air [Metric, Nm³/h]

Relief Set [mbarg]	Valve Inlet and Outlet Size 5.08 cm Orifice Area [11.86 cm²]	6.35 cm Orifice Area [17.97 cm²]	7.62 cm Orifice Area [26.05 cm²]
50	328	498	722
100	450	682	988
150	533	807	1170
200	593	899	1303
250	638	966	1400
300	669	1014	1470
350	690	1046	1516
400	701	1062	1540
450	704	1067	1546
500	704	1067	1546
550	704	1067	1546
600	704	1067	1546
650	704	1067	1546
700	704	1067	1546
750	704	1067	1546

Copyright © 2005 Tyco Flow Control. All rights reserved.

Models 215V and 337

Model Number/Order Guide

Model Number Position	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
Example	2	1	5	V	—	H	0	1	A	Q	E	0	0	5	0

Model
215V
0337

Inlet Size
H - 2-inch [50.8 mm]
J - 2½-inch [63.5 mm]
K - 3-inch [76.2 mm]

Variation (01 through 99)
01 - Bronze Disc and Nozzle
03 - SS Disc and Nozzle
60 - BSP Connections

Design Revision
Indicates non-interchangeable revision. Current Design is at Revision 'A'

Valve Service
K - Air ASME Section VIII (Model 337 only)
Q - Vacuum (Model 215V only)
N - Non-code Air/Gas (Model 337 only)

Spring Material
E - SST Type 302
(H-Orifice up to 18 psi; J-Orifice up to 20 psi; K-Orifice up to 25 psi)
M - SST Type 17-7
(H-Orifice above 18 psi; J-Orifice above 20 psi; K-Orifice above 25 psi)

Set Pressure
Model 337, 1 psig [0.7 barg] (0001) through 60 psig [4.1 barg] (0060)
Model 215V, 2-inch HG [68 mbarg] (0002) through 29-inch HG [982 mbarg] (0029) vacuum

Facility Phone: 828-669-3700

Tyco Valves & Controls

www.kunklevalve.com

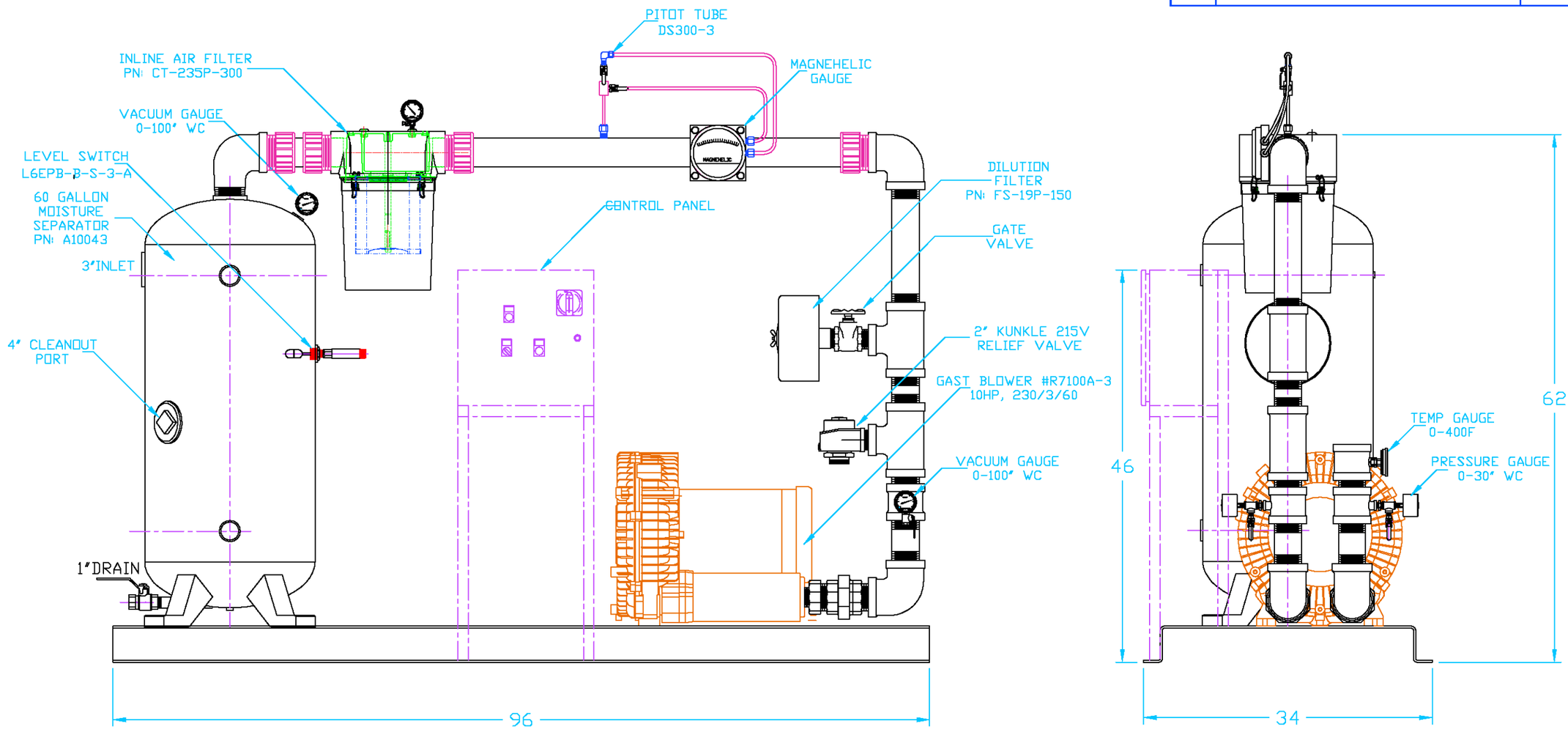
Tyco Flow Control (TFC) provides the information herein in good faith but makes no representation as to its comprehensiveness or accuracy. This data sheet is intended only as a guide to TFC products and services. Individuals using this data sheet must exercise their independent judgment in evaluating product selection and determining product appropriateness for their particular purpose and system requirements. TFC MAKES NO REPRESENTATIONS OR WARRANTIES, EITHER EXPRESS OR IMPLIED, INCLUDING WITHOUT LIMITATION ANY WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE WITH RESPECT TO THE INFORMATION SET FORTH HEREIN OR THE PRODUCT(S) TO WHICH THE INFORMATION REFERS. ACCORDINGLY, TFC WILL NOT BE RESPONSIBLE FOR DAMAGES (OF ANY KIND OR NATURE, INCLUDING INCIDENTAL, INDIRECT, OR CONSEQUENTIAL DAMAGES) RESULTING FROM THE USE OF OR RELIANCE UPON THIS INFORMATION. Patents and Patents Pending in the U.S. and foreign countries. Tyco reserves the right to change product designs and specifications without notice.

Copyright © 2005 Tyco Flow Control. All rights reserved

SECTION 2:

SYSTEM DRAWINGS

REVISIONS			
REV.	DESCRIPTION	DATE	APPR.



CONFIDENTIALITY NOTE:
The information contained in this drawing is intended for use only by Air Energy, Inc. information is confidential and any copying, distribution or dissemination without the consent of Air Energy, Inc. is strictly prohibited.

AIR ENERGY, INCORPORATED
6 NORFOLK AVE. SOUTH EASTON, MA

DRWN BY: AGP	DATE: 11/29/10	TITLE: Figure 3-10 Building 785 and 786 Blower System Schematic				
CHK BY	DATE	FPM Remediations, Inc.			JOB NO.	
APPR BY	DATE	SCALE	SIZE	DWG NO.	SHEET 1 OF 1	REV 1

SECTION 3:

INSTRUMENTATION

Model L6 FLOTECT® Float Switch

Specifications - Installation and Operating Instructions

Explosion-Proof; UL and CSA Listed -
Class I, Groups *A, B, C, & D
Class II, Groups E, F & G
Directive 94/9/EC (ATEX) Compliant for CE Ex
II 2 G EEx d IIC T6 Process Temp≤75°C
*(Group A, stainless steel body only)





SPECIFICATIONS

Service: Liquids compatible with wetted materials.

Wetted Materials:

Float: Solid polypropylene or 304 **SS.**

Lower Body: Brass or 303 SS.

Magnet: Ceramic.

External Float Chamber (Tee): Matches lower body choice of brass or 303 SS.

Other: Lever Arm, Spring, Pin, etc.: 301 SS.

Temperature Limit: -4 to 220°F (-20 to 105°C) Standard, MT high temperature option 400°F (205°C)(MT not UL, CSA or ATEX). ATEX compliant AT option ambient temperature -4 to 167°F (-20 to 75°C) process temperature: -4 to 220°F (-20 to 105°C).

Pressure Limits: See next page.

Enclosure Rating: Weatherproof and Explosion-proof. Listed with UL and CSA for Class I, Groups A, B, C and D; Class II, Groups E, F, and G. (Group A on stainless steel body models only).CE 0344 Ex II 2 G EEx d IIC T6 Process Temp≤75°C. EC-Type Certificate No.: KEMA 04ATEX2128

Switch Type: SPDT snap switch standard, DPDT snap switch optional.

Electrical Rating: UL models: 5A @ 125/250 VAC (V~). CSA and ATEX models: 5A @ 125/250 VAC (V~); 5A res., 3A ind. @ 30 VDC (V⎓). MV option: .1A @ 125 VAC (V~). MT option: 5A @125/250 VAC (V~). [MT option not UL, CSA or ATEX].

Electrical Connections: UL models: 18 AWG, 18" (460 mm) long. ATEX/CSA models: terminal block.

Upper Body: Brass or 303 SS.

Conduit Connection: 3/4" male NPT standard, 3/4" female NPT on junction box models.

Process Connection: 1" male NPT on models without external float chamber, 1" female NPT on models with external float chamber.

Mounting Orientation: Horizontal with index arrow pointing down.

Weight: Approximately 1 lb (.5 kg) without external float chamber, 1.75 lb (.8 kg) with external float chamber.

Specific Gravity: See next page.

Example	L6	EP	B	B	S	3	B	MT		L6EPB-B-S-3-B-MT level switch; brass upper housing, brass lower housing, brass tee with Polypropylene spherical float, SPDT snap switch, and high temperature option
Series	L6									Series L6 level switch
Construction		EP								Explosion proof and weatherproof
Upper Body Material			B S							Brass 303 Stainless Steel
Lower Body Material				B S						Brass 303 Stainless Steel
Circuit (Switch) Type					S D					SPDT DPDT
Line Size						3 4 5 6				1" NPT 1-1/4" NPT (No tee models only) 1-1/2" NPT (No tee models only) 2" NPT
Tee and Float Options							0 A B C H L S			No Tee, Solid Polypropylene Spherical Float* No Tee, 304 SS Cylindrical Float Brass Tee, Solid Polypropylene Spherical Float* No Tee, 304 SS Spherical Float Brass Tee, 304 SS Spherical Float 303 SS Tee, 304 SS Spherical Float 303 SS Tee, Solid Polypropylene Spherical Float*
Switch Options								MT MV		Gold Contacts on snap switch for dry circuits (see specifications for ratings) High Temperature switch rated 400°F (205°C) (see specifications for ratings)*
Options									AT CSA GL ID JCT JCTLH TBC TOP	ATEX approved construction (with JCT option standard) CSA approved construction (with JCT option standard)* Ground Lead* Customer Information on standard nameplate Weatherproof and explosion-proof junction box* Weatherproof and explosion-proof junction box, left side Terminal Block Connector* Top Mounted (No tee models only)*

* Options that do not have ATEX

Attention: Units without the "AT" suffix are not Directive 94/9/EC (ATEX) compliant. These units are not intended for use in potentially hazardous atmospheres in the EU. These units may be CE marked for other Directives of the EU.

W.E. ANDERSON DIV., DWYER INSTRUMENTS, INC.
P.O. BOX 358 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000
Fax: 219/872-9057
www.dwyer-inst.com
e-mail: info@dwyer-inst.com

MAXIMUM PRESSURE CHART

Model Number	Float	Pressure Rating psig (kg/cm²)
L6EPB-B-S-3-A	Cylindrical SS	200 (13.8)
L6EPB-B-S-3-B	Polypropylene	250 (17.2)
L6EPB-B-S-3-C	Round SS	350 (24.1)
L6EPB-B-S-3-H	Round SS	250 (17.2)
L6EPB-B-S-3-O	Polypropylene	1000 (69)
L6EPB-S-S-3-A	Cylindrical SS	200 (13.8)
L6EPB-S-S-3-C	Round SS	350 (24.1)
L6EPB-S-S-3-L	Round SS	350 (24.1)
L6EPB-S-S-3-O	Polypropylene	2000 (138)
L6EPB-S-S-3-S	Polypropylene	2000 (138)

WETTED MATERIALS CHART

Model	Brass	Bronze	Ceramic	Polypropylene	301SS	303SS	304SS
B-S-3-A	X		X		X		X
B-S-3-B	X	X	X	X	X		
B-S-3-C	X		X		X		X
B-S-3-H	X	X	X		X		
B-S-3-O	X		X	X	X		
S-S-3-A			X	X	X		X
S-S-3-C			X		X	X	X
S-S-3-L			X		X	X	X
S-S-3-O			X	X	X	X	
S-S-3-S			X	X	X	X	

INSTALLATION

Unpack switch and remove any packing material found inside lower housing or float chamber.

Switch must be installed with body in a horizontal plane and arrow on side pointing down.

If switch has an external float chamber (tee), connect it to vertical sections of 1" NPT pipe installed outside vessel walls at appropriate levels. If unit has no external float chamber, it must be mounted in a 1" NPT half coupling welded to the vessel wall. The coupling must extend through the wall.

Inspect and clean wetted parts at regular intervals.

ELECTRICAL CONNECTIONS

Connect wire leads in accordance with local electrical codes and switch action required. N.O. contacts will close and N.C. contacts will open when liquid level causes float to rise. They will return to "normal" condition on decreasing liquid level. Black = common, Blue = N.O. and Red = N.C.

For units supplied with both internal and external grounds the ground screw inside the housing must be used to ground the control. The external ground screw is for supplementary bonding when allowed or required by local code. Some CSA listed models are furnished with a separate green ground wire. Such units must be equipped with a junction box, no supplied but available on special order.

EC-Type Certificate Installation Instructions:

Cable Connection

The cable entry device shall be certified in type of explosion protection flameproof enclosure "d", suitable for conditions of use and correctly installed. For ambient temperatures over 70°C, cable and cable glands suitable for at least 90°C shall be used.

Conduit Connection

An EEx d certified sealing device such as a conduit seal with setting compound shall be provided immediately to the entrance of the valve housing. For ambient temperatures over 70°C, the wiring and setting compound in the conduit seal shall be suitable for at least 90°C.

Note: ATEX units only: The temperature class is determined by the maximum ambient and or process temperature. Units are intended to be used in ambient of -20°C≤ Tamb ≤75°C. Units may be used in process temperatures up to 105°C providing the enclosure and switch body temperatures do not exceed 75°C. The standard Temperature Class is T6 Process Temp ≤75°C.

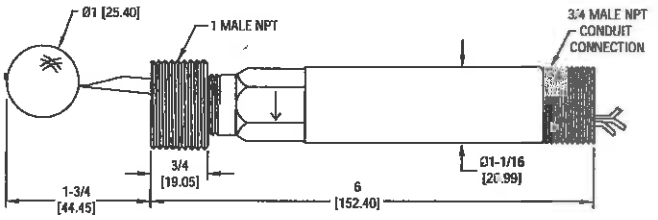
All wiring, conduit and enclosures must meet applicable codes for hazardous areas. Conduits and enclosures must be properly sealed. For outdoor or other locations where temperatures vary widely, precautions should be taken to prevent condensation inside switch or enclosure. Electrical components must be kept dry at all times.

CAUTION: To prevent ignition of hazardous atmospheres, disconnect the device from the supply circuit before opening. Keep assembly tightly closed when in use.

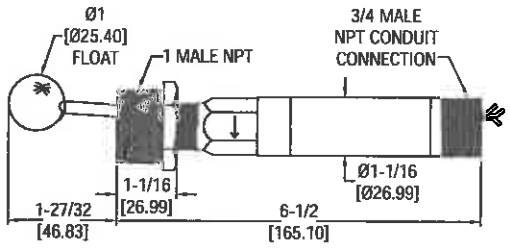
MAINTENANCE

Inspect and clean wetted parts at regular intervals. The cover should be in place at all times to protect, the internal components from dirt, dust and weather and to maintain hazardous location ratings. Disconnect device from the supply circuit before opening to prevent ignition of hazardous atmosphere. Repairs to be conducted by Dwyer Instruments, Inc. Units in need of repair should be returned to the factory prepaid.

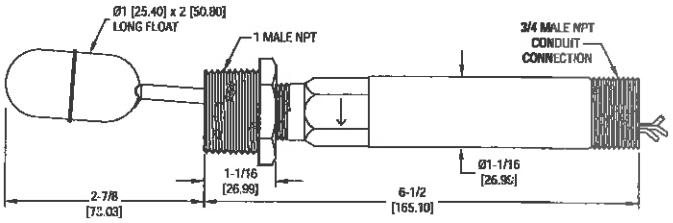
FLOTECT® MODEL L-6 FLOAT SWITCH — DIMENSION DRAWINGS



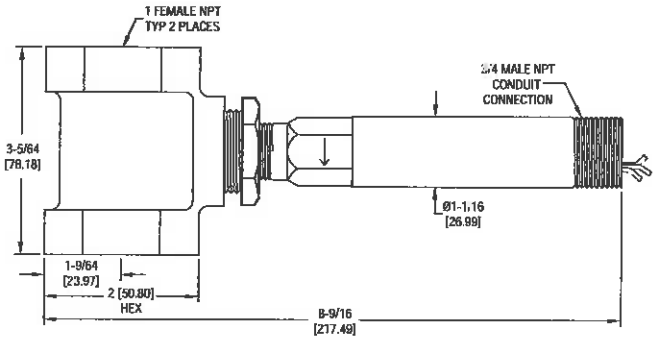
Polypropylene Float



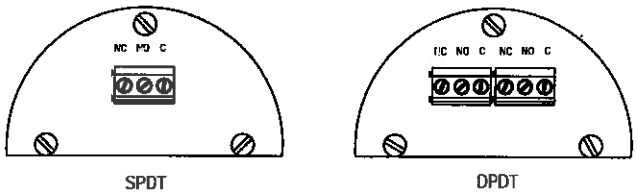
Round Stainless Steel Float



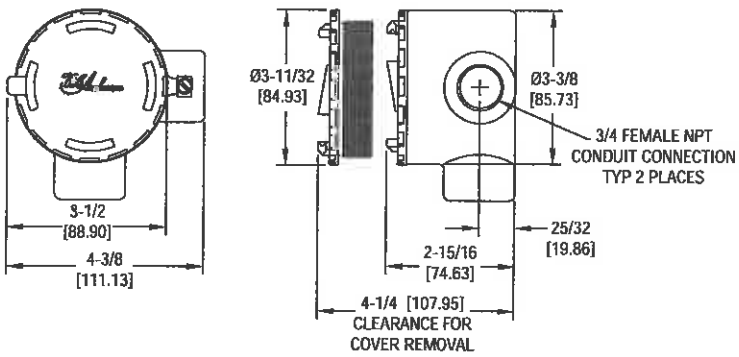
Cylindrical Stainless Steel Float



With External Chamber (Tee)



Terminal Connections CSA, ATEX Enclosures



CSA, ATEX Conduit Enclosure

Limited Warranty: The Seller warrants all Dwyer instruments and equipment to be free from defects in workmanship or material under normal use and service for a period of one year from date of shipment. Liability under this warranty is limited to repair or replacement F.O.B. factory of any parts which prove to be defective within that time or repayment of the purchase price at the Seller's option provided the instruments have been returned, transportation prepaid, within one year from the date of purchase. All technical advice, recommendations and services are based on technical data and information which the Seller believes to be reliable and are intended for use by persons having skill and knowledge of the business, at their own discretion. In no case is Seller liable beyond replacement of equipment F.O.B. factory or the full purchase price. This warranty does not apply if the maximum ratings label is removed or if the instrument or equipment is abused, altered, used at ratings above the maximum specified, or otherwise misused in any way.

THIS EXPRESS LIMITED WARRANTY IS IN LIEU OF AND EXCLUDES ALL OTHER REPRESENTATIONS MADE BY ADVERTISEMENTS OR BY AGENTS AND ALL OTHER WARRANTIES, BOTH EXPRESS AND IMPLIED. THERE ARE NO IMPLIED WARRANTIES OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE FOR GOODS COVERED HEREUNDER.

Buyers Remedies: THE BUYER'S EXCLUSIVE AND SOLE REMEDY ON ACCOUNT OF OR IN RESPECT TO THE FURNISHING OF NON-CONFORMING OR DEFECTIVE MATERIAL SHALL BE TO SECURE REPLACEMENT THEREOF AS AFORESAID. THE SELLER SHALL NOT IN ANY EVENT BE LIABLE FOR THE COST OF ANY LABOR EXPENDED ON ANY SUCH MATERIAL OR FORM ANY SPECIAL, DIRECT, INDIRECT OR CONSEQUENTIAL DAMAGES TO ANYONE BY REASON OF THE FACT THAT IT SHALL HAVE BEEN NON-CONFORMING OR DEFECTIVE.

W.E. ANDERSON DIV., DWYER INSTRUMENTS, INC.
P.O. BOX 358 • MICHIGAN CITY, INDIANA 46361 U.S.A.

Phone: 219/879-8000
Fax: 219/872-9057

www.dwyer-inst.com
e-mail: info@dwyer-inst.com

Type 1490 Low Pressure Diaphragm Gauge



- *Glass-filled polysulfone case material, won't rust or dent*
- *Beryllium copper diaphragm*
- *Brass socket*
- *Wetted materials of beryllium copper, brass, polysulfone and RTV silicone*

The Ashcroft® Type 1490 low pressure diaphragm gauge is designed to measure pressure from 10 in. H_2O to 15 psi, both positive and negative pressures. This gauge uses a very sensitive diaphragm capsule to measure low pressure and vacuum. The gauge is specifically designed for use whenever the pressure medium is a gas that is not corrosive to beryllium copper, brass, polysulfone and RTV silicone. The polysulfone case is suitable for intermittent or continuous service on natural gas provided a .013 throttle plug is installed in the socket. Typical applications are, but not limited to, vacuum pumps, gas leak detectors, air compressors, air filters, gas burners, gas measurement, vacuum ovens, suction regulators and respirators.

PRODUCT SPECIFICATIONS

Model Number:	1490
Accuracy:	±2-1-2% full scale (Grade A, ASME B40.100)
Ranges:	10 in. H_2O through 15 psi including vac. and compound
Dial Size:	2½″ and 3½″ diameter
Case Material:	Black, glass filled polysulfone
Socket Material:	Brass
Movement:	Brass
Sensing Element:	Beryllium copper diaphragm
Wetted Material:	Beryllium copper, brass, polysulfone and RTV silicone
Window:	Polycarbonate, quarter turn bayonet style mounting
Dial:	Aluminum, white background, black figures and intervals.
Pointer:	Black, aluminum, fixed
Connection Size:	⅛ NPT (01) ¼ NPT (02) ⅛″ tubing hose barb (HD) 3⁄16″ tubing hose barb (HE) ¼″ tubing hose barb (HF) ¼″ O.D. polytube hose barb (HG) 10-32 2B female thread (HH)
Connection Location:	Lower (L) Center Back (B) Top (T) 3 o'clock (D) 9 o'clock (E)
Operating Temperature:	–20 to 180°F
Proof Pressure:	150% of range
Burst Pressure:	Up to 5 psi = 50 psi Greater than 5 psi = 100 psi

OPTIONAL FEATURES

1% Accuracy:	XAN
Dial Marking:	XDA
Stainless Steel Tag:	XNH
Paper Tag:	XNN
Throttle Plug:(1)(3)	XTU
Throttle Screw:(4)	XTS
U-clamp:(2)	XUC
FlutterGuard™:	XZY

(1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.
(2) U-clamp furnished when hose barb or female thread is specified.
(3) Throttle plug not available with hose barb or female thread connections.
(4) .020 throttle screw available with HH connection only.

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
© Ashcroft Inc. 2010 06/10

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
Tel: 203-378-8281 • Fax: 203-385-0408
email: info@ashcroft.com • www.ashcroft.com

ASHCROFT®

Type 1490 Low Pressure Diaphragm Gauge

STANDARD RANGES		
Pressure	**Figure Intervals**	**Minor Graduation**
0/10 in.H_2O	1	0.1
0/15 in.H_2O	5	0.2
0/30 in.H_2O	5	0.5
0/60 in.H_2O	10	1
0/100 in.H_2O	10	1
0/160 in.H_2O	20	2
0/200 in.H_2O	20	2
0/300 in.H_2O	50	5
0/10 oz./in.^{2}	1	0.1
0/15 oz./in.^{2}	5	0.2
0/30 oz./in.^{2}	5	0.5
0/60 oz./in.^{2}	10	1
0/100 oz./in.^{2}	10	1
0/160 oz./in.^{2}	20	2
0/250 oz./in.^{2}	50	5
0/3 psi	0.5	0.05
0/5 psi	1	0.1
0/10 psi	1	0.1
0/15 psi	5	0.2

STANDARD RANGES (Cont.)		
Vacuum	**Figure Intervals**	**Minor Graduation**
15/0 in.H_2O	5	0.2
30/0 in.H_2O	5	0.5
60/0 in.H_2O	10	1
100/0 in.H_2O	10	1
200/0 in.H_2O	20	2
15/0 oz./in.^{2}	5	0.2
30/0 oz./in.^{2}	5	0.5
60/0 oz./in.^{2}	10	1
100/0 oz./in.^{2}	10	1
Compound		
–30/30 in.H_2O	10	1
–30/30 in.oz./in.^{2}	10	1
–10/10 in.H_2O	2	0.2

Dual Scale

Range		Graduations			
		Inner Scale		Outer Scale	
Inner Scale	**Outer Scale**	**Figure Intervals**	**Minor Grad.**	**Figure Intervals**	**Minor Grad.**
0/9 oz./in.^{2}	0/15 in.H_2O	1	0.2	5	0.2
0/20 oz./in.^{2}	0/35 in.H_2O	5	0.5	5	0.5
0/35 oz./in.^{2}	0/60 in.H_2O	5	0.5	10	1
0/60oz./in.^{2}	0/100 in.H_2O	10	1	10	1

Other ranges available on request. Consult factory.

STANDARD METRIC RANGES		
Pressure	**Figure Intervals**	**Minor Graduation**
0/60 cm. H_2O	10	1
0/2.5 kPa	0.5	0.05
0/4 kPa	1	0.1
0/10 kPa	1	0.1
0/16 kPa	2	0.2
0/25 kPa	5	0.5
0/40 kPa	10	1
0/100 kPa	10	1
Vacuum		
2.5/0 kPa	0.5	0.05
4/0 kPa	1	0.1
10/0 kPa	1	0.1
16/0 kPa	2	0.2
25/0 kPa	5	0.5
40/0 kPa	10	1
100/0 kPa	10	1
Compound		
–10/60 cm H_2O	10	1
–10/80 cm H_2O	10	1
–20/40 cm H_2O	10	1
–10/100 cm H_2O	10	1
–10/120 cm H_2O	20	2

SELECTION TABLE

Dial Size		Type		Wetted Material		Conn. Size & Type		Connection Location		Ranges		Optional Features	
Code	**Desc.**	**Code**	**Description**	**Code**	**Description**	**Code**	**Description**	**Code**	**Description**	**Code**	**Description**	**Code**	**Description**
25 35	2½″ 3½″	1490	Low Pressure Diaphragm Gauge	A	Beryllium Copper Brass Polysulfone RTV Silicone	01 02 HD HE HF HG HH	⅛ NPT ¼ NPT ⅛″ I.D.Tubing Hose Barb(2,3) 3/16″ I.D.Tubing Hose Barb(2,3) ¼″ I.D.Tubing Hose Barb(2,3) ¼″ O.D. Polytube Hose Barb(2,3) 10-32-2B Female Thread(2,3,5)	L B T D E	Lower Center Back Top 3 O'Clock 9 O'Clock	10 IW	0 to 10 in.H_2O See Chart for Entire List of Ranges	XAN XDA XNH XNN XTU(1,3) XTS(4) XUC(2) XZY	1% Opt. Accuracy Dial Marking Stain. Steel Tag Paper Tag Throttle Plug Throttle Screw U-clamp FlutterGuard™

(1) A throttle plug must be installed in the socket whenever the gauge is used for intermittent or continuous service on natural gas.
(2) U-clamp furnished when hose barb or female thread is specified.
(3) Throttle plug not available with hose barb or female thread connections.
(4) .020 throttle screw available with HH connection only.

HOW TO ORDER: **25 1490 A 02L XXX 10 IW**

1. Dial size – 2½ (25), 3½ (35)
2. Case type
3. Wetted material
4. Connection size – ¼ (02), ⅛ (01)
5. Connection location – Lower (L), Back (B)
6. Optional features
7. Standard pressure range – 10 in.H_2O

ISO 9001
REGISTERED FIRM

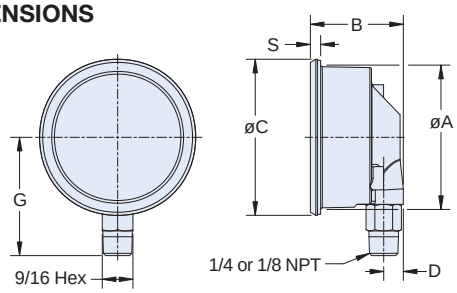
BULLETIN DG-1490

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
© Ashcroft Inc. 2010 06/10

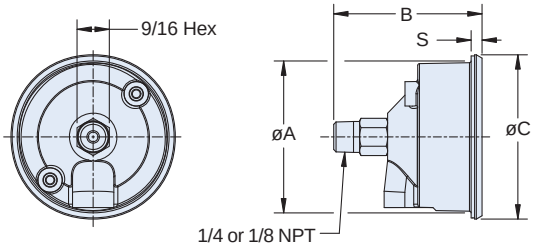
Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
Tel: 203-378-8281 • Fax: 203-385-0408
email: info@ashcroft.com • www.ashcroft.com

Type 1490 Low Pressure Diaphragm Gauge

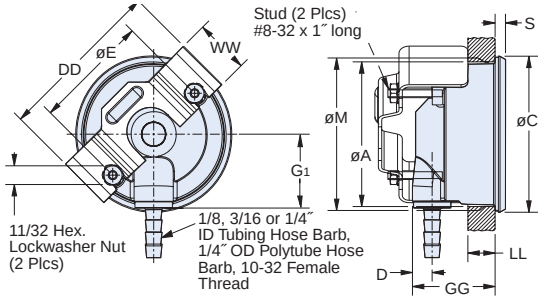
DIMENSIONS



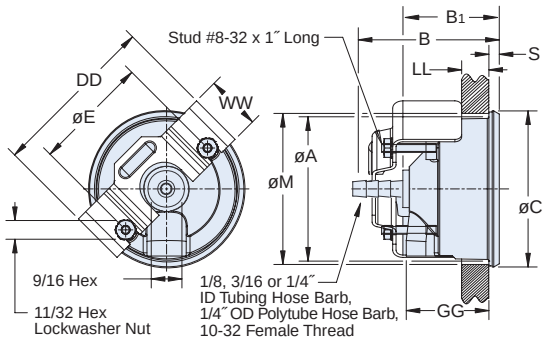
Size	øA	B	øC	D	G	S
25	2 19/32 (66)	1 23/32 (44)	2 7/8 (73)	3/8 (10)	2 3/16 (55)	13/64 (5)
35	3 21/32 (93)	1 11/16 (43)	3 31/32 (101)	3/8 (10)	2 23/32 (69)	13/64 (5)



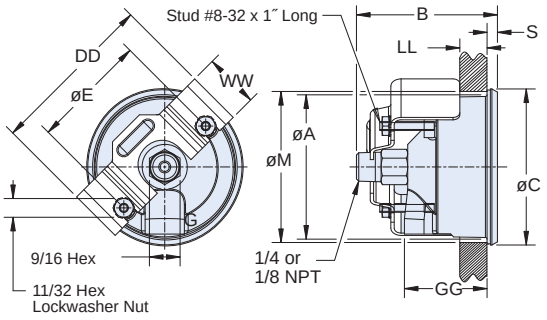
Size	øA	B	øC	S
25	2 19/32 (66)	2 19/32 (66)	2 7/8 (73)	13/64 (5)
35	3 21/32 (93)	2 9/16 (65)	3 31/32 (101)	13/64 (5)



Size	øA	øC	D	øE	G				G1	øM	S	DD	GG	LL Max.	WW
					1/8 ID Tubing	3/16 ID Tubing	1/4 ID Tubing	1/4 OD Tubing	10-32 Female						
25	2 19/32 (66)	2 7/8 (73)	3/8 (10)	2 1/8 (54)	1 3/4 (44)	2 1/8 (54)	2 9/32 (54)	1 3/4 (44)	1 11/32 (34)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	3 31/32 (101)	3/8 (10)	3 3/16 (67)	2 5/16 (59)	2 21/32 (81)	2 13/16 (54)	2 5/16 (59)	1 31/32 (50)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)



Size	øA	B				B1	øC	øE	øM	S	DD	GG	LL Max.	WW
		1/8 ID Tubing	3/16 ID Tubing	1/4 ID Tubing	1/4 OD Tubing	10-32 Female								
25	2 19/32 (66)	2 3/16 (55)	2 17/32 (64)	2 11/16 (68)	2 3/16 (55)	1 25/32 (45)	2 7/8 (73)	2 1/8 (54)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	2 1/8 (54)	2 1/2 (63)	2 21/32 (67)	2 1/8 (54)	1 23/32 (44)	3 31/32 (101)	3 3/16 (81)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)



U-clamp Option

Size	øA	B	øC	øE	øM	S	DD	GG	LL MAX	WW
25	2 19/32 (66)	2 19/32 (66)	2 7/8 (73)	2 1/8 (54)	2 21/32 (67)	13/64 (5)	3 1/16 (78)	1 19/32 (40)	1/2 (13)	1 (25)
35	3 21/32 (93)	2 9/16 (65)	3 31/32 (101)	3 3/16 (81)	3 3/4 (95)	13/64 (5)	4 1/8 (105)	1 17/32 (39)	1/2 (13)	1 (25)

All specifications are subject to change without notice.
All sales subject to standard terms and conditions.
© Ashcroft Inc. 2010 06/10

Ashcroft Inc., 250 East Main Street, Stratford, CT 06614 USA
Tel: 203-378-8281 • Fax: 203-385-0408
email: info@ashcroft.com • www.ashcroft.com

Capsule Pressure Gauges
Plastic Case / Low Cost Design
Type 611.13

Applications

- For gaseous, dry and non aggressive media.
- Medical, vacuum, environmental, HVAC and filter monitoring.

Special features

- Compact design
- Plastic case
- Low ranges from 0/25” H2O (60 mbar)
- Maximum range 0/400” H2O (1000 mbar)



Capsule Pressure Gauge Model 611.13

Description

Nominal Sizes
2” & 2.5” (50 & 63 mm)

Accuracy class
± 2.5% of span

Scale Ranges
0/25 to 0/400 “H2O (0/60 to 0/1000 mbar)
or other equivalent units of pressure or vacuum

Working Pressure
Steady: Full scale value
Fluctuating: 90% of full scale value

Operating Temperature
Ambient: -4°F to +140°F (-20°C to +60°C)
Medium: +140°F (+60°C)

Temperature effect
When temperature of the pressure element deviates from reference temperature (+70°F / +20°C): max. ±0.6%/18°F

Weather protection
IP 53 per EN 60 529 / IEC 529

WIKA
Part of your business

Standard features

Pressure connection
Material: copper alloy
Lower mount (LM) or center back mount (CBM)
1/4" NPT (male), 14 mm wrench flats

Pressure element
Material: Beryllium copper (CuBe2)

O-ring
NBR (Perbunan)

Movement
Copper alloy

Dial
White aluminum with black numberals

Pointer
Black aluminum

Case
Plastic, black

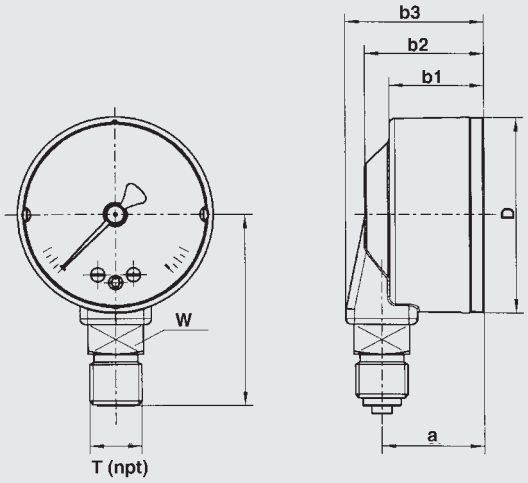
Window
Acrylic, snapped-in

Optional extras

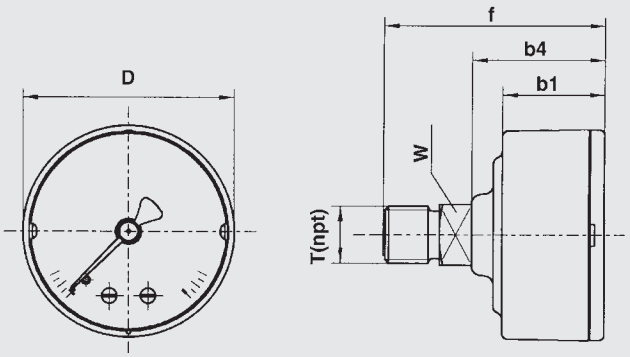
- Other pressure connection
- Under & overpressure safety
- Accuracy ±1.6% of span
- Zero adjustment screw on dial
- Black painted steel case (Type 611.23)
- Restrictor

Dimensions

Lower mount (LM) connection



Center back mount (CBM) connection



Size		a	b1	b2	b3	b4	D	f	h	T	W	Weight
2"	mm	26	24	30	35	31	49	51.5	48		14	0.07 kg
	in	1.02	0.94	1.18	1.38	1.22	1.93	2.03	1.89	1/4"	0.55	0.15 lbs
2.5"	mm	25.5	24	29.5	34.5	31	62	51.5	48		14	0.08 kg
	in	1.00	0.94	1.16	1.36	1.22	2.44	2.03	1.89	1/4"	0.55	0.18 lbs

Ordering information
Pressure gauge model / Nominal size / Scale range / Size of connection / Optional extras required
Specifications and dimensions given in this leaflet represent the state of engineering at the time of printing.
Modifications may take place and materials specified may be replaced by others without prior notice.

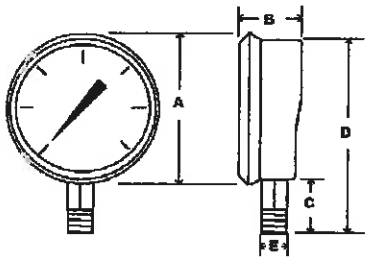
WIKA Instrument Corporation
1000 Wiegand Boulevard
Lawrenceville, GA 30043
Tel (770) 513-8200 Toll-free 1-888-WIKA-USA
Fax (770) 338-5118
E-Mail info@wika.com
www.wika.com

SEC-200 SERIES LIQUID FILLED

SPECIFICATIONS:
Stainless steel case and bezel
Brass internals and connection
Liquid filled (dry available)
Accuracy: 1 ½" & 2"dial = 2 %
2 ½" & 3 ½" dial = 3-2-3 %
4" & 6" dial = 1 %

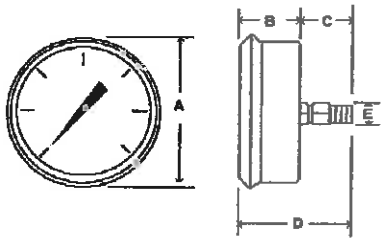
AVAILABLE DIAL SIZES:
1 ½", 2", 2 ½", 3 ½", 4" and 6"
AVAILABLE CONNECTION SIZES:
1/8"MNPT on 1 1/2" and 2"
1/4"MNPT on 2" to 6"
1/2"MNPT on 4" and 6"

SEC-201L



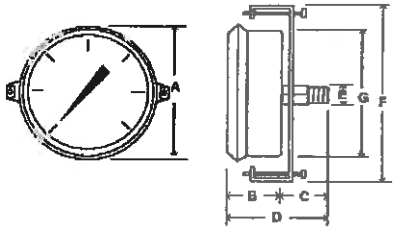
	1 1/2"	2"	2 1/2"	4"	6"
A	1.88"/48mm	2.24"/57mm	2.80"/71mm	4.32"/110mm	6.54"/166mm
B	1.06"/27mm	1.27"/32mm	1.28"/33mm	1.63"/42mm	1.70"/43mm
C	.89"/23mm	.71"/23mm	1.07"/27mm	1.25"/32mm	1.68"/43mm
D	2.77"/58mm	2.80"/71mm	3.55"/90mm	5.57"/141mm	8.22"/210mm
E	1/8npt	1/8 or 1/4npt	1/4mnpt	1/4 or 1/2npt	

SEC-202L



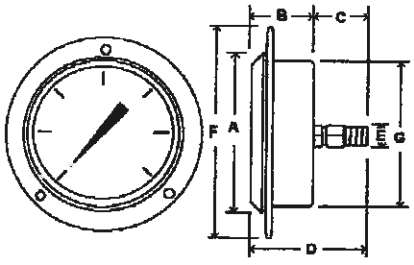
	1 1/2"	2"	2 1/2"	3 ½" *	4"	6"
A	1.88"/48mm	2.23"/57mm	2.80"/71mm	3.82"/97mm	4.32"/110mm	6.54"/166mm
B	1.06"/27mm	1.09"/28mm	1.28"/33mm	1.16"/29mm	1.63"/42mm	1.70"/43mm
C	.89"/23mm	.71"/23mm	1.18"/30mm	1.06"/27mm	1.14"/29mm	1.68"/43mm
D	1.95"/50mm	1.99"/51mm	2.46"/63mm	2.22"/56mm	2.77"/71mm	3.38"/86mm
E	1/8npt	1/8 or1/4npt	1/4mnpt	1/4mnpt		
* 3 ½"Dial Size = Lower Back Mount Connection						

SEC-203L



	1 ½"	2"	2 ½"	3 ½" *	4"
A	1.88"/48mm	2.23"/57mm	2.80"/71mm	3.82"/97mm	4.32"/110mm
B	1.06"/27mm	1.09"/28mm	1.28"/33mm	1.16"/29mm	1.63"/42mm
C	.89"/23mm	.71"/23mm	1.19"/30mm	1.06"/27mm	1.14"/29mm
D	1.95"/50mm	1.99"/51mm	2.46"/63mm	2.22"/56mm	2.77"/71mm
E	1/8npt	1/8 or 1/4npt	1/4mnpt	1/4mnpt	1/4mnpt
F	2.63"/67mm	3.00"/76mm	3.49"/89mm	3.77"/96mm	5.30"/135mm
G	1.63"/42mm	2.00"/51mm	2.50"/64mm	3.49"/88mm	3.87"/98mm
* 3 ½"Dial Size = Lower Back Mount Connection					

SEC-204L

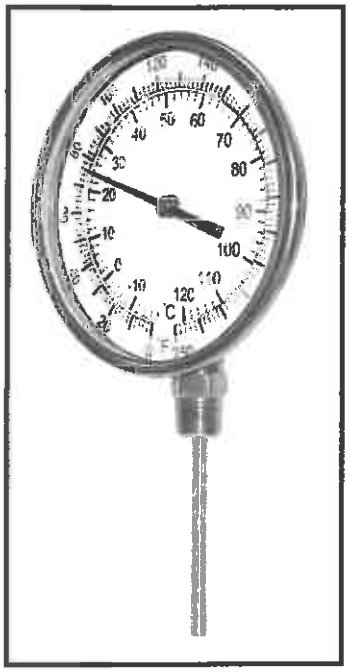


	1 ½"	2"	2 ½"	3 ½" *	4"	6"
A	1.88"/48mm	2.23"/57mm	2.80"/71mm	3.82"/97mm	4.32"/110mm	6.54"/166mm
B	1.06"/27mm	1.09"/28mm	1.28"/33mm	1.16"/29mm	1.63"/42mm	1.70"/43mm
C	.89"/23mm	.71"/23mm	1.18"/30mm	1.06"/27mm	1.14"/29mm	1.68"/43mm
D	1.95"/50mm	1.99"/51mm	2.46"/63mm	2.22"/56mm	2.77"/71mm	3.38"/86mm
E	1/8npt	1/8 or 1/4npt	1/4mnpt	1/4mnpt		
F	2.46"/63mm	2.81"/72mm	3.48"/88mm	5.19"/132mm	5.20"/132mm	7.78"/198mm
G	1.63"/42mm	2.00"/51mm	2.50"/64mm	3.49"/88mm	3.87"/98mm	6.02"/153mm
* 3 ½"Dial Size = Lower Back Mount Connection						

PRECISION INSTRUMENT COMPANY

BIMETAL THERMOMETER

TYPE 'BxSx' STRAIGHT FORM



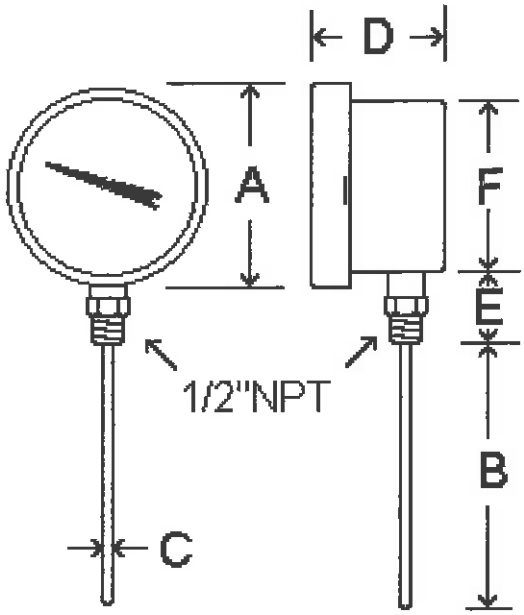
STANDARD FEATURES

- All Stainless Construction
- With Glass Lens
- Anti-Parallax Dial
- Vibration Resistant (No Needle Flutter)
- Fast Response To Temperature Change
- Crimped Or Removeable Bezel Available
- +/- 1 % Full Scale Accuracy

STEM LENGTH*	PART NUMBER	
	3" DIAL	*5" DIAL*
2 ½"	B3S2	B5S2
4"	B3S4	B5S4
6"	B3S6	B5S6
9"	B3S9	B5S9
12"	B3S12	B5S12
15"	B3S15	B5S15
18"	B3S18	B5S18
24"	B3S24	B5S24

STANDARD RANGES*	
CODE	RANGE
AA	-40/120 F & C
BB	-40/160 F & C
EE	0/150 F & C
GG	0/200 F & C
JJ	20/240 F & C
II	0/250 F & C
MM	50/300 F & C
PP	50/400 F & C
RR	50/550 F & C
SS	150/750 F & C
TT	200/1000 F & C

***NOTE: OTHER RANGES, STEM LENGTHS AND CONFIGURATIONS ARE AVAILABLE UPON REQUEST. PLEASE CALL WITH ANY INQUIRIES.**

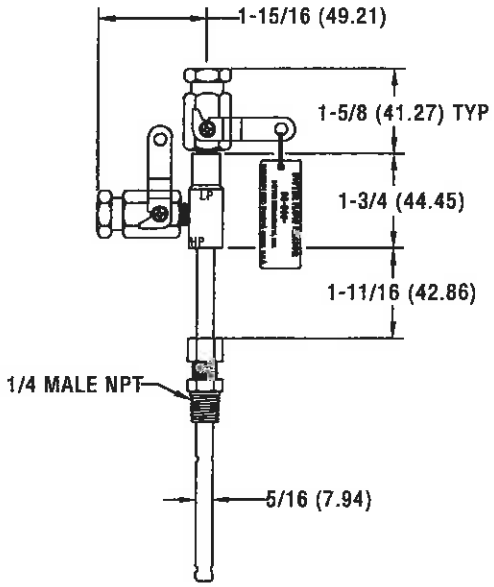


	INCHES	MM
A	3.32"	84.32
B	STEM	LENGTH
C	.25"	6.45
D	1.76"	44.91
E	1.36"	34.63
F	2.96"	75.3

Series DS-300 Flow Sensors

Installation and Operating Instructions Flow Calculations





Series DS-300 Flow Sensors are averaging pitot tubes that provide accurate, convenient flow rate sensing. When purchased with a Dwyer Capsuhelic® for liquid flow or Magnehelic® for air flow, differential pressure gage of appropriate range, the result is a flow-indicating system delivered off the shelf at an economical price. Series DS-300 Flow Sensors are designed to be inserted in the pipeline through a compression fitting and are furnished with instrument shut-off valves on both pressure connections. Valves are fitted with 1/8" female NPT connections. Accessories include adapters with 1/4" SAE 45° flared ends compatible with hoses supplied with the Model A-471 Portable Capsuhelic® kit. Standard valves are rated at 200°F (93.3°C). Where valves are not required, they can be omitted at reduced cost. Series DS-300 Flow Sensors are available for pipe sizes from 1" to 10".

INSPECTION

Inspect sensor upon receipt of shipment to be certain it is as ordered and not damaged. If damaged, contact carrier.

INSTALLATION

General - The sensing ports of the flow sensor must be correctly positioned for measurement accuracy. The instrument connections on the sensor indicate correct positioning. The side connection is for total or high pressure and should be pointed upstream. The top connection is for static or low pressure.

Location - The sensor should be installed in the flowing line with as much straight run of pipe upstream as possible. A rule of thumb is to allow 10 - 15 pipe diameters upstream and 5 downstream. The table below lists recommended up and down piping.

PRESSURE AND TEMPERATURE

Maximum: 200 psig (13.78 bar) at 200°F (93.3°C).

Upstream and Downstream Dimensions in Terms of Internal Diameter of Pipe*

Upstream Condition	Minimum Diameter of Straight Pipe		
	Upstream		Downstream
	In-Plane	Out of Plane	
One Elbow or Tee	7	9	5
Two 90° Bends in Same Plane	8	12	5
Two 90° Bends in Different Plane	18	24	5
Reducers or Expanders	8	8	5
All Valves**	24	24	5

* Values shown are recommended spacing, in terms of internal diameter for normal industrial metering requirements. For laboratory or high accuracy work, add 25% to values.

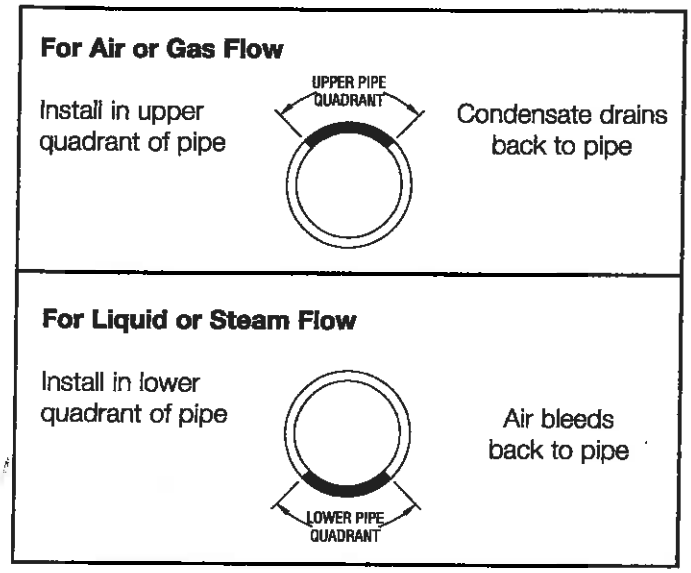
** Includes gate, globe, plug and other throttling valves that are only partially opened. If valve is to be fully open, use values for pipe size change. **CONTROL VALVES SHOULD BE LOCATED AFTER THE FLOW SENSOR.**

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361, U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

POSITION

Be certain there is sufficient clearance between the mounting position and other pipes, walls, structures, etc, so that the sensor can be inserted through the mounting unit once the mounting unit has been installed onto the pipe.

Flow sensors should be positioned to keep air out of the instrument connecting lines on liquid flows and condensate out of the lines on gas flows. The easiest way to assure this is to install the sensor into the pipe so that air will bleed into, or condensate will drain back to, the pipe.



INSTALLATION

1. When using an A-160 thred-o-let, weld it to the pipe wall. If replacing a DS-200 unit, an A-161 bushing (1/4" x 3/8") will be needed.

2. Drill through center of the thred-o-let into the pipe with a drill that is slightly larger than the flow sensor diameter.

3. Install the packing gland using proper pipe sealant. If the packing gland is disassembled, note that the tapered end of the ferrule goes into the fitting body.

4. Insert sensor until it bottoms against opposite wall of the pipe, then withdraw 1/16" to allow for thermal expansion.

5. Tighten packing gland nut finger tight. Then tighten nut with a wrench an additional 1-1/4 turns. Be sure to hold the sensor body with a second wrench to prevent the sensor from turning.

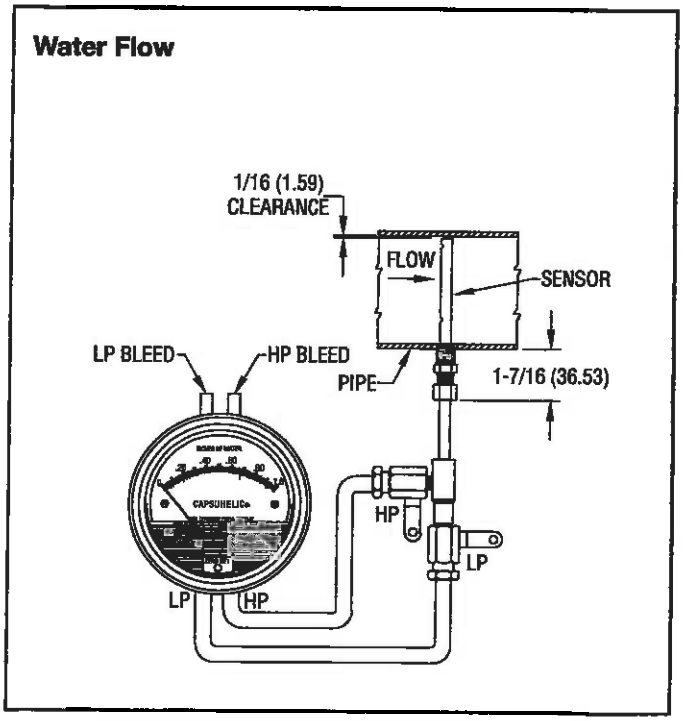
INSTRUMENT CONNECTION

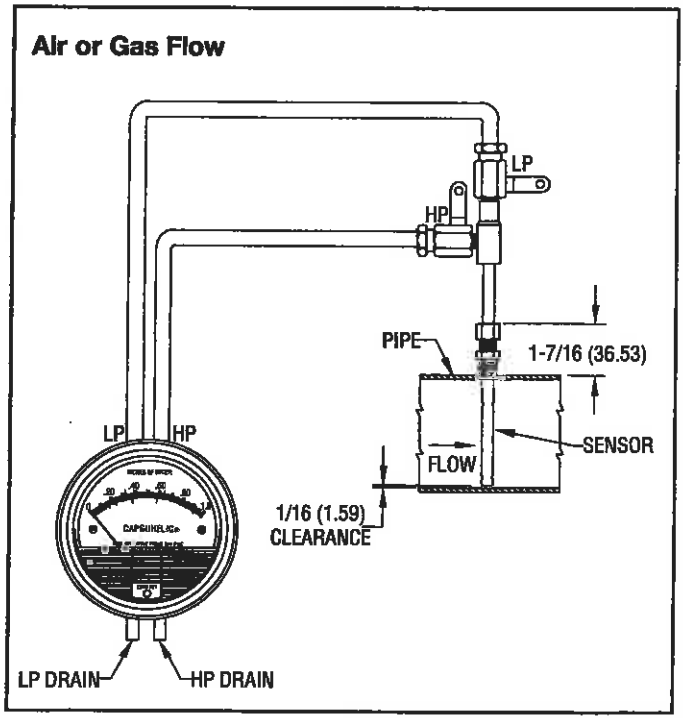
Connect the slide pressure tap to the high pressure port of the Magnehelic® (air only) or Capsuhelic® gage or transmitting instrument and the top connection to the low pressure port.

See the connection schematics below.

Bleed air from instrument piping on liquid flows. Drain any condensate from the instrument piping on air and gas flows.

Open valves to instrument to place flow meter into service. For permanent installations, a 3-valve manifold is recommended to allow the gage to be zero checked without interrupting the flow. The Dwyer A-471 Portable Test Kit includes such a device.





FLOW EQUATIONS

1. Any Liquid

$$Q\ (GPM) = 5.668 \times K \times D^2 \times \sqrt{\Delta P / S_f}$$

2. Steam or Any Gas

$$Q\ (lb/Hr) = 359.1 \times K \times D^2 \times \sqrt{p \times \Delta P}$$

3. Any Gas

$$Q\ (SCFM) = 128.8 \times K \times D^2 \times \sqrt{\frac{R \times \Delta P}{(T + 460) \times S_s}}$$

DIFFERENTIAL PRESSURE EQUATIONS

1. Any Liquid

$$\Delta P\ (in.\ WC) = \frac{Q^2 \times S_f}{K^2 \times D^4 \times 32.14}$$

2. Steam or Any Gas

$$\Delta P\ (in.\ WC) = \frac{Q^2}{K^2 \times D^4 \times p \times 128{,}900}$$

3. Any Gas

$$\Delta P\ (in.\ WC) = \frac{Q^2 \times S_s \times (T + 460)}{K^2 \times D^4 \times P \times 16{,}590}$$

Technical Notations

The following notations apply:

ΔP = Differential pressure expressed in inches of water column
Q = Flow expressed in GPM, SCFM, or PPH as shown in equation
K = Flow coefficient— See values tabulated on Pg. 3.
D = Inside diameter of line size expressed in inches.

For square or rectangular ducts, use: $D = \sqrt{\frac{4 \times \text{Height} \times \text{Width}}{\pi}}$

P = Static Line pressure (psia)
T = Temperature in degrees Fahrenheit (plus 460 = °Rankine)
p = Density of medium in pounds per square foot
S_f = Sp Gr at flowing conditions
S_s = Sp Gr at 60°F (15.6°C)

SCFM TO ACFM EQUATION

$$SCFM = ACFM \times \left(\frac{14.7 + PSIG}{14.7}\right) \left(\frac{520^*}{460 + °F}\right)$$

$$ACFM = SCFM \times \left(\frac{14.7}{14.7 + PSIG}\right) \left(\frac{460 + °F}{520}\right)$$

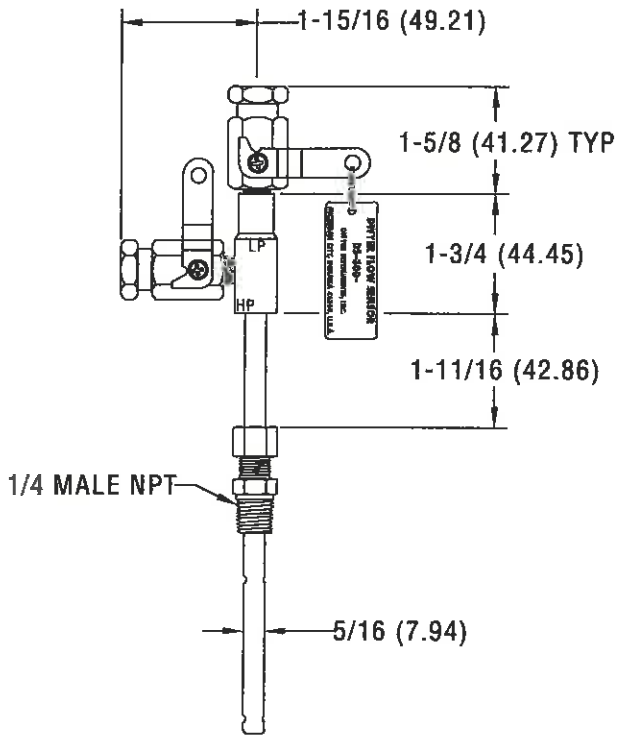
$$\text{POUNDS PER CUBIC FOOT STD.} = \text{POUNDS PER CUBIC FOOT ACT.} \times \left(\frac{14.7}{14.7 + PSIG}\right) \left(\frac{460 + °F}{520^*}\right)$$

$$\text{POUNDS PER CUBIC FOOT ACT.} = \text{POUNDS PER CUBIC FOOT STD.} \times \left(\frac{14.7 + PSIG}{14.7}\right) \left(\frac{520^*}{460 + °F}\right)$$

1 Cubic foot of air = 0.076 pounds per cubic foot at 60° F (15.6°C) and 14.7 psia.
* (520°= 460 + 60°) Std. Temp. Rankine

©Copyright 2004 Dwyer Instruments, Inc.
Printed in U.S.A. 7/04 FR# 72-440451-01 Rev. 2

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361, U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com



Flow Calculations and Charts

The following information contains tables and equations for determining the differential pressure developed by the DS-300 Flow Sensor for various flow rates of water, steam, air or other gases in different pipe sizes.

This information can be used to prepare conversion charts to translate the differential pressure readings being sensed into the equivalent flow rate. When direct readout of flow is required, use this information to calculate the full flow differential pressure in order to specify the exact range of Dwyer Magnehelic® or Capsuhelic® gage required. Special ranges and calculations are available for these gages at minimal extra cost. See bulletins A-30 and F-41 for additional information on Magnehelic® and Capsuhelic® gages and DS-300 flow sensors.

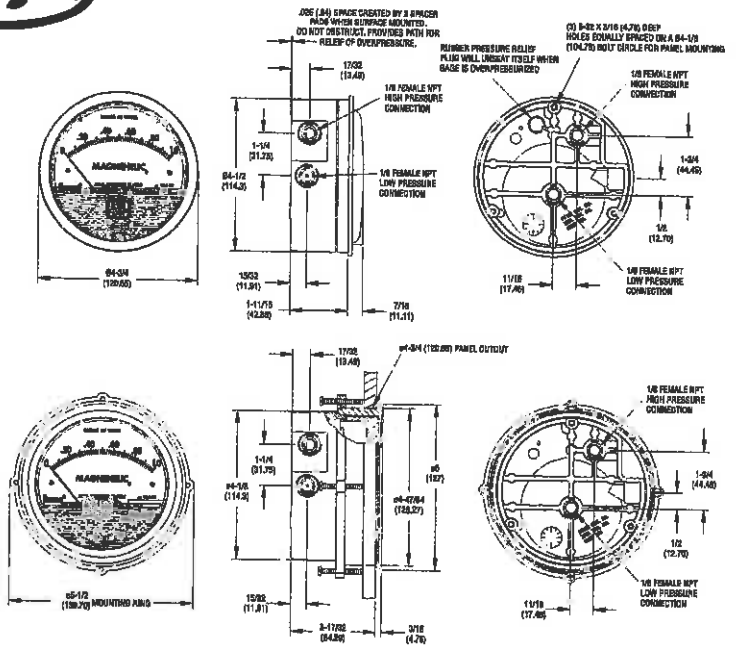
For additional useful information on making flow calculations, the following service is recommended: Crane Valve Co. Technical Paper No. 410 "Flow of Fluids Through Valves, Fittings and Pipe." It is available from Crane Valve Company, www.cranevalve.com.

Using the appropriate differential pressure equation from Page 4 of this bulletin,calculate the differential pressure generated by the sensor under normal operating conditions of the system. Check the chart below to determine if this value is within the recommended operating range for the sensor. Note that the data in this chart is limited to standard conditions of air at 60°F (15.6°C) and 14.7 psia static line pressure or water at 70°F (21.1°C). To determine recommended operating ranges of other gases, liquids an/or operating conditions, consult factory.

Note: the column on the right side of the chart which defines velocity ranges to avoid. Continuous operation within these ranges can result in damage to the flow sensor caused by excess vibration.

Pipe Size (Schedule 40)	Flow Coefficient "K"	Operating Ranges Air @ 60°F & 14.7 psia (D/P in. W.C.)	Operating Ranges Water @ 70°F (D/P in. W.C.)	Velocity Ranges Not Recommended (Feet per Second)
1	0.52	1.10 to 186	4.00 to 675	146 to 220
1-1/4	0.58	1.15 to 157	4.18 to 568	113 to 170
1-1/2	0.58	0.38 to 115	1.36 to 417	96 to 144
2	0.64	0.75 to 75	2.72 to 271	71 to 108
2-1/2	0.62	1.72 to 53	6.22 to 193	56 to 85
3	0.67	0.39 to 35	1.43 to 127	42 to 64
4	0.67	0.28 to 34	1.02 to 123	28 to 43
6	0.71	0.64 to 11	2.31 to 40	15 to 23
8	0.67	0.10 to 10	0.37 to 37	9.5 to 15
10	0.70	0.17 to 22	0.60 to 79	6.4 to 10

Magnehelic® Differential Pressure Gage



**The blowout plug is not used on models above 180 inches of water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.*

STANDARD GAGE ACCESSORIES: Two 1/8" NPT plugs for duplicate pressure taps, two 1/8" pipe thread to rubber tubing adapters and three flush mounting adapters with screws.

MP AND HP GAGE ACCESSORIES: Mounting ring and snap ring retainer substituted for 3 adaptors, 1/4" compression fittings replace 1/8" pipe thread to rubber tubing adaptors.

OVERPRESSURE PROTECTION: Standard Magnehelic® Differential Pressure Gages are rated for a maximum pressure of 15 psig and should not be used where that limit could be exceeded. Models employ a rubber plug on the rear which functions as a relief valve by unseating and venting the gage interior when over pressure reaches approximately 25 psig (excludes MP and HP models). To provide a free path for pressure relief, there are four spacer pads which maintain .023" clearance when gage is surface mounted. Do not obstruct the gap created by these pads.

SPECIFICATIONS

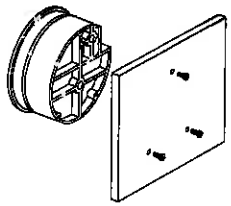
Service: Air and non-combustible, compatible gases. (Natural Gas option available.)
Wetted Materials: Consult factory.
Housing: Die cast aluminum case and bezel, with acrylic cover. (MP model has polycarbonate cover).
Accuracy: ±2% of full scale (±3% on - 0, -100 Pa, -125 Pa, 10MM and ±4% on -00, - 00N, -60 Pa, -6MM ranges), throughout range at 70°F (21.1°C).
Pressure Limits: -20" Hg to 15 psig.† (-0.677 bar to 1.034 bar); MP option: 35 psig (2.41 bar), HP option: 80 psig (5.52 bar).
Overpressure: Relief plug opens at approximately 25 psig (1.72 bar), standard gages only. The blowout plug is not used on models above 180 inches of water pressure, medium or high pressure models, or on gages which require an elastomer other than silicone for the diaphragm.
Temperature Limits: 20 to 140°F (-6.67 to 60°C). *Low temperature models available as special option.
Size: 4" (101.6 mm) diameter dial face.
Mounting Orientation: Diaphragm in vertical position. Consult factory for other position orientations.
Process Connections: 1/8" female NPT duplicate high and low pressure taps - one pair side and one pair back.
Weight: 1 lb 2 oz (510 g), MP & HP 2 lb 2 oz (963 g).

†For applications with high cycle rate within gage total pressure rating, next higher rating is recommended. See Medium and High pressure options.
Note: May be used with hydrogen when ordering Buna-N diaphragm. Pressure must be less than 35 psi.

INSTALLATION

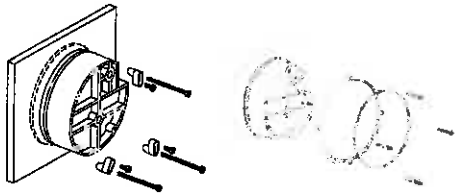
Select a location free from excessive vibration and where the ambient temperature will not exceed 140°F (60°C). Also, avoid direct sunlight which accelerates discoloration of the clear plastic cover. Sensing lines may be run any necessary distance. Long tubing lengths will not affect accuracy but will increase response time slightly. Do not restrict lines. If pulsating pressures or vibration cause excessive pointer oscillation, consult the factory for ways to provide additional damping.
All standard Magnehelic® Differential Pressure Gages are calibrated with the diaphragm vertical and should be used in that position for maximum accuracy. If gages are to be used in other than vertical position, this should be specified on the order. Many higher range gages will perform within tolerance in other positions with only rezeroing. Low range models of 0.5" w.c. plus 0.25" w.c. and metric equivalents must be used in the vertical position only.

SURFACE MOUNTING



Locate mounting holes, 120° apart on a 4-1/8" dia. circle. Use No. 6-32 machine screws of appropriate length.

FLUSH MOUNTING



Provide a 4-9/16" dia. (116 mm) opening in panel. Provide a 4-3/4" dia. (120 mm) opening for MP and HP models. Insert gage and secure in place with No. 6-32 machine screws of appropriate length, with adapters, firmly secured in place.

PIPE MOUNTING

To mount gage on 1-1/4" - 2" pipe, order optional A-610 pipe mounting kit.

TO ZERO GAGE AFTER INSTALLATION

Set the indicating pointer exactly on the zero mark, using the external zero adjust screw on the cover at the bottom. Note that the zero check or adjustment can only be made with the high and low pressure taps both open to atmosphere.

OPERATION

Positive Pressure: Connect tubing from source of pressure to either of the two high pressure ports. Plug the port not used. Vent one or both low pressure ports to atmosphere.
Negative Pressure: Connect tubing from source of vacuum or negative pressure to either of the two low pressure ports. Plug the port not used. Vent one or both high pressure ports to atmosphere.
Differential Pressure: Connect tubing from the greater of two pressure sources to either high pressure port and the lower to either low pressure port. Plug both unused ports.
When one side of the gage is vented in dirty, dusty atmosphere, we suggest an A-331 Filter Vent Plug be installed in the open port to keep inside of gage clean.

A. For portable use of temporary installation use 1/8" pipe thread to rubber tubing adapter and connect to source of pressure with flexible rubber or vinyl tubing.
B. For permanent installation, 1/4" O.D., or larger, copper or aluminum tubing is recommended.

MAINTENANCE

No lubrication or periodic servicing is required. Keep case exterior and cover clean. Occasionally disconnect pressure lines to vent both sides of gage to atmosphere and re-zero. Optional vent valves should be used in permanent installations. The Series 2000 is not field serviceable and should be returned if repair is needed (field repair should not be attempted and may void warranty). Be sure to include a brief description of the problem plus any relevant application notes. Contact customer service to receive a return goods authorization number before shipping.

WARNING

Attempted field repair may void your warranty. Recalibration or repair by the user is not recommended.

TROUBLE SHOOTING TIPS

Gage won't indicate or is sluggish.

1. Duplicate pressure port not plugged.
2. Diaphragm ruptured due to overpressure.
3. Fittings or sensing lines blocked, pinched, or leaking.
4. Cover loose or "O"ring damaged, missing.
5. Pressure sensor, (static tips, Pitot tube, etc.) improperly located.
6. Ambient temperature too low. For operation below 20°F (-7°C), order gage with low temperature, (LT) option.

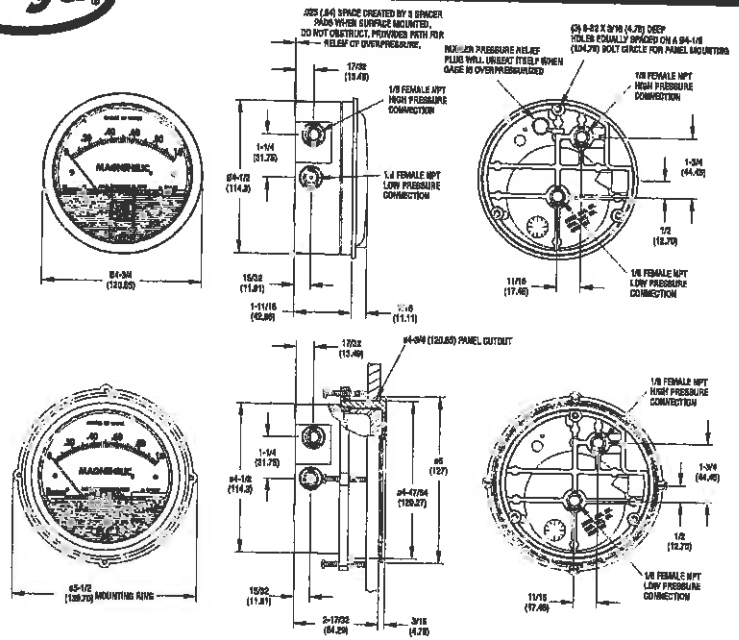
DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

Bulletin A-27

Magnehelic© Differential Pressure Gage

INSTRUCCIONES Y LISTA DE PARTES



(El tapón de goma no es usado en los modelos sobre 180 pulgadas de presión de agua, modelos de presión media o alta, o en instrumentos que requieren un elastizado en cualquier otro material que no sea silicona para el diafragma.)

Accesorios: Tapones 1/8" NPT para las conexiones duplicadas, dos adaptadores de rosca 1/8" NPT a tubo de goma; y tres adaptadores para montaje al ras y tornillos.

Accesorios para Los Modelos MP y HP: El anillo de montaje y el retensor del anillo de presión son substituidos por 3 adaptadores, accesorios de compresión de 1/4" remplazan a los adaptadores de rosca 1/8" a tubo de goma.

Protección Para Sobrepresión: Los Manómetros Diferenciales Magnehelic Estándar están clasificados para una presión máxima de 15 psi y no se deberían de usar donde el límite puede excederse. Los modelos emplean un tapón de goma en el trasero que funciona como una válvula de alivio desmontándose y ventilando el interior del instrumento cuando la sobrepresión alcanza aproximadamente 25 psig. (Los modelos MP y HP son excluidos) Para proveer un camino libre para el alivio de presión, el instrumento viene con rodilleras que mantienen un espacio de .023" cuando el instrumento es montado en superficie. No bloque el espacio creado por estas rodilleras.

ESPECIFICACIONES

Servicio: aire y gases no combustibles, gases compatibles. (opcion disponible para uso con gas natural).
Materiales Mojados: Consulte con la fábrica.
Carcasa: Caja y anillo de retención de aluminio fundido a presión con tapadera de acrílico. (El modelo MP tiene la tapadera de policarbonato.)
Exactitud: ±2% de fondo de escala a 21 °C
Mod. 2000-0 ±3%; Mod. 2000-00 ±4%
Límite de Presión: -20 Hg. a 15 psig. † (-0.677 bar a 1,034 bar); opción MP: 35 psig (2.41 bar), opción HP: 80 psig (5.52 bar).
Sobrepresión: El tapón de alivio se abre aproximadamente a los 25 psig, modelos estandard únicamente. El tapón de goma no es usado en los modelos sobre 180 pulgadas de presión de agua, modelos de presión media o alta, o en instrumentos que requieren un elastizado en cualquier otro material que no sea silicio para el diafragma.
Límite de Temperatura: -6.67 a 60°C. * Modelos de baja temperatura disponibles como opción especial.
Dimensiones: diám. 120,65 mm x 55,6 prof.
Orientación de Montaje: El diafragma debe ser usado solo en posición vertical. Consulte con la fábrica para otras orientaciones de posición.
Conexiones: 1/8" NPT para alta y baja presión, duplicadas (atrás, a los lados).
Peso: 510 g, MP y HP 963 g.

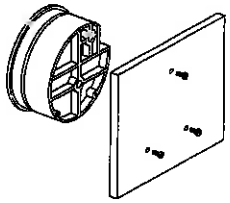
† Para aplicaciones con alto ciclo de velocidad dentro de la clasificación de presión total del instrumento, la próxima clasificación mas alta es recomendada. Vea las opciones de media y alta presión.

El instrumento puede ser usado con hidrogeno cuando se ordena con diafragma de Buna-N. La presion tiene que ser menos de 35 psi.

Instalacion

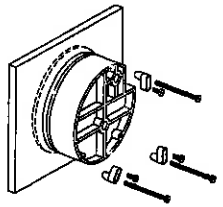
Seleccione un lugar libe de exceso de vibraciones, y donde la temperatura ambiente no supere los 60°C. Evite luz solar directa, para evitar decoloración de la cubierta plástica. Las conexiones de proceso pueden tener cualquier longitud sin afectar la exactitud, pero pueden extender el tiempo de respuesta del instrumento. Si hay pulsación de presión o vibración, consulte a fábrica sobre medios de amortiguación.
Los MAGNEHELIC han sido calibrados con el diafragma vertical, y deben ser usados en esas condiciones. Para otras posiciones, se debe especificar en la orden de provisión. Los de rango elevado pueden ser usados en diversas posiciones, pero se debe reajustar el cero. Los modelos de la serie 2000-00 y equivalentes métricos deben ser usados solo verticalmente.

Montaje en Superficie



Perfore tres orificios separados 120° sobre una circunferencia de 105 mm de diám. y sostenga el instrumento con tres tornillos 6-32 de long. apropiada.

Montaje alineado



Perfore un circulo de 115 mm de diám. en el panel, y sostenga el instrumento mediante los.

Montaje Sobre Pipa

Para montar el instrumento sobre pipas de 32 a 50 mm de diám., ordene el adaptador opcional A-610.

Puesta a Cero Después de Instalar

Deje las conexiones de presión abiertas a atmósfera y ajuste a cero desde tornillo del panel frontal.

Operacion

Presión Positiva: Conecte la tubería desde la fuente de presión a cualquiera de las dos conexiones de alta presión (HIGH), bloqueando la no usada; Las conexiones de baja (LOW) presión pueden dejarse uno o los dos abiertos a la atmósfera.
Presión Negativa: Repita el procedimiento anterior, conectado en este caso las conexiones de baja presión (LOW). Deje las otras conexiones abiertas.
Presión diferencial: Conecte el tubo correspondiente a la presión más positiva al cualquiera de los conectores de alta presión (HIGH) bloqueando el no usado, y la más baja presión o presión negativa (vacío) al conector de baja presión (LOW). Puede usarse cualquier conector de cada par, dejando siempre uno bloqueado. Si se deja una conexión abierta a la atmósfera, se recomienda el uso de un filtro tipo A-331 en el lugar correspondiente para mantener limpio el interior del instrumento. Para uso portable, o instalación temporaria, uso adapta dores para rosca de tubo de 1/89 a tubo flexible, y conecte a proceso mediante una tubería de goma, o equivalente. Para instalación permanente, se recomienda el uso de tubo de cobre o aluminio de por lo menos 1/4" de diám. exterior.

No se requiere mantenimiento específico alguno, ni lubricación. Periódicamente, desconecte el instrumento, ventee la presión acumulada, y reajuste el cero. Para instalaciones permanentes, se debe usar un juego de válvulas de montaje permanente para el venteo.
El Instrumento de Serie 2000 no puede ser re parado en el campo y debería de ser regresado si reparos son necesarios (Reparos en el campo no deben de ser intentados y pueden cancelar la garantía.). Asegurarse de incluir una descripción breve del problema más cualquier notas pertinentes a la aplicación para devolución de productos antes de enviar el instrumento.

Cuidado! : La recalibración en campo puede invalidar la garantía. No se recomienda la recalibracion por parte del usuario. En caso necesario envie el instrumento con transporte pago a:

Localización De Fallas

• El instrumento no indica, o es lento en reacción.
1. Conexión duplicada abierta.
2. Diafragma roto por sobrepresión.
3. Tubería de conexión perforada, con pérdidas o pinchazos.
4. Anillo de retención flojo, u "O " ring dañado.
5. Conexión a proceso indebida o inadecuada.
6. Temperatura muy baja. Para este caso ordene tipos LT (baja temperatura).

©Copyright 2008 Dwyer Instruments, Inc.
Printed in U.S.A. 2/08 FR# 12-440212-10 Rev.1

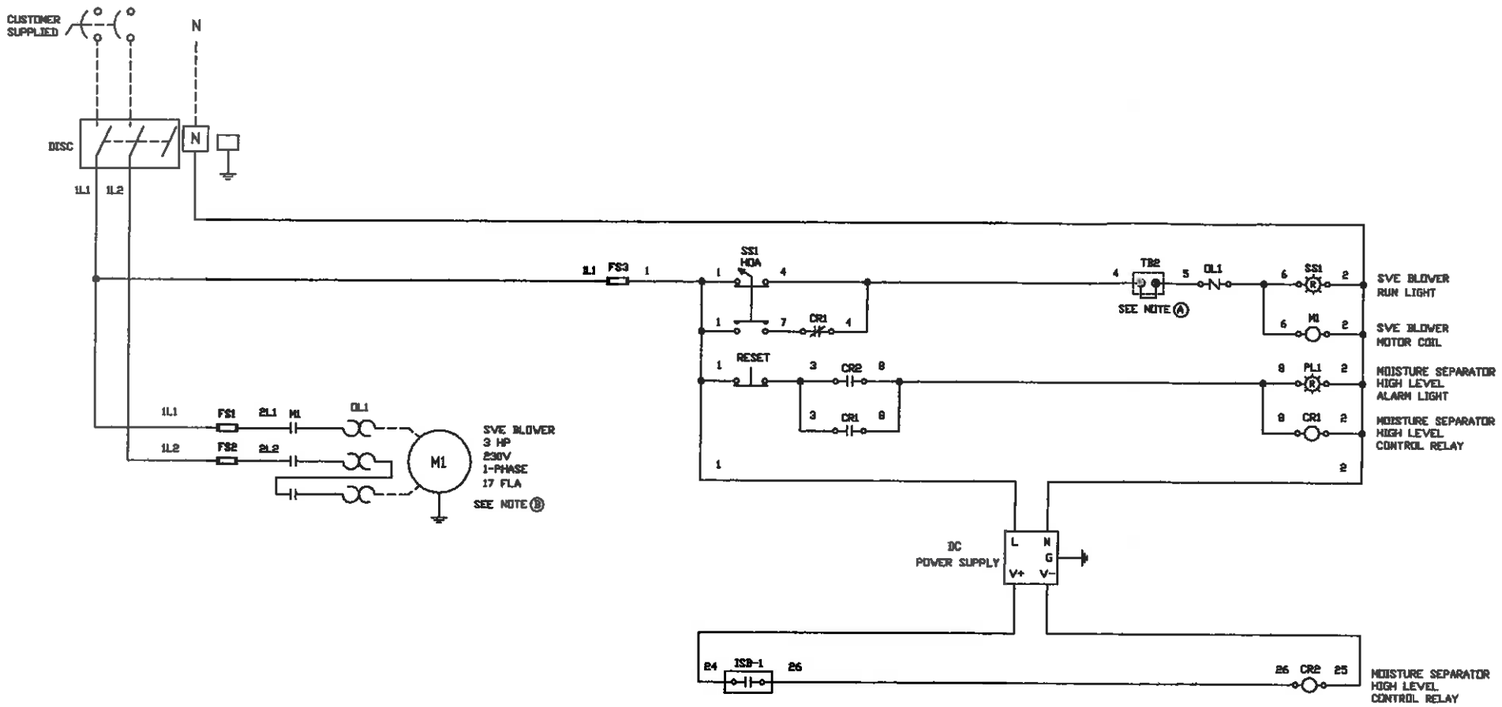
DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

DWYER INSTRUMENTS, INC.
P.O. BOX 373 • MICHIGAN CITY, INDIANA 46361 U.S.A.
Phone: 219/879-8000 www.dwyer-inst.com
Fax: 219/872-9057 e-mail: info@dwyer-inst.com

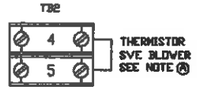
SECTION 4:

CONTROL PANEL

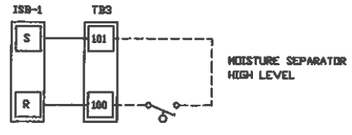
PANEL REQUIRES 110/220V
1-PHASE, 3-WIRE FEED
UTILIZE A 40A, 2-POLE CIRCUIT
BREAKER TO FEED THIS PANEL



TERMINAL CONNECTIONS



EQUIPMENT CONNECTION
INTRINSICALLY SAFE
TERMINAL BLOCKS



NOTE A: REMOVE JUMPER IF OPTIONAL THERMISTER IS TO BE CONNECTED

NOTE B: BASED ON THE 1996 NEC
ACTUAL RATINGS MAY VARY
SET OVERLOAD RELAYS ACCORDINGLY

CONFIDENTIALITY NOTE:
The information contained in this drawing is intended for use only by the Air Energy, Inc. and Customer. The information herin is confidential and any copying, distribution or dissemination without the consent of the Air Energy is STRICTLY PROHIBITED.

REV.	DESCRIPTION	DATE	APPR.
	REVISIONS		

Air Energy, Inc.

DRWN BY	SDH
DATE	11/15/10
CHK BY	
DATE	
APPR BY	
DATE	

TITLE: CONTROL PANEL

Air Energy, Inc.
So. Easton, MA

JOB NO. 21577

SCALE	SIZE	DWG NO.	SHEET	REV
N/A	B	21577RBS	1 OF 1	as built

American Industrial Heat Transfer Inc.®

Manufacturer of Quality Heat Exchangers



ACA SERIES



AIR COOLED

AFTERCOOLERS

For Compressed Gas or Vapor

- Computer Selection.
- Low pressure drop available.
- Standard ports NPT, optional ANSI flange.
- Operating temperature of 400° F & pressure of 150PSI.
- Custom designs to fit your needs.
- Cools: Air, Compressors, Blowers, Steam vapors, Pneumatic systems, Vapor recovery systems etc...

note: AIHTI reserves the right to make reasonable design changes without notice.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

ACA - 3181 through ACA - 4362



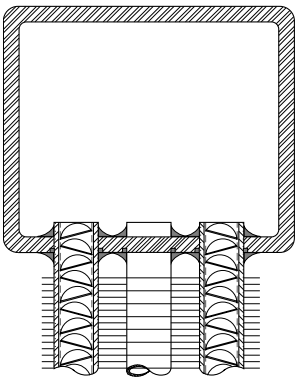
Brazed Core Construction

Air coolers are an essential part of any compressed air system, by cooling the air, and condensing water vapor into a liquid state for removal. When air is compressed, the compression induces heat into both the air and the water entrained in the air.
The American Industrial ACA series heat exchanger cools air with air, making it a simple inexpensive way to cool when compared to other water-cooled or refrigerant cooled systems. The unique compact brazed fin/tube design provides efficient cooling and low maintenance under the warmest environmental conditions. By using an ACA series air-cooled after cooler, machine tools will recieve cooler dryer air, provide longer trouble free life, experience less down time, and be cost effective to operate on a continuous basis.

SUPERIOR COOLING FINS

Copper tubes are mechanically bonded to highly efficient aluminum cooling fins. Die-formed fin collars provide a durable precision fit for maximum heat transfer. Custom fin design forces air to become turbulent and carry heat away more efficiently than old flat fin designs.





TANKS

State-of-the-art high temperature brazing method insures permanent bond and positive contact of tube to manifold, eliminating leaks and providing maximum service life.

CONSTRUCTION MATERIALS & RATINGS

Standard Construction Materials		Standard Unit Ratings	
Tubes	Copper	Operating Pressure	150 psig
Fins	Aluminum	Operating Temperature	400 °F
Cabinet & Pipes	Steel	Consult factory for optional materials and ratings.	
Fan Guard	Zinc Plated Steel		
Manifolds	Steel		

note: AIHTI reserves the right to make reasonable design changes without notice.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

ACA - 6301 through ACA 6602

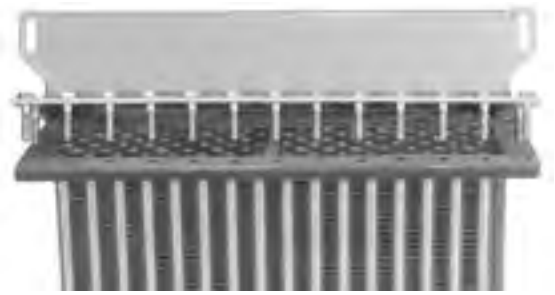


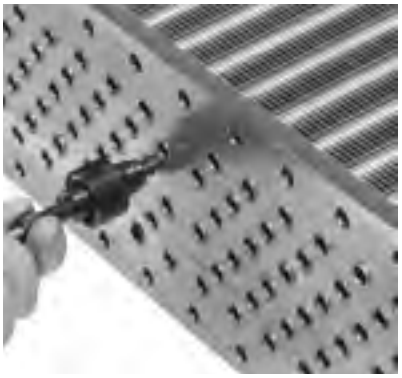
Serviceable Core® Construction

Air coolers are an essential part of any compressed air system, by cooling the air, and condensing water vapor into a liquid state for removal. When air is compressed, the compression induces heat into both the air and the water entrained in the air.
The American Industrial ACA series heat exchanger cools air with air, making it a simple inexpensive way to cool when compared to other water-cooled or refrigerant cooled systems. The unique compact *serviceable core*® design provides efficient cooling and low maintenance under the warmest environmental conditions. By using an ACA series air-cooled after cooler, machine tools will recieve cooler dryer air, provide longer trouble free life, experience less down time, and be cost effective to operate on a continuous basis.

SERVICEABLE CORE®

Core covers disassemble for easy access and cleaning. Repairable design for applications that require limited down time or in the event of a mishap requiring repair. Roller expanded tube to tube-sheet joint. 100% mechanical bond. Positive gasket seal is field replaceable for field maintenance or repair.





SUPERIOR COOLING FINS

Copper tubes are mechanically bonded to highly efficient aluminum cooling fins. Die-formed fin collars provide a durable precision fit for maximum heat transfer. Custom fin design forces air to become turbulent and carry heat away more efficiently than old flat fin designs.

CONSTRUCTION MATERIALS & RATINGS

Standard Construction Materials		Standard Unit Ratings	
Tubes	Copper	Operating Pressure	150 psig
Fins	Aluminum	Operating Temperature	400 °F
Cabinet & Pipes	Steel	Consult factory for optional materials and ratings.	
Fan Guard	Zinc Plated Steel		
Manifolds	Steel		

note: AIHTI reserves the right to make reasonable design changes without notice.

Copyright © 2004 American Industrial Heat Transfer, Inc.

Compressed Air

Normally air compressors have airflow rates based upon the horsepower. Rotary Screw compressors normally discharge air at 180 °f - 200 °f, prior to after-cooling. Reciprocating compressors normally discharge air at 250 °f - 275 °f, prior to after-cooling. Compressors are rated in CFM or cubic feet per minute of free air at inlet conditions. For practical purpose we will use sea level at 68 °f and 36% relative humidity as a norm. Altitude, differing ambient conditions with respect to temperature and humidity will all affect heat exchanger performance to a degree. Moisture content in air actually increases the Btu/hr load requirement for cooling air by adding an additional condensing load to the gas load requirement. As air rapidly cools, moisture in the compressed air stream will condense and separate into droplets, the more humidity present the more condensation will occur.

Sizing

The performance curves provided are for air. However, gases other than air may be applied to this cooler with respect to compatibility by applying a correction factor. Please take time to check the operating specifications thoroughly for material compatibility, pressure, and size before applying an American Industrial heat exchanger into your system.

Terms

Approach Temperature is the desired outlet temperature of the compressed gas minus the inlet ambient air temperature of the external air flowing over the coil.
SCFM (Standard Cubic Feet per Minute)
A cubic foot of air at 68 °f, 14.696 psia, & 36% relative humidity, per minute.
CFM (Cubic Feet per Minute)
Air at inlet atmospheric conditions.
ACFM (Actual Cubic Feet per Minute)
Air at current pressure, temperature, & humidity conditions without reference to a standard.

To Determine the Heat Load

If the heat load (Btu/hr) is unknown a value can be calculated based upon system operational requirements. To properly calculate the heat load (Btu/hr) to be rejected, several items must be known with certainty (see below).

- Flow rate SCFM (standard cubic feet pr minute)
- Type of gas and its makeup.
- System inlet pressure to the heat exchanger.
- Ambient temperature where the heat exchanger will be located (hotest condition).
- Temperature of the gas at the heat exchanger inlet.
- Temperature of the gas desired at heat exchanger outlet.
- Maximum acceptable pressure loss or cooled gas.

Using The Chart

American Industrial has created a quick reference chart for selecting ACA heat exchangers for Rotary Screw compressors (see page 214) [This chart offers basic information based upon compressor horsepower and average airflow rates. To properly use the chart, select the compressor horsepower at the left or the air flow rate. Next select the approach to ambient that is desired. Where the two columns intersect is shown the proper ACA model number.]

Using The Graphs

American Industrial provides performance graphs for ease of model selection. The following calculation examples (page 213), illustrate formulas to determine model selection sizes. It should be noted that there are some assumptions made when applying the basic principles for calculation in the formula. Altitude, humidity, materials, pressures, etc... all contribute to the final selection. Contact American Industrial for more detailed calculation.

Selection

The selection process is important, many considerations should be made when selecting a heat exchanger. Once the proper Fs requirement is calculated, it is time to apply the data to the graph and make a selection.
1) Find the Flow rate in SCFM located at the bottom of the graph. Follow the graph line up until it matches the calculated Fs from your calculations. If the point falls just above one of the model graphed lines, select the next larger size. If the point is on a line select it as your choice.
2) Check carefully the pressure differential. Units with operating pressures from 70+ psig will have no greater than 2.0 psid within the published flow range. For lower inlet pressure see the pressure drop curves for more detail.
3) Calculate a Nozzle size using the nozzle size calculation to verify your selection has the proper port sizes for your required inlet pressure.

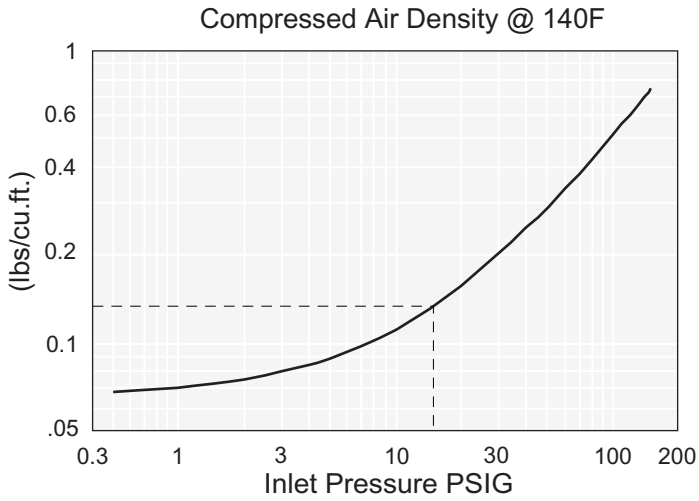
Formula: Nozzle Calculation

$$\text{Nozzle Size} = \sqrt{\frac{\left[\frac{(\text{SCFM} \times 4.512)}{(270{,}000 \times d)} \times 144\right]}{.7854}}$$

All numbers in equation are constants except for SCFM and (d) "density".

Example:
Flow rate = 200 SCFM
Pressure = 15 psig
Density = (d) from Compressed Air Density Graph

$$\sqrt{\frac{\left[\frac{(200 \times 4.512)}{(270{,}000 \times .14)} \times 144\right]}{.7854}} = 2.09\text{" or (2" Nozzle)}$$



Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

Examples: (Note: All air flow rates must be converted to SCFM)

Application 1 Air Rotary Screw Compressor

Determine the heat load "Q" =Btu/hr — $Q = [SCFM \times CF \times (T_1 - T_2)]$ or $[350 \times 1.13 \times 105^{o}] = 41{,}528$ Btu/hr

T_1 = Inlet gas temperature: 200°f

T_2 = Outlet gas temperature: Ambient + 10°f= (95°f) — Determine the Fs = $\frac{Btu/hr}{T_2 - T_a}$ or $\frac{41{,}528}{10}$ = **4,153 Fs** Refer to graph example on page 215

T_a = Ambient temperature: 85°f

Airflow rate: 350 SCFM

PSIG = Operating Pressure 100 psig

CF = Correction factor: 1.13 — $CF = (.0753 \times S \times C \times 60)$ or $(.0753 \times 1.0 \times .25 \times 60) = 1.13$

S = Specific gravity with air being 1.0

C = Specific heat (Btu/Lb °f): .25

Model Selection - ACA-4362

$$\sqrt{\frac{\left[\frac{(350 \times 4.512)}{(270{,}000 \times .50)} \times 144\right]}{.7854}} = 1.46\text{" or (1.5" minimum nozzle)}$$

Application 2 Methane Gas

Determine the heat load "Q" = Btu/hr — $Q = [SCFM \times CF \times (T_1 - T_2)]$ or $[500 \times 1.428 \times 210^{o}] = 149{,}940$ Btu/hr

T_1 = Inlet gas temperature: 300°f

T_2 = Outlet gas temperature: 90°f — Determine the Fs = $\frac{Btu/hr}{T_2 - T_a}$ or $\frac{149{,}940}{30}$ = **4,998 Fs** Refer to graph example on page 215

T_a = Ambient temperature: 60°f

Gas flow rate: 500 SCFM

PSIG = Operating pressure: 150 psig

CF = Correction factor: 1.428 — $CF = (.0753 \times S \times C \times 60)$ or $(.0753 \times .55 \times .575 \times 60) = 1.428$

S = Specific gravity with air being 1.0: .55

C = Specific heat (Btu/Lb °f)

Model Selection - ACA-6421

$$\sqrt{\frac{\left[\frac{(500 \times 4.512)}{(270{,}000 \times .74)} \times 144\right]}{.7854}} = 1.44\text{" or (1.5" minimum nozzle)}$$

Application 3 Low Pressure Blower

Determine the heat load "Q" = Btu/hr — $Q = [SCFM \times CF \times (T_1 - T_2)]$ or $[76 \times 1.13 \times 150^{o}] = 12{,}882$ Btu/hr

T_1 = Inlet gas temperature: 250°f

T_2 = Outlet gas temperature: 100°f — Determine the Fs = $\frac{Btu/hr}{T_2 - T_a}$ or $\frac{12{,}882}{10}$ = **1,288 Fs** Refer to graph example on page 215

T_a = Ambient temperature: 90°f

CF = Correction Factor: 1.13

PSIG = Operating pressure: 2 psig — To Convert

Airflow rate: 90 ACFM — $ACFM \text{ to } SCFM = \frac{ACFM \times (PSIG + 14.7) \times 528}{(T_1 + 460) \times 14.7} = \frac{90 \times 16.7 \times 528}{710 \times 14.7} = 76$ SCFM

S = Specific gravity with air being 1.0

C = Specific heat (Btu/lb °f): .25

△P = 5" water column or less (example pg. 220)

Model Selection - ACA-3302

$$\sqrt{\frac{\left[\frac{(76 \times 4.512)}{(270{,}000 \times .075)} \times 144\right]}{.7854}} = 1.76\text{" or (2.0" minimum nozzle)}$$

Pressure Drop (see page 220 for graphs)

Since gas is compressible the density of the gas changes from one temperature or pressure to the next. While the mass flow rate may not change, the pressure differential across the heat exchanger will change dramatically from high (70-125 psig) to low (1-5 psig) pressure. A low pressure condition requires larger carrying lines to move flow than does the same gas rate under a higher pressure. At lower pressures the differential pressure across the heat exchanger can be quite high compared to the same flow rate at a higher pressure. For that reason it is suggested that the pressure differential graphs on page 220 be consulted prior to making your final selection.

The ACA series heat exchanger is designed to be easily modified to accept larger port sizes in the event your system pressure requires larger nozzles. Consult our engineering department for more exacting information regarding pressure differential issues.

note: AIHTI reserves the right to make reasonable design changes without notice.
Copyright © 2004 American Industrial Heat Transfer, Inc.

ACA Series *selection*

ROTARY SCREW COMPRESSORS
(200°F @125 PSI & 36% relative humidity)

Compressor Horse Power (HP)	Average Air Discharge Cubic feet per minute (SCFM)	Model Size Selection			
		*Approach Temperature °F (T_2 - T_a)			
		5°F	10°F	15°F	20°F
15	60	ACA - 3302	ACA - 3242	ACA - 3242	ACA - 3182
20	80	ACA - 3302	ACA - 3242	ACA - 3242	ACA - 3182
30	130	ACA - 3362	ACA - 3302	ACA - 3242	ACA - 3242
40	165	ACA - 3362	ACA - 3302	ACA - 3302	ACA - 3242
60	250	ACA - 4362	ACA - 3362	ACA - 3302	ACA - 3302
75	350	ACA - 6362	ACA - 4362	ACA - 3362	ACA - 3302
100	470	ACA - 6362	ACA - 6362	ACA - 3362	ACA - 3362
125	590	ACA - 6422	ACA - 6362	ACA - 4362	ACA - 3362
150	710	ACA - 6422	ACA - 6362	ACA - 6362	ACA - 4362
200	945	ACA - 6482	ACA - 6422	ACA - 6362	ACA - 6362
250	1160	ACA - 6482	ACA - 6422	ACA - 6362	ACA - 6362
300	1450	ACA - 6542	ACA - 6482	ACA - 6422	ACA - 6362
350	1630	ACA - 6542	ACA - 6482	ACA - 6422	ACA - 6362
400	1830	ACA - 6602	ACA - 6482	ACA - 6422	ACA - 6422
500	2150	ACA - 6602	ACA - 6542	ACA - 6482	ACA - 6422

***Approach Temperature**
the desired outlet temperature of the compressed gas minus the inlet ambient air temperature of the external air flowing over the coil.

T_2 - Outlet gas temperature

T_a - Ambient temperature

Example of a model:

ACA - 3242 - 3 - __ -____ - ____

Model
ACA

Size

Number of Passes
1P = 1 pass
2P = 2 pass

Drive Type
N = no motor
1 = single phase
3 = three phase
1EXP = single phase
3EXP = three phase
5 = 575 Volt

Connections
Blank = NPT
A = ANSI 150#RF Flange

Tubing
Blank = Copper
U = 90/10 Cu Ni
C = Carbon Steel

Coating
Blank = Enamel (standard)
G = Galvanize (cabinet)
T = Heresite (core)
X = Epoxy (core & cabinet)

Using the performance graphs (page 215)

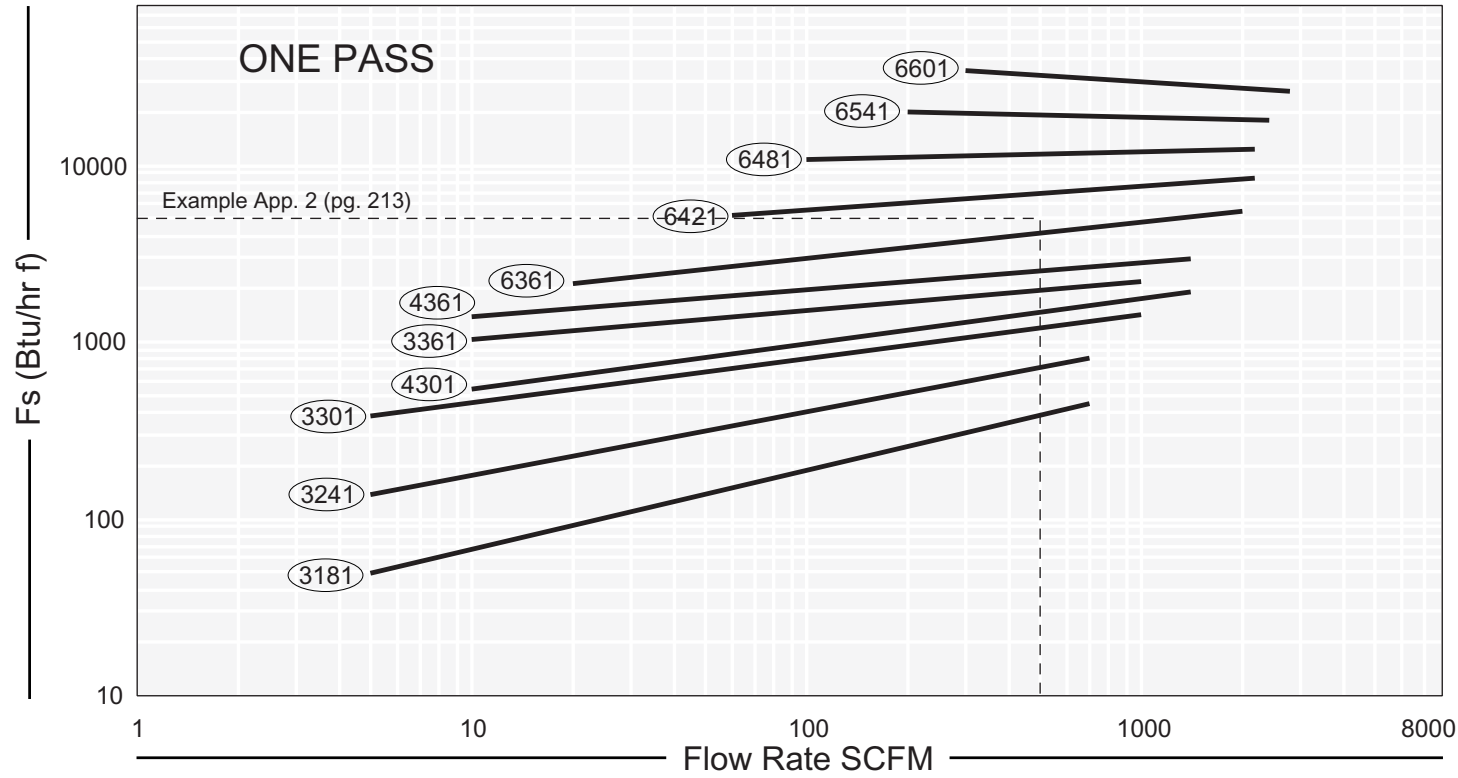
The Flow vs. Fs graph is calculated based upon SCFM units.

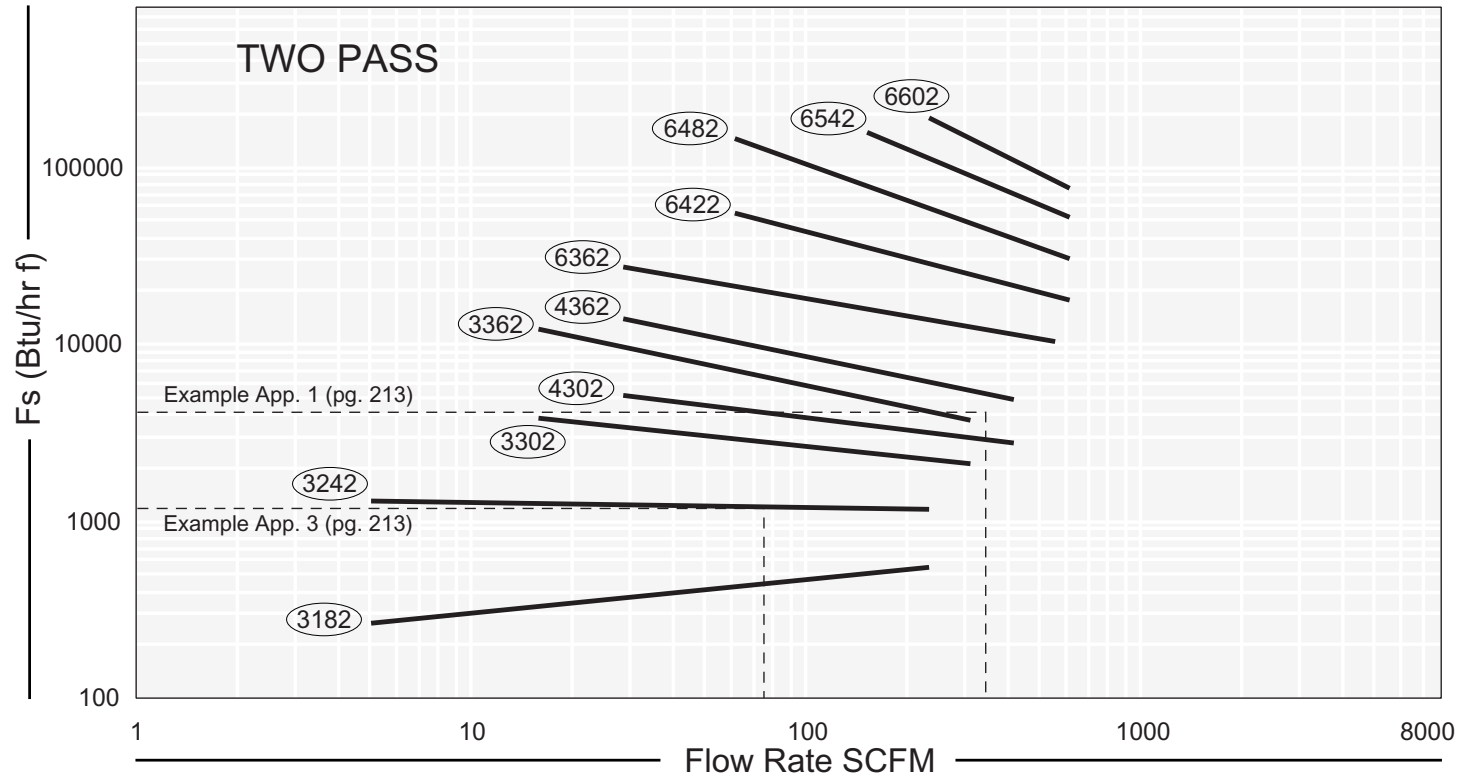
To convert volumetric Actual Cubic Feet per Minute (ACFM) into Standard Cubic Feet per Minute (SCFM) see page 213 application 3.

To select a model, locate the flow rate in SCFM located at the bottom of the graph. Proceed upward on the graph until the SCFM flow rate intersects with the calculated Fs. The curve closest, on or above the intersection point is the proper selection.

Using the one pass graph or two-pass graph depends upon pressure differential, flow, and performance requirements. The actual surface area for one or two pass units is the same. However, the airflow velocity in the tubes increases with the number of passes giving slightly higher pressure differentials and better cooling performance.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com





Example

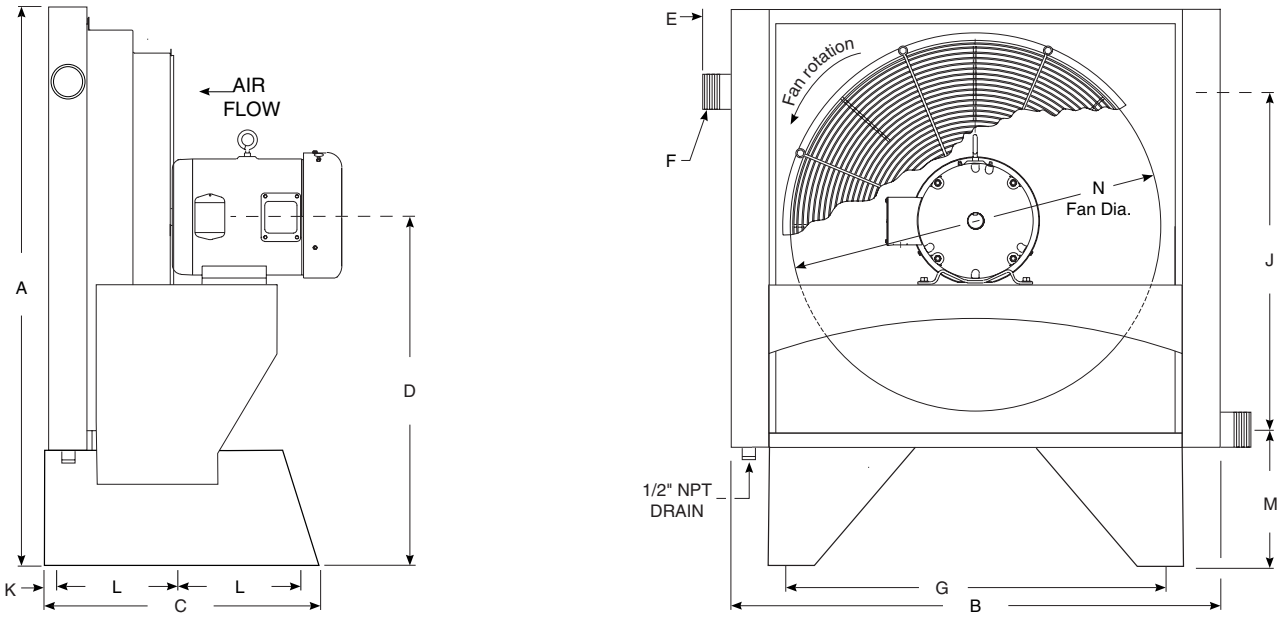
Application #3 (p.5)

$$\mathbf{Fs} = \frac{\text{Heat Load (Btu/hr)}}{\text{Process exiting temperature } (T_2) - \text{Ambient air entering the cooler } (T_a) \text{ from cooler}}$$

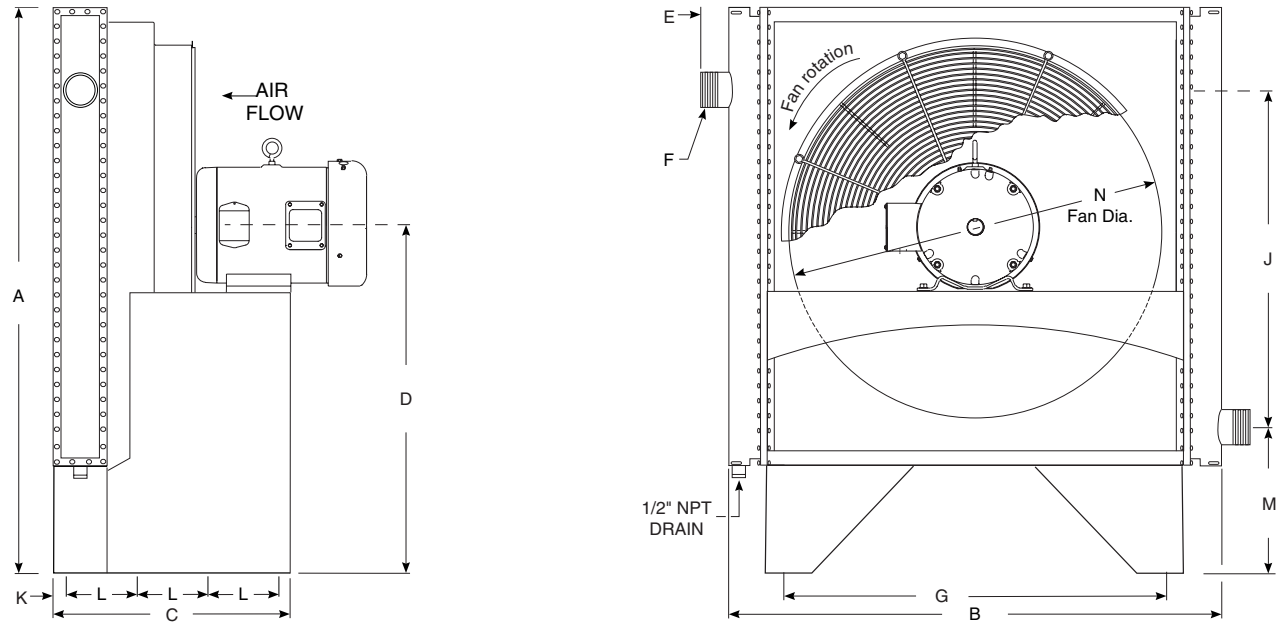
SCFM = 76
ĐPSI required = 5" H2O
Model selection = ACA-6421-3
Fs = 1,288 Nozzle check (p.4) = 3.10 or 3"NPT

note: AIHTI reserves the right to make reasonable design changes without notice.
Copyright © 2004 American Industrial Heat Transfer, Inc.

ACA Series *dimensions*



ACA - 3181 through ACA - 4361

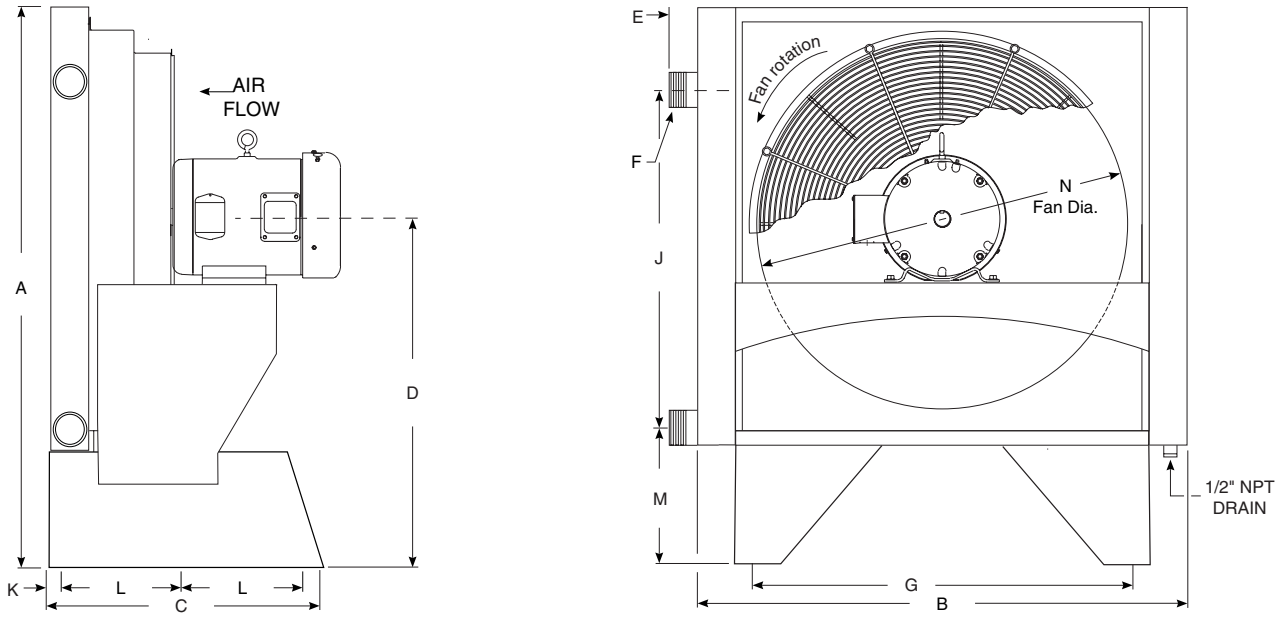


ACA - 6301 through ACA - 6601

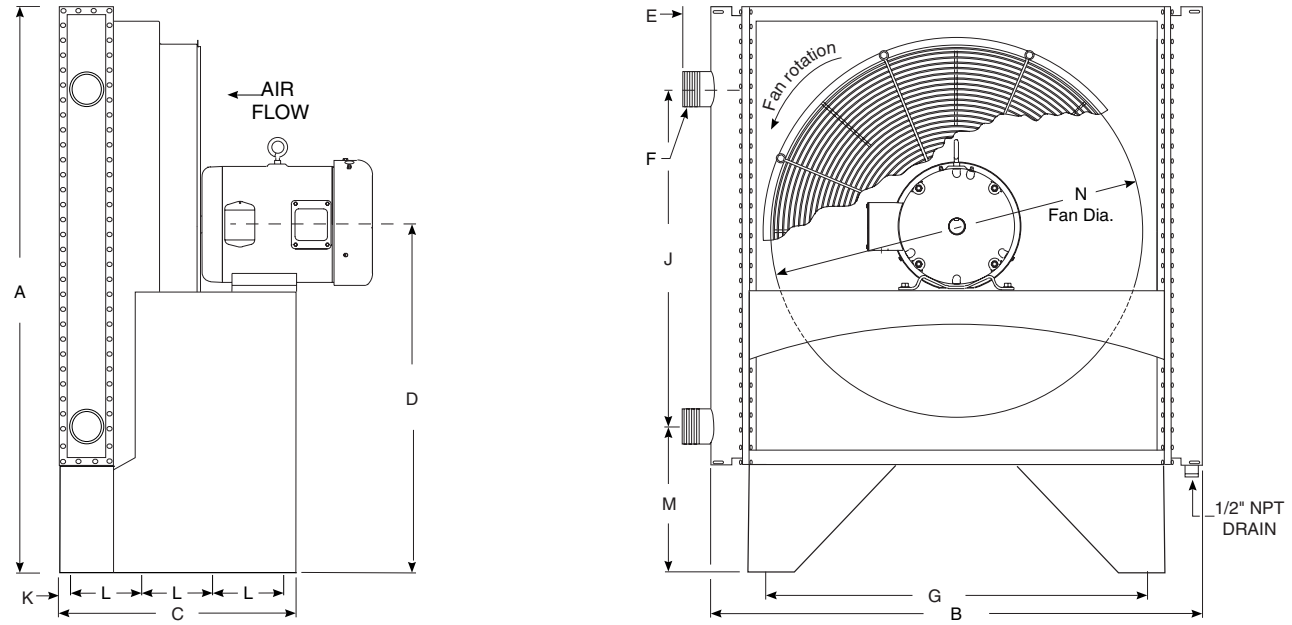
DIMENSIONS (inches)												
Model	A	B	C	D	E	F NPT	G	J	K	L	M	N
ACA - 3181	30.6	23.0	19.8	20.25	2.5	1.5	16.3	12.98	1.5	8.38	11.93	14.0
ACA - 3241	36.6	29.0	19.8	23.25	2.5	1.5	22.3	17.48	1.5	8.38	11.93	22.0
ACA - 3301	42.6	35.0	19.8	26.25	2.5	2.0	28.3	21.75	1.5	8.38	12.15	28.0
ACA - 4301	42.6	36.0	19.8	26.25	2.5	2.5	28.3	21.55	1.5	8.38	12.35	28.0
ACA - 6301	42.6	38.8	19.8	26.25	2.5	3.0	28.3	21.07	1.5	8.38	12.98	28.0
ACA - 3361	48.6	41.0	19.8	29.25	2.5	2.0	34.3	26.25	1.5	8.38	12.15	32.0
ACA - 4361	48.6	42.0	19.8	29.25	2.5	2.5	34.4	26.05	1.5	8.38	12.35	32.0
ACA - 6361	48.5	43.9	19.8	29.25	2.5	3.0	34.3	26.0	1.5	8.38	12.7	32.0
ACA - 6421	54.5	50.8	27.36	32.25	2.5	4.0	40.3	29.4	2.0	6.75	13.3	36.0
ACA - 6481	60.6	56.8	27.36	35.25	2.5	4.0	46.3	34.1	2.0	6.75	13.3	42.0
ACA - 6541	66.6	62.8	28.83	38.25	2.5	4.0	52.3	38.6	2.0	6.75	13.3	48.0
ACA - 6601	72.4	67.9	30.6	41.25	2.5	4.0	58.3	43.05	2.0	6.75	13.3	48.0

note: AIHTI reserves the right to make reasonable design changes without notice.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com



ACA - 3182 through ACA - 4362



ACA - 6302 through ACA - 6602

DIMENSIONS (inches)												
Model	A	B	C	D	E	F NPT	G	J	K	L	M	N
ACA - 3182	30.6	23.0	19.8	20.25	2.5	1.5	16.3	12.98	1.5	8.38	11.93	14.0
ACA - 3242	36.6	29.0	19.8	23.25	2.5	1.5	22.3	17.48	1.5	8.38	11.93	22.0
ACA - 3302	42.6	35.0	19.8	26.25	2.5	2.0	28.3	21.75	1.5	8.38	12.15	28.0
ACA - 4302	42.6	36.0	19.8	26.25	2.5	2.5	28.3	21.55	1.5	8.38	12.35	28.0
ACA - 6302	42.6	38.8	19.8	26.25	2.5	3.0	28.3	21.07	1.5	8.38	12.98	28.0
ACA - 3362	48.6	41.0	19.8	29.25	2.5	2.0	34.3	26.25	1.5	8.38	12.15	32.0
ACA - 4362	48.6	42.0	19.8	29.25	2.5	2.5	34.4	26.05	1.5	8.38	12.35	32.0
ACA - 6362	48.5	43.9	19.8	29.25	2.5	3.0	34.3	26.0	1.5	8.38	12.7	32.0
ACA - 6422	54.5	50.8	27.36	32.25	2.5	4.0	40.3	29.4	2.0	6.75	13.3	36.0
ACA - 6482	60.6	56.8	27.36	35.25	2.5	4.0	46.3	34.1	2.0	6.75	13.3	42.0
ACA - 6542	66.6	62.8	28.83	38.25	2.5	4.0	52.3	38.6	2.0	6.75	13.3	48.0
ACA - 6602	72.4	67.9	30.6	41.25	2.5	4.0	58.3	43.05	2.0	6.75	13.3	48.0

note: AIHTI reserves the right to make reasonable design changes without notice.

Copyright © 2004 American Industrial Heat Transfer, Inc.

ACA Series *motor data*

ELECTRIC MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2- 1	.25	1	60-50	115/230 - 90/190	1725-1440	48	TEFC	3.2/1.6/2.8-1.4	1.15	NO
ACA- 3181/2 -3	.25	3	60-50	208 - 230/460 - 190/380	1725-1440	48	TEFC	1.3/.65/1.1-.55	1.15	NO
ACA- 3241/2 -1	.25	1	60-50	115/230 - 90/190	1140-950	56	TEFC	6.8/3.1-3.4	1.15	NO
ACA- 3241/2 -3	.25	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	1.7/2.0/1.0	1.15	NO
ACA- 3301/2 -1	.5	1	60-50	115/230 - 90/190	1140-950	56	TEFC	9.6/4.7-4.8/10.4/5.2	1.15	NO
ACA- 3301/2 -3	.5	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	2.4-2.7/1.35-2.5/1.25	1.15	NO
ACA- 4301/2 -1	.5	1	60-50	115/230 - 90/190	1140-950	56	TEFC	9.6/4.7-4.8/10.4/5.2	1.15	NO
ACA- 4301/2 -3	.5	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	2.4-2.7/1.35-2.5/1.25	1.15	NO
ACA- 6301/2 -3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 3361/2 -3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 4361/2- 3	1.0	3	60-50	208 - 230/460 - 190/380	1140-950	56	TEFC	4/2-3.7/1.85	1.15	NO
ACA- 6361/2 -3	3.0	3	60-50	208 - 230/460 - 190/380	1725-1440	182T	TEFC	8.4-6.8/3.4	1.15	NO
ACA- 6421/2 -3	5.0	3	60-50	208 - 230/460 - 190/380	1140-950	213T	TEFC	8.2-7.6/3.8	1.15	NO
ACA- 6481/2 -3	5.0	3	60-50	208 - 230/460 - 190/380	1140-950	213T	TEFC	14.0/7.0	1.15	NO
ACA- 6541/2 -3	7.5	3	60-50	208 - 230/460 - 190/380	1140-950	254T	TEFC	20.4/10.2	1.15	NO
ACA- 6601/2 -3	10	3	60-50	208 - 230/460 - 190/380	1140-950	256T	TEFC	28.0/14.0	1.15	NO

ELECTRIC MOTOR NOTES:

1) Motor electrical ratings are an approximate guide and may vary between motor manufacturers. Consult ratings on motor data plate prior to installation and operation.

2) Explosion proof, high temperature, severe duty, chemical, IEC, Canadian Standards Association, and Underwriters Laboratory recognized motors are available upon request.

3) American Industrial reserves the right to enact changes to motor brand, type and ratings regarding horsepower, RPM,FLA,and service factor for standard products without notice. All specific requirements will be honored without change.

4) Fan rotation is clockwise when facing the motor shaft.

5) The above motors contain factory lubricated shielded ball bearings (no additional lubrication is required).

6) **Abbreviation Index**
TEFC.....Totally Enclosed, Fan Cooled
EXP.....Explosion Proof

CLASS I,DIV.1, GROUP D or CLASS II,DIV.2, GROUP F & G EXPLOSION PROOF MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2 -1	.25	1	60	115/230	1725	48	EXP	5.8/2.8	1.0	YES
ACA- 3181/2 -3	.25	3	60	208-230/460	1725	48	EXP	1.4-1.3/.65	1.0	YES
ACA- 3241/2 -3	.33	1	60	115/230	1140	56	EXP	7.8/3.5	1.0	YES
ACA- 3241/2 -1	.33	3	60	208-230/460	1140	56	EXP	1.18-1.6/8	1.0	YES
ACA- 3301/2 -3	.75	1	60	115/230	1140	56	EXP	9.4/4.8	1.0	YES
ACA- 3301/2 -1	.75	3	60	208-230/460	1140	56	EXP	2.5-2.4/1.2	1.0	YES
ACA- 4301/2 -3	.75	1	60	115/230	1140	56	EXP	9.4/4.8	1.0	YES
ACA- 4301/2 -1	.75	3	60	208-230/460	1140	56	EXP	2.5-2.4/1.2	1.0	YES
ACA- 6301/2 -1	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.0	YES
ACA- 3361/2 -3	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.0	YES
ACA- 4361/2 -3	1.0	3	60	230/460	1140	56	EXP	3.8/1.9	1.15	YES
ACA- 6361/2 -3	3	3	60	230/460	1725	182	EXP	8.8/4.4	1.15	YES
ACA- 6421/2 -3	5	3	60	230/460	1160	215	EXP	15.0-13.8/6.9	1.15	YES
ACA- 6481/2 -3	5	3	60	230/460	1160	215	EXP	15.0-13.8/6.9	1.15	YES
ACA- 6541/2 -3	7.5	3	60	230/460	1160	256	EXP	21.6-20.4/10.2	1.15	YES
ACA- 6601/2 -3	10	3	60	230/460	1160	256	EXP	29-26/13	1.15	YES

NOTE: Basic electric drive units are supplied with one of the corresponding above listed motors.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

575 VOLT ELECTRIC MOTOR DATA

Model	Horse Power	Phase	Hz	Volts	RPM	NEMA Frame	Enclosure Type	Full Load Amperes	Service Factor	Thermal Overload
ACA- 3181/2 -5	1/3	3	60	575	1725	56	TEFC	.52 .56	1.15	NO
ACA- 3241/2 -5	1/3	3	60	575	1140	56	TEFC	.52 .56	1.15	NO
ACA- 3301/2 -5	1/2	3	60	575	1140	56	TEFC	1.08	1.15	NO
ACA- 4301/2 -5	1/2	3	60	575	1140	56	TEFC	1.08	1.15	NO
ACA- 6301/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 3361/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 4361/2 -5	1	3	60	575	1140	56	TEFC	1.6	1.15	NO
ACA- 6361/2 -5	3	3	60	575	1725	182T	TEFC	3.3	1.15	NO
ACA- 6421/2 -5	5	3	60	575	1140	213T	TEFC	5.9	1.15	NO
ACA- 6481/2 -5	5	3	60	575	1140	213T	TEFC	5.9	1.15	NO
ACA- 6541/2 -5	7.5	3	60	575	1140	254T	TEFC	8.0	1.15	NO
ACA- 6601/2 -5	10	3	60	575	1140	256T	TEFC	10.5	1.15	NO

COMMON DATA

Model	Air Flow		Sound Level dB(A) @ 7ft	Weight		Serviceable Core
	CFM	m^3/s		w/ motor	w/o motor	
ACA-3181/2	1550	0.731	72	131	111	NO
ACA-3241/2	2900	1.36	76	154	134	NO
ACA-3301/2	4450	2.10	76	184	160	NO
ACA-4301/2	4450	2.10	76	211	187	NO
ACA-6301/2	4450	2.10	76	343	305	YES
ACA-3361/2	6350	2.99	79	243	205	NO
ACA-4361/2	6350	2.99	79	289	251	NO
ACA-6361/2	10500	4.95	91	402	342	YES
ACA-6421/2	14300	6.75	87	636	443	YES
ACA-6481/2	18700	8.82	88	753	560	YES
ACA-6541/2	23350	11.02	91	938	691	YES
ACA-6601/2	29300	13.83	91	1104	835	YES

NOTES:

TEFC = Totally Enclosed, Fan Cooled

To estimate the sound level at distances other than 7 feet (2.1 meters) from the cooler, add 6 db for each halving of distance, or substract 6 db for each doubling of the distance.

Example:
The Sound Level of the ACA-3181/2 is 72 dB at 7ft. At 3.5ft (7ft x 0.5 = 3.5ft) the sound level is 66 dB (72dB - 6dB = 66dB). At 14ft (7ft x 2 = 14ft) the sound level is 78dB (72dB + 6dB = 78dB).

Pressure Drop Graphs (see page 220)

Each graph represents a specific pressure drop at differing flow rates and inlet pressures. The four graphs for each model series size represents the more popular milestone pressure differentials commonly applied.

To use the graphs for selection purposes follw the steps below.

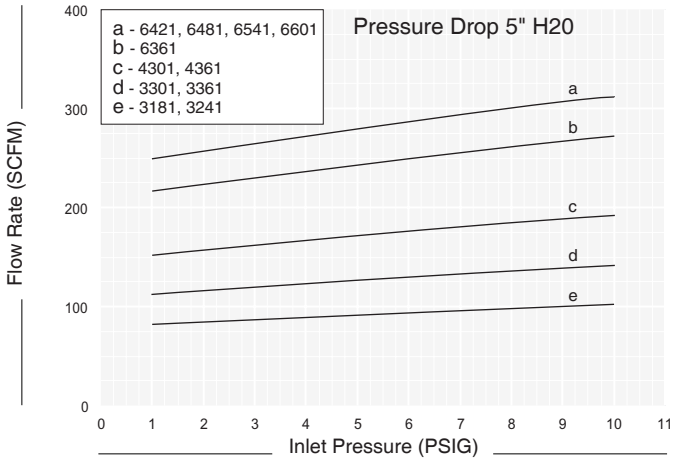
1) Locate the operating pressure at the bottom of the desired pressure drop chart.
2) Locate the flow rate in SCFM at the left end of the chart.
3) Follow the "Pressure" line vertically and the "Flow" line horizontally until they cross, note the location.
4) The curve on, or closest above will be exact or less pressure drop than requested and suitable for the application.
5) There may be several units shown above the intersection point, all of which will produce less than the desired pressure drop at the required flow.

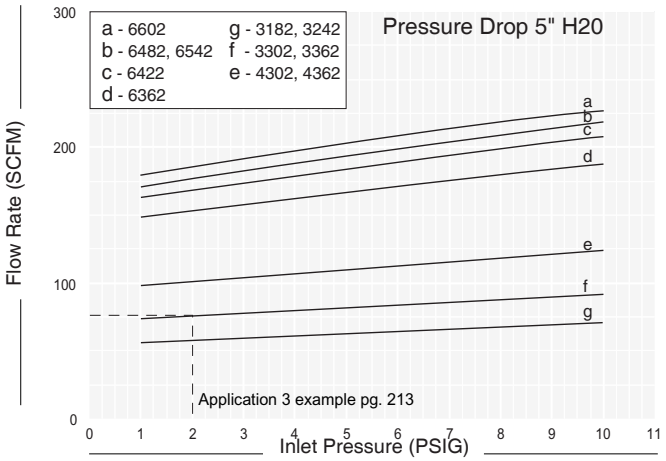
Example: Application 3 Low Pressure Blower

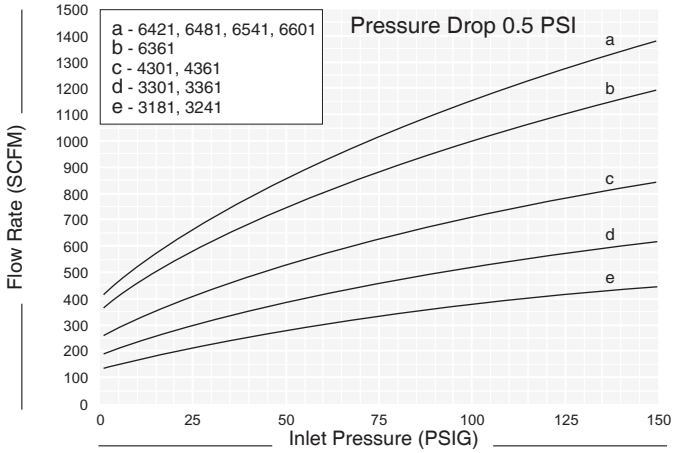
Flow = 76 SCFM
Operating pressure = 2 PSIG
Initial selection from graph page 215 = ACA-3302
Desired pressure drop = 5" H2O or less. (USE the "Pressure Drop 5" H20" curves page 220)
From the pressure drop graph, page 220. Acceptable choice - ACA-3302 is on the line, ACA-3242 is well below the line. The ACA-3302 meets the pressure drop requirement, but exceeds the capacity requirement. However, even though the ACA-3242 exceeds 5" of water pressure drop, other considerations should be made prior to selection such as unit physical size, cost, availability, and port size.

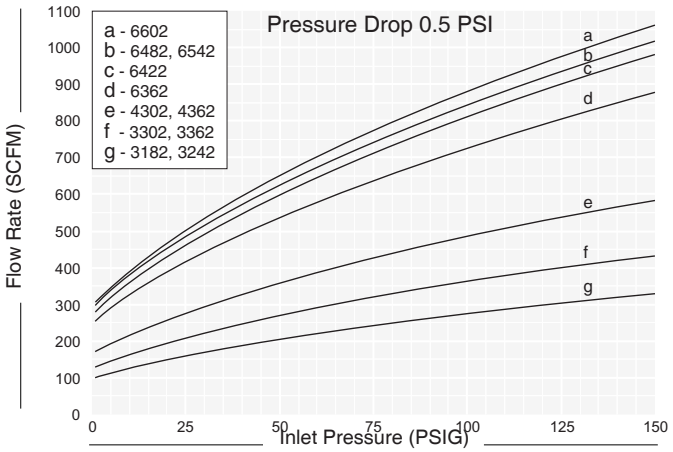
note: AIHTI reserves the right to make reasonable design changes without notice.
Copyright © 2004 American Industrial Heat Transfer, Inc.

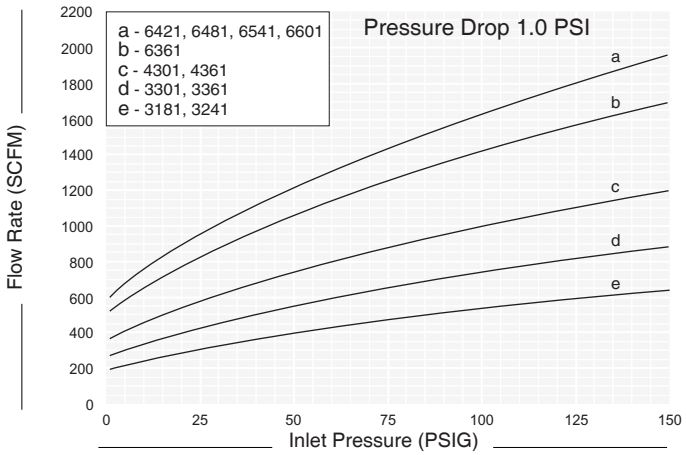
ACA Series *pressure drop graphs*

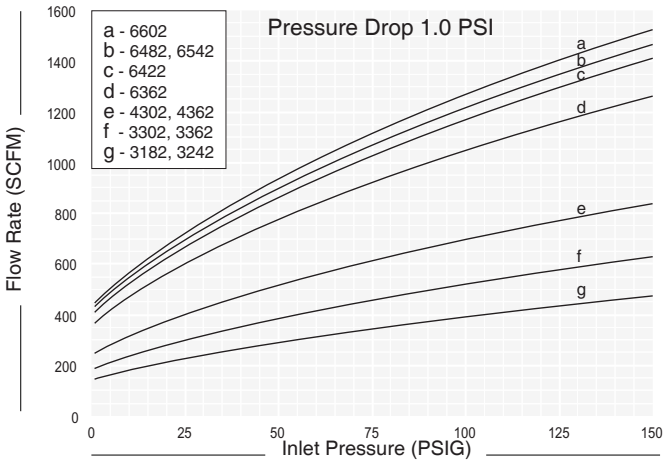


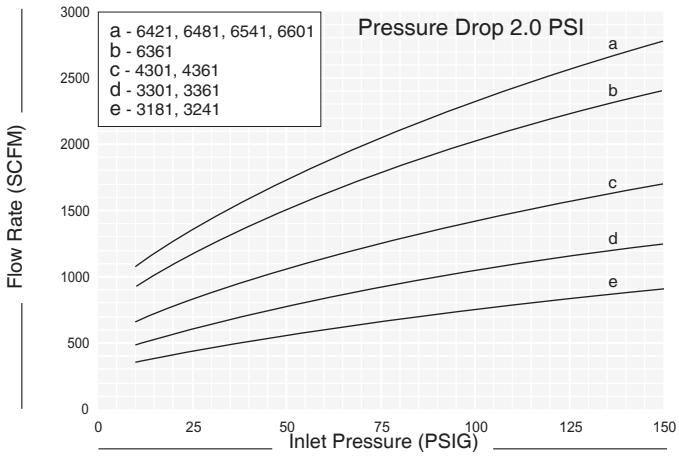


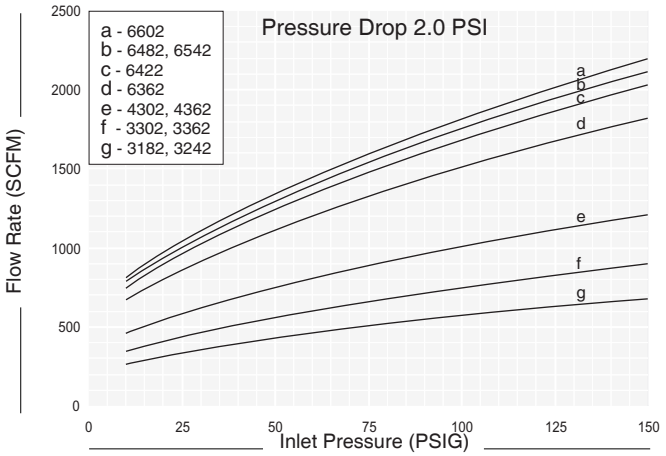






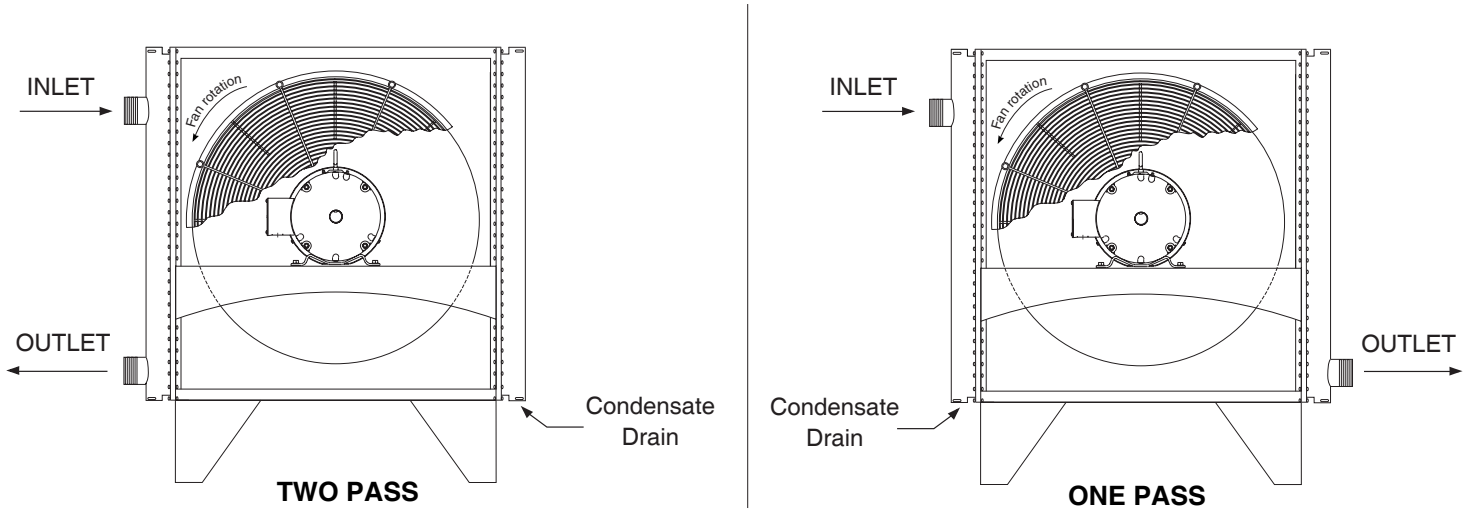






Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

PIPING HOOK UP



Receiving:

a) Inspect unit for any shipping damage before uncrating. Indicate all damages to the trucking firms' delivery person and mark it on the receiving bill before accepting the freight. Make sure that the core and fan are not damaged. Rotate the fan blade to make sure that it moves freely. The published weight information located in this brochure is approximate. True shipment weights are determined at the time of shipping and may vary. Approximate weight information published herein is for engineering approximation purposes and should not be used for exact shipping weight. *Since the warranty is based upon the unit date code located on the model identification tag, removal or manipulation of the identification tag will void the manufacturers warranty.*

b) When handling the ACA heat exchanger, special care should be taken to avoid damage to the core and fan. All units are shipped with wood skids for easy forklift handling

c) Standard Enamel Coating: American Industrial provides its standard products with a normal base coat of oil base air cure enamel paint. The enamel paint is applied as a temporary protective and esthetic coating prior to shipment. While the standard enamel coating is durable, American Industrial does not warrantee it as a long-term finish coating. It is strongly suggested that a more durable final coating be applied after installation or prior to long-term storage in a corrosive environment to cover any accidental scratches, enhance esthetics, and further prevent corrosion. It is the responsibility of the customer to provide regular maintenance against chips, scratches, etc... and regular touch up maintenance must be provided for long-term benefits and corrosion prevention.

Installation:

a) American Industrial recommends that the equipment supplied should be installed by qualified personal who have solid understanding of system design, pressure and temperature ratings, and piping assembly. Verify the service conditions of the system prior to applying any ACA series cooler. If the system pressure or temperature does not fall within the parameters on ACA rating tag located on the heat exchanger, contact our factory prior to installation or operation.

b) In order for the heat exchanger to properly function, installation should be made with minimum airflow obstruction distance of not less than twenty (20) inches on both fan intake and exiting side of the heat exchanger.

c) Process piping should be as indicated above with the process flow entering into the upper port and exiting out the lower port (see illustration). This configuration will allow for condensate moisture to drain completely from the equipment. It is recommended that an air separator or automatic drip leg be applied to the outlet side of the heat exchanger to trap any moisture that develops.

d) Flow line sizes should be sized to handle the appropriate flow to meet the system pressure drop requirements. If the nozzle size of the heat exchanger is smaller than the process line size an increased pressure differential at the heat exchanger may occur.

e) ACA series coolers are produced with both brazed ACA-3181 through ACA-4362, and serviceable core® ACA-6301 through ACA-6602 style coils. A brazed construction coil does not allow internal tube access. A serviceable core® will allow full accessibility to the internal tubes for cleaning and maintenance. ACA series coolers are rated for 150 PSIG working pressure, and a 400^{o}f working temperature.

f) Special Coatings: American Industrial offers as customer options, Air-Dry Epoxy, and Heresite (Air-Dry Phenolic) coatings at additional cost. American Industrial offers special coatings upon request, however American Industrial does not warrantee coatings to be a permanent solution for any equipment against corrosion. It is the responsibility of the customer to provide regular maintenance against chips, scratches, etc... and regular touch up maintenance must be provided for long-term benefits and corrosion prevention.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

g) Electric motors should be connected only to supply source of the same characteristics as indicated on the electric motor information plate. Prior to starting, verify that the motor and fan spin freely without obstruction. Check carefully that the fan turns in the correct rotation direction normally counter clockwise from the motor side (fan direction arrow). Failure to operate the fan in the proper direction could reduce performance or cause serious damage to the heat exchanger or other components. Fan blades should be rechecked for tightness after the first 100 hours of operation.

Maintenance

Regular maintenance intervals based upon the surrounding and operational conditions should be maintained to verify equipment performance and to prevent premature component failure. Since some of the components such as, motors, fans, load adapters, etc... are not manufactured by American Industrial maintenance requirements provided by the manufacture must be followed.

a) Inspect the entire heat exchanger and motor/fan assembly for loosened bolts, loose connections, broken components, rust spots, corrosion, fin/coil clogging, or external leakage. Make immediate repairs to all affected areas prior to restarting and operating the heat exchanger or its components.

b) Heat exchangers operating in oily or dusty environments will often need to have the coil cooling fins cleaned. Oily or clogged fins should be cleaned by carefully brushing the fins and tubes with water or a non-aggressive degreasing agent mixture (Note: Cleaning agents that are not compatible with copper, brass, aluminum, steel or stainless steel should not be used). A compressed air or a water stream can be used to dislodge dirt and clean the coil further. Any external dirt or oil on the electric motor and fan assembly should be removed. Caution: Be sure to disconnect the electric motor from its power source prior to doing any maintenance.

c) In most cases it is not necessary to internally flush the coil. In circumstances where the coil has become plugged or has a substantial buildup of material, flushing the coil with water or a solvent may be done. Flushing solvents should be non-aggressive suitable for the materials of construction. Serviceable Core® models can be disassembled and inspected or cleaned if required.

d) Most low horsepower electric motors do not require any additional lubrication. However, larger motors must be lubricated with good quality grease as specified by the manufacture at least once every 6-9 months or as directed by the manufacture. T.E.F.C. air ventilation slots should be inspected and cleaned regularly to prevent clogging and starving the motor of cooling air. To maintain the electric motor properly see the manufactures requirements and specifications.

e) Fan blades should be cleaned and inspected for tightness during the regular maintenance schedule when handling a fan blade care must be given to avoid bending or striking any of the blades. Fan blades are factory balanced and will not operate properly if damaged or unbalanced. Damaged fan blades can cause excessive vibration and severe damage to the heat exchanger or drive motor.

Replace any damaged fan with an American industrial suggested replacement.

f) ACA heat exchanger cabinets are constructed using 7ga. through 18ga. steel that may be bent back into position if damaged. Parts that are not repairable can be purchased through American Industrial.

g) Coil fins that become flattened can be combed back into position. This process may require removal of the coil from the cabinet.

h) It is not advisable to attempt repairs to brazed joints of a brazed construction coil unless it will be done by an expert in silver solder brazing. Brazed coils are heated uniformly during the original manufacturing process to prevent weak zones from occurring. Uncontrolled reheating of the coil may result in weakening of the tube joints surrounding the repair area. In many instances brazed units that are repaired will not hold up as well to the rigors of the system as will a new coil. American Industrial will not warranty or be responsible for any repairs done by unauthorized sources. Manipulation in any way other than normal application will void the manufactures warranty.

i) Units containing a Serviceable Core® have bolted manifold covers that can be removed for cleaning or repair purposes.

Servicing Sequence

American Industrial has gone to great lengths to provide components that are repairable. If the ACA unit requires internal cleaning or attention the following steps will explain what must be done to access the internal tubes. Be sure to order gasket kits or repair parts prior to removal and disassembly to minimize down time.

a) To clean the internal tubes first remove all connection pipes from the unit.

b) Be sure the unit is drained of all water etc...

c) Place the ACA unit in an area that it can be accessed from all sides.

d) Remove the manifold cover bolts and hardware and place them into a secure place.

e) The manifold covers are tightly compressed and may need some prying to separate them from the gasket, physically remove the cover assemblies from both sides.

f) The tubes are now accessible for cleaning. We suggest a mild water-soluble degreaser be used with a brush. Tubing I.D. is .325 a plastic bristle brush on a rod will work best for cleaning the tubes. Steel brushes should be avoided since the steel is harder than the copper tubing and may heavily score the tubes if used.

g) If there are any leaking tubes you may plug them be forcing a soft metal plug into the hole and tapping it tight. You may in some cases weld the leaking tube shut however, care should be taken since excessive heat may cause surrounding tube joints to loosen and leak.

Copyright © 2004 American Industrial Heat Transfer, Inc.
3905 Route 173 Zion, IL 60099 tel: 1 (847) 731-1000 fax: 1 (847) 731-1010 www.aihti.com

CARBTROL®

AIR PURIFICATION CANISTERS 140-200 LB. ACTIVATED CARBON

G-1
G-2
G-3



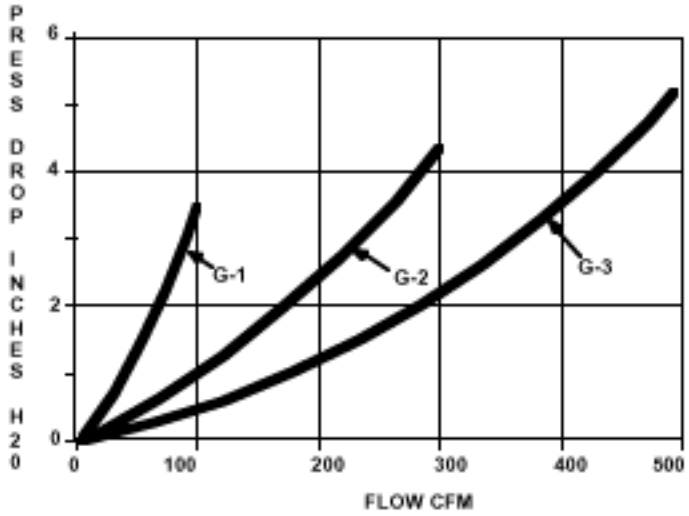
The CARBTROL "G" Canisters handles flows up to 500 CFM.

FEATURES

- High activity carbon.
- Epoxy lined steel or polyethylene construction.
- Acceptable for transport of hazardous spent carbon.
- Side drain for removal of accumulated condensate.
- Low pressure drop.
- PVC internal piping.
- High temperature (180°F) steel units available.

APPLICATIONS

- Soil vapor remediation
- Air stripper exhausts
- Tank vents
- Exhaust hoods
- Work area purification
- Sewage plant odor control



© Copyright 1991 Carbtrol Corporation - 10/4/02

AT-116/#1

CARBTROL®
CORPORATION

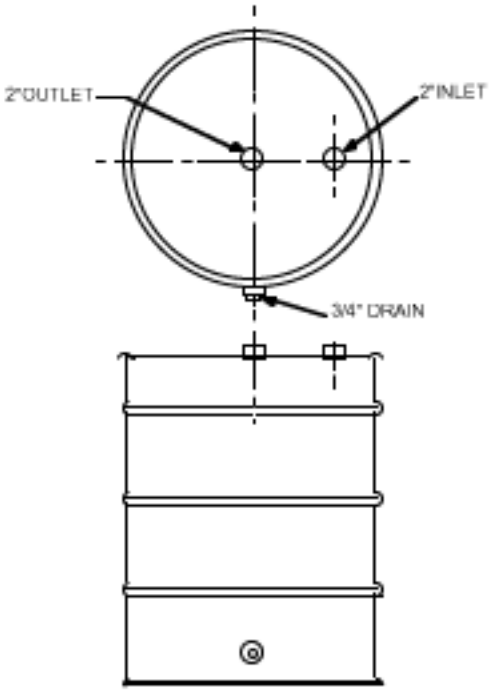
955 Connecticut Ave., Suite 5202
Bridgeport, CT 06607

800-242-1150 Fax: 203-337-4347
www.carbtrol.com info@carbtrol.com

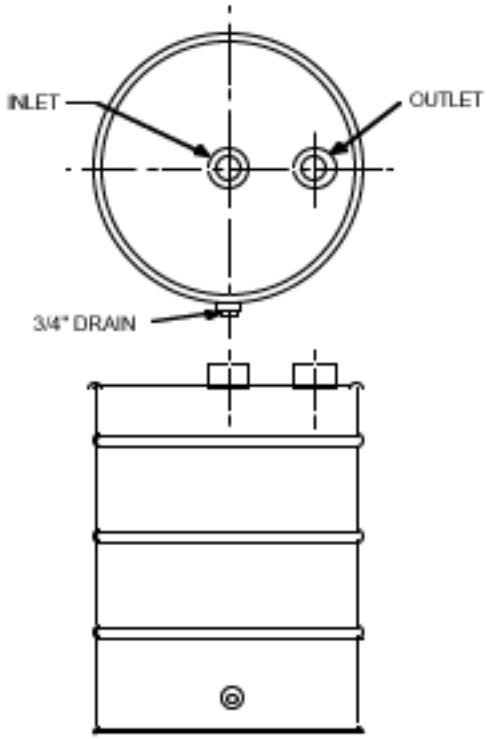
CARBTROL®

AIR PURIFICATION CANISTERS 140-200 LB. ACTIVATED CARBON

G-1
G-2
G-3



MODEL G-1



MODEL G-2,G-3

SPECIFICATIONS

MODEL	DIAMETER/HEIGHT	CARBON WEIGHT	INLET/OUTLET	MAXIMUM RATED FLOW	APPROXIMATE SHIP WEIGHT
G-1*	24"/36"	200 lbs.	2"/2"	100 CFM	250 lbs.
G-2*	24"/36"	170 lbs.	4"/4"	300 CFM	220 lbs.
G-3P	24"/36"	140 lbs.	6"/6"	500 CFM	190 lbs.
G-3S	24"/34"	140 lbs.	4"/4"	500 CFM	180 lbs.

* Specify: Polyethylene (P) or Epoxy Lined Steel (S)

SAFETY

Certain chemical compounds in the presence of activated carbon may oxidize, decompose or polymerize. This could result in temperature increases sufficient to cause ignition of the activated carbon or adsorbed material. If a compounds reaction with activated carbon is unknown, appropriate tests should be considered.

CARBTROL® CORPORATION
955 Connecticut Ave., Suite 5202
Bridgeport, CT 06607
800-242-1150 Fax: 203-337-4347
www.carbtrol.com info@carbtrol.com

CARBTROL® CORPORATION

955 Connecticut Ave., Suite 5202, Bridgeport, CT 06607 Phone 203-337-4340 Fax 203-337-4353

SPENT CARBON IDENTIFICATION SHEET (TAKEBACK)

Customer: _____ Site: _____

Address: _____ City, State: _____

_____

_____ Send Labels To: _____

Contact: _____ _____

Phone: _____ _____

"Bill To" is to Customer Unless Otherwise Indicated _____

- Carbon Used For: _____ Remediation of Petroleum UST Site
  _____ Pollution control activities
  _____ Other-(Describe) _____
- Carbon Type: _____ Liquid _____ Vapor [Submit Liquid and Vapor on Separate Forms}
- Liquid Vessels: Canisters (Qty): _____ L-1 (Metal) _____ L-14P (Plastic)
  Adsorbers (Qty): _____ L-4 _____ L-5
  Fiberglass Vessels (Qty): _____ HP-90 _____ HP-200 _____ HP-1000 _____ -1700
  Other (Qty): _____ Describe Size and Mfg: _____
- Vapor Vessels: Metal Canisters (Qty): _____ G-1 _____ G-2 _____ G-3 _____ G-10 _____ G-11
  Plastic Canisters (Qty): _____ G-1P _____ G-2P _____ G-3P
  Adsorbers (Qty): _____ G-4 _____ G-5 _____ G-6 _____ G-7 _____ G-8
  Other (Qty): _____ Describe Size and Mfg: _____
- Does the Carbon Contain Any: _____ Sand, Gravel or Silicon _____ Impregnated Chemicals
- Order Type: _____ Purchased Equipment _____ Rental Equipment

SPENT CARBON COMPOSITION

CONSTITUENT	% By Weight
Activated Carbon	_____
Water	_____
Contaminants (List):	
_____	_____
_____	_____
_____	_____
_____	_____
Mixture:	100 %

Does the Spent Carbon Contain:	YES	NO
A. Polychlorinated Biphenyls (PCB's)	_____	_____
B. Dioxins	_____	_____
C. 1,2-Dibromo-3-Chloropropane	_____	_____
D. Halogenated Compounds	_____	_____
E. Sulfur Compounds	_____	_____
F. Heavy Metals	_____	_____

- Is the Spent Carbon a listed or characteristically hazardous waste in accordance with 40 CFR 261 "Identification and Listing of Hazardous Waste?* Yes _____ No _____
- Is the spent carbon contaminated with a listed hazardous waste? Yes _____ No _____
- Is the spent carbon a characteristically hazardous waste? Yes _____ No _____
  - Toxicity characteristic (TCLP)? Yes _____ No _____
  - Reactive? Yes _____ No _____
  - Corrosive? Yes _____ No _____
  - Ignitable? Yes _____ No _____

If the spent activated carbon has been tested to determine hazardous constituents or physical properties, attach the analytical results.

* For details of 40 CFR 261, on internet see "es.epa.gov", "EPA", "Laws&Regulations", "Code of Federal Regulations" or contact your State EPA office.

ACCURACY AND CHARACTERIZATION CERTIFICATION

I hereby certify that the information set forth in this "Spent Carbon Identification Sheet", including any information in attachments hereto or incorporated by reference herein, is true, correct and complete to the best of my knowledge, information and belief at that the information accurately describes the spent carbon material identified herein.

_____ Signature _____ Title

_____ Name (Please Print) _____ Date

FOR CARBTROL USE ONLY: Approved: _____ Date: _____ SCID Takeback - 1/14/02

Appendix G
Pilot Study Report

Buildings 785 and 786
Former Griffiss Air Force Base
Rome, New York

DRAFT
REPORT

Sub-Slab Vapor Mitigation Pilot Study

Contract No. FA8903-04-D-8687

Revision 0.0
May 2011

FPM Remediations, Inc.

FPM Remediations, Inc. Construction and Remediation Services

548 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

May 20, 2011

Air Force Center for Engineering and Excellence
Attn: Cathy Jerrard
428 Phoenix Dr.
Rome, New York 13441

RE: Draft Report
Sub-Slab Vapor Mitigation Pilot Study
Buildings 785 and 786
Former Griffiss Air Force Base, Rome, New York
Project No. FA8903-04-D-8687-0017
FPM Project No. 1000-08-17
Revision 0.0
May 2011

Enclosed please find the Draft Report for the Sub-Slab Vapor Mitigation Pilot Study for Buildings 785 and 786, for your review. This report details the Pilot Study design which evaluated the application of sub-slab vapor mitigation and soil vapor extraction at the former Griffiss Air Force Base in Rome, NY.

Please provide any comments or corrections by June 20, 2011. If you have any questions or require additional information, please contact me or David Forse by phone at 315-336-7721, or e-mail at g.atik@fpm-remediations.com or d.forse@fpm-remediations.com.

Very truly yours,

Gaby A. Atik, P.E.
Executive Vice President

Enc.

DRAFT
REPORT

Sub-Slab Vapor Mitigation Pilot Study

At Buildings 785 and 786
Former Griffiss Air Force Base
Rome, New York

through

Air Force Center for Engineering and the Environment
AFCEE / EXC Building 171
2261 Hughes Avenue
Lackland AFB, TX 78236-9853

Prepared by:

FPM Remediation, Inc.
584 Phoenix Drive
Rome, NY 13441

Project No. FA8903-04-D-8687
Delivery No. 0017

Revision 0.0
May 2011

This page is intentionally left blank.

TABLE OF CONTENTS

SECTION **PAGE**

1 INTRODUCTION 1-1
1.1 Description of Pilot Study 1-1
2 SITE INFORMATION 2-1
2.1 Buildings 785 and 786 Site Location and History 2-1
2.1.1 Groundwater Investigation 2-1
2.1.2 2006 SVI Evaluation 2-1
2.1.3 Building 785 SVI Results 2008 2-2
2.1.4 Building 786 SVI Results 2008 2-2
3 INSTALLATION OF SSVM SYSTEMS 3-1
3.1 Building 785 System 3-1
3.1.1 Vertical Wells 3-1
3.1.2 Blower and Accessories 3-1
3.1.3 VMPs 3-1
3.1.4 Vapor Treatment 3-1
3.2 Building 786 System 3-1
3.2.1 Horizontal Well 3-2
3.2.2 Blower and Accessories 3-2
3.2.3 VMPs 3-2
3.2.4 Vapor Treatment 3-2
4 EVALUATION OF CRITERION 4-1
4.1 Building 785 System 4-1
4.1.1 Stepped Rate Test 4-1
4.1.2 Vacuum Radius of Influence Test 4-1
4.1.3 VMP Sub-Slab Sampling 4-2
4.1.4 Vapor Treatment Sampling 4-3
4.1.5 Feasibility of Design 4-3
4.2 Building 786 System 4-3
4.2.1 Stepped Rate Test 4-4
4.2.2 Vacuum Radius of Influence Test 4-4
4.2.3 VMP Sub-Slab Sampling 4-5
4.2.4 Vapor Treatment Sampling 4-5
4.2.5 Feasibility of Design 4-5
4.3 Conclusion and Recommendations 4-6
5 REFERENCES 5-1

LIST OF FIGURES

Figures

Figure 1-1	Buildings 785 and 786 Site Location Map
Figure 2-1	Buildings 785 and 786 Site Features
Figure 3-1	Buildings 785 and 786 SSVM Systems
Figure 3.1.2	Building 785 Blower Configuration
Figure 3.2.1	Building 786 Horizontal Well Profile
Figure 3.2.2	Building 786 Blower Configuration
Figure 4.1.1	Stepped Rate Test 785SSVM-2
Figure 4.1.1(2)	Specific Capacity 785SSVM-2
Figure 4.1.2	ROI Test on 785SSVM-1
Figure 4.1.2(2)	ROI Test on 785SSVM-2
Figure 4.2.1	Stepped Rate Test 786SSVM-1
Figure 4.2.1(2)	Specific Capacity 786SSVM-1
Figure 4.2.2	ROI Test on 786SSVM-1

LIST OF TABLES

Tables

Table 1	SVI Results Table
Table 2	SSVM Pilot Study Results Table

LIST OF APPENDICES (electronic copy only)

Appendices

Appendix A	Drilling Logs
Appendix B	RWPCF Documentation
Appendix C	Field Forms
Appendix D	Raw Lab Data
Appendix E	Validated Data

LIST OF ACRONYMS AND ABBREVIATIONS

AFB	Air Force Base
AFCEE	Air Force Center for Engineering and the Environment
AFRPA	Air Force Real Property Agency
bgs	below ground surface
CFM	cubic feet per minute
COC	chain of custody
DCE	dichloroethylene
EEEPC	Ecology and Environment Engineering, P.C.
FPM	FPM Remediations, Inc.
ft	feet
HSA	Hollow Stem Auger
in w.g.	inches of water
LTM	long-term monitoring
NYSDEC	New York State Department of Environmental Conservation
NYSDOH	New York State Department of Health
PCE	tetrachloroethylene
PID	photoionization detector
PVC	poly-vinyl chloride
ppm	parts per million
ROI	radius of influence
RWPCF	Rome Water Pollution Control Facility
SSVM	Sub-Slab Vapor Mitigation
SVE	Soil Vapor Extraction
SVI	Soil Vapor Intrusion
TCE	trichloroethylene
USACE	United States Army Corp of Engineers

LIST OF ACRONYMS AND ABBREVIATIONS (continued)

USEPA	United States Environmental Protection Agency
VC	vinyl chloride
VMP	Vapor Monitoring Point
VOC	Volatile Organic Compound
WP	Work Plan
µg/L	micrograms per liter
µg/m^3	micrograms per meter cubed

1 INTRODUCTION

FPM Remediations, Inc. (FPM) has been contracted by the Air Force Center for Engineering and the Environment (AFCEE) to perform a Sub-Slab Vapor Mitigation (SSVM) pilot study at the former Griffiss Air Force Base (AFB) in Rome, NY. The purpose of this SSVM pilot study is to support the design for full scale implementation at Building 774, 776, 785 and 786. These sites were investigated as part of the Soil Vapor Intrusion (SVI) Survey at the On-base Groundwater Areas of Concern performed between October and December 2006 by Ecology and Environment Engineering P.C. (EEEPC).

Sites included in this Report are Building 785 and 786 which are located within the former Griffiss AFB. These sites are industrial/commercial and are not intended for future residential use. All current and future receptors at the sites are therefore industrial/commercial workers. The site use is currently restricted to industrial/commercial use via deed/lease restrictions.

1.1 Description of Pilot Study

The pilot study addressed the SVI of chlorinated solvents at the sites. The pilot study was conducted in accordance with provisions of the Contract # FA8903-04-D-8687, Delivery Order # 0017. The goals and objectives of the SSVM pilot study were to determine which type of system would be optimal for long term operation along with the evaluation of effectiveness of each system's performance. This Pilot Study Report is prepared for the Building's 785 and 786 pilot study SSVM systems. Please refer to Figure 1-1 for Buildings 785 and 786 locations.

To illustrate how this SSVM pilot study operated the following highlights the overall objectives, components, and constraints of the Building's 785 and 786 SSVM systems.

The objectives of the SSVM systems were:

- To provide soil vapor extraction (SVE) for Building 785 utilizing two vertical SSVM systems; to evaluate the functional limitations of the two vertical SSVM systems at Building 785 and to evaluate SSVM to protect potential future human receptors,
- To provide SVE for Building 786 utilizing a horizontal SSVM system; to mitigate SVI sources at Building 786 through providing SSVM and to evaluate SSVM to protect potential future human receptors.
- Identifying usability of vertical wells versus horizontal wells for permanent installation,
- To evaluate chlorinated solvent mitigation due to the SSVM systems, and
- To collect data that support full-scale system design.

Systems designs and evaluation criteria was based on the Draft-Final SSVM Pilot Study Work Plan (WP) (FPM, October 2010). This Report also consulted the United States Army Corps of Engineers (USACE) Engineering Manual 1110-1-4001 (USACE, June 2002), specifically

chapter 4 “Bench-and Pilot-Scale Testing for Soil Vapor Extraction and Bioventing” and Assumptions and Screening Levels for Soil Vapor Intrusion Evaluation (FPM, October 2007).

Components of the SSVM system included:

- Two vertically-installed SSVM systems at Building 785 with vacuum blower and associated piping and controls,
- A horizontally-installed SSVM system at Building 786 with vacuum blower and associated piping and controls,
- Vapor treatment system using activated carbon, and
- Vapor monitoring points (VMPs) to evaluate chlorinated solvent changes resulting from SSVM system operation.

Given the above objectives and components of the SSVM systems, the following evaluation criterion were used:

1. Design and performance of vertical/horizontal SSVM wells determined through stepped rate test.
2. Ability of vertical/horizontal SSVM wells to depressurize building slabs. Determined through vacuum radius of influence (ROI) test.
3. Understanding the transport and mitigation of chlorinated solvents. Determined through VMP sub-slab sampling and compare to previous results from SVI evaluation.
4. Identifying the effectiveness of SVE and treatment. Determined through influent vapor sampling from the extraction wells and effluent vapor sampling after activated carbon treatment.
5. Identifying feasibility of each design based on industrial/commercial use of Building 785 and Building 786.

2 SITE INFORMATION

2.1 Buildings 785 and 786 Site Location and History

Buildings 785 and 786 are located on the Apron 2 Chlorinated Plume Site (SD-52-01) at the former Griffiss AFB in Rome, NY (Figure 2-1). Buildings 785 and 786 are 28,251-square-ft, unoccupied, and unheated airplane hangers. The buildings are largely open with several first and second floor offices in the southwest corners of the buildings. Building 785 and 786 were built in 1959 and were taken out of service in 1995 after the former Griffiss AFB was closed. The buildings are built on a 13.5 to 14-inch thick, unsealed concrete slab. Cracks in the concrete floors were repaired and painted. Two large trenches exist in the buildings; one along the large aircraft bay doors on the southeast side of the building and a smaller trench along the overhead door on the northwest side of the buildings. All heating and air handling equipment is in a state of disrepair and assumed inoperable. The buildings are poorly sealed due to broken windows, doors left ajar and holes observed in the sheet metal outer covering of the building. According to drilling logs from the site, silty sand and gravelly sands are the predominant lithology encountered. Groundwater monitoring wells are currently present in Building 785 and outside in the vicinity of both buildings.

2.1.1 Groundwater Investigation

An extensive groundwater investigation has occurred surrounding Building 785 and Building 786, which is now in the long-term monitoring (LTM) phase. This investigation has been well documented in the pilot study work plan (FPM, October 2010). There are three primary contaminants in the plumes that exceed New York State Department of Environmental Conservation (NYSDEC) Class GA Groundwater Standards: trichloroethylene (TCE) and its breakdown products cis-1,2-dichloroethylene (DCE) and vinyl chloride (VC). The southern plume is commingled with several petroleum fuel plumes originating from Apron 2 fueling system. At locations where chlorinated solvents and fuel contaminants are commingled, significant reductive dechlorination is occurring, therefore the remedy emplace is natural attenuation. The most recent LTM groundwater sampling results have shown TCE detections up to 34.8 micro gram per liter (µg/L) at monitoring well 782VMW-105B, cis-1-2-DCE detections up to 43.4 µg/L at monitoring well 782VMW-78 and VC detections up to 39.5 µg/L at monitoring well 782VMW-4 (FPM, January 2011).

2.1.2 2006 SVI Evaluation

EEEPC performed an SVI Evaluation in 2006 at the Apron 2 Chlorinated plume. Buildings 782, 783, 784, 785, and 786 were evaluated. No detection exceeding screening levels was reported for Buildings 782, 783, and 784, so SVI was not deemed a concern for these buildings. Sub-slab sampling at the Apron 2 Chlorinated Plume Site indicates that tetrachloroethylene (PCE), TCE and chloroform are present in the sub-slab vapor beneath Buildings 785 and 786 at

concentrations above the AF screening levels. Indoor air sampling indicates that PCE and TCE are present, but at concentrations below the AF screening levels. No chloroform was reported in the indoor air. TCE was detected consistently in groundwater samples from wells within the groundwater contamination plume. PCE was never detected in groundwater. Chloroform exceedances of the NYSDEC Class GA Groundwater Standards were reported in the March 2009 sampling round in virtually all monitoring wells at Building 786, due to a reported water line break which leaked drinking water for a significant time at the site. The chloroform exceedances have shown a decreasing trend after the leak was repaired. SVI evaluation sample locations are shown on Figure 2-1 and SVI evaluation results are provided in Table 1, SVI Results Table.

This SVI survey was reviewed by the Air Force Real Property Agency (AFRPA), NYSDEC, New York State Department of Health (NYSDOH) and USEPA and during discussions among these parties, a plan for additional sampling was established, which was then implemented by FPM in April and May 2008 (FPM, April 2008).

2.1.3 Building 785 SVI Results 2008

Sub-slab sampling in 2006 and 2008 at the Apron 2 Chlorinated Plume Site indicates that chloroform and TCE are present in the sub-slab vapor beneath Building 785 at concentrations above the screening levels; indoor air sampling indicates that these contaminants are present, but at concentrations below the screening levels.

Sub-slab vapor sampling results for the 2006 sampling event showed exceedances for TCE of 11,000 micrograms per cubic meter ($\mu g/m^3$) at 785SSV-1. The April 2008 sampling round data were lower at this location (identical to two orders of magnitude lower) than those reported for the 2006 sampling round data. TCE exceedances of the sub-slab vapor screening levels were reported for sub-slab vapor locations 785SSV-2 and -6 at 430 and 2,200 $\mu g/m^3$, respectively.

2.1.4 Building 786 SVI Results 2008

Sub-slab sampling in 2006 and 2008 at the Apron 2 Chlorinated Plume Site indicates that PCE, and TCE are present in the sub-slab vapor beneath Building 786 at concentrations above the screening levels; indoor air sampling indicates that these contaminants are present, but at concentrations below the screening levels.

TCE was detected beneath Building 786 at concentrations ranging from 4,700 to 81,000 $\mu g/m^3$ in 2006 and PCE was detected at 2,200 $\mu g/m^3$at location 786SSV-1. Sub-slab vapor sampling results for the April 2008 sampling round were lower but within the same order of magnitude as those reported for the 2006 sampling round. Only TCE exceeded the sub-slab vapor screening levels at sampling locations 1, 2, 5, and 6 locations for the 2008 sampling ranging from 1,500 to

19,000 $\mu g/m^3$. Generally, small petroleum detections were reported in all samples, but none exceeded the sub-slab screening levels.

This page is intentionally left blank.

3 INSTALLATION OF SSVM SYSTEMS

3.1 Building 785 System

This system is illustrated on Figure 3-1.

3.1.1 Vertical Wells

Two vertical SSVM wells (785SSVM-1 and 785SSVM-2) were installed as extraction wells on September 16, 2010 and September 14, 2010, respectively. These vertical SSVM wells were constructed of a 5-ft screen, from 5 to 10 ft below ground surface (bgs), of 0.010-slot size, 2-inch diameter Schedule 40 poly-vinyl chloride (PVC) with a 5-ft riser to grade. The wells were installed by the vertical Hollow Stem Augering (HSA) method using a vertical drilling rig and typical HSA tooling. Drilling logs were recorded and are available in Appendix A.

3.1.2 Blower and Accessories

The two vertical extraction wells were connected inline with a regenerative blower, including all blower components The blower model was capable of achieving a maximum flow rate of 90 cubic feet per minute (cfm) and a maximum vacuum of 48 inches of water (inch w.g.). Blower components included control panel, vacuum relief valve, air dilution valve with filter, vacuum and temperature gauges, inline filter, muffler, and 55 gallon moisture knockout tank. The blower and accessories configuration is shown in Figure 3.1.2.

3.1.3 VMPs

The VMPs were strategically installed on September 15, 2010, to assist the ROI test, where 785VMP-1, -2 and -3 were respectively 10 feet (ft), 20 ft and 30 ft off the 785SSVM-1 well axis and respectively 45ft, 65ft and 20 ft off the 785SSVM-2 well axis. The VMPs contain three screened intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs) and a deep (10 to 10.5 ft bgs). Drilling logs were recorded and are available in Appendix A.

3.1.4 Vapor Treatment

The regenerative blower was connected inline with a vapor after treatment system consisting of one activated carbon drum.

3.2 Building 786 System

This system is illustrated in Figure 3-1.

3.2.1 Horizontal Well

For this pilot study, one horizontal well was installed to evaluate coverage and effectiveness. Horizontal wells are expected to offer more SSVM coverage than vertical wells. One horizontal SSVM well (786SSVM-1) was installed as an extraction well. This horizontal extraction well was constructed of a 160-ft screen at a depth of 10 ft bgs, of 0.010-slot size, 3-inch diameter Schedule 40 PVC. The well was installed November 15 through November 23, 2010, using directional drilling pull method. During installation, rod number (15 ft increments), depth and pitch were recorded to track the spatial location of the bore hole. Figure 3.2.1 shows a cross sectional view of the bore hole path.

Once installation was completed the well was developed using high pressured water and a cleaning solution as described in the Pilot Study WP (FPM, October 2010). The returned development water was containerized in a frac tank and sampled for full list volatile organic compounds (VOCs). The result data attached in Appendix B shows all results below the reporting limit. Therefore Rome Water Pollution Control Facility (RWPCF) was contacted to receive approval for discharge into the sanitary sewer system. The discharge event occurred over the course of 4 days (December 16, 17, 20, and 21, 2010) totaling 3,500 gallons of development water. All documentation is attached in Appendix B.

3.2.2 Blower and Accessories

The horizontal extraction well was connected inline with a regenerative blower, including all blower components. The blower model was capable of achieving a maximum flow rate of 420 cfm and a maximum vacuum of 110 inch w.g. Blower components included control panel, vacuum relief valve, air dilution valve with filter, vacuum and temperature gauges, flow meter, inline filter, muffler, and 60 gallon moisture knockout tank. The blower and accessories was designed and built by Air Energy, Incorporated, where the provided figure is shown as Figure 3.2.2.

3.2.3 VMPs

The VMPs were strategically installed January 13 through 14, 2011, to assist the ROI test, where 786VMP-1, -2 and -3 were respectively 15 ft, 30 ft and 45 ft off the 786SSVM-1 well axis with design placement considering the middle of the well screen, beginning of the well screen and end of the well screen, respectively. The VMPs contain three intervals of depth, a shallow (2 to 2.5 ft bgs), a medium (5 to 5.5 ft bgs) and a deep (10 to 10.5 ft bgs). Drilling logs were recorded and are available in Appendix A.

3.2.4 Vapor Treatment

The regenerative blower was connected inline with a vapor after treatment system consisting of one activated carbon drum.

This page is intentionally left blank.

4 EVALUATION OF CRITERION

The SSVM Pilot Study report focused on the chlorinated solvent contamination in the vicinity of Buildings 785 and 786. This section of the report evaluates the criterion used to meet the goals and objectives of the SSVM pilot study which were to determine the type of system that would be optimal for long term operation along with the effectiveness of which the systems perform.

4.1 Building 785 System

4.1.1 Stepped Rate Test

This test was performed on October 27th, 2010, the field form is attached in Appendix C. The stepped rate test was referenced from the USACE, Engineering Manual 1110-1-4001 (USACE, June 2002). This test is performed to determine the relationship between applied vacuum and the resulting flow rate from an extraction well. This data assists in the design and performance of blower selection to establish vacuums needed to achieve subsurface flow. The stepped rate test was performed on the Building 785 system evaluation of vertical well 785SSVM-2.

The results from the stepped rate test are shown in the graphs, Figure 4.1.1 and Figure 4.1.1 (2). The first graph depicts the minimum flow rate at 4 actual CFM (acfm) with a vacuum of 4 inch w.g. The minimum was obtainable when the air dilution valve was fully opened. The valve was then closed with 1/2 turn revolutions each step. When the valve was fully closed the air flow rate directly from subsurface flow, was the maximum achievable at 27 acfm, with a vacuum of 40 inch w.g. The next graph, Figure 4.1.1 (2), depicts the specific capacity of 785SSVM-2. The specific capacity evaluates well efficiencies at various vacuum/flow conditions. The flow rate was divided by the wellhead vacuum. The downward slop of the curve depicts the frictional loss in the screen due to vapor velocity. The frictional loss is expected to become greater as vacuum increases.

4.1.2 Vacuum Radius of Influence Test

The vacuum ROI test is an empirical approach to determine the outer boundaries of which the building slab is effectively being depressurized to enhance volatilization and extraction of the contaminants in the soil. Sufficient vacuum has been determined to be 0.1 inch w.g. The ROI assists in the design and placement of extraction wells because there should be an overlap in the ROI completely covering the entire building slab.

The ROI test was performed on 785SSVM-1 on October 6th, 2010. The ROI test was performed as a constant rate test. The constant rate measured at the well head was a flow rate of 26 acfm and a vacuum of 40 in w.g. After 300 minutes of operation, the vacuum at the well head increased to 42 inch w.g. The ROI test as performed on 785SSVM-2 on November 4th, 2011.

This test was also performed as a constant rate test. The constant rate measured at the well head was a flow rate of 22 acfm and a vacuum of 34 in w.g.

The VMPs were used as vacuum measurement points, where a Magnehelic® gauge was used for vacuum readings. For each test the vacuum was measured incrementally with time.

The figures, Figure 4.1.2 and 4.1.2(2) depict the results from the ROI test. Figure 4.1.2, ROI test on 785SSVM-1, shows sufficient vacuum at all VMPs. 785VMP-2S was on the threshold of having a sufficient vacuum. This shallow VMP is placed in the building however next to the boundary where the concrete slab meets the unsealed soil. There is vacuum loss due to air being pulled from the least path of resistance. Figure 4.1.2(2), ROI test on 785SSVM-2, shows sufficient vacuum at all VMPs except for 785VMP-2S. There is vacuum loss due to the same scenario described above. From this data an effective ROI can be interpreted as 65 ft where the concrete slab is contiguous, and 20 ft where the concrete slab is in boundary with unsealed soil. The ROI test assists in the design and placement of the extraction wells.

4.1.3 VMP Sub-Slab Sampling

The Draft-Final SSVM Pilot Study WP (FPM, October 2010) specifies a set of sampling events to evaluate sub-slab vapor mitigation. All results are located in Table 2, SSVM Pilot Study Results Table. A baseline sample was collected prior to system start-up at each newly installed VMP location. This baseline sample provides comparison data to the 1 week burn in and 2 month sampling event. The baseline sampling event was on October 6, 2010 with results of TCE above the sub-slab vapor screening level at 785VMP-2 and -3 (1300 and 3600 $\mu g/m^3$ respectively). 785VMP-1 had results for TCE below sub-slab vapor screening level at 370 $\mu g/m^3$**.**

After the baseline sample the SVE system was started for evaluation during start up and burn in phase. 785SSVM-1 was the only extraction well that received applied vacuum for this initial start up and burn in phase. After 12 days of operation another sampling event occurred on October 18, 2010 where TCE vapor results indicated a decreasing trend. 785VMP-3 had results for TCE vapor above screening level at 940 $\mu g/m^3$. 785VMP-1 had a result for TCE below sub-slab vapor screening level at 1.4 $\mu g/m^3$. TCE was not detected in 785VMP-2.

785SSVM-1 extraction well was operated for a total of 3 weeks and turned off. Following the operation of 785SSVM-1, 785SSVM-2 extraction well was operated for 3 weeks and the last sampling event occurred on December 2, 2010. The results continued to indicate a decreasing trend where all results were below screening levels. 785VMP-1, -2, and -3 indicated results for TCE respectively at 6 $\mu g/m^3$, 15 $\mu g/m^3$ and 170 $\mu g/m^3$.

All sampling events were documented on soil gas sampling field forms and recorded on a Chain of Custody (COC) for tracking. The field forms are located in Appendix C, the raw lab data is located in Appendix D, and the validated data is located in Appendix E.

4.1.4 Vapor Treatment Sampling

The effectiveness of the vertical extraction wells at removing soil gas vapors from the sub-surface and the ability to treat the soil gas vapors with activated carbon is evaluated based on influent and effluent sampling. An influent sample was collected during the initial start up of 785SSVM-1 extraction well, on October 6, 2010, where the sample was grabbed before carbon treatment. There were high photoionization detector (PID) levels associated with this sample (58 ppm), and the designated laboratory (Centek Laboratories, LLC) informed FPM that during sample analysis a high level of methyl ethyl ketone was detected above the set calibration curve, therefore analytical results were unobtainable. Methyl ethyl ketone is from PVC glue which was used during the construction of the Building 785 vertical SVE system. An effluent sample was collected on the same date, where the sample was grabbed after carbon treatment. The analytical results indicated all results below screening levels; however methyl ethyl ketone and TCE were detected at 130 $\mu g/m^3$ and 7.3 $\mu g/m^3$ respectively.

All sampling events were documented on soil gas sampling field forms and recorded on a Chain of Custody (COC) for tracking. The field forms are located in Appendix C, the raw lab dated is located in Appendix D, and the validated data is located in Appendix E.

4.1.5 Feasibility of Design

Building 785 is used by the county airport for commercial and industrial purposes. The purposes include storage of heavy equipment and salt and sand for winter melt. There is heavy traffic within the building. Constraints on the SSVM design included the current / future use of the building.

The pilot study provided achievable ROI from the vertical extraction wells. During the ROI test it was observed that a vertical extraction well screened from 5 to 10 ft bgs achieved a ROI of 65 ft where the concrete slab is contiguous, and 20 ft where the concrete slab is in boundary with unsealed soil. Therefore design and placement was configured as shown in Figure 3-1. A total of 12 vertical extraction wells are needed to adequately depressurize the building slab with interlocking ROI. To ensure the same activities can be performed by the county airport that currently exist in the building, the design and install of the vertical extraction wells would include underground trenching so all valves and headers are buried.

4.2 Building 786 System

4.2.1 Stepped Rate Test

This test was performed on January 19, 2011 where the field form is attached in Appendix C. The stepped rate test was referenced from the USACE, Engineering Manual 1110-1-4001 (USACE, June 2002). This test is performed to determine the relationship between applied vacuum and the resulting flow rate from an extraction well. This data assists in the design and performance of blower selection to establish vacuums needed to achieve subsurface flow. The stepped rate test was performed on the Building 786 system evaluation of extraction well 786SSVM-1.

The results from the stepped rate test are shown in the graphs, Figure 4.2.1 and Figure 4.2.1 (2). The first graph depicts a minimum flow rate at 90.5 actual CFM (acfm) with a vacuum of 40 inch w.g. The minimum was obtainable when the air dilution valve was fully opened. The valve was then closed with 1/2 turn revolutions each step. When the valve was fully closed the air flow rate directly from subsurface flow, was the maximum achievable at 161.4 acfm, with a vacuum of 78.5 inch w.g. The next graph, Figure 4.2.1 (2), depicts the specific capacity of 786SSVM-1. The specific capacity evaluates well efficiencies at various vacuum/flow conditions. The flow rate was divided by the wellhead vacuum. The downward slop of the curve depicts the frictional loss in the screen due to vapor velocity. The frictional loss is expected to become greater as vacuum increases.

4.2.2 Vacuum Radius of Influence Test

The vacuum ROI test is an empirical approach to determine the outer boundaries of which the building slab is effectively being depressurized to enhance volatilization and extraction of the contaminants in the soil. Sufficient vacuum has been determined to be 0.1 inch w.g. The ROI assists in the design and placement of extraction wells because there should be an overlap in the ROI completely covering the entire building slab.

The ROI test was performed on 786SSVM-1 on January 21, 2011. The ROI test was performed as a constant rate test. The constant rate measured at the well head was a flow rate of 167.7 acfm and a vacuum of 78 in w.g. This observed maximum flow rate was slightly higher then the observed maximum flow rate during the stepped rate test.

The VMPs were used as vacuum measurement points, where a magnehelic® gauge was used for vacuum readings. For each test the vacuum was measured incrementally with time.

The figure, Figure 4.2.2 depicts the results from the ROI test. The ROI test on 786SSVM-1 shows sufficient vacuum at VMP-1 and -3. VMP-3 was the worse case scenario where the VMP was placed at the end of the well screen off axis by 45 ft. VMP-2 did not show sufficient vacuum. Discussion concluded that VMP-2 did not show sufficient vacuum attributed to

building construction, including cracks in the slab. From this data an effective ROI can be interpreted at 45 ft or greater (more than sufficient vacuum was observed at 45 ft).

4.2.3 VMP Sub-Slab Sampling

The Draft-Final SSVM Pilot Study WP (FPM, October 2010) specifies a set of sampling events to evaluate sub-slab vapor mitigation. All results are located in Table 2, SSVM Pilot Study Results Table. A baseline sample was collected prior to system start-up at each newly installed VMP location. The baseline sampling event was on January 18, 2011 with results of TCE above the sub-slab vapor screening level at 786VMP-1, -2 and -3 (4,900, 740, and 2,200 µg/m^3 respectively). 786VMP-1 also had results above the sub-slab vapor screening level for of PCE at 140 µg/m^3.

After the baseline sample the SVE system was started for evaluation during start up and burn in phase. The start up during the cold month of January resulted in a component in the SVE system called the moisture knock-out tank to freeze, thus constricting flow. Therefore the system was shut off and an enclosure was built around the blower unit and accessories, including a heater with a thermostat. The pilot study was completed at that time due to time constraints and no other sampling events were conducted.

All sampling events were documented on soil gas sampling field forms and recorded on a COC for tracking. The field forms are located in Appendix C, the raw lab data is located in Appendix D, and the validated data is located in Appendix E.

4.2.4 Vapor Treatment Sampling

The effectiveness of the horizontal extraction well at removing soil gas vapors from the sub-surface and the ability to treat the soil gas vapors with activated carbon is evaluated based on influent and effluent sampling. An influent sample was collected during the initial start up of 786SSVM-1 extraction well, on January 21, 2011, where the sample was grabbed before carbon treatment. Analytical results showed both TCE (27,000 µg/m^3) and PCE (600 µg/m^3) above sub-slab vapor screening levels. An effluent sample was collected on the same date, where the sample was grabbed after carbon treatment. The analytical results indicated all results below screening levels; however TCE and PCE were detected at 29 µg/m^3 and 1.0 µg/m^3 respectively.

All sampling events were documented on soil gas sampling field forms and recorded on a COC for tracking. The field forms are located in Appendix C, the raw lab data is located in Appendix D, and the validated data is located in Appendix E.

4.2.5 Feasibility of Design

Building 786 is used by the county airport for commercial and industrial purposes. The purposes include storage of heavy equipment and miscellaneous tooling. There is heavy traffic within the building. Constraints on the SSVM design included the use of the building.

The pilot study provided achievable ROI from the horizontal extraction well. During the ROI test it was observed that a horizontal extraction with a 160 ft screen at 10 ft bgs achieved a ROI of 45 ft or greater. The width of the building is 120 ft; therefore a ROI of 60 ft would be adequate to depressurize the entire building slab. Based on the effectiveness of one horizontal extraction well, the current design and placement is considered sufficient. The horizontal well design does not interfere with the current use of the building because all piping and valving is buried underground.

4.3 Conclusion and Recommendations

The Pilot Study was a successful evaluation of the potential for SVE systems to mitigate sub-slab soil gas vapors and protect human receptors from SVI. The results of this Pilot Study support the design for full scale implementation of SVE systems at Buildings 774, 776, 785 and 786. Full scale SVI mitigation at these buildings is recommended through sub-slab depressurization using horizontal wells. The systems will include a regenerative blower capable of having a flow rate of 1 cfm per screened foot and a vacuum to adequately overcome the vacuum drop of the entire system. The systems will also include vapor treatment with activated carbon.

The horizontal well design is favorable based on use of the buildings. All buildings have industrial/commercial use. Building 785 and 786 are witness to heavy vehicle traffic while Buildings 774 and 776 are office settings. One horizontal well proved sufficient at Building 786 and this is recommended for Building 785. For Building 774 and 776, it is recommended that building footprints are considered for design configuration to determine the number and placement of horizontal wells to be installed.

5 REFERENCES

Air Force Institute for Operational Health, *Guide for the Assessment of the Vapor Intrusion Pathway,* IOH-RS-BR-SR-2206-0001, February 2006.

Ecology & Environment, Inc., *Final Soil Vapor Intrusion Survey Data Summary Report for Apron 2, Building 817/WSA, Building 775, and AOC 9,* Former Griffiss Air Force Base, Rome, New York, August 2007.

FPM Group Ltd, *Draft-Final Work Plan for Sub-Slab Vapor Mitigation Pilot Study,* Former Griffiss Air Force Base, Revision 1.0, October 2010.

FPM Group Ltd, *Assumptions and Screening Levels for Soil Vapor Intrusion Evaluation, Industrial/Commercial Scenario,* Revision 0.1, October 2007.

FPM Group Ltd, *Final Work Plan for Soil Vapor Intrusion Sampling at Multiple Sites,* former Griffiss Air Force Base, Revision 0.0, April 2008.

FPM Group Ltd., *Field Sampling Plan,* Long Term monitoring Program, former Griffiss Air Force Base, Revision 3.0, March 2005.

FPM Group Ltd., *Draft Spring 2010 Annual Report Performance Monitoring at On-Base Groundwater Area of Concern,* Former Griffiss Air Force Base, Rome, NY, January

New York State Department of Health, *Guidance for Evaluating Soil Vapor Intrusion in the State of New York, Public, Final*, October 2006.

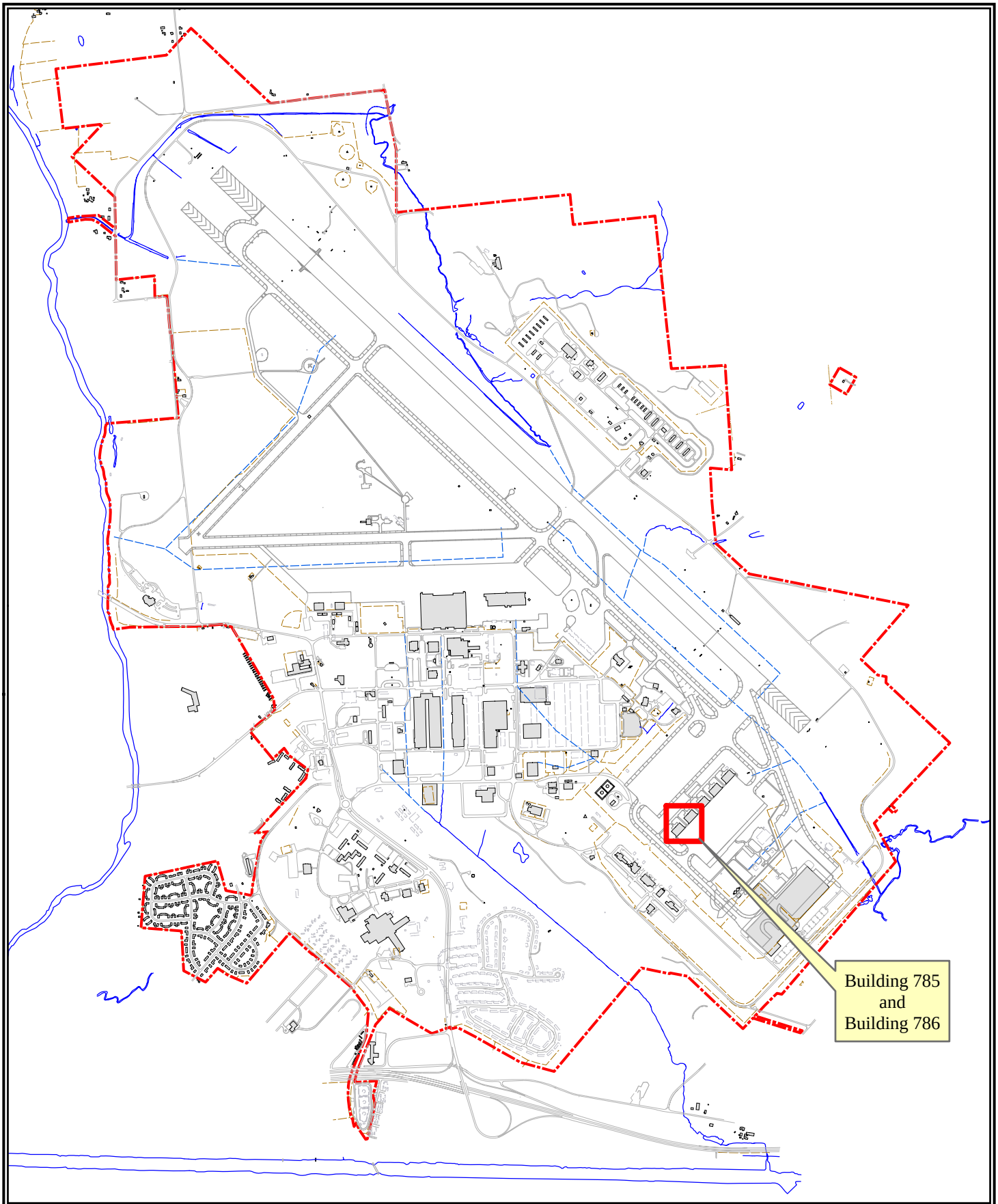
United States Environmental Protection Agency, *How to Evaluate Alternative Cleanup Technologies for Underground Storage Tank Sites: A Guide for Corrective Action Plan Reviewers*, October 1994.

United States Environmental Protection Agency, *Soil Vapor Extraction Technology: Reference Handbook.* Cincinnati, OH: Office of Research and Development. EPA/540/2-91/003, 1991.

United States Army Corps of Engineers, *Soil Vapor Extraction and Bioventing Engineer Manual (EM-1110-1-4001),* 3 June 2002.

This page is intentionally left blank.

FIGURES



Site Location

Key to Features

- Road
- Airfield
- Base Boundary
- Fenceline
- Storm Drain
- Surface Water
- Demolished Facilities
- Existing Facilities

FIGURE 1-1
BUILDINGS 785 AND 786
SITE LOCATION MAP

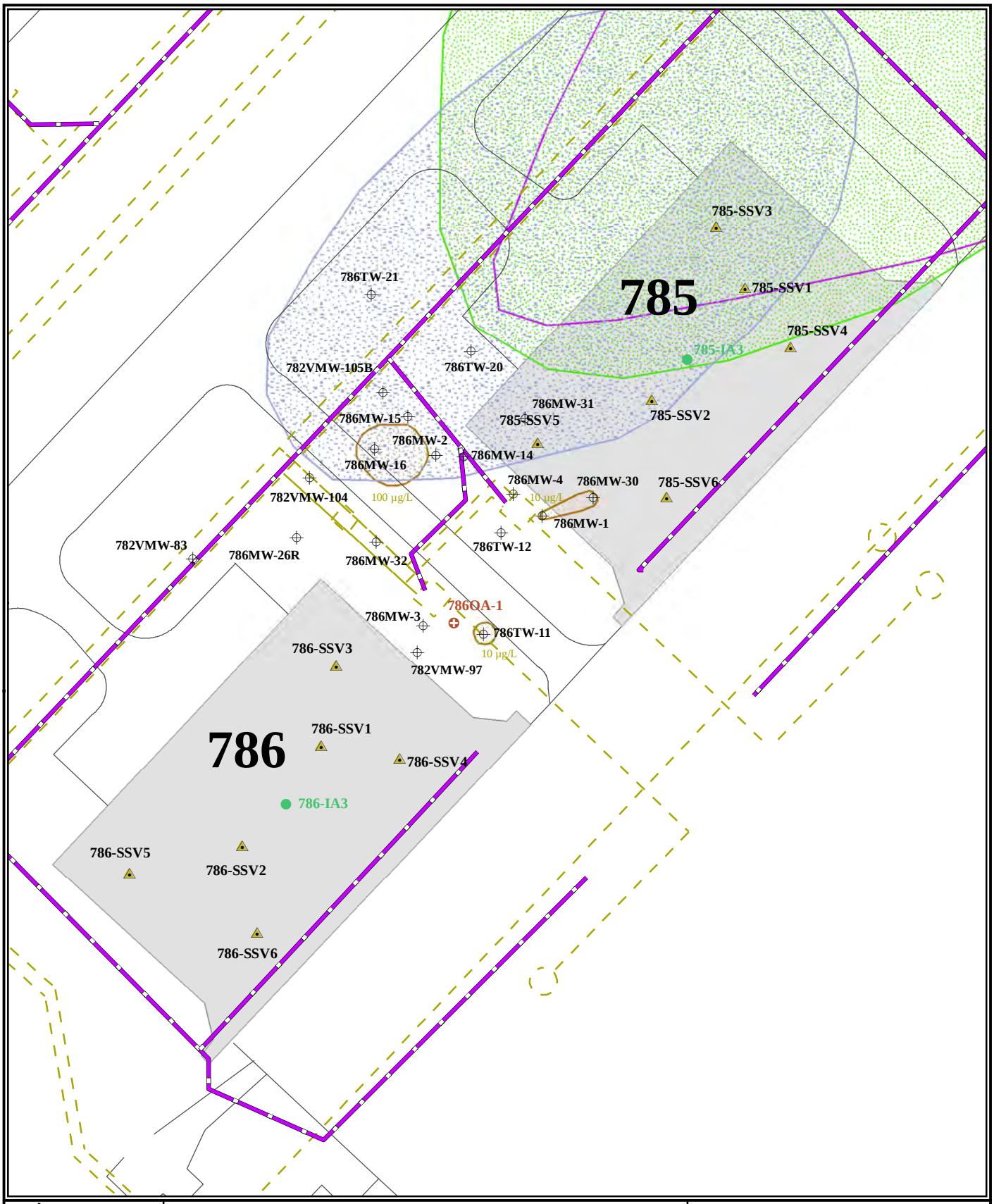
N

790 395 0 790 1,580
Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME,NEW YORK

FPM Remediations, Inc.

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Pilot_Study_WP\Fig_1_2_SiteLocMap_9_1.mxd



Site Location

Key to Features

- Indoor Sample
- Outdoor Sample
- Subslab Sample
- Monitoring Well
- Pipeline
- Airfield
- Washwaste System
- Petroleum Plume
- TCE 5 µg/L June 2009
- cis-1,2-DCE 5 µg/L June 2009
- VC 2 µg/L June 2009
- Existing Facility

50 25 0 50
Feet

N

FIGURE 2-1
BUILDING 785 & 786
SITE FEATURES

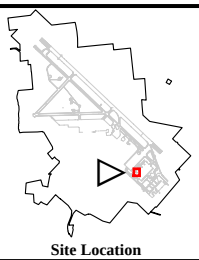
UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

January 22, 2010

FPM

Y:\GIS_Projects\Griffiss\Projects\40-07-45\Conc_Design\Fig_3_2_785_786_Site_Features.mxd





Site Location

Legend

- New Wells
- Exsiting Wells
- Vapor Monitoring Point
- Riser
- Horizontal Pipe
- Existing Facility
- Road

FIGURE 3-1
Buildings 786 and 786
SSVM Systems

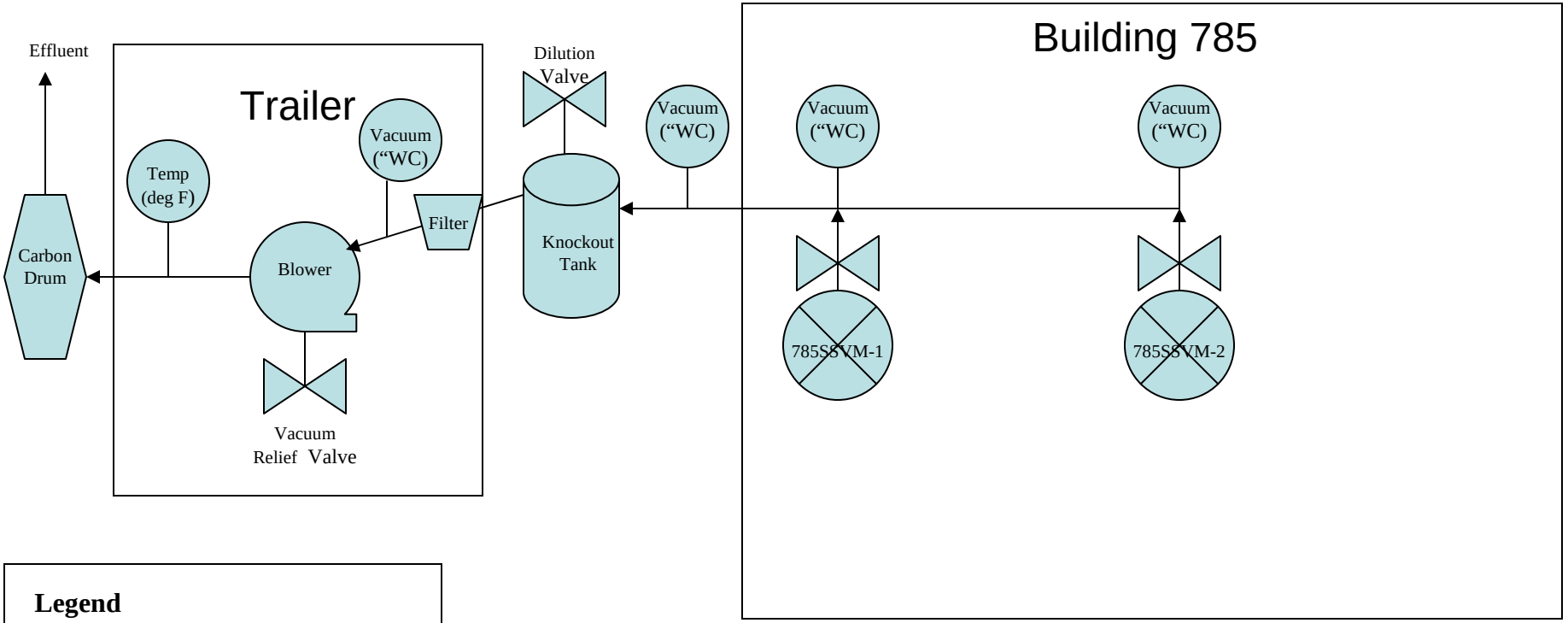
N

40 20 0 40 80 Feet

UNITED STATES AIR FORCE
GRIFFISS AIR FORCE BASE
ROME, NEW YORK

FPM Remediations, Inc.

Y:\GIS_Projects\Griffiss\Projects\1000-08-17\SSVM_Pilot_Study_WP\Fig_3_1_update_9_1.mxd



Legend

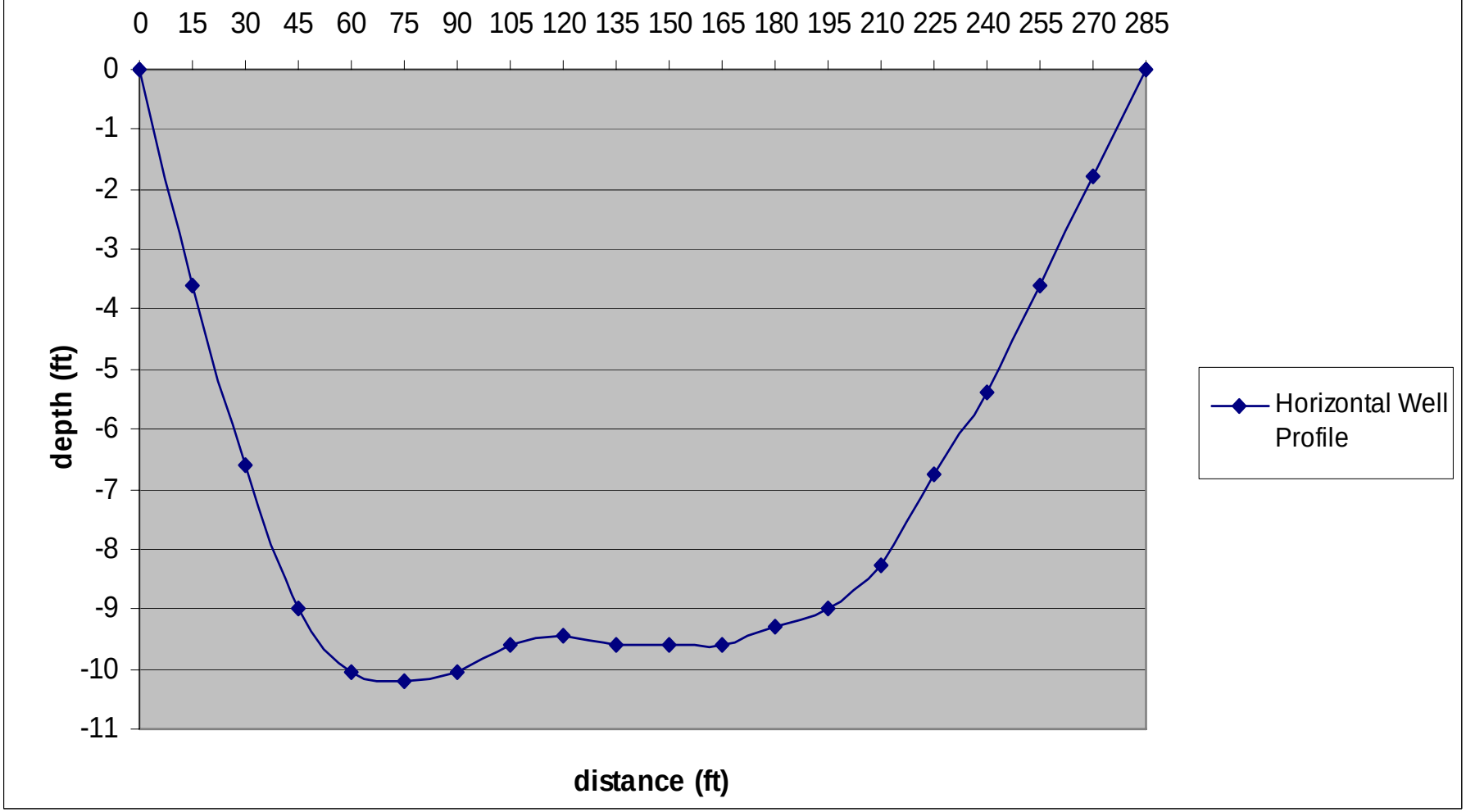
- Vapor Treatment System
- 2 inch PVC piping
- Valve
- Gauge
- GAST Regenerative Blower R4110N-50
- Inline Filter
- 55 Gallon Moisture Knockout Tank
- Sub-Slab Vapor Mitigation Well

Figure 3.1.2
Sub-Slab Vapor Mitigation Pilot Study
Building 785 Blower Configuration

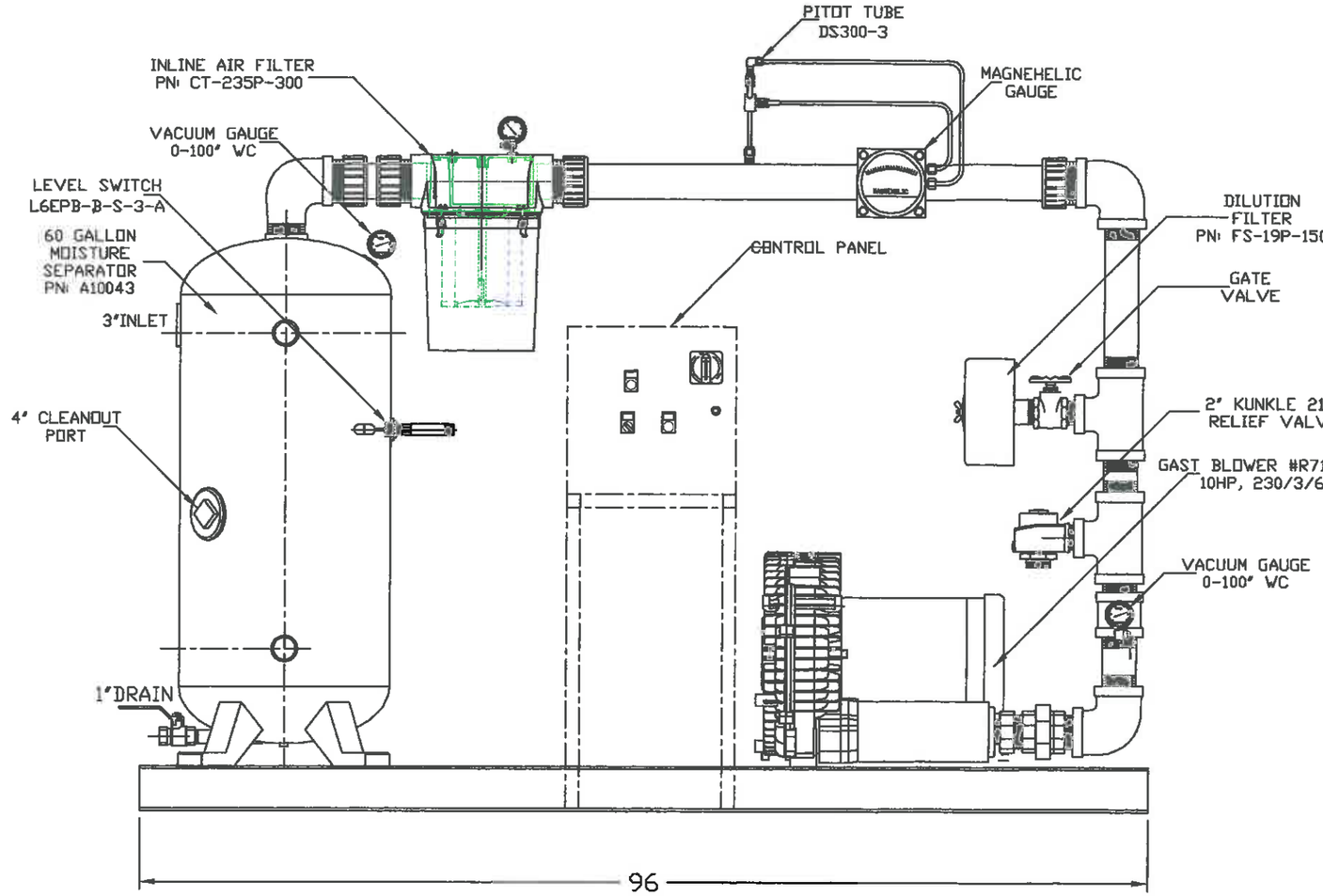
FPM Remediations, Inc.

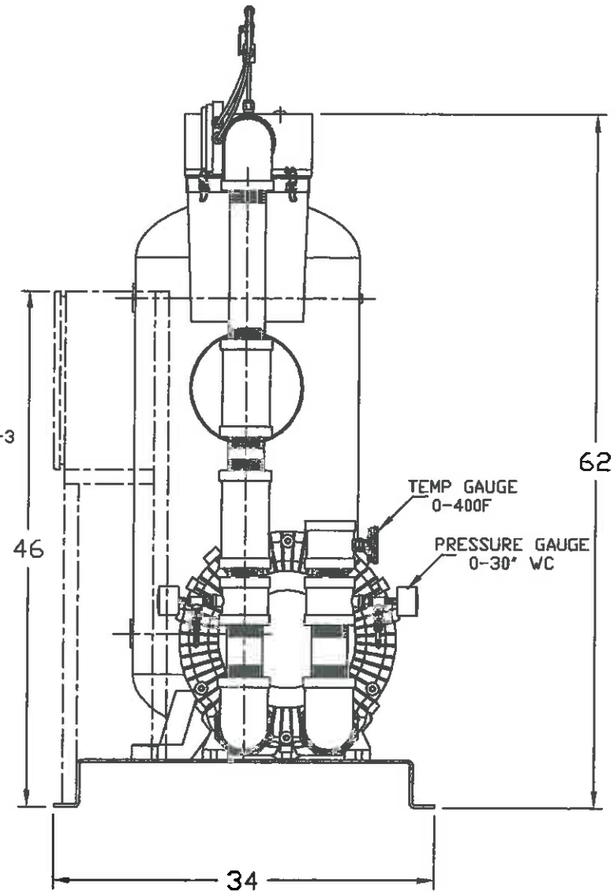
Date: 9/21/2010

Figure 3.2.1 - Building 786 Horizontal Well Profile



REVISIONS			
REV.	DESCRIPTION	DATE	APPR.





CONFIDENTIALITY NOTE:
The information contained in this drawing is intended for use only by Air Energy, Inc. Information is confidential and any copying, distribution or dissemination without the consent of Air Energy, Inc. is strictly prohibited.

DRWN BY AGP	DATE 11/29/10
CHK BY	DATE
APPR BY	DATE

AIR ENERGY, INCORPORATED
6 NORFOLK AVE. SOUTH EASTON, MA

TITLE
VAPOR EXTRACTION SKID LAYOUT

FPM GOUP
BLDG 786, ROME, NY

JOB NO.	SCALE	SIZE	DWG NO.	SHEET	REV
			Figure 3.2.2	1 OF 1	1

Figure 4.1.1 - Stepped Rate Test

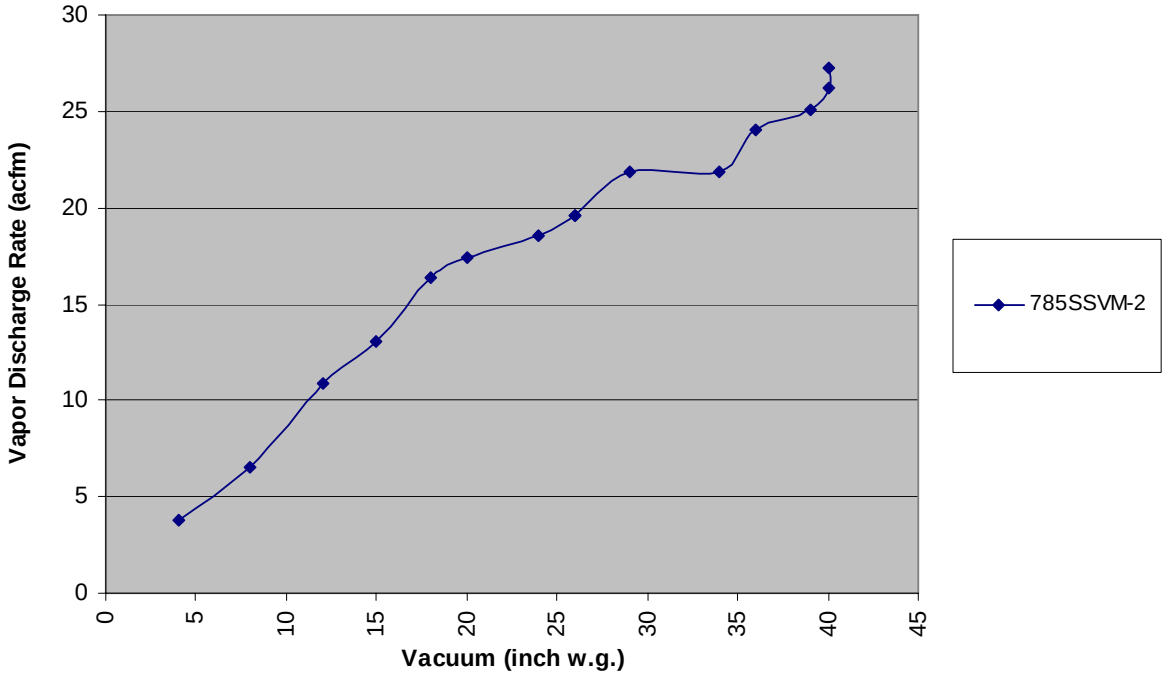


Figure 4.1.1 (2) - Specific Capacity

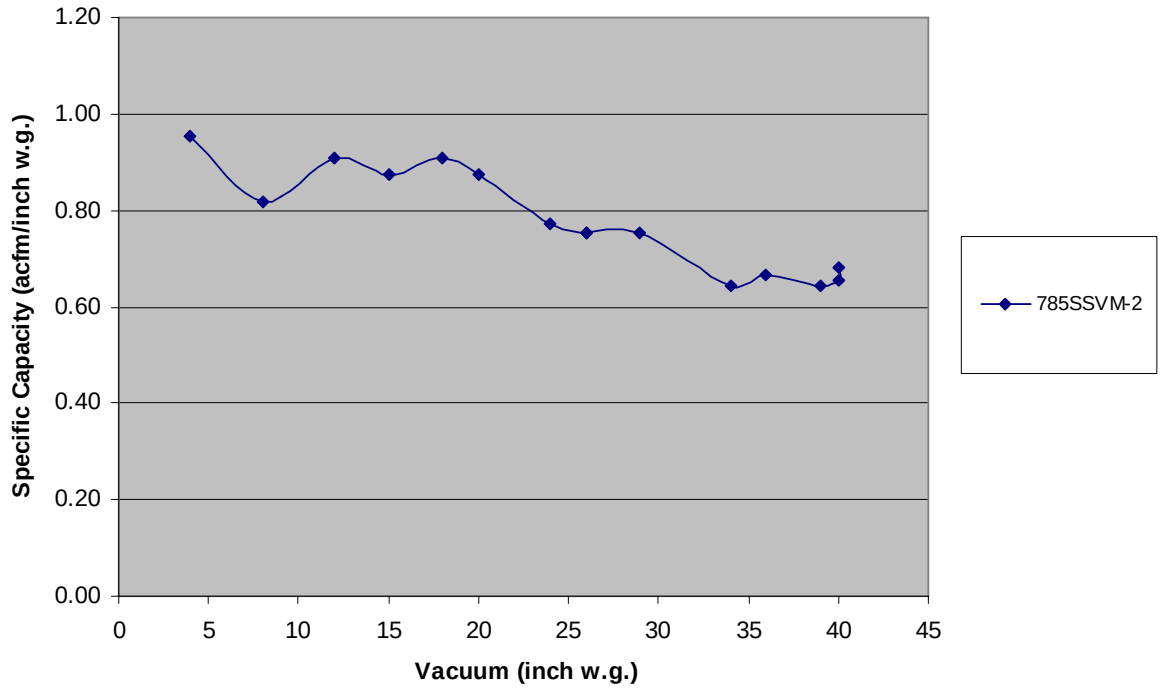


Figure 4.1.2 - ROI Test on 785SSVM-1

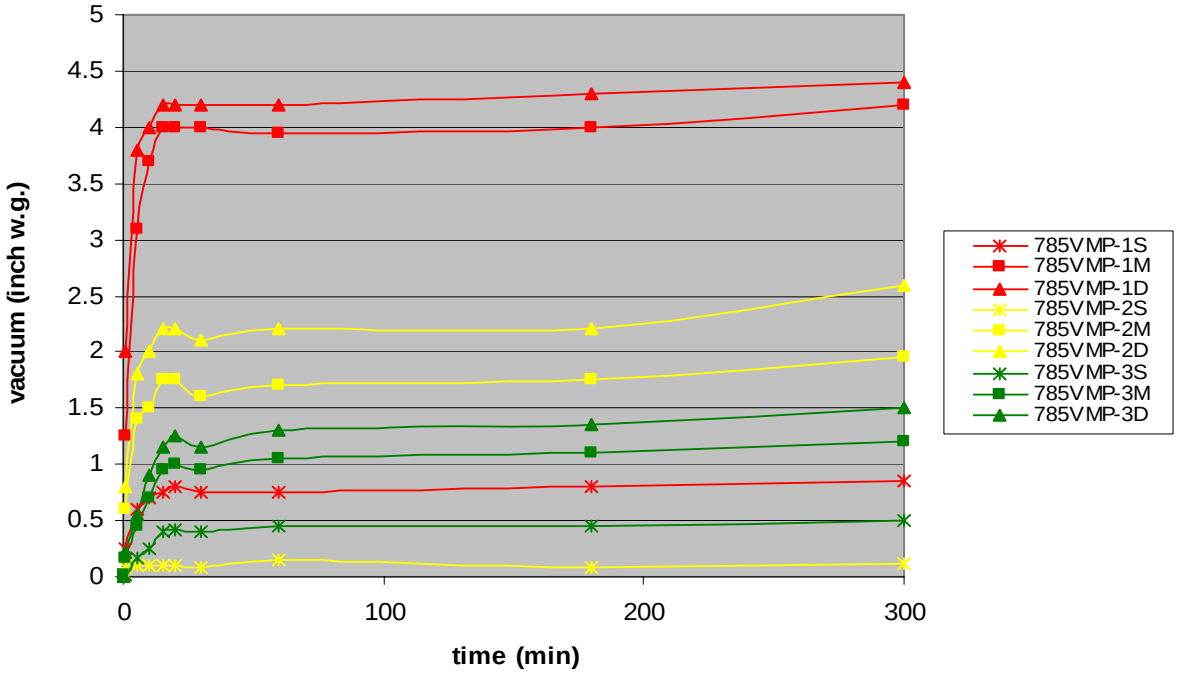
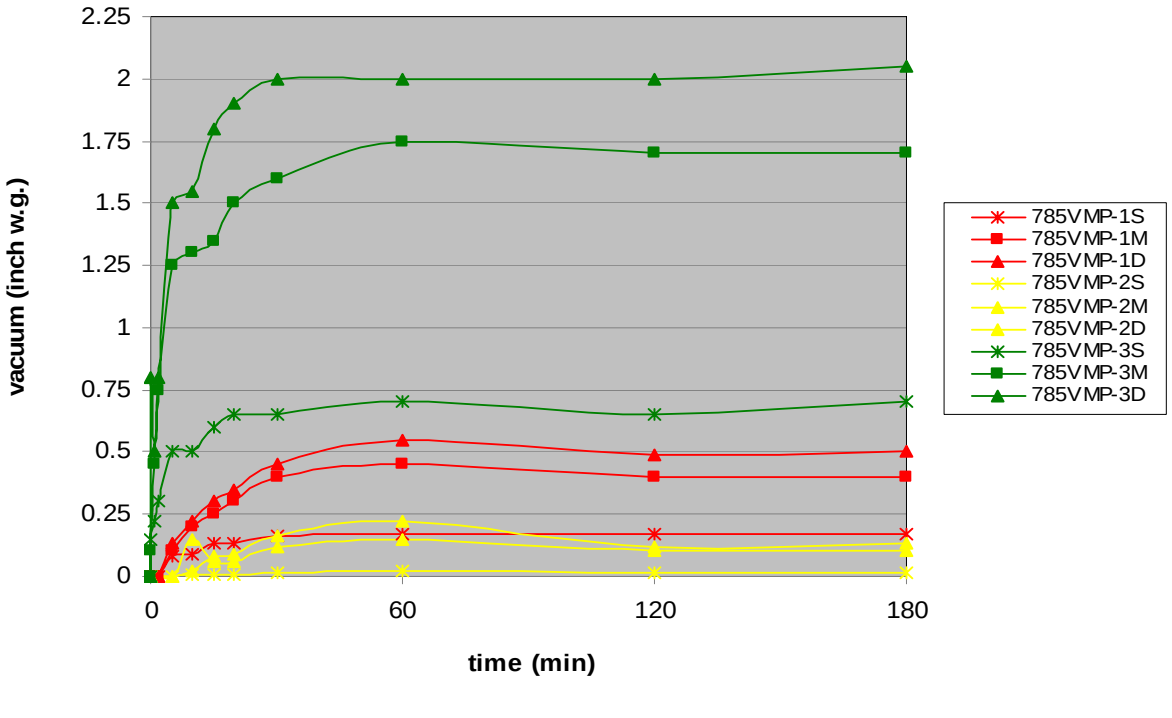
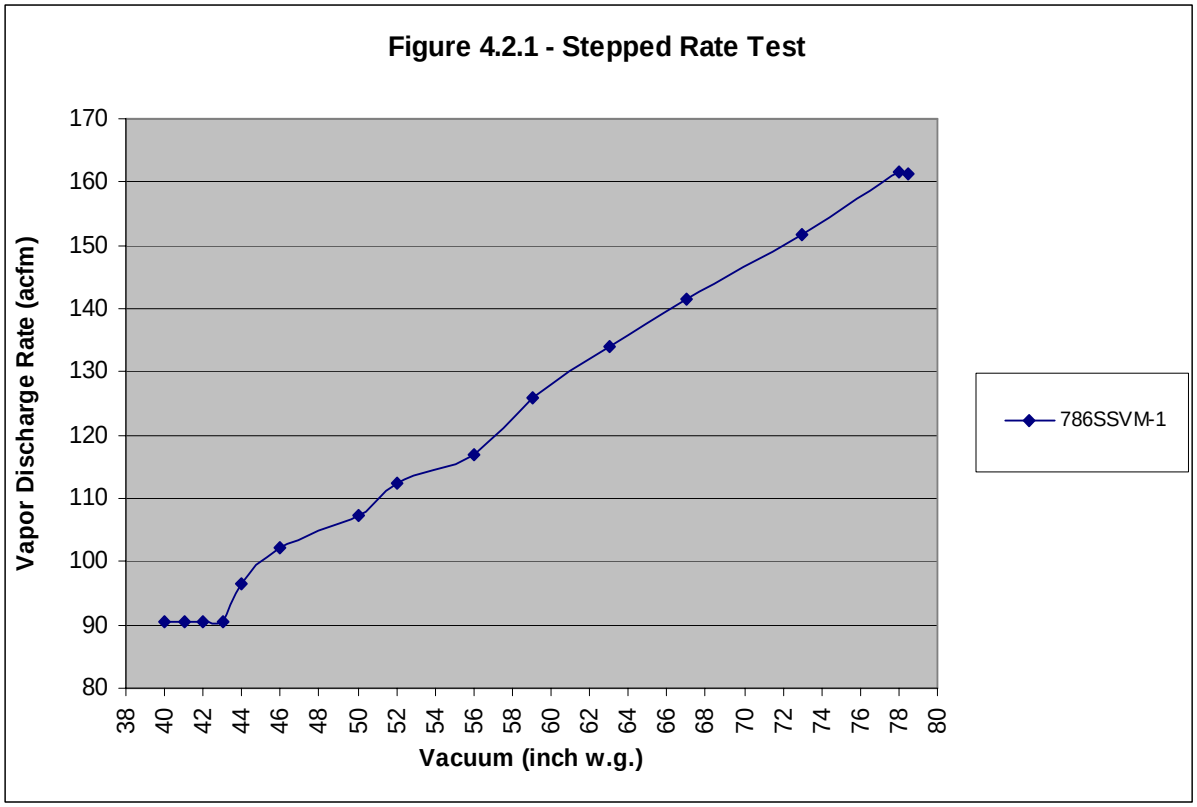
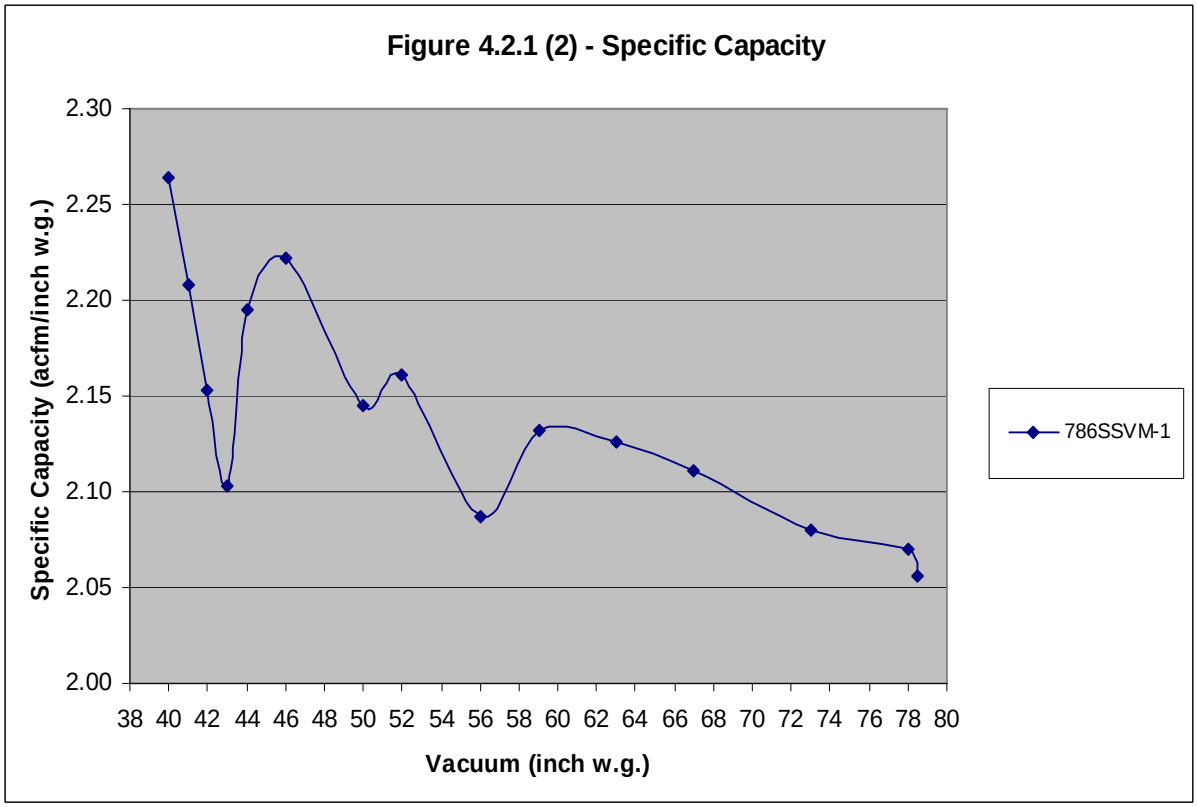
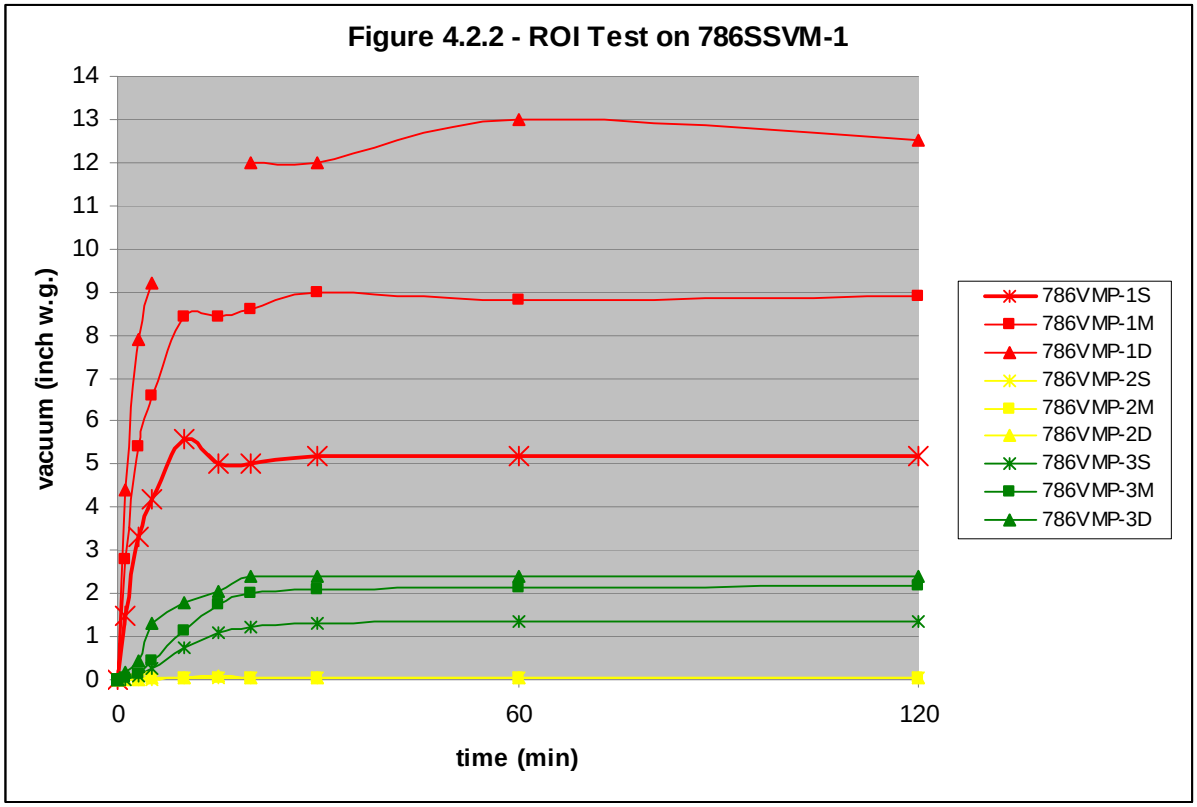


Figure 4.1.2(2) - ROI Test on 785SSVM-2




Figure 4.2.1 - Stepped Rate Test
Vapor Discharge Rate (acfm)
170
160
150
140
130
120
110
100
90
80
38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80
Vacuum (inch w.g.)
786SSVM-1


Figure 4.2.1 (2) - Specific Capacity
Specific Capacity (acfm/inch w.g.)
2.30
2.25
2.20
2.15
2.10
2.05
2.00
38 40 42 44 46 48 50 52 54 56 58 60 62 64 66 68 70 72 74 76 78 80
Vacuum (inch w.g.)
786SSVM-1


Figure 4.2.2 - ROI Test on 786SSVM-1
vacuum (inch w.g.)
14
13
12
11
10
9
8
7
6
5
4
3
2
1
0
0
60
120
time (min)
786VMP-1S
786VMP-1M
786VMP-1D
786VMP-2S
786VMP-2M
786VMP-2D
786VMP-3S
786VMP-3M
786VMP-3D

TABLES

Table 1
SVI Results Table

Sample Location	Sub-slab Vapor Screening Level (µg/m^3)	785SSV-1		785SSV-2		785SSV-3	785SSV-4	785SSV-5	785SSV-6
Sample ID		**B785-SSV1**	**785SSV1BB**	**B785-SSV2**	**785SSV2BB**	**785SSV3BB**	**785SSV4BB**	**785SSV5BB**	**785SSV6BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**17-Apr-2008**	**24-Oct-2006**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**	**17-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in µg/m^3									
1,1,1-trichloroethane	146,000	U	U	U	U	U	U	U	U
1,2,4-trimethylbenzene	175	NA	1.9	NA	2.3	2.9	4.0	3.4	9.0
1,3,5-trimethylbenzene	175	U	0.70 J	U	0.90	1.1	1.6	1.6	3.5
acetone	NA	U	U	U	U	U	U	U	U
allyl chloride (3-chloropropene)	29	U	U	U	U	U	U	U	U
benzene	105	U	10	15	3.5	17	19	14	20
carbon disulfide	20,440	U	U	U	U	U	U	U	U
carbon tetrachloride	55	U	U	U	U	U	U	U	U
chloroform	36	U	U	U	U	U	U	U	U
chloromethane	818	U	U	U	U	U	U	U	U
cis-1,2-dichloroethene	1,022	75	13	U	0.69	0.48 J	14	0.52 J	56.00
cyclohexane	175,200	U	U	U	U	U	U	U	U
ethylbenzene	743	U	1.0	U	1.9	1.8	2.4	3.0	4.0
freon 11	20,440	U	U	U	U	U	U	U	U
freon 113	876,000	U	U	U	U	U	U	U	U
freon 12	5,840	U	U	U	U	U	U	U	U
m,p-xylene (sum of isomers)	2,920	U	2.7	U	4.4	6.3	8.8	10	12 J
methyl ethyl ketone	146,000	U	U	U	U	U	U	U	U
methylene chloride	1,740	U	U	U	U	U	U	U	U
Naphthalene	NA	NA	1.2	NA	1.9	1.2	1.4	1.8	1.6
o-xylene	2,920	U	1.1	U	1.6	1.9	2.8	4.9	3.3
tetrachloroethylene (pce)	139	U	U	U	U	U	U	U	U
tetrahydrofuran	NA	U	U	U	U	U	U	U	U
toluene	146,000	60	5.5	13	5.1	12	18	64	28
trans-1,2-dichloroethene	NA	U	U		U	U	U	U	U
trichloroethylene (tce)	409	11,000	110	2,300	430	220	11	180	2200
vinyl chloride	186	U	U	U	U	U	U	U	U

Notes:

U - Not detected.

F- The result was detected between the MDL and RL.

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

µg/m^3: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 1
SVI Results Table

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**786SSV-1**		**786SSV-2**		**786SSV-3**	**786SSV-4**	**786SSV-5**	**786SSV-6**
Sample ID		**B786-SSV1**	**786SSV1BB**	**B786-SSV2**	**786SSV2BB**	**786SSV3BB**	**786SSV4BB**	**786SSV5BB**	**786SSV6BB**
Sample Type		**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**	**SSV**
Sample Date		**24-Oct-2006**	**18-Apr-2008**	**24-Oct-2006**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**	**18-Apr-2008**
Sample Depth (ft bgs)		**1**	**1**	**1**	**1**	**1**	**1**	**1**	**1**
Sample Collection Duration (hr)	**12**	**8**	**12**	**8**	**12**	**12**	**12**	**12**	**12**
Volatiles (TO-15) in $\mu g/m^3$									
1,2,4-trimethylbenzene	175	NA	3.9	NA	4.8	4.5	4.2	170	4.8
benzene	105	U	29	24 J	21	21	35	36	16
cis-1,2-dichloroethene	1,022	480	230	U	12	1.2	U	3.1	5.4
ethylbenzene	743	U	2.3	U	3.1	2.3	2.9	29	2.3
m,p-xylene (sum of isomers)	2,920	U	9.0	U	8.4	8.9	8.4	91	9.2
Naphthalene	NA	NA	1.3	NA	2.1	2.6	1.2	27	1.5
o-xylene	2,920	U	3.0	U	3.9	2.8	3.8	57	3.0
tetrachloroethylene (pce)	139	2200	70	U	0.97	U	U	57	23
toluene	146,000	U	21	U	14	12	20	75	15
trichloroethylene (tce)	409	81,000	19,000	4,700 J	1,500	69	320	3,600	6,500
vinyl chloride	186	U	U	U	U	U	U	U	U

Notes:

U - Not detected.

F- The result was detected between the MDL and RL.

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

Table 2
SSVM Pilot Study Results Table

Sample Location	Sub-slab Vapor Screening Level ($\mu g/m^3$)	785VMP-1			785VMP-2			785VMP-3			785CA-1
Sample ID		**785VMP0102AA**	**785VMP0102AB**	**785VMP0102AC**	**785VMP0202AA**	**785VMP0202AB**	**785VMP0202AC**	**785VMP0302AA**	**785VMP0302AB**	**785VMP0302AC**	**785CA0100AA**
Sample Type		**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**VMP**	**Effluent**
Sample Date		**6-Oct-2010**	**18-Oct-2010**	**2-Dec-2010**	**6-Oct-2010**	**18-Oct-2010**	**2-Dec-2010**	**6-Oct-2010**	**18-Oct-2010**	**2-Dec-2010**	**6-Oct-2010**
Sample Depth (ft bgs)		**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**2.5**	**NA**
Sample Collection Duration (hr)	**12**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**	**0**
Volatiles (TO-15) in $\mu g/m^3$											
1,1,1-trichloroethane	146,000	3.2	U	U	1.1	U	U	11	U	U	U
1,2,4-trimethylbenzene	175	1.1	0.65 F	U	1.1	0.50 F	U	1.8	0.70 F	U	1
acetone	NA	4.6	2.8	U	3.1	U	1.1	8.9	20	1.1	93
benzene	105	0.81	U	U	0.45	U	U	2.2	0.49	U	U
carbon disulfide	20,440	15	U	0.38 F	1.9	U	U	17	3.4	0.82	U
carbon tetrachloride	55	U	0.70 F	U	U	U	U	U	0.7 F	U	U
chloroform	36	53	U	U	24	U	U	19	1.5	U	U
chloromethane	818	U	0.99	U	U	0.9	U	U	U	U	U
cis-1,2-dichloroethene	1,022	4.50	U	U	2.3	U	U	9.5	1.1	0.6	U
cyclohexane	175,200	3.3	U	U	U	U	U	U	U	U	U
ethylbenzene	743	U	U	U	U	U	U	0.44 J	U	U	U
freon 11	20,440	1.7	1.7	1.3	1.5	1.7	1.2	1.5	1.7	1.3	U
freon 113	876,000	1.5	0.86 F	1.0 F	U	1.0 F	1.0 F	1.6	1.1 F	1.1 F	U
freon 12	5,840	2.4	3	2.4	2.3	3	2.4	2.3	3	2.5	U
m,p-xylene (sum of isomers)	2,920	0.66 F	0.88 F	U	U	0.57 F	U	0.97 J	0.84 F	U	U
methyl ethyl ketone	146,000	0.87 F	U	U	0.63 J	U	U	1.3	0.99	U	130
methylene chloride	1,740	U	U	U	U	U	U	U	1.5	U	U
o-xylene	2,920	U	U	U	U	U	U	0.49 J	U	U	U
tetrachloroethylene (pce)	139	1.7	U	U	0.83 J	U	U	3.5	U	U	U
tetrahydrofuran	NA	14	U	1.7	9.9 J	U	U	U	5.8	U	270
toluene	146,000	1.3	1.4	U	0.54 J	0.96	U	1.4	1.2	U	0.84
trans-1,2-dichloroethene	NA	U	U	U	U	U	U	0.69	U	U	U
trichloroethylene (tce)	409	370	1.4	6	1300	U	15	3600	940	170	7.3
vinyl chloride	186	U	U	U	U	U	U	U	U	U	U

Notes:
U - Not detected.
F- Analyte detectd at or below quantitation limits
J- The analyte was positvely identified, but the quantitation is an approximation.
NA- Not Available
$\mu g/m^3$: microgram per cubic meter.
Exceedance of the indoor or outdoor initial benchmark

Table 2
SSVM Pilot Study Results Table

Sample Location	**Sub-slab Vapor Screening Level ($\mu g/m^3$)**	**786VMP-1**	**786VMP-2**	**786VMP-3**	**786CA-1**	**786CA-2**
Sample ID		**786VMP0102AA**	**786VMP0202AA**	**786VMP0302AA**	**786CA0100AA**	**786CA0200AA**
Sample Type		**VMP**	**VMP**	**VMP**	**Influent**	**Effluent**
Sample Date		**18-Jan-2011**	**18-Jan-2011**	**18-Jan-2011**	**21-Jan-2011**	**21-Jan-2011**
Sample Depth (ft bgs)		**2.5**	**2.5**	**2.5**	**NA**	**NA**
Sample Collection Duration (hr)		**0**	**0**	**0**	**0**	**0**
Volatiles (TO-15) in $\mu g/m^3$						
1,1,1-trichloroethane	146,000	12	15	16	34	U
1,1-dichloroethane	NA	U	U	1.4	U	U
1,2,4-trimethylbenzene	175	7.5	4.5	13	U	0.60 F
1,3,5-trimethylbenzene	175	5.2	1.7	9.9	U	U
2,2,4-trimethylpentane	NA	19	1.8	U	1500 F	1.1
4-ethyltoluene	NA	3.2	0.95	8.1	U	U
acetone	NA	31	49	50	30	230
benzene	105	19	4.6	4.7	2.4	U
bromodichloromethane	NA	4.0	7.4	2.9	U	U
carbon disulfide	20,440	15	5.3	3.1	0.79	U
chloroform	36	30	620	47	290	U
chloromethane	818	U	U	U	U	4.1
cis-1,2-dichloroethene	1,022	9.7	1.4	1.1	64	U
ethylbenzene	743	6.6	1.5	9.8	3.1	U
freon 11	20,440	3.0	2.7	3.2	2.8	U
freon 113	876,000	U	3.7	3.4	2.0	U
freon 12	5,840	3.8	3.5	U	3.4	4.5
heptane	NA	25	5.8	4.7	490	U
hexane	20,440	52	U	U	640	U
m,p-xylene (sum of isomers)	2,920	17	4.8	16	9.2	0.57 F
methyl butyl ketone	NA	U	9.2	7.6	U	U
methyl ethyl ketone	146,000	U	15	19	U	8.2
methyl isobutyl ketone	NA	U	6.7	U	U	U
methylene chloride	1,740	3.8	1.4	U	U	0.46 F
o-xylene	2,920	7.5	2.2	6.2 F	U	U
styrene	NA	U	U	4.8	U	U
tetrachloroethylene (pce)	139	140	11	85	600	1.0
tetrahydrofuran	NA	U	16	36	510	330
toluene	146,000	35	6.7	16	U	1.1
trichloroethylene (tce)	409	4,900	740	2,200	27,000	29
vinyl chloride	186	U	U	U	0.65	0.39

Notes:

U - Not detected.

F- Analyte detectd at or below quantitation limits

J- The analyte was positvely identified, but the quantitation is an approximation.

NA- Not Available

$\mu g/m^3$: microgram per cubic meter.

Exceedance of the indoor or outdoor initial benchmark.

APPENDICES

APPENDIX A
DRILLING LOGS

DRILLING LOG

PAGE 1 OF 1

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. B785SSVM-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

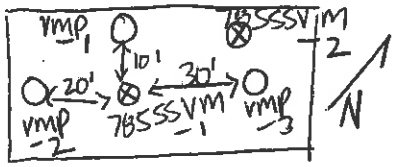
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER Dave Lyons LOG BY D. Force DATE DRILLED 9-14-10

WELL TYPE CODE extraction well

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136749.05 ft

LONGITUDE 1174212.49 ft

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	DESCRIPTION/SOIL CLASSIFICATION 2 inch split spoon DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'		Ø		Concrete - slab is 9" thick
1-3'		Ø	SM	2' Recovery - 1' Brown F-M sand, trace silt w/ gravel
3-5'		Ø	SM	1' Brown F-M sand w/ silt
5-7'		Ø	SM	1.2' Recovery - light Brown - Brown F sand, trace silt, moist
7-9'		Ø	SM	1.5' Recovery - light Brown F- Sand, trace silt, trace gravel
				1.5' Recovery - same as above

WELL CONSTRUCTION

- TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS
- 4.25 IN. DIA. BOREHOLE
- 2 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0 TO 5.5 FT.
- BENTONITE-CEMENT GROUT 1 FT - 2.5 FT
- BENTONITE PELLET SEAL 2.5 TO 5 FT.
- Ø (NAME) (#) SANDPACK 5 TO 11 FT.
- 2 IN. DIA. SLOTTED 0.01 SCREEN 5.5 TO 10.5 FT.
- 2 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT.
- BOTTOM WELL CAP 10.9 FT.
- BOTTOM OF BOREHOLE 11 FT.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-3 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

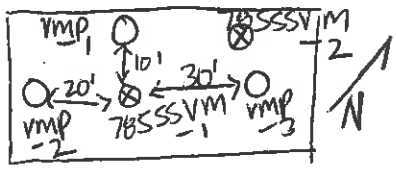
DRILLING COMP. NorthStar DRILLING METHOD HSA

DRILLER Dave Lyons LOG BY D Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring Point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136740.43

LONGITUDE 1174185.77

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1.5		Ø		785VMP-3D	Concrete slab is 14" thick
1.5-3		Ø	SW		1.5' Recovery Brown grey f/c-F sand w/ gravel
3-5		Ø	SW SM		1' Recovery - 3" same as above, 9" light brown F-sand trace silt
5-7		Ø	SM		1' Recovery - same as above
7-9		Ø	SM SW		1.8' Recovery - 9" same as above, 3" C-F Sand and gravel

Well construction: TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS; 6.25 IN. DIA. BOREHOLE; 2 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT.; BENTONITE-CEMENT GROUT TO 0.5 FT.; BENTONITE PELLET SEAL 6 TO 9 FT.; 0 (NAME) (#) SANDPACK; 9 TO 11 FT.; 1 IN. DIA. SLOTTED 0.02 SCREEN; 10 TO 10.5 FT.; 1 IN. DIA. SILT TRAP (EDOT) 10.5 TO 10.9 FT.; BOTTOM WELL CAP 10.9 FT.; BOTTOM OF BOREHOLE 11 FT.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-3 SURFACE ELEV ____

WATER LEVEL INITIAL NA STABILIZED ____

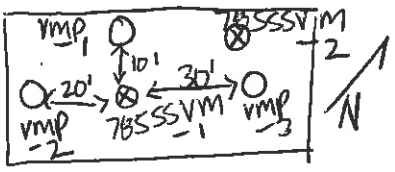
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Forcie DATE DRILLED 9-15-10

WELL TYPE CODE Vapor Monitoring Point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP

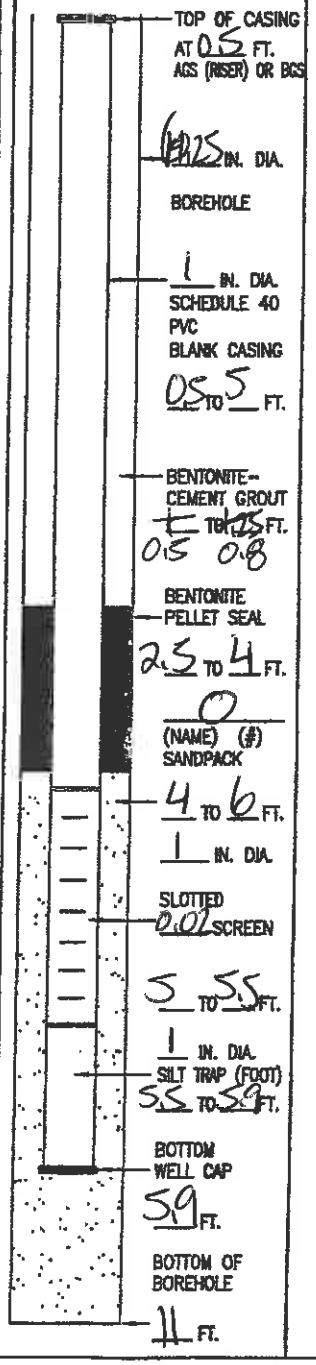


NOTES:

LATITUDE 1136740.43

LONGITUDE 1174185.77

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
				785VMP-3M	2 inch Split Spoon



Refer to sheet 1.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-3 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

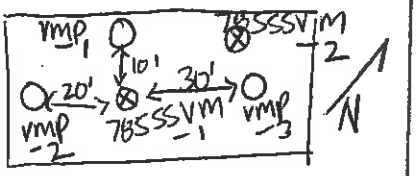
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136740.43

LONGITUDE 1174185.77

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-3S	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS 9.25 IN. DIA. BOREHOLE 1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 2.5 FT. BENTONITE-- CEMENT GROUT 0.5 TO 08 FT. BENTONITE PELLET SEAL 1 TO 1.5 FT. 0 (NAME) (#) SANDPACK 1.5 TO 2.5 FT. 1 IN. DIA. SLOTTED 0.02 SCREEN 2 TO 25 FT. 1 IN. DIA. SILT TRAP (FOOT) 2.5 TO 2 FT. BOTTOM WELL CAP 2.9 FT. BOTTOM OF BOREHOLE 11 FT.	Refer to sheet 1

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B7B5

WELL No. 785VMP-2 SURFACE ELEV

WATER LEVEL INITIAL N/A STABILIZED

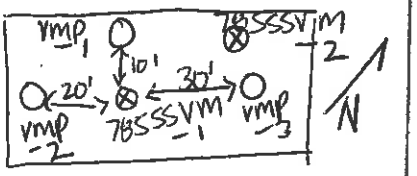
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136728.37

LONGITUDE 1174151.29

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-2D	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS; 6.25 IN. DIA. BOREHOLE	12" thick concrete slab
1-3'		Ø	SW		1.5' Recovery - C-F sand w/ gravel
3-5'		Ø	SM		2' Recovery - light brown F-sand trace silt
5-7'		Ø	SM/SW	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT.	2' Recovery - light brown F-sand trace silt, trace gravel
7-9'		Ø	SW/SW	BENTONITE-CEMENT GROUT 0.5 TO 6.0 FT.	2' Recovery - same as above
				BENTONITE PELLET SEAL 6 TO 9 FT.	
				0 (NAME) (#) SANDPACK 9 TO 11 FT.	
				1 IN. DIA. SLOTTED 0.02 SCREEN 10 TO 10.5 FT.	
				1 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT.	
				BOTTOM WELL CAP 10.9 FT.	
				BOTTOM OF BOREHOLE 11 FT.	

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

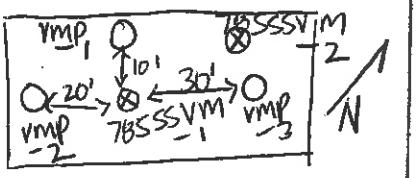
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP

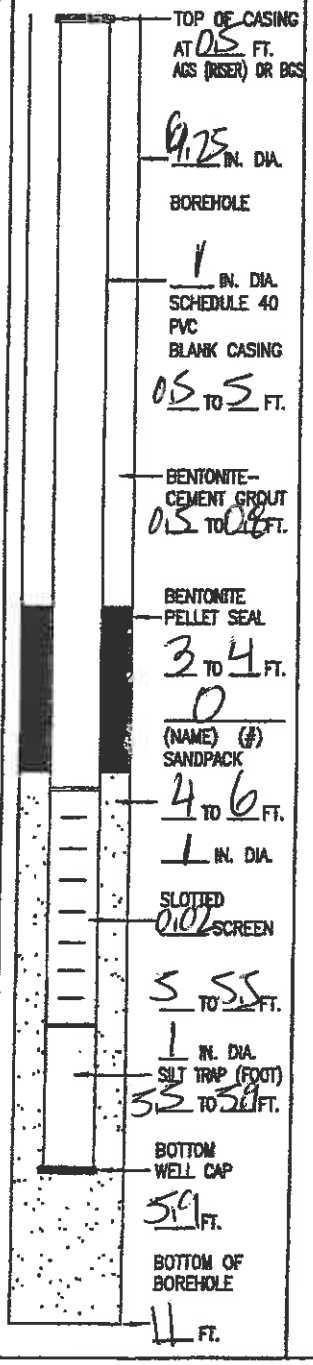


NOTES:

LATITUDE 1136728.37

LONGITUDE 1174151.29

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-2M	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
					Refer to sheet 1



DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

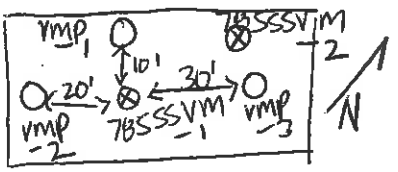
DRILLING COMP. Northstar DRILLING METHOD

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP

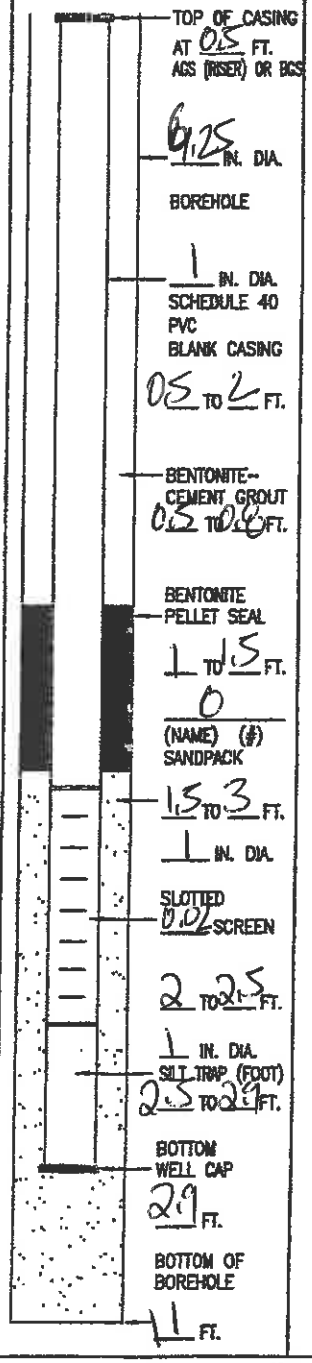


NOTES:

LATITUDE 1136728.37

LONGITUDE 1741512.9

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-2	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
					Refer to sheet 1



DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

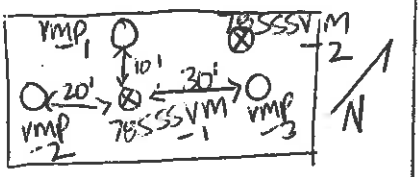
DRILLING COMP Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 11367 16.30

LONGITUDE 1174181.46

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-1D	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	9" thick concrete slab
1-3'		Ø	SW	6.25 IN. DIA. BOREHOLE	1' Recovery - Brown M-F sand w/ gravel and cobbles
3-5'		Ø	SW SW	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT.	1.8' Recovery - light Brown F-Sand trace silt + gravel
5-7'		Ø	SM SW	BENTONITE-CEMENT GROUT 0.5 TO 6 FT.	1.5' Recovery - same as above
7-9'		Ø	SM SW	BENTONITE PELLET SEAL 6 TO 9 FT.	1.5' Recovery - same as Above
				0 (NAME) (#) SANDPACK 9 TO 11 FT.	
				1 IN. DIA. SLOTTED 0.02 SCREEN 10 TO 10.5 FT.	
				1 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT.	
				BOTTOM WELL CAP 10.9 FT.	
				BOTTOM OF BOREHOLE 11 FT.	

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

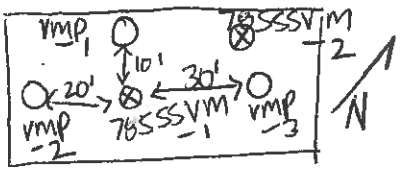
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D Lyons LOG BY D'Fore DATE DRILLED 9-15-10

WELL TYPE CODE Vapor Monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136716.30

LONGITUDE 1174181.46

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION
				785VMP-1M	DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	Refer to sheet 1.
				6.25 IN. DIA. BOREHOLE	
				1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 5 FT.	
				BENTONITE-CEMENT GROUT 0.5 TO 0.6 FT.	
				BENTONITE PELLET SEAL 2.5 TO 4 FT.	
				0 (NAME) (#) SANDPACK 4 TO 6 FT.	
				1 IN. DIA. SLOTTED 0.02 SCREEN 5 TO 55 FT.	
				1 IN. DIA. SILT TRAP (FOOT) 55 TO 59 FT.	
				BOTTOM WELL CAP 59 FT.	
				BOTTOM OF BOREHOLE 11 FT.	

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

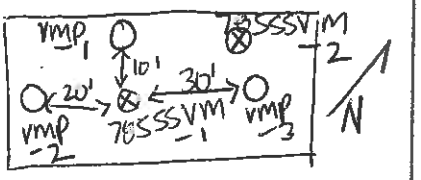
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Pierce DATE DRILLED 9-15-10

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP

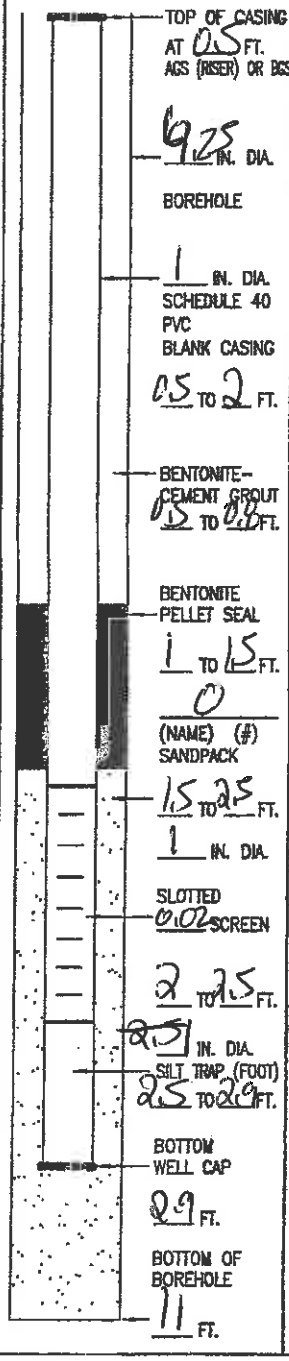


NOTES:

LATITUDE 113716.30

LONGITUDE 1174181.46

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 785VMP-1S	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
					Refer to sheet 1



DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B785

WELL No. 785SSVM-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

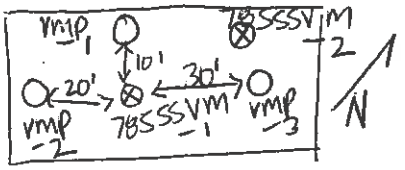
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 9-16-10

WELL TYPE CODE extraction well

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

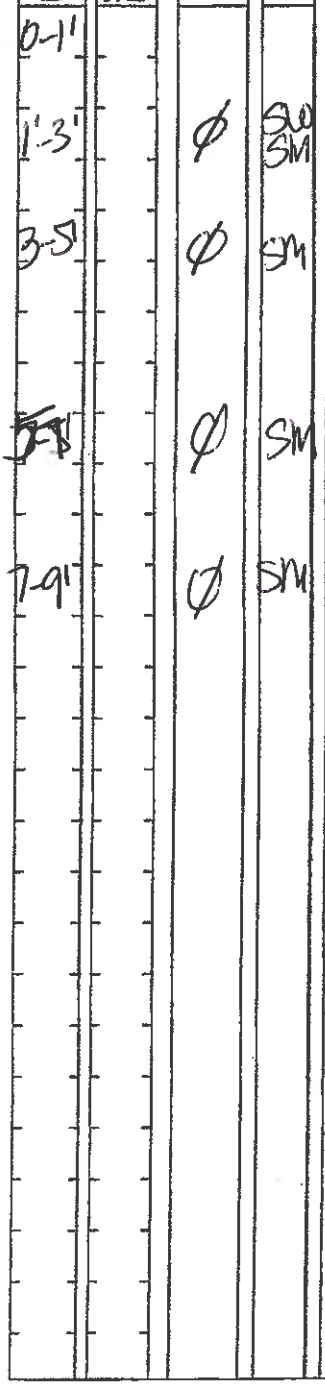
SKETCH MAP

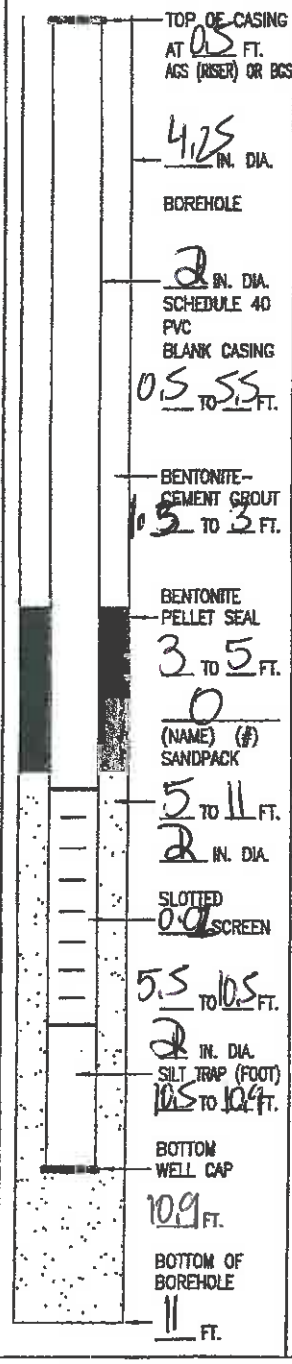


NOTES:

LATITUDE 1136714.57

LONGITUDE 1174167.67





DESCRIPTION/SOIL CLASSIFICATION

DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)

12" thick concrete slab

1.5' Recovery -
Brown F-C sand w/ gravel + silt

1.5' Recovery -
light brown f-sand trace silt

1.8' Recovery - same as above

2' Recovery - same as above

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B786

WELL No. 786VMP-3 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

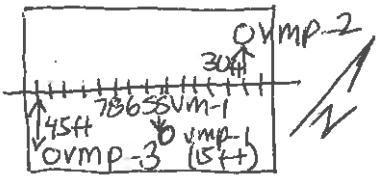
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136527.51

LONGITUDE 1173909.06

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0				14" thick concrete slab
1'				
2.5		4	SM	Brown F- sand trace silt moist.

WELL CONSTRUCTION 786VMP-3D

- TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS
- 6.25 IN. DIA. BOREHOLE
- 1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT.
- BENTONITE-CEMENT GROUT 0.8 TO 1.0 FT.
- BENTONITE PELLET SEAL 6 TO 9 FT.
- 0 (NAME) (#) SANDPACK 9 TO 11 FT.
- 1 IN. DIA. SLOTTED 0.01 SCREEN 10 TO 10.5 FT.
- 1 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT.
- BOTTOM WELL CAP 10.9 FT.
- BOTTOM OF BOREHOLE 11 FT.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Rankonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B786

WELL No. 786VMP-3 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

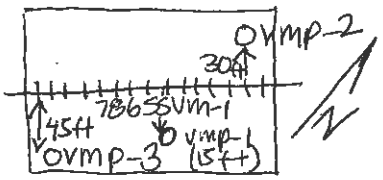
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 136527.51

LONGITUDE 173909.06

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				786VMP-3M	14" thick concrete slab
2-5'		4	SM		brown F - sand trace silt moist

Auger cuttings

WELL CONSTRUCTION:

- TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS
- 6.25 IN. DIA. BOREHOLE
- 1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 5 FT.
- BENTONITE-CEMENT GROUT 0.5 TO 10 FT.
- BENTONITE PELLET SEAL 2.5 TO 4 FT.
- 0 (NAME) (#) SANDPACK 4 TO 6 FT.
- 1 IN. DIA. SLOTTED 0.01 SCREEN 5 TO 55 FT.
- 1 IN. DIA. SILT TRAP (FOOT) 54 TO 56 FT.
- BOTTOM WELL CAP 59 FT.
- BOTTOM OF BOREHOLE 11 FT.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B786

WELL No. 786VMP-3 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

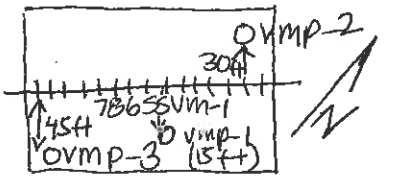
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136527.51

LONGITUDE 1173909.06

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1				TOP OF CASING AT 0.3 FT. AGS (RISER) OR BGS	14" thick Concrete Slab
2-5		4	SM	0.25 IN. DIA. BOREHOLE	Brown F- sand trace Silt moist (Auger cuttings)
				1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 2 FT.	
				BENTONITE-CEMENT GROUT 0.5 TO 1 FT.	
				BENTONITE PELLET SEAL 1 TO 15 FT.	
				0 (NAME) (#) SANDPACK 15 TO 25 FT.	
				1 IN. DIA. SLOTTED 0.01 SCREEN 2 TO 25 FT.	
				1 IN. DIA. SILT TRAP (FOOT) 25 TO 29 FT.	
				BOTTOM WELL CAP 29 FT.	
				BOTTOM OF BOREHOLE 11 FT.	

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-11 SITENAME AND SITEID B786

WELL No. 786VMP-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

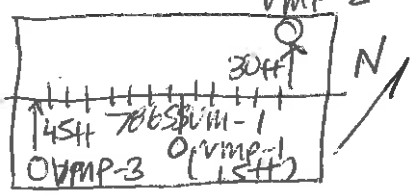
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY P. Force DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136585.27

LONGITUDE 1174072.84

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				786VMP-2D TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	14" thick concrete slab
1-4'		3.5	SM	6.25 IN. DIA. BOREHOLE	f - sand trace silt, moist
4-5'		ML	ML	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT.	F - sand + clay w/ silt
5-10'		SM	SM	BENTONITE-CEMENT GROUT 0.5 TO 1 FT. BENTONITE PELLET SEAL 6 TO 9 FT. 0 (NAME) (#) SANDPACK 9 TO 11 FT. 1 IN. DIA. SLOTTED 0.01 SCREEN 10 TO 10.5 FT. 1 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT. BOTTOM WELL CAP 10.9 FT. BOTTOM OF BOREHOLE 11 FT.	F - sand w/ silt trace clay

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-11 SITENAME AND SITEID B786

WELL No. 786VMP-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

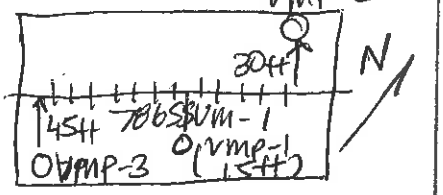
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY PForce DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136585.27

LONGITUDE 1174072.84

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	DESCRIPTION/SOIL CLASSIFICATION (Auger cuttings) DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				14" thick concrete slab
1-4'		3.5	SM	f - sand trace silt, moist
4-5'		ML	ML	F- sand + clay w/ silt
5-10'		SM	SM	F- sand w/ silt trace clay

WELL CONSTRUCTION 786VMP-2M

- TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS
- 6.25 IN. DIA. BOREHOLE
- 1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 5 FT.
- BENTONITE-CEMENT GROUT 0.0 TO 1 FT.
- BENTONITE PELLET SEAL 2.3 TO 4 FT.
- 0 (NAME) (#) SANDPACK 4 TO 6 FT.
- 1 IN. DIA. SLOTTED 0.01 SCREEN 5 TO 5.5 FT.
- 1 IN. DIA. SILT TRAP (EDOT) 5.5 TO 5.9 FT.
- BOTTOM WELL CAP 5.9 FT.
- BOTTOM OF BOREHOLE 11 FT.

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1009-08-11 SITENAME AND SITEID B786

WELL No. 786VMP-2 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

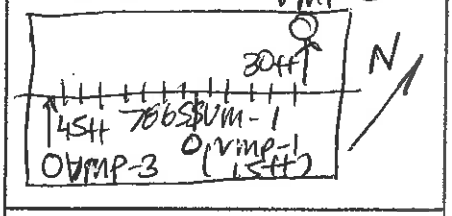
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY DiForce DATE DRILLED 1-13-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136585.27

LONGITUDE 1174072.84

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION 786VMP-2S	DESCRIPTION/SOIL CLASSIFICATION Auger cuttings DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	14" thick concrete slab
1-4'		3.5	SM	6.25 IN. DIA. BOREHOLE	f - sand trace silt, moist
4-5'		ML	ML	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 2 FT.	F- sand + clay w/ silt
5-10'		SM	SM	BENTONITE-CEMENT GROUT .82 TO 1.8 FT.	F- sand w/ silt trace clay
				BENTONITE PELLET SEAL 1 TO 1.5 FT.	
				0 (NAME) (#) SANDPACK 1.5 TO 2.5 FT.	
				1 IN. DIA. SLOTTED .02 SCREEN 2 TO 2.5 FT.	
				1 IN. DIA. SILT TRAP (EODT) 2.5 TO 2.9 FT.	
				BOTTOM WELL CAP 2.9 FT.	
				BOTTOM OF BOREHOLE 11 FT.	

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B786

WELL No. 786VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

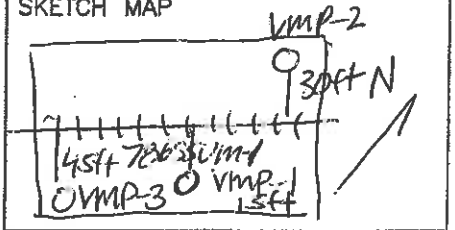
DRILLING COMP. NorthStar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 1-14-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136561.13

LONGITUDE 1173980.61

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION (786VMP-1D)	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	14" Thick concrete slab
1-6'		14	SP	6.25 IN. DIA. BOREHOLE	Brown F-sand trace gravel + silt, moist
6-11'		8	SP	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 10 FT. BENTONITE-CEMENT GROUT 0.5 TO 1 FT. BENTONITE PELLET SEAL 6 TO 9 FT. 0 (NAME) (#) SANDPACK 9 TO 11 FT. 1 IN. DIA. SLOTTED 0.01 SCREEN 10 TO 10.5 FT. 1 IN. DIA. SILT TRAP (FOOT) 10.5 TO 10.9 FT. BOTTOM WELL CAP 10.9 FT. BOTTOM OF BOREHOLE 11 FT.	same as above

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-083-17 SITENAME AND SITEID B786

WELL No. 786VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

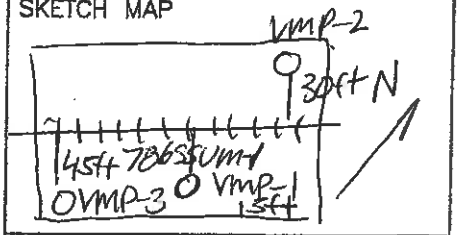
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER D. Lyons LOG BY D. Force DATE DRILLED 1-14-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

LATITUDE 1136561.13

LONGITUDE 1173980.61

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	WELL CONSTRUCTION	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				786VMP-1M TOP OF CASING AT 0.5 FT. AGS (RISER) OR BGS	14" Thick concrete slab
1-6'		14	SP	6.25 IN. DIA. BOREHOLE	Brown F-sand trace gravel, silt, moist
6-11'		8	SP	1 IN. DIA. SCHEDULE 40 PVC BLANK CASING 0.5 TO 5 FT. BENTONITE-- CEMENT GROUT 0.0 TO 4 FT. BENTONITE PELLET SEAL 2.3 TO 4 FT. (NAME) (#) SANDPACK 4 TO 6 FT. 1 IN. DIA. SLOTTED 0.01 SCREEN 5 TO 5.5 FT. 1 IN. DIA. SILT TRAP (FOOT) 5.5 TO 5.6 FT. BOTTOM WELL CAP 5.9 FT. BOTTOM OF BOREHOLE 11 FT.	same as above

DRILLING LOG

FPM Group Ltd. Engineering and Environmental Science

Ronkonkoma New York

PROJECT 1000-08-17 SITENAME AND SITEID B786

WELL No. 786VMP-1 SURFACE ELEV

WATER LEVEL INITIAL NA STABILIZED

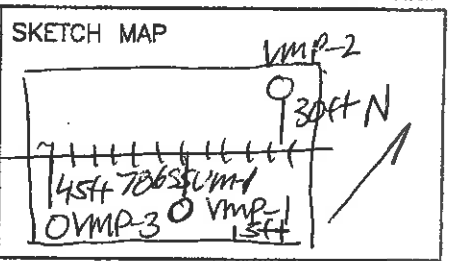
DRILLING COMP. Northstar DRILLING METHOD HSA

DRILLER P. Lyons LOG BY D'Forde DATE DRILLED 1-14-11

WELL TYPE CODE Vapor monitoring point

☒ FLUSH MOUNT ☐ STEEL STANDPIPE (DETAILS LISTED BELOW)

SKETCH MAP



NOTES:

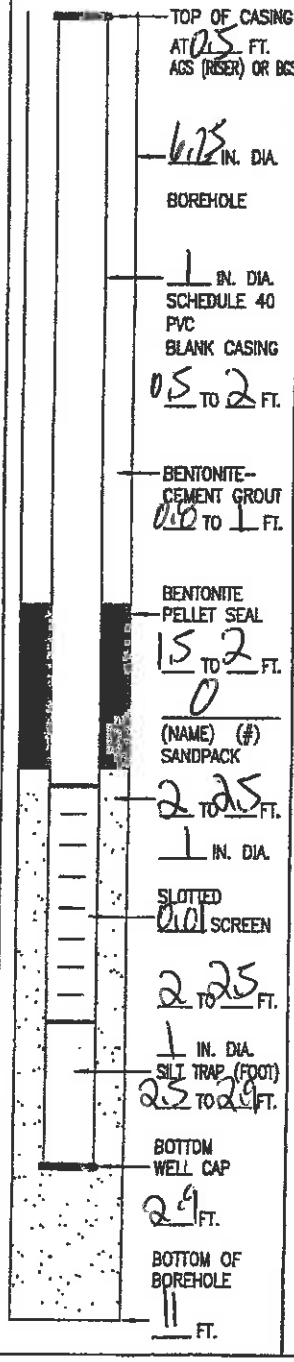
LATITUDE 1136561.13

LONGITUDE 1173980.61

DEPTH (FT.)	SOIL SAMPLE INTERVAL	ORGANIC VAPORS (ppm)	LITHOLOGY	DESCRIPTION/SOIL CLASSIFICATION DEPTH REC (COLOR, CLASS, MOISTURE CONTENT, STIFFNESS)
0-1'				14" thick concrete slab
1-6'		14	SP	Brown F-sand trace gravel, silt, moist
6-11'		8	SP	same as above

WELL CONSTRUCTION

786VMP-1S



APPENDIX B
RWPCF DOCUMENTATION

FPM remediations — Engineering and Environmental Science

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: December 13, 2010

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Request at Building 786 (nosedock 5) Griffiss Business and Technology Park, Rome, New York.

FPM is requesting the temporary discharge of drilling development water from the Building 786 horizontal well installment to the sewer system on Griffiss Business and Technology Park that connects to the City of Rome Water Pollution Control Facility. The horizontal well was installed at 10 feet below grade, as part of a soil vapor extraction system. This site has been monitored for over 10 years, and the known contaminant in the groundwater (approximately 16 ft below grade) is trichloroethylene. There was no reported contamination in the soil.

The proposed discharge will be conducted using a trash pump/frac tank system. Drilling development water was pumped into the frac tank to serve as a settling basin for suspended solids including bentonite (used as drilling mud). Proposed, the water then will be pumped into a sewer system manhole. An estimated 3,500 gallons of development water is planned on being discharged in one event. If necessary, a silt bag can be utilized to eliminate all suspended solids.

Attached are raw lab data for full list VOCs (8260) and sampling chain of custody. Also included is a figure showing the Building 786 location including the proposed sewer manhole.

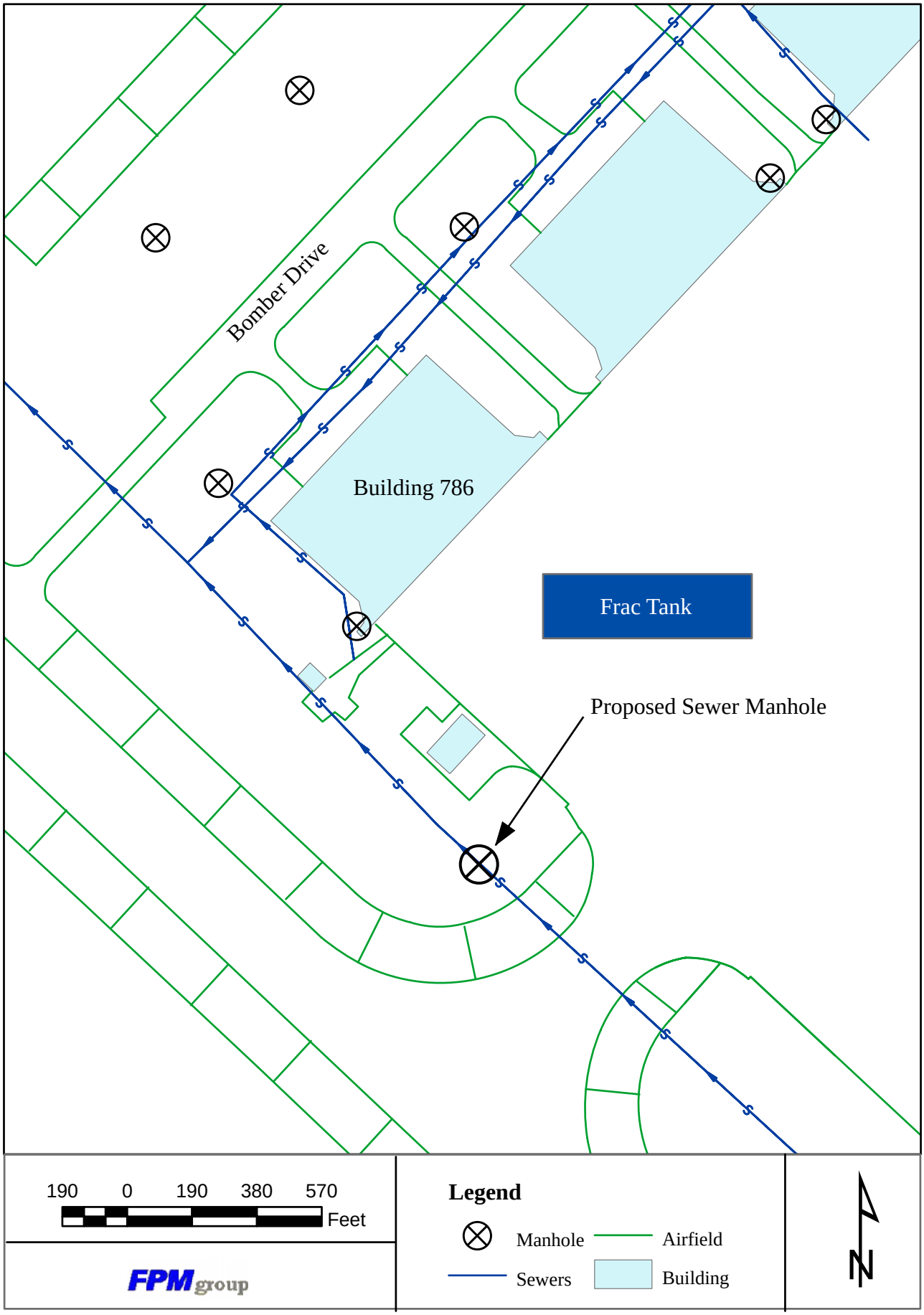
If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina J. Mattice

Katrina Mattice
Associate Engineer

Enc.
Building 786 Site / Sewer System Location Map
Lab Data Results and Chain of Custody


Bomber Drive
Building 786
Frac Tank
Proposed Sewer Manhole
190 0 190 380 570
Feet
FPM group
Legend
Manhole
Airfield
Sewers
Building
N

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
(m+p)-Xylene	0.200	2.00	0.200	1		U
1,1,1,2-Tetrachloroethane	0.160	0.500	0.160	1		U
1,1,1-Trichloroethane	0.100	1.00	0.100	1		U
1,1,2,2-Tetrachloroethane	0.100	0.500	0.100	1		U
1,1,2-Trichloroethane	0.160	1.00	0.160	1		U
1,1-Dichloroethane	0.100	1.00	0.100	1		U
1,1-Dichloroethene	0.160	1.00	0.160	1		U
1,1-Dichloropropene	0.100	1.00	0.100	1		U
1,2,3-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,3-Trichloropropane	0.330	2.00	0.330	1		U
1,2,4-Trichlorobenzene	0.100	1.00	0.100	1		U
1,2,4-Trimethylbenzene	0.100	1.00	0.100	1		U
1,2-Dibromo-3-chloropropane	1.00	5.00	1.00	1		U
1,2-Dibromoethane	0.160	1.00	0.160	1		U
1,2-Dichlorobenzene	0.100	1.00	0.100	1		U
1,2-Dichloroethane	0.160	0.500	0.160	1		U
1,2-Dichloropropane	0.160	1.00	0.160	1		U
1,3,5-Trimethylbenzene	0.100	1.00	0.100	1		U
1,3-Dichlorobenzene	0.100	1.00	0.100	1		U
1,3-Dichloropropane	0.100	0.500	0.100	1		U
1,4-Dichlorobenzene	0.160	0.500	0.160	1		U
1-Chlorohexane	0.160	1.00	0.160	1		U
2,2-Dichloropropane	0.330	1.00	0.330	1		U
2-Butanone	1.00	10.0	7.71	1		F
2-Chlorotoluene	0.100	1.00	0.100	1		U
4-Chlorotoluene	0.100	1.00	0.100	1		U
4-Methyl-2-pentanone	1.00	10.0	1.00	1		U
Acetone	1.00	10.0	32.4	1		
Benzene	0.100	0.500	0.100	1		U
Bromobenzene	0.100	1.00	0.100	1		U
Bromochloromethane	0.100	1.00	0.100	1		U
Bromodichloromethane	0.100	0.500	0.320	1		F

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	ug/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Bromoform	0.330	1.00	0.330	1		U
Bromomethane	0.330	3.00	0.330	1		UQ
Carbon tetrachloride	0.100	1.00	0.100	1		U
Chlorobenzene	0.100	0.500	0.100	1		U
Chloroethane	0.330	1.00	0.330	1		U
Chloroform	0.100	0.500	6.02	1		
Chloromethane	0.330	1.00	0.330	1		U
cis-1,2-Dichloroethene	0.100	1.00	0.100	1		U
cis-1,3-Dichloropropene	0.160	0.500	0.160	1		U
Dibromochloromethane	0.100	0.500	0.100	1		U
Dibromomethane	0.160	1.00	0.160	1		U
Dichlorodifluoromethane	0.100	1.00	0.100	1		U
Ethylbenzene	0.100	1.00	0.100	1		U
Hexachlorobutadiene	0.100	1.00	0.100	1		U
Isopropylbenzene	0.100	1.00	0.100	1		U
Methyl tert-butyl ether	0.160	5.00	0.160	1		U
Methylene chloride	0.160	1.00	0.160	1		U
n-Butylbenzene	0.100	1.00	0.100	1		U
n-Propylbenzene	0.100	1.00	0.100	1		U
Naphthalene	0.100	1.00	0.100	1		U
o-Xylene	0.100	1.00	0.100	1		U
p-Isopropyltoluene	0.160	1.00	0.160	1		U
sec-Butylbenzene	0.160	1.00	0.160	1		U
Styrene	0.100	1.00	0.100	1		U
tert-Butylbenzene	0.100	1.00	0.100	1		U
Tetrachloroethene	0.100	1.00	0.100	1		U
Toluene	0.100	1.00	0.150	1		F
trans-1,2-Dichloroethene	0.100	1.00	0.100	1		U
trans-1,3-Dichloropropene	0.160	1.00	0.160	1		U
Trichloroethene	0.100	1.00	0.480	1		F
Trichlorofluoromethane	0.100	1.00	0.100	1		U
Vinyl chloride	0.330	1.00	0.330	1		U

Comments:

AFCEE
ORGANIC ANALYSES DATA SHEET 2
RESULTS

Analytical Method:	SW8260B	**Preparatory Method:**		**AAB #:**	R21178
Lab Name:	Life Science Laboratories, Inc.	**Contract #:**			
Field Sample ID:	B786DW01AA	**Lab Sample ID:**	K1012033-001A	**Matrix:**	Water
% Solids:	0	**Initial Calibration ID:**	1758	**File ID:**	K3531.D
Date Received:	03-Dec-10	**Date Extracted:**		**Date Analyzed:**	06-Dec-10
Concentration Units (ug/L or mg/Kg dry weight):	µg/L			**Sample Size:**	10 mL

Analyte	MDL	RL	Concentration	Dilution	Confirm	Qualifier
Xylenes (total)	0.300	2.00	0.300	1		U

Surrogate	Recovery	Control Limits	Qualifier
1,2-Dichloroethane-d4	91	72 - 119	
4-Bromofluorobenzene	104	76 - 119	
Toluene-d8	95	81 - 120	

Internal Std	Area Counts	Area Count Limits	Qualifier
1,4-Dichlorobenzene-d4	497142	279816 - 1119262	
Chlorobenzene-d5	710433	446709 - 1786836	
Fluorobenzene	1903450	1180998 - 4723990	

Comments:

CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Pamela Titus Life Science Laboratories, Inc. 5854 Butternut Drive East Syracuse, NY 13057 Tel: 315-445-1105 ext.274	Project Name: Griffiss AFB B786 (1000-08-17) Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441 Phone: (315) 336-7721 Ext. 212
Carrier: LSL courier.	Sampler Signature:	

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2010	Time	MATRIX	SMCODE	SBD/SED	SACODE	No. of Containers	VOCs Note 1 40 mL glass vial (HCL)	Comments
B786DW01AA	B786-DW	12/02	1358	WG	G	0/0	N	3	3	

Sample Condition Upon Receipt at Laboratory: Cooler temperature:

Note 1: VOCs: method SW 8260 (AFCEE QAPP 4.0 List).

#1 Released by: (Sig)	Date:	#2 Released by: (Sig)	Date: 12/3/2010	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1000	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 12/1/2010	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1000	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
WS = Surface water

SMCODE
B = Bailer
G = Grab
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike

JAMES F. BROWN
MAYOR

WILLIAM BAYNES
CHIEF OPERATOR

DAVID MARINO
WORKING SUPERVISOR

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK ST.
ROME, NEW YORK 13440-6255
(315) 339-7775 FAX (315) 339-7828
www.romenewyork.com

December 14, 2010

Ms. Katrina Mattice
FPM Group
Rome, New York 13441.

RE: Permission to discharge FRAC tank water. Con tract # 1000-0817

Dear Ms. Mattice,

After a review of sampling date submitted by email on December 13, 2010, permission is herby granted to discharge this wastewater water under the following conditions:

1. Water is discharged to designated manhole south, of FRAC tank, and you inform the POTW of time of discharge.

2. Provision is made so that grit, rocks, sand, or silt is not pumped into sanitary sewer.

3. Cost to discharge is $0.04 per gallon.

4. Permission may be rescinded at any time if the POTW determines discharge may affect treatment plant process, violates any sewer use ordinance, EPA or DEC regulations.

If you have any questions please or comments please call 315-339-7775 ext 222, or email me at bclifford@romecitygov.com

Sincerely,

Bruce Clifford
IPP Coordinator

Cc: Special request/Hdrive

FPM Remediations, Inc
FPM Engineering Group. P.C.
formerly Fanning, Phillips and Molnar

584 Phoenix Dr.
Rome, NY 13441
315/336-7721
FAX 315/336-7722

DATE: December 27, 2010

TO: Bruce Clifford
IPP Coordinator
City of Rome
Water Pollution Control Facility
7180 East Dominick Street
Rome, New York 13440-5815

RE: Drilling Development Water Discharge Amount at Building 786 (nosedock 5) Griffiss Business and Technology Park, Rome, New York.

FPM discharged a total amount of 3,500 gallons of development water. The event was over a course of 4 days (December 16, 17, 20 and 21). The invoice PO number is 1000-08-17. The invoice can be sent directly to Katrina Mattice at the above address.

Attached for convenience are raw lab data for full list VOCs (8260) and sampling chain of custody.

If you have any questions or require additional information, please call me at 315-336-7721 ext. 212, or e-mail me at k.mattice@fpm-group.com.

Sincerely,

Katrina Mattice
Associate Engineer

Enc.
Lab Data Results and Chain of Custody

JAMES F. BROWN
MAYOR

WILLIAM BAYNES
CHIEF OPERATOR

DAVID MARINO
WORKING SUPERVISOR

CITY OF ROME
WATER POLLUTION CONTROL FACILITY
7180 EAST DOMINICK ST.
ROME, NEW YORK 13440-6255
(315) 339-7775 FAX (315) 339-7828
www.romenewyork.com

December 28, 2010

Ms. Katrina Mattice
FPM Group
Rome, New York 13441.

RE: FRAC tank water discharge. PO # 1000-08-17

Dear Ms. Mattice,

Letter dated December 27, 2010 reported a discharge of 3,500 gallons of development water from FRAC tank located near building 786 or nose dock # 5. The discharge event occurred on 12/16, 17, 20, and 21, 2010.

The cost to discharge is $0.04 per gallon for a total of $140.00.

Enclosed is invoice in the amount of $140.00.

If you have any questions please or comments please call 315-339-7775 ext 222, or email me at bclifford@romecitygov.com

Sincerely,

Bruce Clifford
IPP Coordinator

Cc: Special request/Hdrive

APPENDIX C
FIELD FORMS

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B785

Well No. (LOCID): 785VMP-1

Date (LOGDATE): 10/6/2010 Weather: rain / 50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1120			0 ppm

Sample Time: 1120 Sample ID: 785VMP0102AA

Container # 248

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): 785VMP-2

Date (**LOGDATE**): 10/6/2010 Weather: rain /50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1134			0 ppm

Sample Time: 1135 Sample ID: 785VMP0202AA

Container # 223

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B785

Well No. (LOCID): 785VMP-3

Date (LOGDATE): 10/6/2010 Weather: rain / 50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1141			0.8 ppm

Sample Time: 1142 Sample ID: 785VMP0302AA

Container # 553

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B7B5

Well No. (LOCID): 7B55SVM-1

Date (LOGDATE): 10/6/2010 Weather: rain /50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1155			58 ppm

Sample Time: 1156 Sample ID: 7B55SVM0105AA

Container # 493 INFLUENT

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B785

Well No. (LOCID): 785-Carbon

Date (LOGDATE): 10/6/2010 Weather: rain/50°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1209			0ppm

Sample Time: 1210 Sample ID: 785CA0100AA

Container # 243

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Vertical Extraction Well Building 785

Date:	10/6
conducted by:	DF/KM
Test #:	2
Extraction Well:	785SSVM-1

Vacuum Gauge	Vacuum (inch WC)	Velocity Gauge	Velocity (ft/min)
well head	40	well head	750
before knockout	40	inline w/ blower	1,000
after knockout	41		
blower	45		

- At 300 min well head vacuum at 4¼ in H_2O, 45 in H_2O after knockout, 50 in H_2O at Blower

Note: if system does not keep constant vacuum or flow please note

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch WC)	Medium Vacuum (inch WC)	Deep Vacuum (inch WC)	Shallow PID (ppm)	Medium PID (ppm)	Deep PID (ppm)
40" WATER	Baseline	0	0.015	0.02	0	0	0
	start up	12:20					
	1 min	.25	1.25	2.0			
	5	.6	3.1	3.8			
	10	.7	3.7	4			
Flow check	15	.75	4	4.2			
785VMP-1	20	.8	4	4.2			
	30	.75	4	4.2			
	60	.75	3.95	4.2			
10 ft	180	.80	4	4.3			
4¼" water	300	.85	4.2	4.4			
	420	.85	4.2	4.8			
	1260	.85	4.2	4.9			
	5 day	0.8	4.2	4.5			
40" WATER VACUUM	Baseline	0	0.025	0.03	0	0	0
	start up	12:20					
	1 min	.08	.6	.8			
	5	.10	1.4	1.8			
	10	.10	1.5	2.0			
Flow check	15	.10	1.75	2.2			
785VMP-2	20	.10	1.75	2.2			
	30	.09	1.60	2.1			
	60	.15	1.70	2.2			
20 ft	180	.09	1.75	2.2			
4¼" water	~~420~~ 300	.11	1.95	2.6			
	420	.095	1.85	2.6			
	1260	.095	1.85	2.6			
	5 day	.08	1.9	2.6			

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Vertical Extraction Well Building 785

Date:	10/6
conducted by:	DF/KM
Test #:	2
Extraction Well:	785SVM-1

Vacuum Gauge:	Vacuum (inch WC)	Velocity Gauge	Velocity (ft/min)
well head	40	well head	750
before knockout	40	inline w/ blower	1,000
after knockout	41		
blower	45		

- At 300 min well head vacuum at 44 in H_2O, 45 in H_2O after knockout, 50 in H_2O at Blower.

Note: if system does not keep constant vacuum or flow please note

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch WC)	Medium Vacuum (inch WC)	Deep Vacuum (inch WC)	Shallow PID (ppm)	Medium PID (ppm)	Deep PID (ppm)
785VMP-3 30ft 44" water	Baseline	0	0.01	0.005	1.1	1.5	1.2
	start up	—	—	—			
	1 min	0.02	0.16	0.22			
	5 min	0.165	0.45	0.55	1.6		
	10 min	0.245	0.70	0.90		1.7	1.5
	15 min	0.40	0.95	1.15			
	20 min	0.425	1.0	1.25			
	30 min	0.40	0.95	1.15			
	60 min	0.45	1.05	1.30			
	180 min	0.45	1.1	1.35	1.0	1.4	1.2
	300 min	0.50	1.20	1.50			
	420 min	0.50	1.15	1.45			
	21 hr	0.45	1.15	1.45			
	5 day	0.45	1.1	1.35	0.0	0.4	0.0

Well_ID	Time	PID (ppm)	Well_ID	Time	PID (ppm)
Extraction Well	Baseline	51.8	After Carbon Drum	Baseline	0
	END			END	

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B785

Well No. (LOCID): 785VMP-1

Date (LOGDATE): 10/18/2010 Weather: rain /45°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1400			0ppm

Sample Time: 1401 Sample ID: 785VMP0102AB

Container # 558

SOIL GAS SAMPLING FORM

Project: 1000-0817 Sampled by: KM/DF

Location and Site Code (**SITEID**): B7BS

Well No. (**LOCID**): B7SVMP-2

Date (**LOGDATE**): 10/18/2010 Weather: rain / 45°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1409			0ppm

Sample Time: 1410 Sample ID: B7SVMP0202AB

Container # 467

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/DF

Location and Site Code (SITEID): B785

Well No. (LOCID): 785VMP-3

Date (LOGDATE): 10/18/2010 Weather: rain/ 45°F

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1418			0ppm

Sample Time: 1419 Sample ID: 785VMP0302AB

Container # 231

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Vertical Extraction Well Building 785

Date:	10/27/10
conducted by:	DF/KM
Extraction Well:	785SSVM-2

closing Air dilution valve

closing Vacuum relief valve

Test Number	Vacuum (well head) inch WC	Velocity (well head) ft/min	Vacuum (blower) inch WC	Velocity (blower) ft/min
open 1	4	175	7	310
2	8	300	11	500
3	12	500	15	600
4	15	600	19	760
5	18	750	23	1050
6	20	800	27	1125
7	24	850	31	1250
8	26	900	35	1250
9	26	900	39	1250
closed 10	29	1000	45	1250
1/4 turn 11	34	1000	45	1250
1/2 12	36	1100	45	1250
1 13	39	1150	47	1250
1 1/2 14	40	1200	48	1250
closed 15	40	1250	49	1250
16				
17				
18				
19				
20				
21				
22				
23				
24				
25				
26				

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Vertical Extraction Well Building 785

Date:	11/4
conducted by:	DF/KM
Extraction Well:	785SSVM-2

Vacuum Gauge	Vacuum (inch WC)	Velocity Gauge	Velocity (ft/min)
well head	34	well head	
before knockout	34	inline w/ blower	
after knockout	36		
blower	47		

24hr: 0% CO_2 20.9% O_2 | 0% CO_2 20.9% O_2 | 0.2% CO_2 20.9% O_2

Base line: 0% CO_2 20.9% O_2 | 0.2% CO_2 20.8% O_2 | 0.8% CO_2 19.8% O_2

Note: if system does not keep constant vacuum or flow please note

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch WC)	Medium Vacuum (inch WC)	Deep Vacuum (inch WC)	Shallow PID (ppm)	Medium PID (ppm)	Deep PID (ppm)
785VMP-1 45ft	Baseline	0	0	0	86	234	332
	start up	0					
	12:58	0	0	0			
	12:59	0	0	0			
	3min 1300:	0	0	0			
	5min	0.08	.10	.13			
	10	.09	.2	.22			
	15	.13	.25	.30			
	20	.13	.30	.35			
	30	.16	.40	.45			
	60	.19	.45	.55			
	120	.17	.40	.49			
	180	.17	.40	.50			
	24hr	.17	0.45	0.55	145	262	310
785VMP-2 65ft	Baseline	0	0	0	13	0	0
	start up						
	12:58	0	0	0			
	5min	0	0	0			
	10	0.005	.015	.02			
	15	0.01	.06	.08			
	20	.01	.06	.09			
	30	0.015	0.12	0.16			
	60	0.02	0.15	0.22			
	120	0.015	0.10	0.12			
	180	0.015	0.10	0.13			
	24hr	0.02	0.18	0.30	100	126	93

24hr

CO_2 0% O_2 20.9% | CO_2 0% O_2 20.9% | CO_2 0.2% O_2 20.8%

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Vertical Extraction Well Building 785

Date:	11/4
conducted by:	KW/DF
Extraction Well:	785SSVM-2

Vacuum Gauge	Vacuum (inch WC)	Velocity Gauge:	Velocity (ft/min)
well head	34	well head	
before knockout	34	inline w/ blower	
after knockout	36		
blower	47		

Note: if system does not keep constant vacuum or flow please note

Well_ID. Distance from well axis (ft)	Time	Shallow Vacuum (inch WC)	Medium Vacuum (inch WC)	Deep Vacuum (inch WC)	Shallow PID (ppm)	Medium PID (ppm)	Deep PID (ppm)
785VMP-3 20ft	Baseline	0	0	0	388	1145	2080
	start up	0					
	12:58	.15	.1	.8			
	12:59	.22	.45	.50			
	13:00	.30	.75	.80			
	5 min	.50	1.25	1.5			
	10 min	.50	1.30	1.55			
	15	.60	1.35	1.80			
	20	.65	1.5	1.9			
	30	.65	1.6	2.0			
	60	.70	1.75	2.0			
	120	.65	1.70	2.0			
	180	.70	1.70	2.05			
	24hr	0.65	1.70	2.0	421	40	30

Well_ID	Time	PID (ppm)	Well_ID	Time	PID (ppm)
Extraction Well	Baseline		After Carbon Drum	Baseline	

measure CO_2 / O_2 AT VMP-3

baseline

Shallow
$CO_2 = 0\%$ $O_2 = 20.7\%$

Medium
$CO_2 = 1\%$ $O_2 = 20.4\%$

deep
$CO_2 = 1.8\%$
$O_2 = 19.3\%$

24hr $CO_2 = 0.2\%$ $O_2 = 20.9\%$ $CO_2 = 0\%$ $O_2 = 20.9\%$

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: DB/KM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): B785VMP-1

Date (**LOGDATE**): 12/2/2010 Weather: 40°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1418	20.8	0.0	0

Sample Time: 1420 Sample ID: 785VMP0102AC

Container # 241

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: DB/KM

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): B785VMP-2

Date (**LOGDATE**): 12/2/2010 Weather: 40°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1413	20.5	0.2	0

Sample Time: 1415 Sample ID: 785VMP0202AC

Container # 131

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: DB/km

Location and Site Code (**SITEID**): B785

Well No. (**LOCID**): B785VMP-3

Date (**LOGDATE**): 12/2/2010 Weather: 40°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1408	20.9	0.0	0

Sample Time: 1410 Sample ID: 785VMP0302AC

Container # 358

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: JP/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): B786VMP-01

Date (**LOGDATE**): 1/18/2011 Weather: 25°F / Cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1210	14.6	3.2	2,047

Sample Time: 1215 Sample ID: 786VMP0102AA

Container # 420

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: JP/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): B786VMP-02

Date (**LOGDATE**): 1/18/2011 Weather: 25°F/ cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1230	20.5	0.0	279

Sample Time: 1235 Sample ID: 786VMP02O2AA

Container # 428

SOIL GAS SAMPLING FORM

Project: 1600-08-17 Sampled by: JP/KM

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): B786VMP-03

Date (**LOGDATE**): 1/18/2011 Weather: 25°F / cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1220	16.2	3.6	803

Sample Time: 1225 Sample ID: 786VMP0302AA

Container # 241

Sub-Slab Vapor Mitigation Stepped-Rate Test

Date:	1/19/2011
conducted by:	KM / JP
Extraction Wells:	7865SVM-1

Test Number	Vacuum (well head) (inch w.g.)	Temperature (deg F)	Differential Pressure (inch w.g.)
~~1/2~~ open 1 turn	40	38	0.7
1/2 2 turn	41	39	0.7
1 3 turn	42	39	0.7
4	43	40	0.7
5	44	40	0.8
6	46	40	0.9
7	50	40	1.0
8	52	41	1.1
9	56	41	1.2
10	59	41	1.4
11	63	41	1.6
12	67	41	1.8
13	73	41	2.1
14	78	41	2.4
15	78.5	41	2.4
16			
17			
18			
19			
20			
21			
22			
23			
24			
25			
26			

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Horizontal Extraction Well Building 786

Date:	1/24/11
conducted by:	CO/KM

Vacuum Gauge	Vacuum (inch w.g.)	Flow Sensor (inch w.g.):	
well head		Temp (deg F):	
before filter			
after filter			
blower			

Note: if system does not keep constant vacuum or flow please note

Well_ID. Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)	
786VMP-1 6 15ft	Baseline	0	0	0	
	start up	~~+0~~			
	1 min	1.50	2.8	4.4	
	3 min	3.9	5.4	7.9	
	5 min	4.2	6.6	9.2	
	10 min	5.6	8.4	~~40~~ ~~28~~	- gauge wasn't working
	15	5	8.4	~~9.8~~	- "
	20	5	8.6	12	
	30	5.2	9	12	
	60	5.2	8.8	13	
	120	5.2	8.9	12.5	
	~~+80~~				
	1/24/11	3.2	6.3	9.4	
786VMP-2 6	Baseline				
	start up				

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Horizontal Extraction Well Building 786

Date:	1/21/11
conducted by:	CD/KM

Vacuum Gauge:	Vacuum (inch w.g.)	Flow Sensor (inch w.g.):	2.6
well head	78	Temp (deg F)	39
before filter	4.2 in Hg		
~~after filter~~			
blower	4.2 in Hg		

Vacuum Gauge in wg.
Foot well: 60

18 inch wc loss

Note: if system does not keep constant vacuum or flow please note

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
786VMP-1	Baseline			
	start up			
	1 min			
	3 min			
	5 min			
	10 min			
	15			
	20			
	30			
	60			
	120			
	180			
786VMP-2	Baseline	0	0	0
	start up	0	0	0
	1 min	0	0	0
	3 min	0	0	0
	5 min	0.02	0.03	0.025
	10 min	0.035	0.05	0.06
	15	0.045	0.055	0.07
	20	0.04	0.055	0.065
	30	0.045	0.055	0.06
	60	0.045	0.055	0.06
	120	0.05	0.06	0.065
	~~180~~			
	1/24/11	0.04	0.04	0.045

30ft

1/24/11

Temp = 30°

ΔP = 0.2

Temp out = 150°F

PID in 6,000 ppb
out = 400 ppb

well head
Vac = 80 in WC

Sub-Slab Vapor Mitigation (SSVM) Pilot Study - Horizontal Extraction Well Building 786

Date:	1/24/11
conducted by:	JP

Vacuum Gauge:	Vacuum (inch w.g.)	Flow Sensor (inch w.g.):	2.6
well head	78	Temp (deg F):	39
before filter	4.2 inHg		
after filter	—		
blower	4.2 inHg		

1615
PID influent = 8,348 ppb

1620
PID effluent = 41 ppb

Note: if system does not keep constant vacuum or flow please note

Well_ID, Distance from well axis (ft)	Time	Shallow Vacuum (inch w.g.)	Medium Vacuum (inch w.g.)	Deep Vacuum (inch w.g.)
	Baseline			
	start up	0	0	0
	1 min	.02	.05	0
	3 min	.07	.15	.16
	5 min	.245	.45	.45
	10 min	.75	1.15	1.30
786VMP-3	15	1.10	1.75	1.80
45ft	20	1.20	2.0	2.05
	30	1.30	2.10	2.40
	60	1.35	2.65	2.4
	120	1.35	2.2	2.4
	~~180~~ >	0.9	1.55	1.70
	1/24/11			

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: JP/km

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): Carbon Influent

Date (**LOGDATE**): 11/21/2011 Weather: 32°F / partly Cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1614	—	—	8,348

Sample Time: 1615 Sample ID: 786CA0100AA

Container # 429

SOIL GAS SAMPLING FORM

Project: 1000-08-17 Sampled by: KM/JP

Location and Site Code (**SITEID**): B786

Well No. (**LOCID**): 786CA-02 Carbon Effluent

Date (**LOGDATE**): 11/21/2011 Weather: 32°F/ partly cloudy

FIELD MEASUREMENTS:

Time	O_2 (%)	CO_2 (%)	PID (ppb)
1619	—	—	41

Sample Time: 1620 Sample ID: 786CA0200AA

Container # 360

APPENDIX D
RAW LAB DATA

TO-15 Package Review Checklist

Client: FPM Project: B785 - SSVM SDG: C1010018

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed		✓	

Comments: *SEE CASE NARRATIVE*

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits		✓	
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: *SEE CASE NARRATIVE*

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: FPM Project: B785 SSUM SDG: C1010018

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria		✓	
Standards Raw Data	Present and Complete	✓		

Comments: * SEE CASE NARRATIVE *

Raw Quality Control Data				
Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:

Logbooks				
Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: Russell Pellegrino Jr. Date: 11/17/10

QC Supervisor: [signature] Date: 11/17/10

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

www.CentekLabs.com

Analytical Report

NYSDOH ELAP
Certificate No. 11830

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Friday, October 15, 2010
Order No.: C1010018

RE: B785 SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 7 sample(s) on 10/8/2010 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell J. Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and

all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories

Date: *16-Nov-10*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1010018

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Trip Blank added to COC per client request.
Removed samples 4&5 due to matix interference from PVC glue

See Corrective Action: [2034] Continuing Calibration did not meet criteria.
See Corrective Action: [2035] LCS and LCSD did not meet criteria.
See Corrective Action: [2036] Surrogate did not meet criteria.
See Corrective Action: [2037] Continuing Calibration did not meet criteria.
See Corrective Action: [2038] LCS did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 12-Oct-10 **Corrective Action Report ID:** 2034

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Continuing Calibration did not meet criteria.

Description of Nonconformance: Continuing calibration did not meet criteria on 10/12/10 for carbon disulfide, methyl tert-butyl ether & 1,2,4-trichlorobenzene. The compounds in question were more sensitive. The results may be biased high for carbon disulfide. All other compounds in question were not detected for the associated samples.

Description of Corrective Action: Since the results may be biased high for carbon disulfide, the next analysis may require a new system calibration. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 13-Oct-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds continue outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Jr — Russell Pellegrino — Close Date: 14-Oct-10

QA Officer Approval: Nick Scala — QA Date: 13-Oct-10

Last Updated BY LEO Updated: 16-Nov-2010 12:33 PM Reported 16-Nov-2010 3:16 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 12-Oct-10 **Corrective Action Report ID:** 2035

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCS and LCSD did not meet criteria.

Description of Nonconformance: ALCS1UG-101210 did not meet criteria for methyl tert-butyl ether, 1,2,4-trimethylbenzene, 4-ethyltoluene, isopropyl alcohol, 1,2,4-trichlorobenzene & styrene. ALCS1UGD-101210 did not meet criteria for several % recoveries and RPD'S.The compounds were more sensitive. All other QC met criteria for the compounds of interest with the exception of methyl tert-butyl ether & 1,2,4-trichlorobenzene. However, these two compounds in question were not detected for the associated samples.The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the LCS & LCSD 6 Liter canister was independent of the 6 Liter continuing calibration canister and all other QC met criteria for the compounds of interest with the exception of methyl tert-butyl ether & 1,2,4-trichlorobenzene , no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 13-Oct-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 14-Oct-10

QA Officer Approval: Nick Scala QA Date: 13-Oct-10

Last Updated BY LEO Updated: 16-Nov-2010 3:13 PM Reported 16-Nov-2010 3:16 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 13-Oct-10 **Corrective Action Report ID:** 2036

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Surrogate did not meet criteria.

Description of Nonconformance: Surrogate was high and did not meet criteria for samples C1010018-001DL90 & 002DL90. Based on the chromatographic evidence this is most likely due to matrix interference.

Description of Corrective Action: Samples were analyzed at the 1x concentration with results meeting criteria.

Performed By: Russell Pellegrino **Completion Date:** 14-Oct-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 15-Oct-10

QA Officer Approval: Nick Scala QA Date: 14-Oct-10

Last Updated BY LEO Updated: 16-Nov-2010 2:25 PM Reported 16-Nov-2010 3:16 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 13-Oct-10 **Corrective Action Report ID:** 2037

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: Continuing Calibration did not meet criteria.

Description of Nonconformance: Continuing calibration did not meet criteria on 10/13/10 for isopropyl alcohol, tetrachloroethylene, 1,2,4-trimethylbenzene & 1,2,4-trichlorobenzene. The compounds in question were more sensitive. However, the analytes were not needed for the associated sample dilutions.

Description of Corrective Action: Since the compounds in question were not needed for the associated sample dilutions, no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 14-Oct-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 15-Oct-10

QA Officer Approval: Nick Scala QA Date: 14-Oct-10

Last Updated BY LEO Updated: 16-Nov-2010 2:55 PM Reported 16-Nov-2010 3:16 PM

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 13-Oct-10 **Corrective Action Report ID:** 2038

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCS did not meet criteria.

Description of Nonconformance: ALCS1UG-101310 did not meet criteria for methyl tert-butyl ether, 1,2,4-trimethylbenzene, 4-ethyltoluene, isopropyl alcohol, 1,2,4-trichlorobenzene, benzyl chloride, tetrachloroethylene & trans-1,3-dichloropropene. The compounds were more sensitive. However, the compounds in question were not needed for the associated sample dilutions.The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister and the compounds in question were not needed for the associated sample dilutions , no corrective action taken at this time. If results continue to be outside established limits then recalibrate system. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 14-Oct-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. All sets of data submitted. Recalibrate the system if compounds remain outside criteria.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Jr — Russell Pellegrino — Close Date: 15-Oct-10

QA Officer Approval: Nick Scala — QA Date: 14-Oct-10

Last Updated BY LEO Updated: 16-Nov-2010 3:05 PM Reported 16-Nov-2010 3:16 PM

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations 584 Phoenix Dr Rome, NY 13441 Phone: (315) 336-7721 Ext 212
Carrier: Fedex	Sampler Signature: Katrina Mattice	

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2010	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
785VMP0102AA	785VMP-01	10/6	1120	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 248
785VMP0202AA	785VMP-02	10/6	1135	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 223
785VMP0302AA	785VMP-03	10/6	1142	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 553
785SSVM0105AA	785SSVM-01	10/6	1156	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 493
785SSVM0205AA	785SSVM-02	10/6	1210	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 142
785CA0100AA	Carbon Drum	10/6	1530	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 243

TRIP BLANK TRIP BLANK 10/6

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:
Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0
Note 1: VOC: Method TO-15 Full List
ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 10/7/10	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 1100	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 10/1/10	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1100	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

C1010018

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: FPM-ROME | Date and Time Received: 10/8/2010

Work Order Number C1010018 | Received by: DL

Checklist completed by: [signature] Signature 10/8/10 Date | Reviewed by: m Initials 10/8/10 Date

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: Katrina Mattici Date contacted: 10/12/10 Person contacted: Katrina Mattici

Contacted by: David Linda Regarding: TRIP BLANK

Comments: TRIP BLANK ADDED TO COC per Client request.

Corrective Action:

Centek Laboratories, LLC

Date: *16-Nov-10*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1010018

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1010018-001A	785VMP0102AA	248	10/6/2010	10/8/2010
C1010018-002A	785VMP0202AA	223	10/6/2010	10/8/2010
C1010018-003A	785VMP0302AA	553	10/6/2010	10/8/2010
C1010018-004A	785SSVM0105AA	493	10/6/2010	10/8/2010
C1010018-005A	785SSVM0205AA	142	10/6/2010	10/8/2010
C1010018-006A	785CA0100AA	243	10/6/2010	10/8/2010
C1010018-007A	TRIP BLANK		10/6/2010	10/8/2010

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1010018-001A	Login	10/8/2010 6:47:11 PM	russ	Sample Log In
C1010018-002A	Login	10/8/2010 6:50:33 PM	russ	Sample Log In
C1010018-003A	Login	10/8/2010 6:50:33 PM	russ	Sample Log In
C1010018-004A	Login	10/8/2010 6:50:33 PM	russ	Sample Log In
C1010018-005A	Login	10/8/2010 6:50:33 PM	russ	Sample Log In
C1010018-006A	Login	10/8/2010 6:50:33 PM	russ	Sample Log In
C1010018-007A	Login	10/12/2010 4:02:49 PM	russ	Sample Log In
C1010018-003A	Transfer	10/12/2010 4:57:37 PM	ADM	GC/MS Lab
C1010018-006A	Transfer	10/12/2010 4:57:37 PM	ADM	GC/MS Lab
C1010018-002A	Transfer	10/12/2010 4:57:37 PM	ADM	GC/MS Lab
C1010018-001A	Transfer	10/12/2010 4:57:37 PM	ADM	GC/MS Lab
C1010018-007A	Transfer	10/12/2010 4:57:37 PM	ADM	GC/MS Lab
C1010018-007A	Mark as Consumed	10/14/2010 4:43:52 PM	ADM	Consumed
C1010018-001A	Mark as Consumed	10/14/2010 4:43:52 PM	ADM	Consumed
C1010018-002A	Mark as Consumed	10/14/2010 4:43:52 PM	ADM	Consumed
C1010018-003A	Mark as Consumed	10/14/2010 4:43:52 PM	ADM	Consumed
C1010018-006A	Mark as Consumed	10/14/2010 4:43:52 PM	ADM	Consumed

Centek Laboratories, LLC
143 Midler Park Drive
Syracuse, NY 13206
TEL: *3154319730* FAX: *3154319731*

BOTTLE ORDER

2003

16-Nov-10

SHIPPED TO:

Company: FPM Group
Contact: Daniel
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 9/30/2010
VIA: Courier (Centek)
Due Date: 10/4/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 CT-TCE-VC	8

Can / Reg ID	Description
215	1.4L Mini-Can - 1121
142	1L Mini-Can - 1116
223	1L Mini-Can - 1185
243	1L Mini-Can - 1175
248	1L Mini-Can - 1180
493	1L Mini-Can - 1385
552	1L Mini-Can - 120
553	1L Mini-Can - 121
467	1L Mini-Can - 1371
558	1L Mini-Can - 126

Comments: 8 1L w/ QG + trip for griffins must be there by 10am Monday SEND FEDEX OVERNIGHT WAC 092010 E-G

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-5			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.58	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Acetone	1.9	0.30		ppbV	1	10/12/2010 8:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Benzene	0.25	0.15		ppbV	1	10/12/2010 8:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Carbon disulfide	4.6	0.75		ppbV	5	10/13/2010 6:59:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chloroform	11	0.75		ppbV	5	10/13/2010 6:59:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	10/12/2010 8:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Cyclohexane	0.94	0.15		ppbV	1	10/12/2010 8:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 8:30:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 11	0.30	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 113	0.19	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 12	0.47	0.15		ppbV	1	10/12/2010 8:30:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
m&p-Xylene	0.15	0.30	J	ppbV	1	10/12/2010 8:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
Methyl Ethyl Ketone	0.29	0.30	J	ppbV	1	10/12/2010 8:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Tetrachloroethylene	0.24	0.15		ppbV	1	10/12/2010 8:30:00 PM
Tetrahydrofuran	4.8	0.75		ppbV	5	10/13/2010 6:59:00 AM
Toluene	0.35	0.15		ppbV	1	10/12/2010 8:30:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Trichloroethene	68	14		ppbV	90	10/13/2010 8:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	3.2	0.83		ug/m3	1	10/12/2010 8:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 8:30:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 8:30:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 8:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
1,2,4-Trimethylbenzene	1.1	0.75		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 8:30:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/12/2010 8:30:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 8:30:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 8:30:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 8:30:00 PM
Acetone	4.6	0.72		ug/m3	1	10/12/2010 8:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 8:30:00 PM
Benzene	0.81	0.49		ug/m3	1	10/12/2010 8:30:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 8:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 8:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 8:30:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 8:30:00 PM
Carbon disulfide	15	2.4		ug/m3	5	10/13/2010 6:59:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 8:30:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 8:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 8:30:00 PM
Chloroform	53	3.7		ug/m3	5	10/13/2010 6:59:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 8:30:00 PM
cis-1,2-Dichloroethene	4.5	0.60		ug/m3	1	10/12/2010 8:30:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 8:30:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	10/12/2010 8:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 8:30:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/12/2010 8:30:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	1.5	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
Freon 12	2.4	0.75		ug/m3	1	10/12/2010 8:30:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 8:30:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 8:30:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 8:30:00 PM
m&p-Xylene	0.66	1.3	J	ug/m3	1	10/12/2010 8:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Methyl Ethyl Ketone	0.87	0.90	J	ug/m3	1	10/12/2010 8:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 8:30:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 8:30:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/12/2010 8:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 8:30:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 8:30:00 PM
Tetrachloroethylene	1.7	1.0		ug/m3	1	10/12/2010 8:30:00 PM
Tetrahydrofuran	14	2.2		ug/m3	5	10/13/2010 6:59:00 AM
Toluene	1.3	0.57		ug/m3	1	10/12/2010 8:30:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 8:30:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 8:30:00 PM
Trichloroethene	370	76		ug/m3	90	10/13/2010 8:46:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 8:30:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 8:30:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.19	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2,4-Trimethylbenzene	0.22	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Acetone	1.3	0.30		ppbV	1	10/12/2010 9:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Benzene	0.14	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Carbon disulfide	0.59	0.15		ppbV	1	10/12/2010 9:03:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chloroform	4.8	0.75		ppbV	5	10/13/2010 7:31:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
cis-1,2-Dichloroethene	0.56	0.15		ppbV	1	10/12/2010 9:03:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 9:03:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 11	0.26	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 12	0.45	0.15		ppbV	1	10/12/2010 9:03:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl Ethyl Ketone	0.21	0.30	J	ppbV	1	10/12/2010 9:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
Tetrahydrofuran	3.3	0.75		ppbV	5	10/13/2010 7:31:00 AM
Toluene	0.14	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Trichloroethene	240	14		ppbV	90	10/13/2010 3:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.1	0.83		ug/m3	1	10/12/2010 9:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:03:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 9:03:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:03:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
1,2,4-Trimethylbenzene	1.1	0.75		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 9:03:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/12/2010 9:03:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 9:03:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 9:03:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 9:03:00 PM
Acetone	3.1	0.72		ug/m3	1	10/12/2010 9:03:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 9:03:00 PM
Benzene	0.45	0.49	J	ug/m3	1	10/12/2010 9:03:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 9:03:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:03:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 9:03:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 9:03:00 PM
Carbon disulfide	1.9	0.47		ug/m3	1	10/12/2010 9:03:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 9:03:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 9:03:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 9:03:00 PM
Chloroform	24	3.7		ug/m3	5	10/13/2010 7:31:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 9:03:00 PM
cis-1,2-Dichloroethene	2.3	0.60		ug/m3	1	10/12/2010 9:03:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:03:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/12/2010 9:03:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 9:03:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/12/2010 9:03:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
Freon 12	2.3	0.75		ug/m3	1	10/12/2010 9:03:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 9:03:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 9:03:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 9:03:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/12/2010 9:03:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Methyl Ethyl Ketone	0.63	0.90	J	ug/m3	1	10/12/2010 9:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 9:03:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 9:03:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/12/2010 9:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 9:03:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 9:03:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	10/12/2010 9:03:00 PM
Tetrahydrofuran	9.9	2.2		ug/m3	5	10/13/2010 7:31:00 AM
Toluene	0.54	0.57	J	ug/m3	1	10/12/2010 9:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:03:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:03:00 PM
Trichloroethene	1300	76		ug/m3	90	10/13/2010 3:32:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 9:03:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 9:03:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.0	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2,4-Trimethylbenzene	0.36	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Acetone	3.7	1.5		ppbV	5	10/13/2010 2:10:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Benzene	0.67	0.15		ppbV	1	10/12/2010 9:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Carbon disulfide	5.4	0.75		ppbV	5	10/13/2010 2:10:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chloroform	3.8	0.75		ppbV	5	10/13/2010 2:10:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
cis-1,2-Dichloroethene	2.4	0.75		ppbV	5	10/13/2010 2:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 9:36:00 PM
Ethylbenzene	0.10	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
Freon 11	0.27	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 113	0.21	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 12	0.45	0.15		ppbV	1	10/12/2010 9:36:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
m&p-Xylene	0.22	0.30	J	ppbV	1	10/12/2010 9:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl Ethyl Ketone	0.44	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Tetrachloroethylene	0.51	0.15		ppbV	1	10/12/2010 9:36:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Toluene	0.36	0.15		ppbV	1	10/12/2010 9:36:00 PM
trans-1,2-Dichloroethene	0.17	0.15		ppbV	1	10/12/2010 9:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Trichloroethene	660	40		ppbV	270	10/13/2010 4:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	11	0.83		ug/m3	1	10/12/2010 9:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:36:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 9:36:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
1,2,4-Trimethylbenzene	1.8	0.75		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 9:36:00 PM
1,3,5-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/12/2010 9:36:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 9:36:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 9:36:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 9:36:00 PM
Acetone	8.9	3.6		ug/m3	5	10/13/2010 2:10:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 9:36:00 PM
Benzene	2.2	0.49		ug/m3	1	10/12/2010 9:36:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 9:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 9:36:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 9:36:00 PM
Carbon disulfide	17	2.4		ug/m3	5	10/13/2010 2:10:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 9:36:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 9:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 9:36:00 PM
Chloroform	19	3.7		ug/m3	5	10/13/2010 2:10:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 9:36:00 PM
cis-1,2-Dichloroethene	9.5	3.0		ug/m3	5	10/13/2010 2:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:36:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/12/2010 9:36:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 9:36:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
Ethylbenzene	0.44	0.66	J	ug/m3	1	10/12/2010 9:36:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 113	1.6	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
Freon 12	2.3	0.75		ug/m3	1	10/12/2010 9:36:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 9:36:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 9:36:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 9:36:00 PM
m&p-Xylene	0.97	1.3	J	ug/m3	1	10/12/2010 9:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Methyl Ethyl Ketone	1.3	0.90		ug/m3	1	10/12/2010 9:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 9:36:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 9:36:00 PM
o-Xylene	0.49	0.66	J	ug/m3	1	10/12/2010 9:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 9:36:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 9:36:00 PM
Tetrachloroethylene	3.5	1.0		ug/m3	1	10/12/2010 9:36:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/12/2010 9:36:00 PM
Toluene	1.4	0.57		ug/m3	1	10/12/2010 9:36:00 PM
trans-1,2-Dichloroethene	0.69	0.60		ug/m3	1	10/12/2010 9:36:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:36:00 PM
Trichloroethene	3600	220		ug/m3	270	10/13/2010 4:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 9:36:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 9:36:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785SSVM0105AA
Lab Order:	C1010018	**Tag Number:**	493
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785SSVM0205AA
Lab Order:	C1010018	**Tag Number:**	142
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010

Qualifiers:					
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Acetone	38	12		ppbV	40	10/12/2010 11:38:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Benzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/13/2010 9:15:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 11	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 12	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Heptane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Hexane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl Ethyl Ketone	43	12		ppbV	40	10/12/2010 11:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Styrene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Tetrahydrofuran	91	6.0		ppbV	40	10/12/2010 11:38:00 PM
Toluene	0.22	0.15		ppbV	1	10/13/2010 9:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Trichloroethene	1.3	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Surr: Bromofluorobenzene	121	70-130		%REC	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 9:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 9:15:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
1,2,4-Trimethylbenzene	1.0	0.75		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/13/2010 9:15:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/13/2010 9:15:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/13/2010 9:15:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
Acetone	93	29		ug/m3	40	10/12/2010 11:38:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/13/2010 9:15:00 AM
Benzene	< 0.49	0.49		ug/m3	1	10/13/2010 9:15:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/13/2010 9:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/13/2010 9:15:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	10/13/2010 9:15:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/13/2010 9:15:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/13/2010 9:15:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/13/2010 9:15:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/13/2010 9:15:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	10/13/2010 9:15:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/13/2010 9:15:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 9:15:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/13/2010 9:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/13/2010 9:15:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/13/2010 9:15:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
Freon 12	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
Heptane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/13/2010 9:15:00 AM
Hexane	< 0.54	0.54		ug/m3	1	10/13/2010 9:15:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/13/2010 9:15:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/13/2010 9:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Methyl Ethyl Ketone	130	36		ug/m3	40	10/12/2010 11:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/13/2010 9:15:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/13/2010 9:15:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	10/13/2010 9:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/13/2010 9:15:00 AM
Styrene	< 0.65	0.65		ug/m3	1	10/13/2010 9:15:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
Tetrahydrofuran	270	18		ug/m3	40	10/12/2010 11:38:00 PM
Toluene	0.84	0.57		ug/m3	1	10/13/2010 9:15:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 9:15:00 AM
Trichloroethene	7.3	0.82		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/13/2010 1:38:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 1:38:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/13/2010 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/13/2010 1:38:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/13/2010 1:38:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/13/2010 1:38:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/13/2010 1:38:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/13/2010 1:38:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/13/2010 1:38:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/13/2010 1:38:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/13/2010 1:38:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/13/2010 1:38:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/13/2010 1:38:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/13/2010 1:38:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/13/2010 1:38:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/13/2010 1:38:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/13/2010 1:38:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 1:38:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/13/2010 1:38:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/13/2010 1:38:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/13/2010 1:38:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/13/2010 1:38:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/13/2010 1:38:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/13/2010 1:38:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/13/2010 1:38:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/13/2010 1:38:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/13/2010 1:38:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/13/2010 1:38:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/13/2010 1:38:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/13/2010 1:38:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/13/2010 1:38:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 1:38:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek Laboratories, LLC

Date: 09-Nov-10

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling
Test No: TO-15 **Matrix:** A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ							
ALCS1UG-101210	121							
ALCS1UG-101310	125							
ALCS1UGD-101210	125							
AMB1UG-101210	115							
AMB1UG-101310	128							
C1010018-001A	128							
C1010018-002A	128							
C1010018-003A	123							
C1010018-006A	121							
C1010018-007A	128							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Centek laboratories, LLC

Tune File : C:\HPCHEM\1\DATA\AH101203.D
Tune Time : 12 Oct 2010 10:19 am

Daily Calibration File : C:\HPCHEM\1\DATA\AH101203.D

		(BFB)		(IS1)	(IS2)	(IS3)
				26250	94270	74090
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AH101204.D	ALCS1UG-10121	121		26840	94330	76180
AH101205.D	AMB1UG-101210	115		26517	98672	76866
AH101219.D	ALCS1UGD-1012	125		23725	88519	74321
AH101220.D	C1010018-001A	128		22535	82072	65601
AH101221.D	C1010018-002A	128		22978	80328	65614
AH101222.D	C1010018-003A	123		23185	78938	66504
AH101223.D	C1010018-004A	134*		25078	97111	78743
AH101224.D	C1010018-005A	117		1083*	123835	97427
AH101225.D	C1010018-006A	123	DL40X	28180	108621	85270
AH101239.D	C1010018-001A	120	DL5X	21348	75372	61673
AH101240.D	C1010018-002A	124	DL5X	20989	74098	59543
AH101243.D	C1010018-006A	121		20811	69807	58162

t - fails 24hr time check * - fails criteria

Created: Tue Nov 09 14:00:38 2010 MSD #1/

GC/MS QA QC Check Report

Tune File : C:\HPCHEM\1\DATA\AH101302.D
Tune Time : 13 Oct 2010 12:00 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AH101302.D

		(BFB)		(IS1)	(IS2)	(IS3)
				22735	81601	72506
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AH101303.D	ALCS1UG-10131	125		22118	79989	74328
AH101304.D	AMB1UG-101310	128		21775	80004	71710
AH101305.D	C1010018-007A	128		21958	79190	71770
AH101306.D	C1010018-003A	128	DL5X	21419	79990	71152
AH101308.D	C1010018-002A	132*	DL90X	22142	82199	73695
AH101309.D	C1010018-003A	127	DL270X	22507	81752	72911
AH101311.D	C1010018-001A	130*	DL90X	22760	80557	71104

t - fails 24hr time check * - fails criteria

Created: Tue Nov 09 14:04:18 2010 MSD #1/

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101210 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 3963
Client ID: ZZZZZ Batch ID: R3963 TestNo: TO-15 Analysis Date: 10/12/2010 SeqNo: 48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1,2-Trichloroethane	0.8200	0.15	1	0	82.0	70	130				
1,1-Dichloroethane	1.050	0.15	1	0	105	70	130				
1,1-Dichloroethene	1.010	0.15	1	0	101	70	130				
1,2,4-Trichlorobenzene	1.930	0.15	1	0	193	70	130				S
1,2,4-Trimethylbenzene	1.700	0.15	1	0	170	70	130				S
1,2-Dibromoethane	1.000	0.15	1	0	100	70	130				
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	0.7700	0.15	1	0	77.0	70	130				
1,3-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	1.140	0.30	1	0	114	70	130				
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130				
4-ethyltoluene	1.380	0.15	1	0	138	70	130				S
Acetone	0.9800	0.30	1	0	98.0	70	130				
Allyl chloride	1.100	0.15	1	0	110	70	130				
Benzene	0.8600	0.15	1	0	86.0	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	0.9300	0.15	1	0	93.0	70	130				
Bromoform	0.9400	0.15	1	0	94.0	70	130				
Bromomethane	0.8800	0.15	1	0	88.0	70	130				
Carbon disulfide	1.200	0.15	1	0	120	70	130				
Carbon tetrachloride	0.7400	0.15	1	0	74.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.8000	0.15	1	0	80.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Page 44 of 295

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101210	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.9600	0.15	1	0	96.0	70	130				
Chloromethane	0.7800	0.15	1	0	78.0	70	130				
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.060	0.15	1	0	106	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	1.180	0.25	1	0	118	70	130				
Ethylbenzene	1.220	0.15	1	0	122	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	0.8600	0.15	1	0	86.0	70	130				
Freon 114	0.9000	0.15	1	0	90.0	70	130				
Freon 12	0.8500	0.15	1	0	85.0	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	0.9700	0.15	1	0	97.0	70	130				
Isopropyl alcohol	1.310	0.15	1	0	131	70	130				S
m&p-Xylene	2.290	0.30	2	0	114	70	130				
Methyl Butyl Ketone	1.060	0.30	1	0	106	70	130				
Methyl Ethyl Ketone	1.100	0.30	1	0	110	70	130				
Methyl Isobutyl Ketone	0.8700	0.30	1	0	87.0	70	130				
Methyl tert-butyl ether	2.040	0.15	1	0	204	70	130				S
Methylene chloride	0.8300	0.15	1	0	83.0	70	130				
o-Xylene	1.050	0.15	1	0	105	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	1.540	0.15	1	0	154	70	130				S
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130				
Tetrahydrofuran	1.290	0.15	1	0	129	70	130				
Toluene	1.070	0.15	1	0	107	70	130				
trans-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	70	130				
trans-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130				
Trichloroethene	0.8300	0.15	1	0	83.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101210	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.100	0.15	1	0	110	70	130				
Vinyl Bromide	1.140	0.15	1	0	114	70	130				
Vinyl chloride	0.8100	0.15	1	0	81.0	70	130				

Sample ID ALCS1UG-101310	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1,2,2-Tetrachloroethane	0.8700	0.15	1	0	87.0	70	130				
1,1,2-Trichloroethane	0.7500	0.15	1	0	75.0	70	130				
1,1-Dichloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1-Dichloroethene	0.9800	0.15	1	0	98.0	70	130				
1,2,4-Trichlorobenzene	1.730	0.15	1	0	173	70	130				S
1,2,4-Trimethylbenzene	1.520	0.15	1	0	152	70	130				S
1,2-Dibromoethane	0.8100	0.15	1	0	81.0	70	130				
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2-Dichloroethane	0.8500	0.15	1	0	85.0	70	130				
1,2-Dichloropropane	0.8500	0.15	1	0	85.0	70	130				
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	70	130				
1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130				
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130				
2,2,4-trimethylpentane	0.8300	0.15	1	0	83.0	70	130				
4-ethyltoluene	1.440	0.15	1	0	144	70	130				S
Acetone	1.040	0.30	1	0	104	70	130				
Allyl chloride	1.010	0.15	1	0	101	70	130				
Benzene	0.7100	0.15	1	0	71.0	70	130				
Benzyl chloride	1.480	0.15	1	0	148	70	130				S

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-101310	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				
Carbon disulfide	1.160	0.15	1	0	116	70	130				
Carbon tetrachloride	0.8300	0.15	1	0	83.0	70	130				
Chlorobenzene	0.7300	0.15	1	0	73.0	70	130				
Chloroethane	0.7600	0.15	1	0	76.0	70	130				
Chloroform	0.8800	0.15	1	0	88.0	70	130				
Chloromethane	0.8000	0.15	1	0	80.0	70	130				
cis-1,2-Dichloroethene	0.8800	0.15	1	0	88.0	70	130				
cis-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130				
Cyclohexane	0.8300	0.15	1	0	83.0	70	130				
Dibromochloromethane	0.9300	0.15	1	0	93.0	70	130				
Ethyl acetate	1.020	0.25	1	0	102	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	1.100	0.15	1	0	110	70	130				
Freon 113	0.8600	0.15	1	0	86.0	70	130				
Freon 114	0.9300	0.15	1	0	93.0	70	130				
Freon 12	0.8500	0.15	1	0	85.0	70	130				
Heptane	0.8900	0.15	1	0	89.0	70	130				
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130				
Hexane	0.8400	0.15	1	0	84.0	70	130				
Isopropyl alcohol	1.610	0.15	1	0	161	70	130				S
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	0.9800	0.30	1	0	98.0	70	130				
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	70	130				
Methyl Isobutyl Ketone	0.8800	0.30	1	0	88.0	70	130				
Methyl tert-butyl ether	2.200	0.15	1	0	220	70	130				S
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	0.8200	0.15	1	0	82.0	70	130				
Propylene	0.9000	0.15	1	0	90.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101310	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	1.150	0.15	1	0	115	70	130				
Tetrachloroethylene	0.6600	0.15	1	0	66.0	70	130				S
Tetrahydrofuran	1.020	0.15	1	0	102	70	130				
Toluene	0.7800	0.15	1	0	78.0	70	130				
trans-1,2-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
trans-1,3-Dichloropropene	1.460	0.15	1	0	146	70	130				S
Trichloroethene	0.7200	0.15	1	0	72.0	70	130				
Vinyl acetate	1.050	0.15	1	0	105	70	130				
Vinyl Bromide	1.140	0.15	1	0	114	70	130				
Vinyl chloride	0.8100	0.15	1	0	81.0	70	130				

Sample ID ALCS1UGD-101210	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130	1.16	0.858	30	
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30	
1,1,2-Trichloroethane	0.8000	0.15	1	0	80.0	70	130	0.82	2.47	30	
1,1-Dichloroethane	1.050	0.15	1	0	105	70	130	1.05	0	30	
1,1-Dichloroethene	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
1,2,4-Trichlorobenzene	1.650	0.15	1	0	165	70	130	1.93	15.6	30	S
1,2,4-Trimethylbenzene	1.730	0.15	1	0	173	70	130	1.7	1.75	30	S
1,2-Dibromoethane	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130	1.19	0	30	
1,2-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.89	3.31	30	
1,2-Dichloropropane	0.9400	0.15	1	0	94.0	70	130	0.98	4.17	30	
1,3,5-Trimethylbenzene	1.360	0.15	1	0	136	70	130	1.26	7.63	30	S
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130	1.19	3.42	30	
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130	1.17	0	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-101210 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 3963
Client ID: ZZZZZ Batch ID: R3963 TestNo: TO-15 Analysis Date: 10/12/2010 SeqNo: 48357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.8300	0.30	1	0	83.0	70	130	1.14	31.5	30	R
2,2,4-trimethylpentane	0.8900	0.15	1	0	89.0	70	130	1	11.6	30	
4-ethyltoluene	1.660	0.15	1	0	166	70	130	1.38	18.4	30	S
Acetone	1.150	0.30	1	0	115	70	130	0.98	16.0	30	
Allyl chloride	1.070	0.15	1	0	107	70	130	1.1	2.76	30	
Benzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
Benzyl chloride	1.490	0.15	1	0	149	70	130	1.24	18.3	30	S
Bromodichloromethane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Bromoform	1.100	0.15	1	0	110	70	130	0.94	15.7	30	
Bromomethane	0.9300	0.15	1	0	93.0	70	130	0.88	5.52	30	
Carbon disulfide	1.990	0.15	1	0	199	70	130	1.2	49.5	30	SR
Carbon tetrachloride	0.8600	0.15	1	0	86.0	70	130	0.74	15.0	30	
Chlorobenzene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Chloroethane	0.8400	0.15	1	0	84.0	70	130	0.8	4.88	30	
Chloroform	0.9700	0.15	1	0	97.0	70	130	0.96	1.04	30	
Chloromethane	0.8300	0.15	1	0	83.0	70	130	0.78	6.21	30	
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	1.03	0	30	
cis-1,3-Dichloropropene	1.390	0.15	1	0	139	70	130	1.22	13.0	30	S
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.06	13.1	30	
Dibromochloromethane	1.050	0.15	1	0	105	70	130	1.01	3.88	30	
Ethyl acetate	1.120	0.25	1	0	112	70	130	1.18	5.22	30	
Ethylbenzene	1.130	0.15	1	0	113	70	130	1.22	7.66	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
Freon 113	0.9200	0.15	1	0	92.0	70	130	0.86	6.74	30	
Freon 114	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	30	
Freon 12	0.8700	0.15	1	0	87.0	70	130	0.85	2.33	30	
Heptane	1.000	0.15	1	0	100	70	130	1.1	9.52	30	
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130	1.09	0.922	30	
Hexane	0.9700	0.15	1	0	97.0	70	130	0.97	0	30	
Isopropyl alcohol	1.050	0.15	1	0	105	70	130	1.31	22.0	30	
m&p-Xylene	2.120	0.30	2	0	106	70	130	2.29	7.71	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-101210	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3963	
Client ID:	ZZZZZ	Batch ID:	R3963	TestNo:	TO-15			Analysis Date:	10/12/2010	SeqNo:	48357	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	70	130	1.06	23.2	30	
Methyl Ethyl Ketone	0.9800	0.30	1	0	98.0	70	130	1.1	11.5	30	
Methyl Isobutyl Ketone	0.7800	0.30	1	0	78.0	70	130	0.87	10.9	30	
Methyl tert-butyl ether	2.650	0.15	1	0	265	70	130	2.04	26.0	30	S
Methylene chloride	1.590	0.15	1	0	159	70	130	0.83	62.8	30	SR
o-Xylene	1.010	0.15	1	0	101	70	130	1.05	3.88	30	
Propylene	0.8600	0.15	1	0	86.0	70	130	0.95	9.94	30	
Styrene	1.440	0.15	1	0	144	70	130	1.54	6.71	30	S
Tetrachloroethylene	0.7800	0.15	1	0	78.0	70	130	0.85	8.59	30	
Tetrahydrofuran	1.200	0.15	1	0	120	70	130	1.29	7.23	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.07	9.80	30	
trans-1,2-Dichloroethene	1.080	0.15	1	0	108	70	130	0.78	32.3	30	R
trans-1,3-Dichloropropene	1.700	0.15	1	0	170	70	130	1.25	30.5	30	SR
Trichloroethene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
Vinyl acetate	1.330	0.15	1	0	133	70	130	1.1	18.9	30	S
Vinyl Bromide	1.130	0.15	1	0	113	70	130	1.14	0.881	30	
Vinyl chloride	0.8300	0.15	1	0	83.0	70	130	0.81	2.44	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID AMB1UG-101210	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Page 51 of 295

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID: AMB1UG-101210	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:				RunNo: 3963				
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010				SeqNo: 48355				

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID AMB1UG-101210	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-101310	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101310	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101310	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek laboratories, LLC

Centek Laboratories

IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\%D = \frac{(RRFc - \text{mean } RRFi) * 100}{\text{mean } RRFi}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-5			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.58	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2,4-Trimethylbenzene	0.23	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Acetone	1.9	0.30		ppbV	1	10/12/2010 8:30:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Benzene	0.25	0.15		ppbV	1	10/12/2010 8:30:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Carbon disulfide	4.6	0.75		ppbV	5	10/13/2010 6:59:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Chloroform	11	0.75		ppbV	5	10/13/2010 6:59:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
cis-1,2-Dichloroethene	1.1	0.15		ppbV	1	10/12/2010 8:30:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Cyclohexane	0.94	0.15		ppbV	1	10/12/2010 8:30:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 8:30:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 11	0.30	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 113	0.19	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Freon 12	0.47	0.15		ppbV	1	10/12/2010 8:30:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
m&p-Xylene	0.15	0.30	J	ppbV	1	10/12/2010 8:30:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
Methyl Ethyl Ketone	0.29	0.30	J	ppbV	1	10/12/2010 8:30:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 8:30:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Tetrachloroethylene	0.24	0.15		ppbV	1	10/12/2010 8:30:00 PM
Tetrahydrofuran	4.8	0.75		ppbV	5	10/13/2010 6:59:00 AM
Toluene	0.35	0.15		ppbV	1	10/12/2010 8:30:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Trichloroethene	68	14		ppbV	90	10/13/2010 8:46:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 8:30:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	3.2	0.83		ug/m3	1	10/12/2010 8:30:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 8:30:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 8:30:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 8:30:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
1,2,4-Trimethylbenzene	1.1	0.75		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 8:30:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/12/2010 8:30:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 8:30:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 8:30:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 8:30:00 PM
Acetone	4.6	0.72		ug/m3	1	10/12/2010 8:30:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 8:30:00 PM
Benzene	0.81	0.49		ug/m3	1	10/12/2010 8:30:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 8:30:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 8:30:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 8:30:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 8:30:00 PM
Carbon disulfide	15	2.4		ug/m3	5	10/13/2010 6:59:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 8:30:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 8:30:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 8:30:00 PM
Chloroform	53	3.7		ug/m3	5	10/13/2010 6:59:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 8:30:00 PM
cis-1,2-Dichloroethene	4.5	0.60		ug/m3	1	10/12/2010 8:30:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 8:30:00 PM
Cyclohexane	3.3	0.52		ug/m3	1	10/12/2010 8:30:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 8:30:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 8:30:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/12/2010 8:30:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AA
Lab Order:	C1010018	**Tag Number:**	248
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.5	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 8:30:00 PM
Freon 12	2.4	0.75		ug/m3	1	10/12/2010 8:30:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 8:30:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 8:30:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 8:30:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 8:30:00 PM
m&p-Xylene	0.66	1.3	J	ug/m3	1	10/12/2010 8:30:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Methyl Ethyl Ketone	0.87	0.90	J	ug/m3	1	10/12/2010 8:30:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 8:30:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 8:30:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 8:30:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/12/2010 8:30:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 8:30:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 8:30:00 PM
Tetrachloroethylene	1.7	1.0		ug/m3	1	10/12/2010 8:30:00 PM
Tetrahydrofuran	14	2.2		ug/m3	5	10/13/2010 6:59:00 AM
Toluene	1.3	0.57		ug/m3	1	10/12/2010 8:30:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 8:30:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 8:30:00 PM
Trichloroethene	370	76		ug/m3	90	10/13/2010 8:46:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 8:30:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 8:30:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 8:30:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101220.D Vial: 6
Acq On : 12 Oct 2010 8:30 pm Operator: RJP
Sample : C1010018-001A Inst : MSD #1
Misc : C1010018-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 20:51:31 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

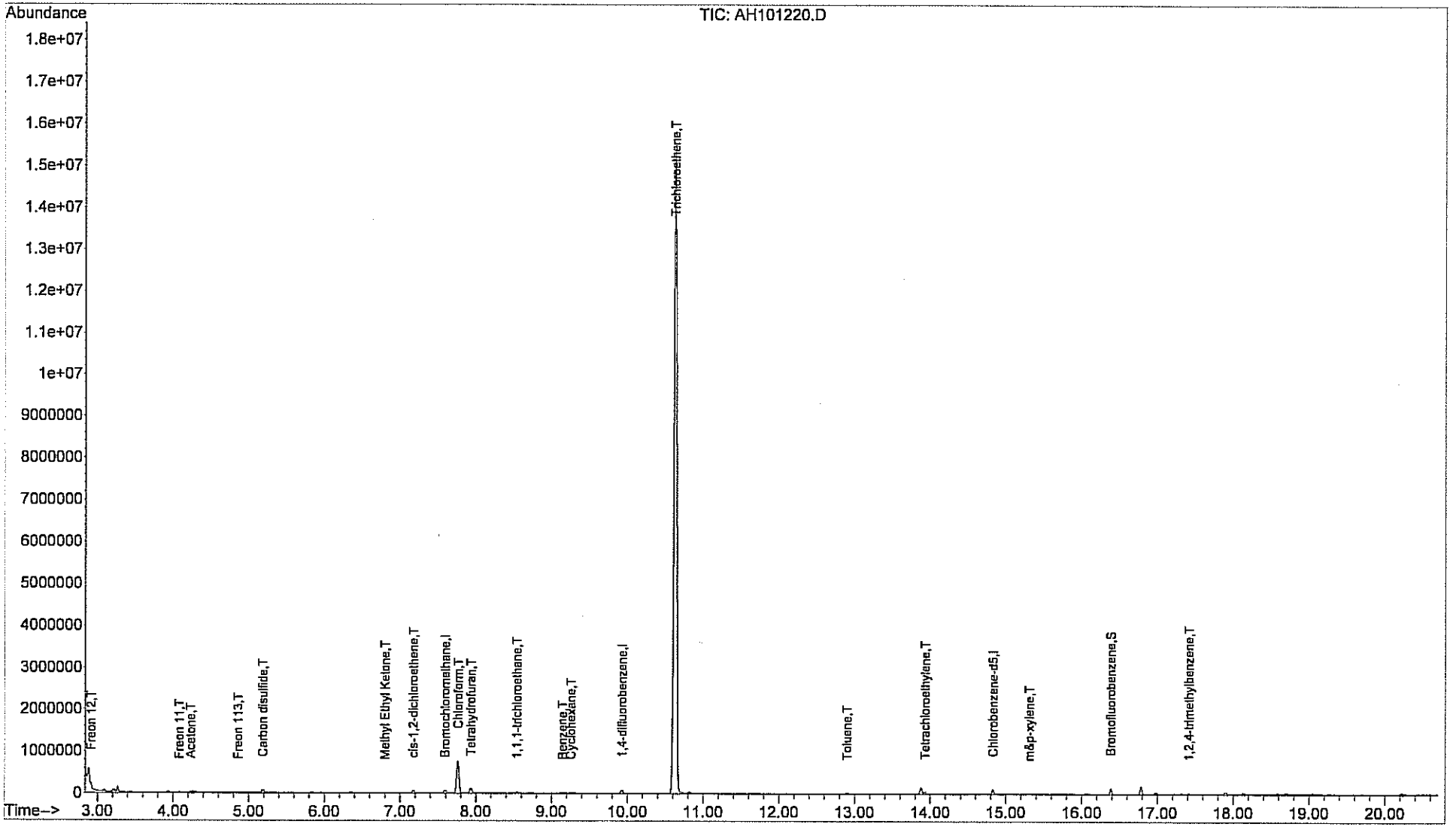
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.60	128	22535	1.00	ppb		-0.06
30) 1,4-difluorobenzene	9.93	114	82072	1.00	ppb		-0.06
44) Chlorobenzene-d5	14.83	117	65601	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	37526m	1.28	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	44235	0.47	ppb		97
11) Freon 11	4.08	101	13234	0.30	ppb		99
12) Acetone	4.23	58	10856	1.90	ppb	#	1
15) Freon 113	4.86	101	7104	0.19	ppb		98
18) Carbon disulfide	5.19	76	98849	2.82	ppb		96
23) Methyl Ethyl Ketone	6.80	43	11720	0.29	ppb	#	62
24) cis-1,2-dichloroethene	7.17	61	35289	1.12	ppb		98
27) Chloroform	7.76	83	701765	10.75	ppb		99
28) Tetrahydrofuran	7.93	42	68001	5.42	ppb		97
31) 1,1,1-trichloroethane	8.54	97	30443	0.58	ppb		99
32) Cyclohexane	9.26	56	26065	0.94	ppb	#	23
34) Benzene	9.14	78	21387	0.25	ppb		97
38) Trichloroethene	10.63	130	7565261	139.78	ppb		97
45) Toluene	12.90	92	16457	0.35	ppb		98
50) Tetrachloroethylene	13.93	164	12689	0.24	ppb		99
53) m&p-xylene	15.31	91	10125	0.15	ppb		100
61) 1,2,4-trimethylbenzene	17.42	105	8490	0.23	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

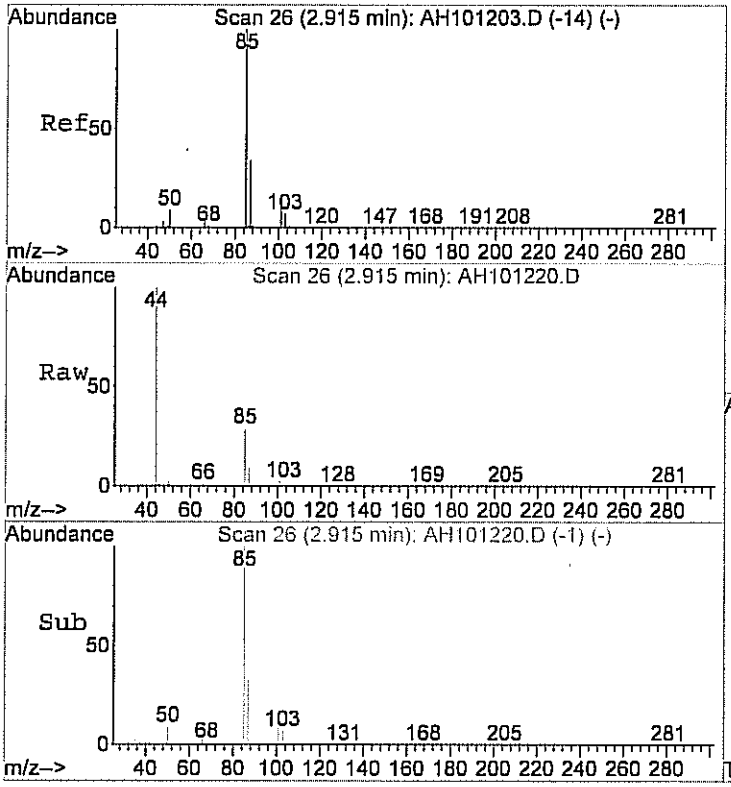
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101220.D Vial: 6
Acq On : 12 Oct 2010 8:30 pm Operator: RJP
Sample : C1010018-001A Inst : MSD #1
Misc : C1010018-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 11:53 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



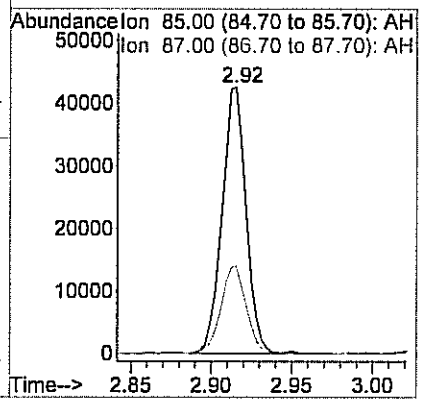
Centek laboratories, LLC

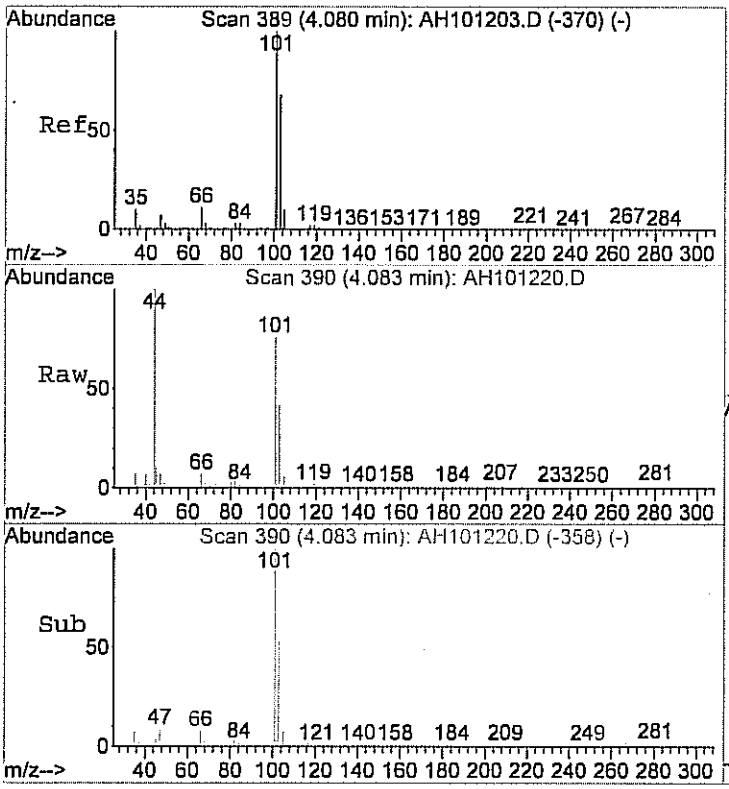


#3
Freon 12
Concen: 0.47 ppb
RT: 2.92 min Scan# 26
Delta R.T. -0.04 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 85 Resp: 44235

Ion	Ratio	Lower	Upper
85	100		
87	34.4	12.7	52.7

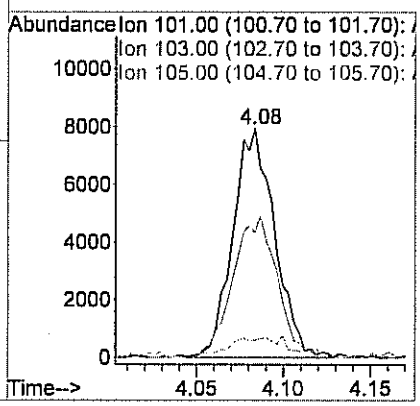


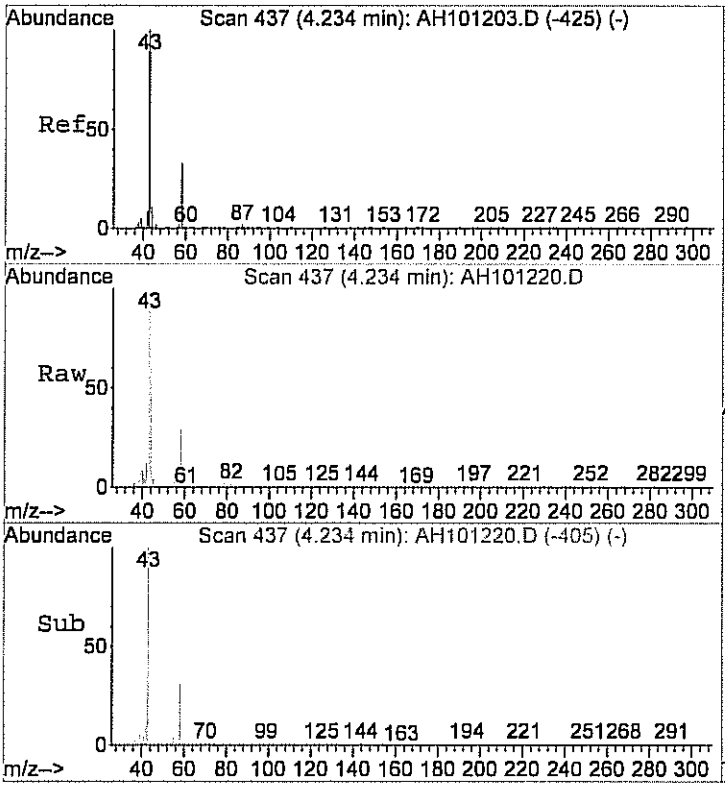


#11
Freon 11
Concen: 0.30 ppb
RT: 4.08 min Scan# 390
Delta R.T. -0.05 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion:101 Resp: 13234

Ion	Ratio	Lower	Upper
101	100		
103	65.7	44.6	84.6
105	11.8	0.0	31.1

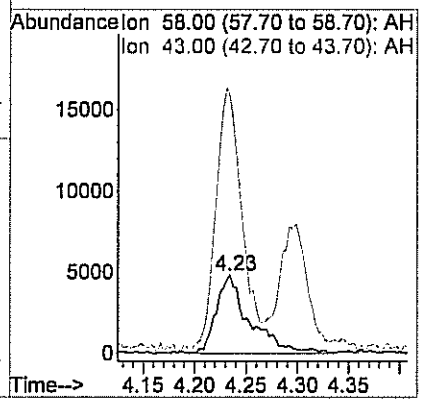


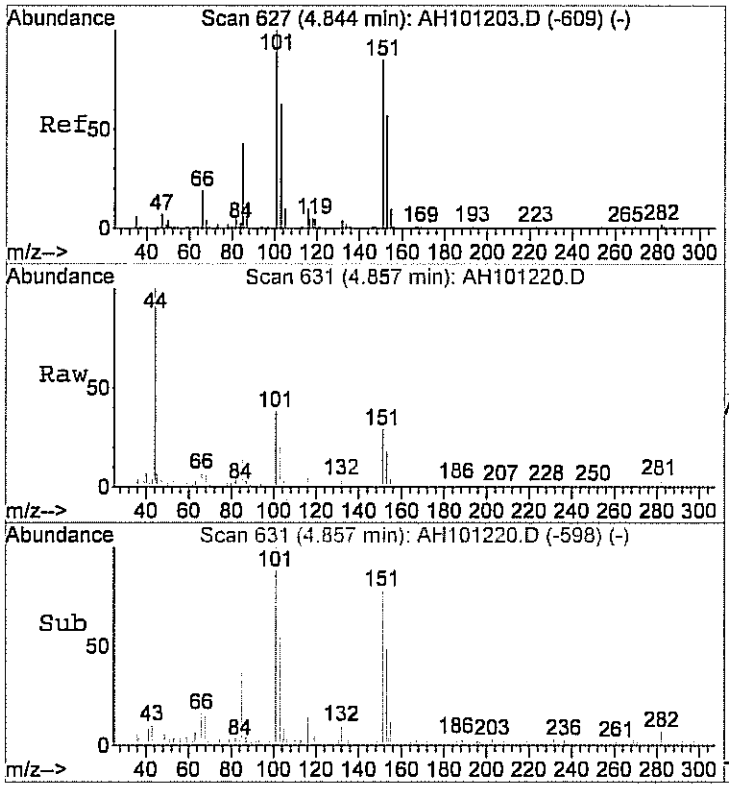


#12
Acetone
Concen: 1.90 ppb
RT: 4.23 min Scan# 437
Delta R.T. -0.05 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 58 Resp: 10856

Ion	Ratio	Lower	Upper
58	100		
43	280.0	37.6	97.6#

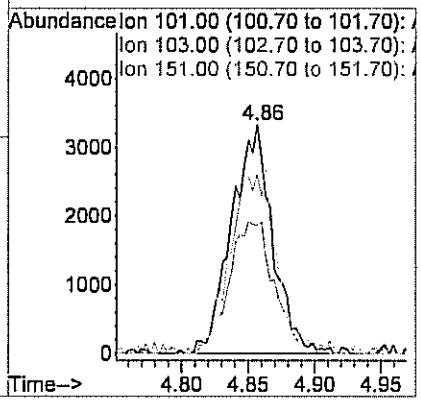


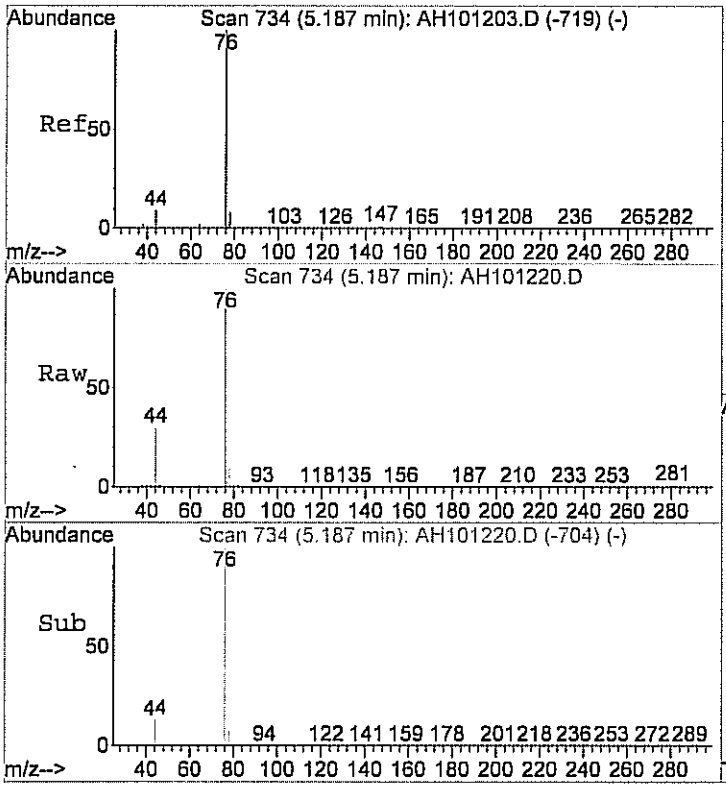


#15
Freon 113
Concen: 0.19 ppb
RT: 4.86 min Scan# 631
Delta R.T. -0.04 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion:101 Resp: 7104

Ion	Ratio	Lower	Upper
101	100		
103	64.5	44.8	84.8
151	88.4	65.3	105.3

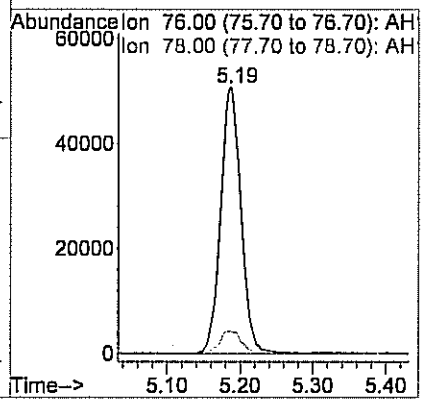


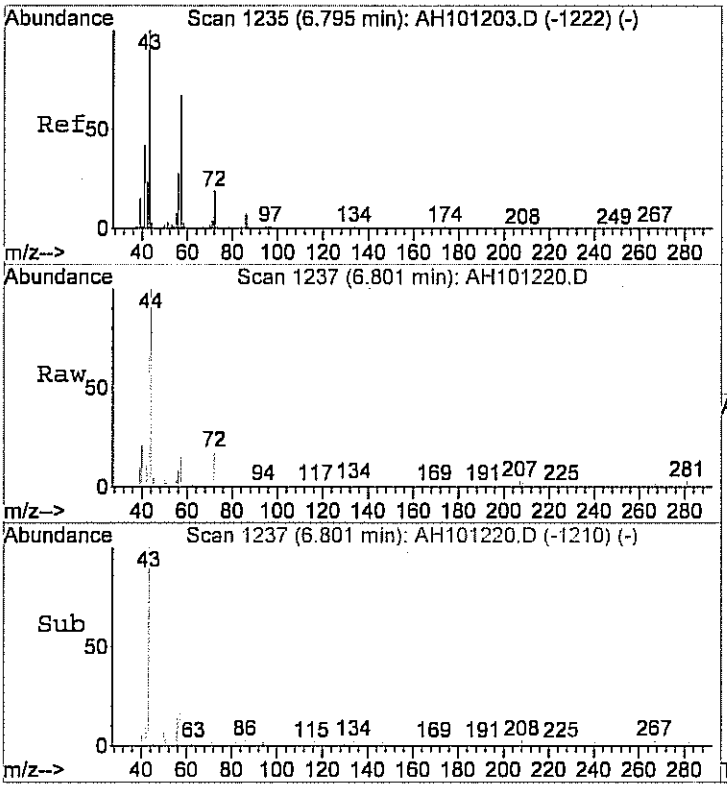


#18
Carbon disulfide
Concen: 2.82 ppb
RT: 5.19 min Scan# 734
Delta R.T. -0.05 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 76 Resp: 98849

Ion	Ratio	Lower	Upper
76	100		
78	8.9	0.0	30.6

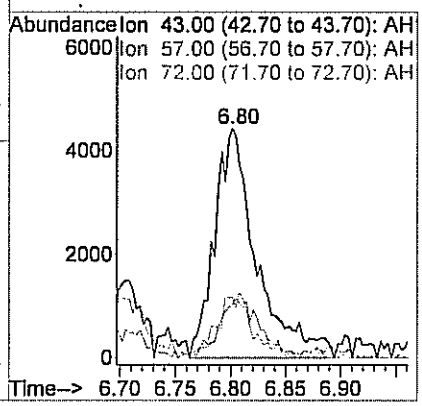


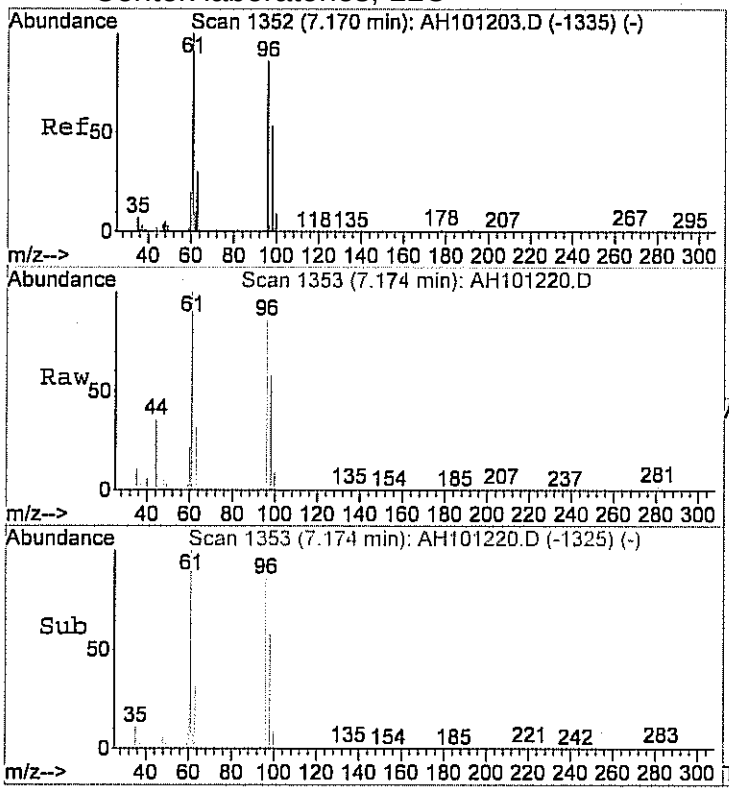


#23
Methyl Ethyl Ketone
Concen: 0.29 ppb
RT: 6.80 min Scan# 1237
Delta R.T. -0.06 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 43 Resp: 11720

Ion	Ratio	Lower	Upper
43	100		
57	25.0	40.7	80.7#
72	24.5	0.0	39.3

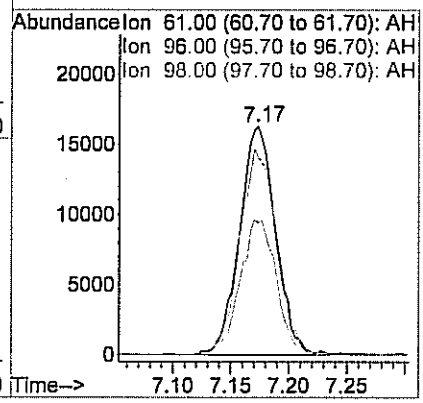


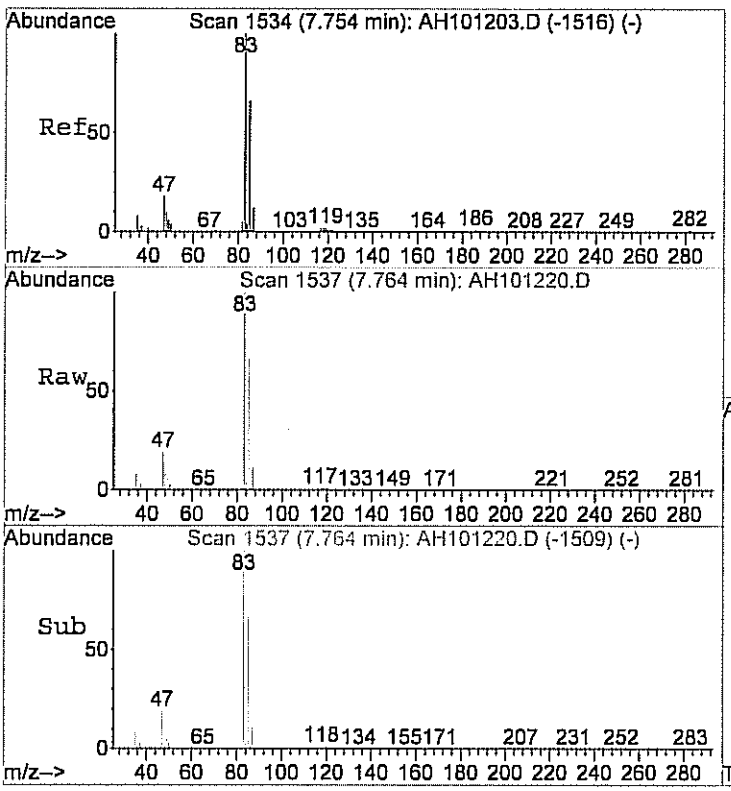


#24
cis-1,2-dichloroethene
Concen: 1.12 ppb
RT: 7.17 min Scan# 1353
Delta R.T. -0.06 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 61 Resp: 35289

Ion	Ratio	Lower	Upper
61	100		
96	91.4	70.1	110.1
98	59.3	37.9	77.9

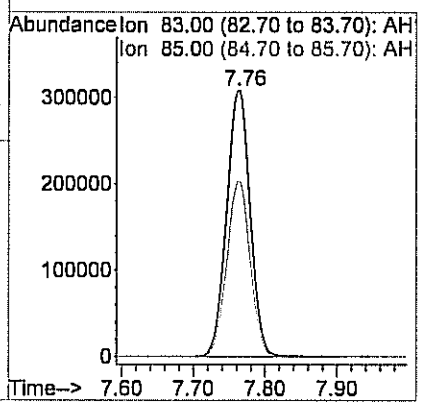


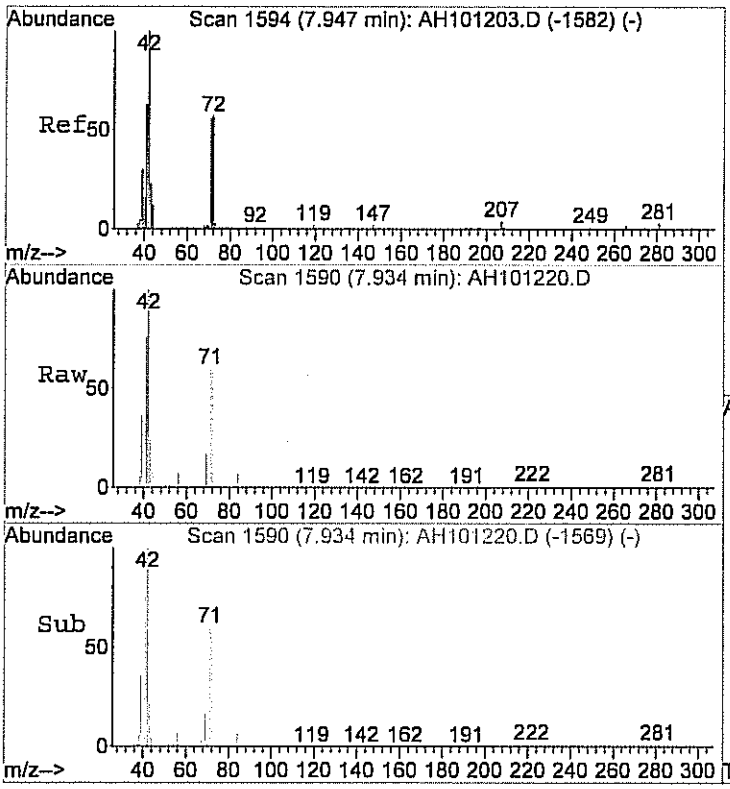


#27
Chloroform
Concen: 10.75 ppb
RT: 7.76 min Scan# 1537
Delta R.T. -0.06 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 83 Resp: 701765

Ion	Ratio	Lower	Upper
83	100		
85	65.9	45.2	85.2

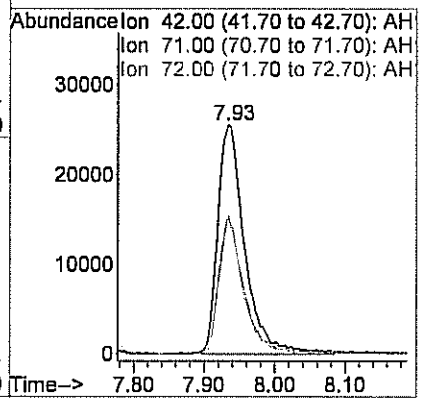


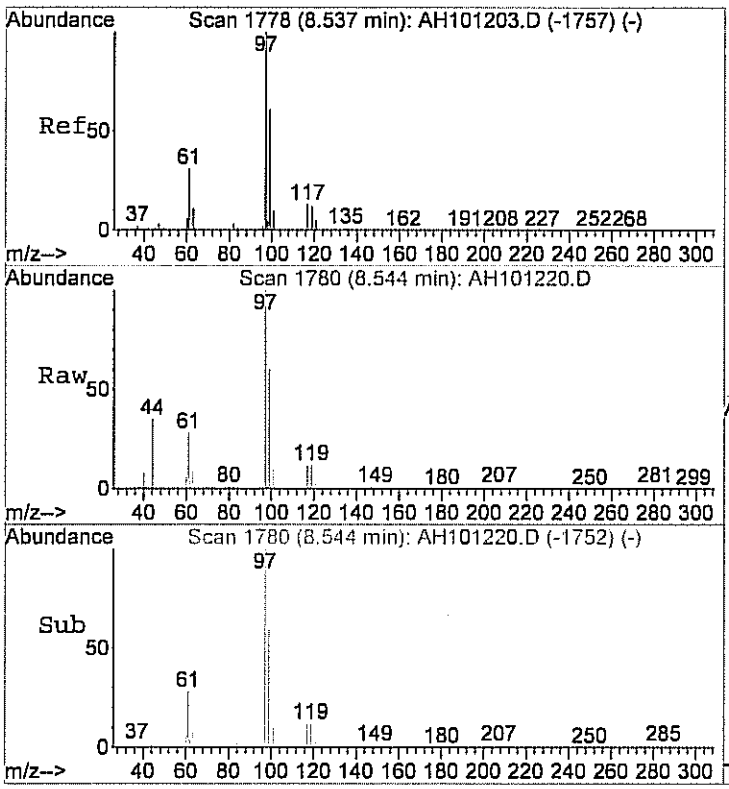


#28
Tetrahydrofuran
Concen: 5.42 ppb
RT: 7.93 min Scan# 1590
Delta R.T. -0.08 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 42 Resp: 68001

Ion	Ratio	Lower	Upper
42	100		
71	55.8	38.8	78.8
72	54.5	32.5	72.5

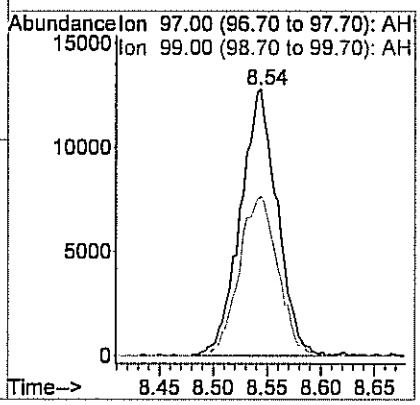


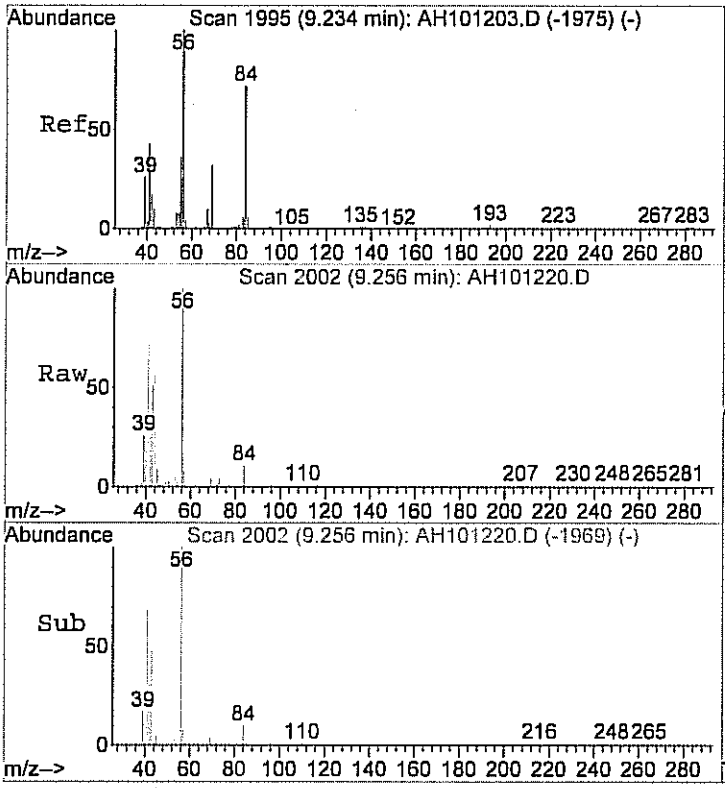


#31
1,1,1-trichloroethane
Concen: 0.58 ppb
RT: 8.54 min Scan# 1780
Delta R.T. -0.06 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 97 Resp: 30443

Ion	Ratio	Lower	Upper
97	100		
99	63.1	43.5	83.5

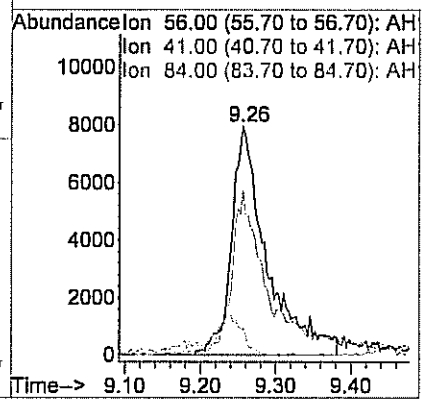


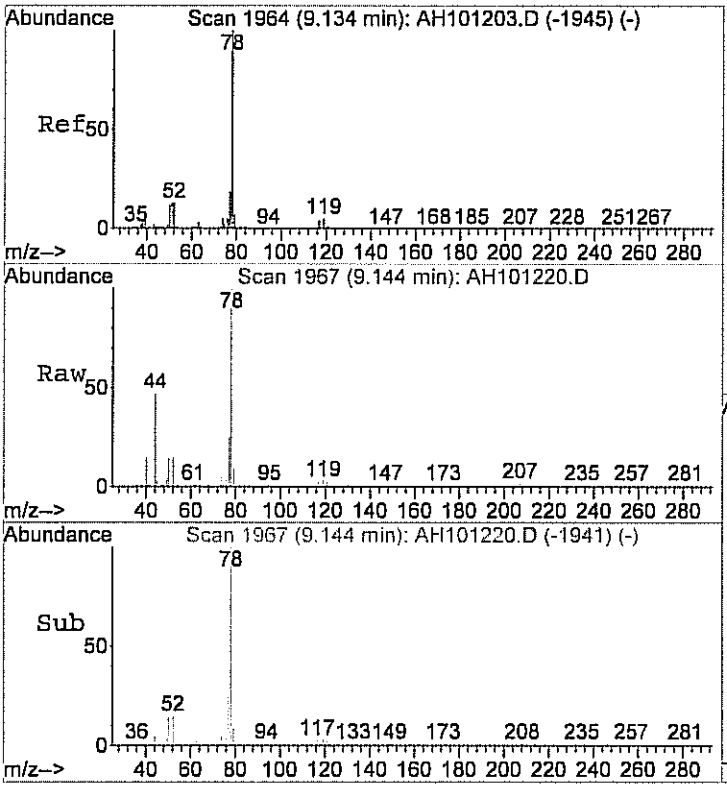


#32
Cyclohexane
Concen: 0.94 ppb
RT: 9.26 min Scan# 2002
Delta R.T. -0.04 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 56 Resp: 26065

Ion	Ratio	Lower	Upper
56	100		
41	67.3	38.7	78.7
84	13.1	120.2	160.2#

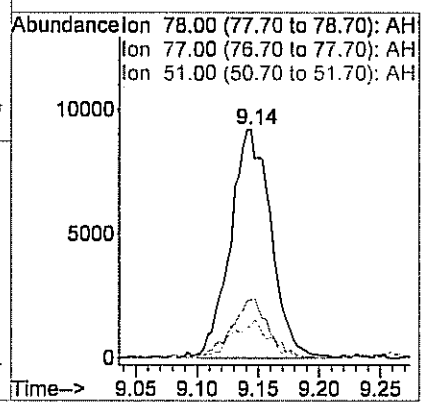


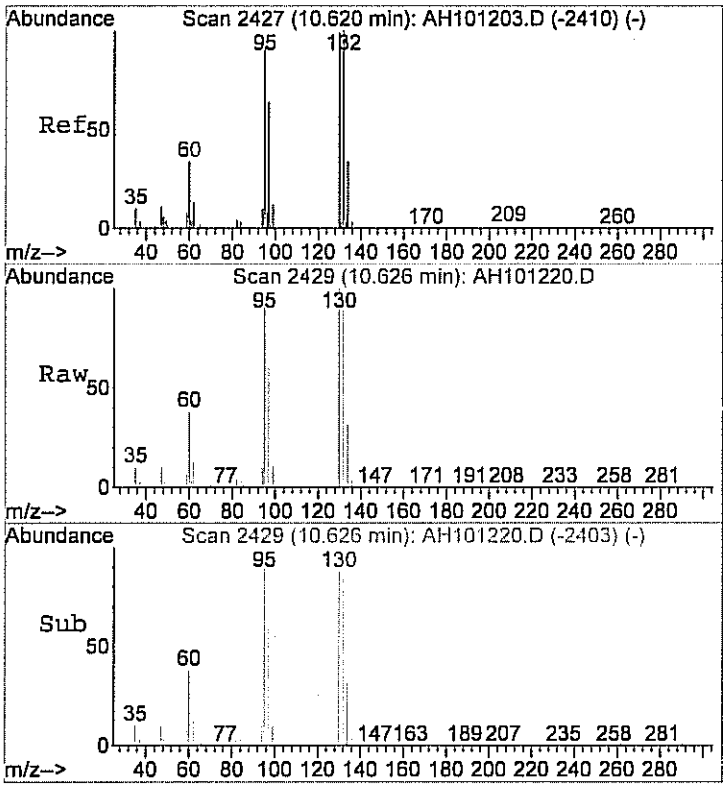


#34
Benzene
Concen: 0.25 ppb
RT: 9.14 min Scan# 1967
Delta R.T. -0.07 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 78 Resp: 21387

Ion	Ratio	Lower	Upper
78	100		
77	23.5	2.0	42.0
51	15.1	0.0	34.0

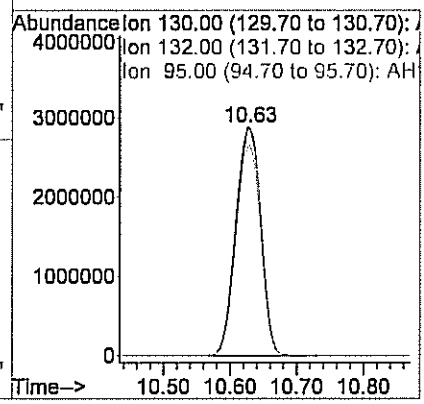


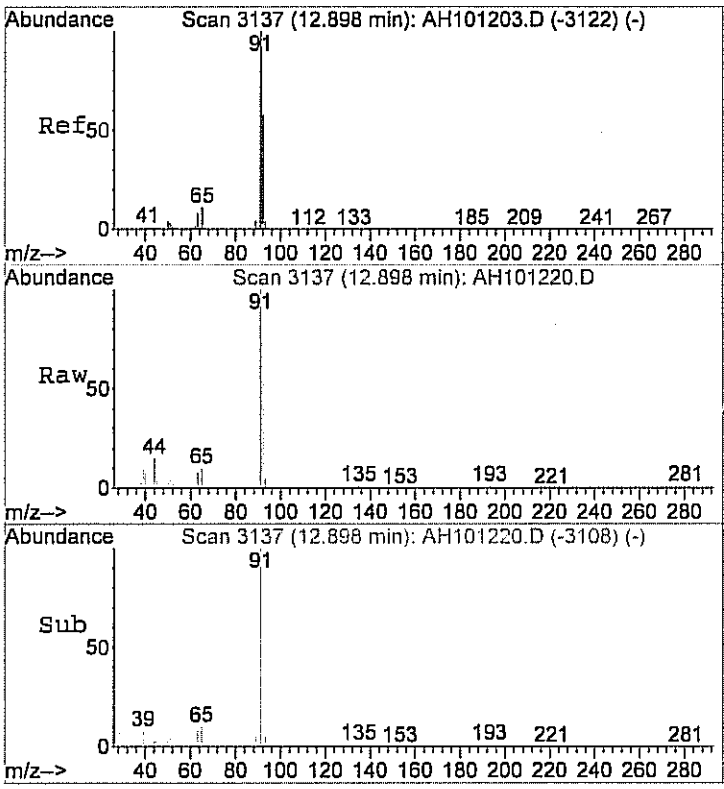


#38
Trichloroethene
Concen: 139.78 ppb
RT: 10.63 min Scan# 2429
Delta R.T. -0.07 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion:130 Resp: 7565261

Ion	Ratio	Lower	Upper
130	100		
132	97.2	78.8	118.8
95	91.2	75.3	115.3

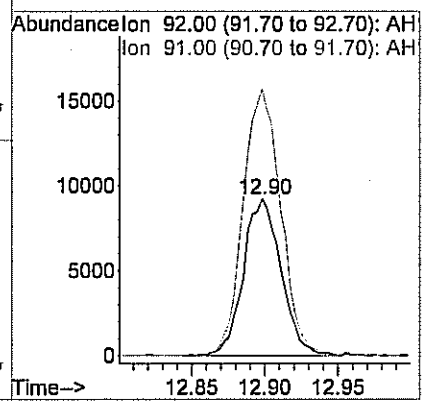


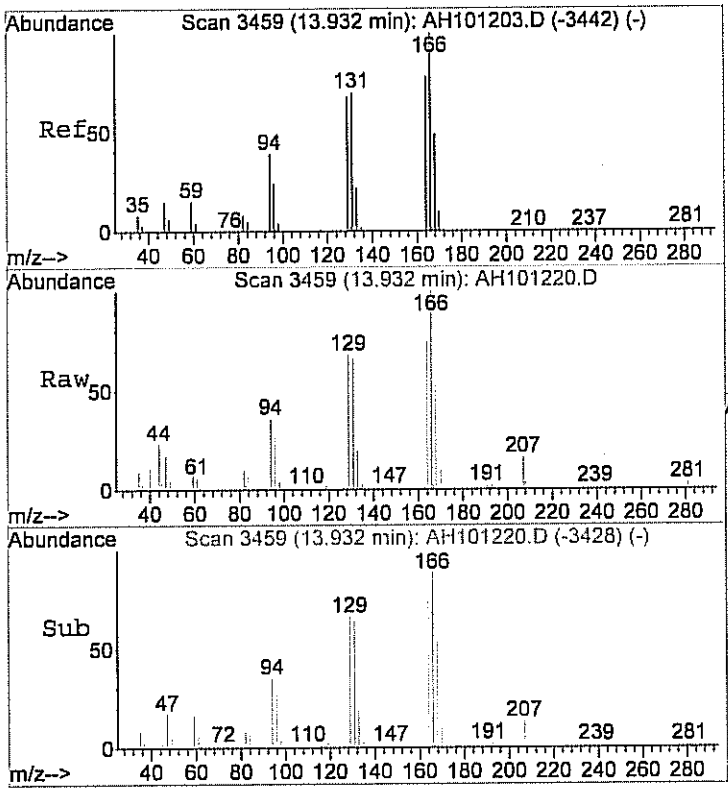


#45
Toluene
Concen: 0.35 ppb
RT: 12.90 min Scan# 3137
Delta R.T. -0.06 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 92 Resp: 16457

Ion	Ratio	Lower	Upper
92	100		
91	171.4	154.6	194.6

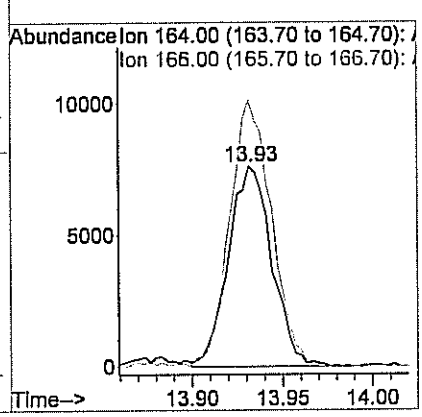


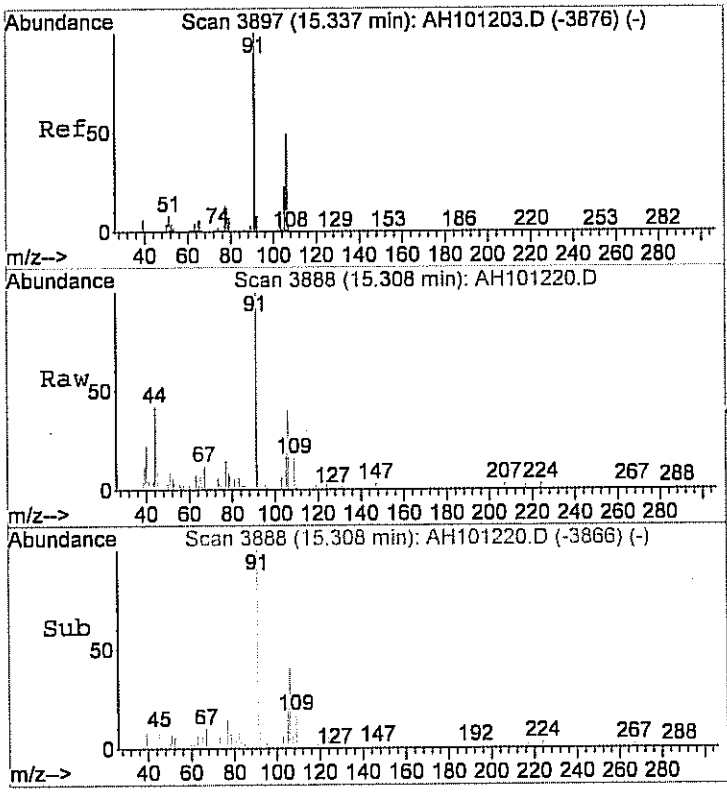


#50
Tetrachloroethylene
Concen: 0.24 ppb
RT: 13.93 min Scan# 3459
Delta R.T. -0.05 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion:164 Resp: 12689

Ion	Ratio	Lower	Upper
164	100		
166	127.4	108.6	148.6

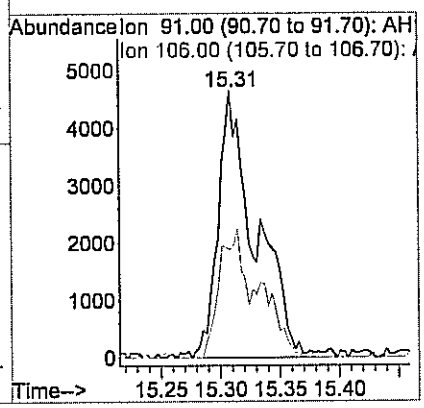


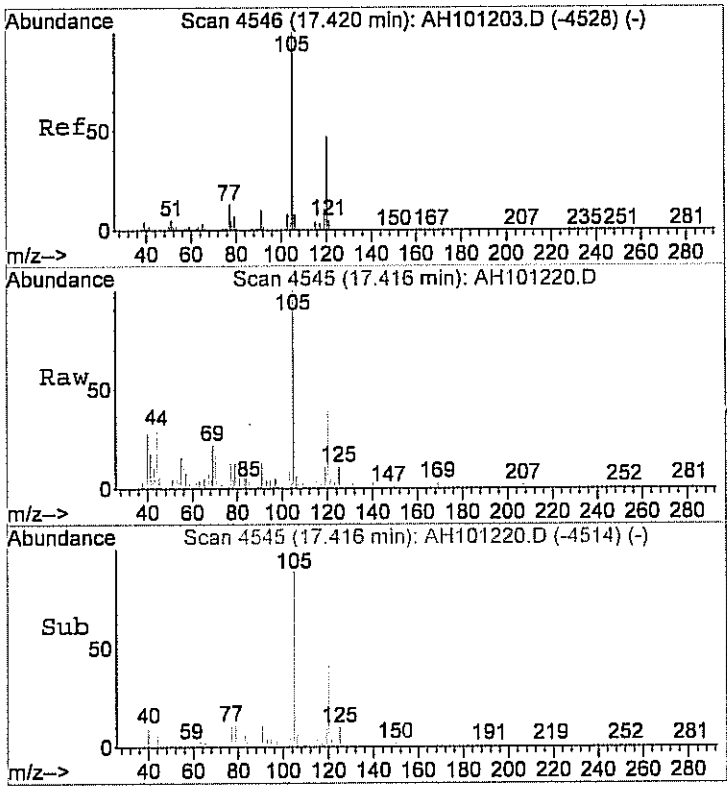


#53
m&p-xylene
Concen: 0.15 ppb
RT: 15.31 min Scan# 3888
Delta R.T. -0.08 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion: 91 Resp: 10125

Ion	Ratio	Lower	Upper
91	100		
106	49.3	29.1	69.1

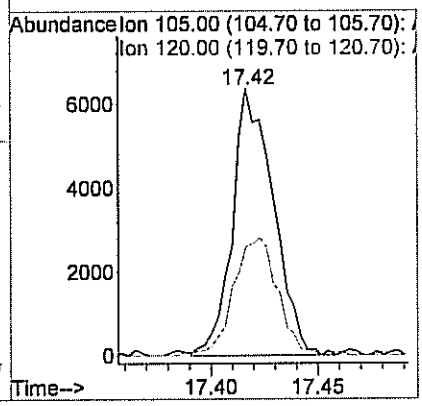




#61
1,2,4-trimethylbenzene
Concen: 0.23 ppb
RT: 17.42 min Scan# 4545
Delta R.T. -0.05 min
Lab File: AH101220.D
Acq: 12 Oct 2010 8:30 pm

Tgt Ion:105 Resp: 8490

Ion	Ratio	Lower	Upper
105	100		
120	47.2	24.3	64.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101239.D Vial: 13
Acq On : 13 Oct 2010 6:59 am Operator: RJP
Sample : C1010018-001A 5x Inst : MSD #1
Misc : C1010018-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 07:20:40 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	21348	1.00	ppb	-0.07
30) 1,4-difluorobenzene	9.92	114	75372	1.00	ppb	-0.07
44) Chlorobenzene-d5	14.83	117	61673	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	33024	1.20	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%			
Target Compounds						Qvalue
18) Carbon disulfide	5.18	76	30674	0.93	ppb	99
27) Chloroform	7.75	83	131092	2.12	ppb	100
28) Tetrahydrofuran	7.95	42	11318	0.95	ppb	95
38) Trichloroethene	10.62	130	1745287	35.11	ppb	96

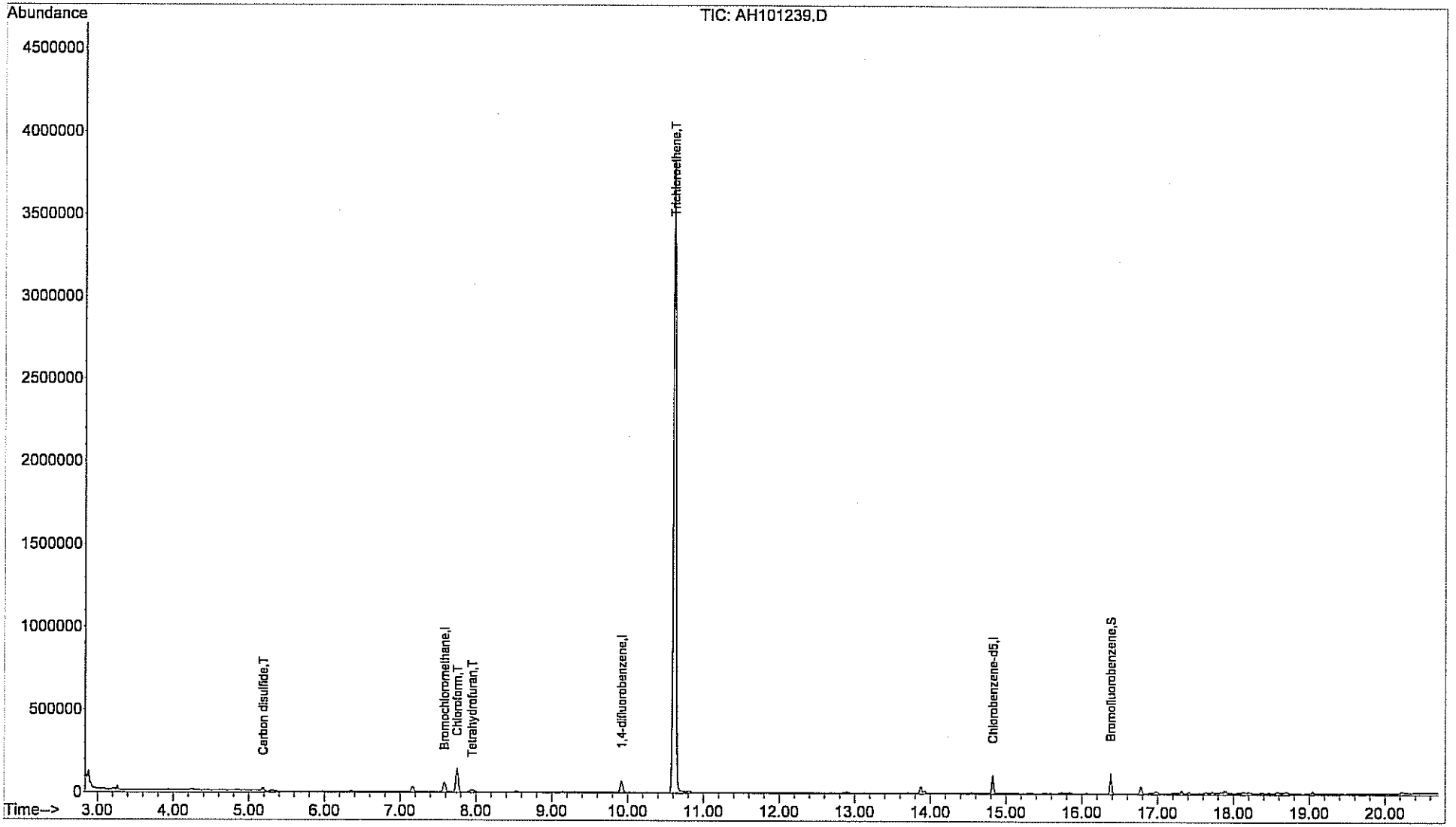
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH101239.D A928_1UT.M Tue Nov 09 13:49:26 2010 MSD1 Page 1

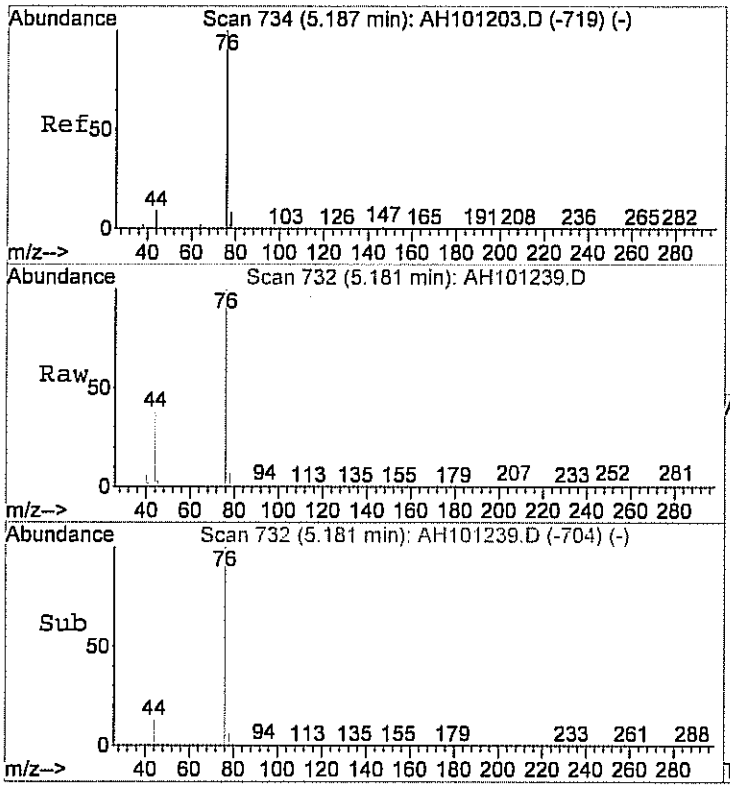
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101239.D
Acq On : 13 Oct 2010 6:59 am
Sample : C1010018-001A 5x
Misc : C1010018-001A
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:23 2010

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

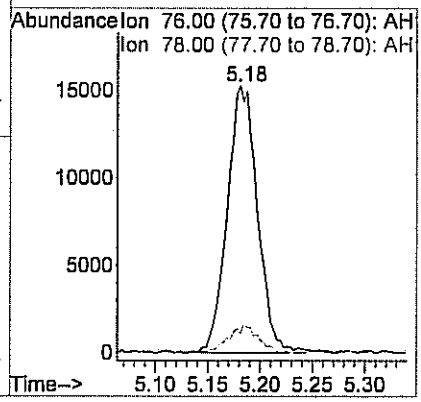


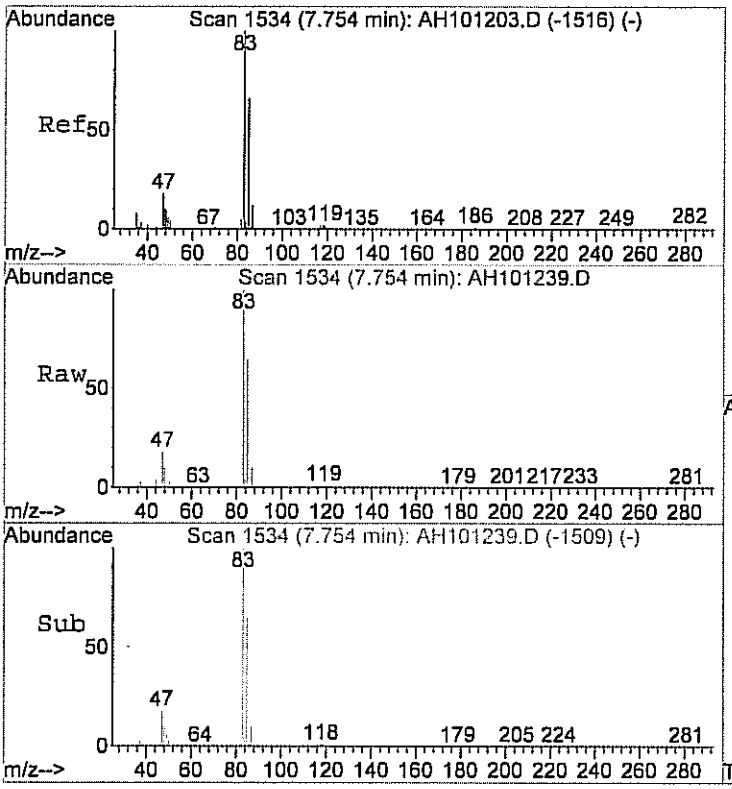


#18
Carbon disulfide
Concen: 0.93 ppb
RT: 5.18 min Scan# 732
Delta R.T. -0.06 min
Lab File: AH101239.D
Acq: 13 Oct 2010 6:59 am

Tgt Ion: 76 Resp: 30674

Ion	Ratio	Lower	Upper
76	100		
78	10.1	0.0	30.6

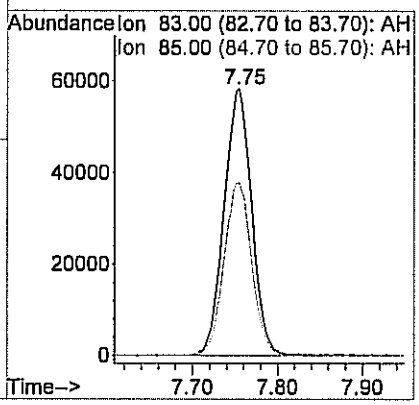


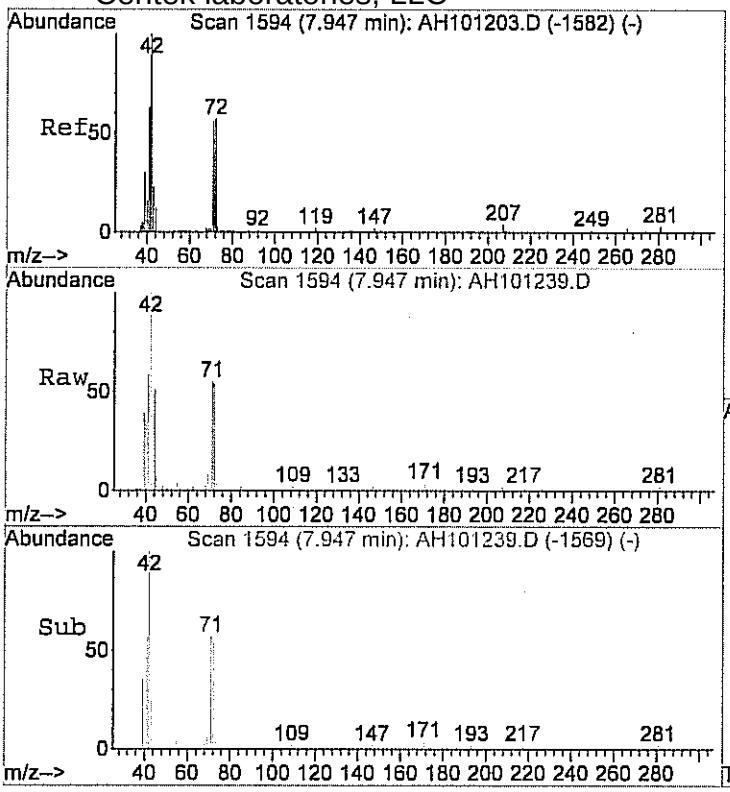


#27
Chloroform
Concen: 2.12 ppb
RT: 7.75 min Scan# 1534
Delta R.T. -0.07 min
Lab File: AH101239.D
Acq: 13 Oct 2010 6:59 am

Tgt Ion: 83 Resp: 131092

Ion	Ratio	Lower	Upper
83	100		
85	65.4	45.2	85.2

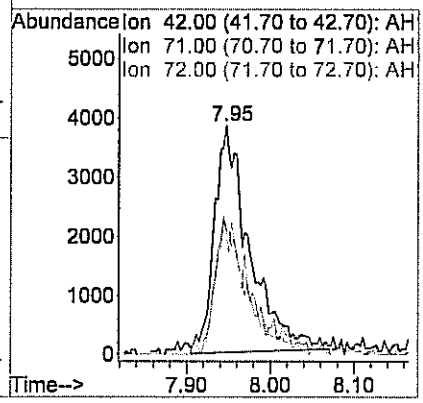


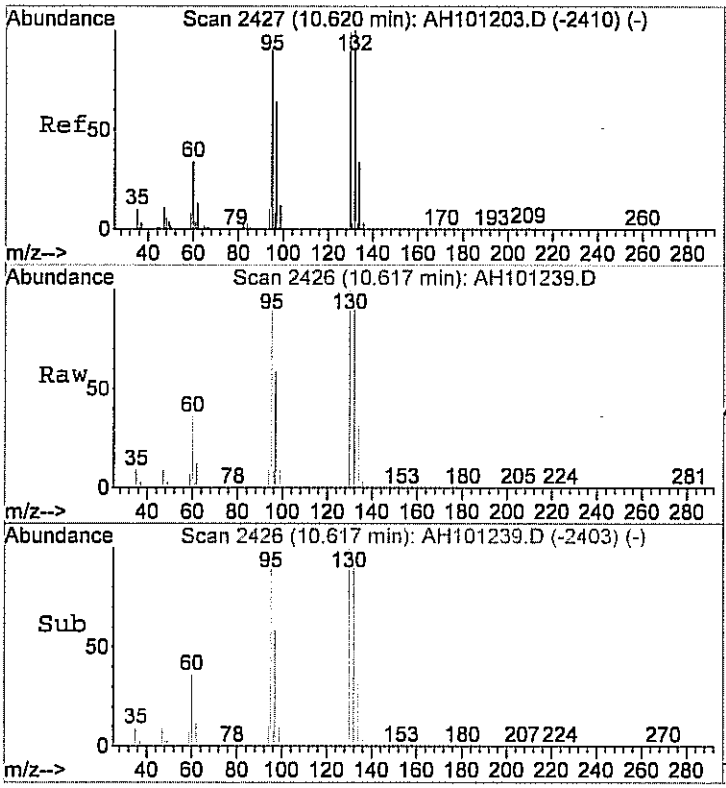


#28
Tetrahydrofuran
Concen: 0.95 ppb
RT: 7.95 min Scan# 1594
Delta R.T. -0.07 min
Lab File: AH101239.D
Acq: 13 Oct 2010 6:59 am

Tgt Ion: 42 Resp: 11318

Ion	Ratio	Lower	Upper
42	100		
71	57.2	38.8	78.8
72	57.7	32.5	72.5

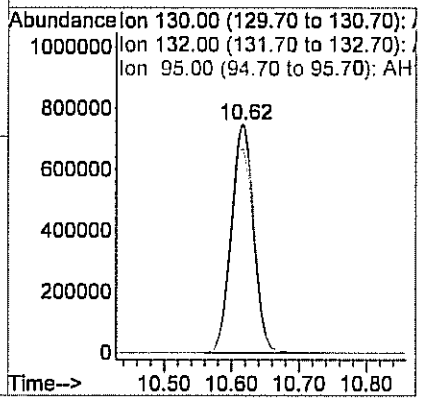




#38
Trichloroethene
Concen: 35.11 ppb
RT: 10.62 min Scan# 2426
Delta R.T. -0.08 min
Lab File: AH101239.D
Acq: 13 Oct 2010 6:59 am

Tgt Ion:130 Resp: 1745287

Ion	Ratio	Lower	Upper
130	100		
132	97.4	78.8	118.8
95	89.6	75.3	115.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101311.D Vial: 8
Acq On : 13 Oct 2010 8:46 pm Operator: RJP
Sample : C1010018-001A 90X Inst : MSD #1
Misc : C1010018-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 21:07:37 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

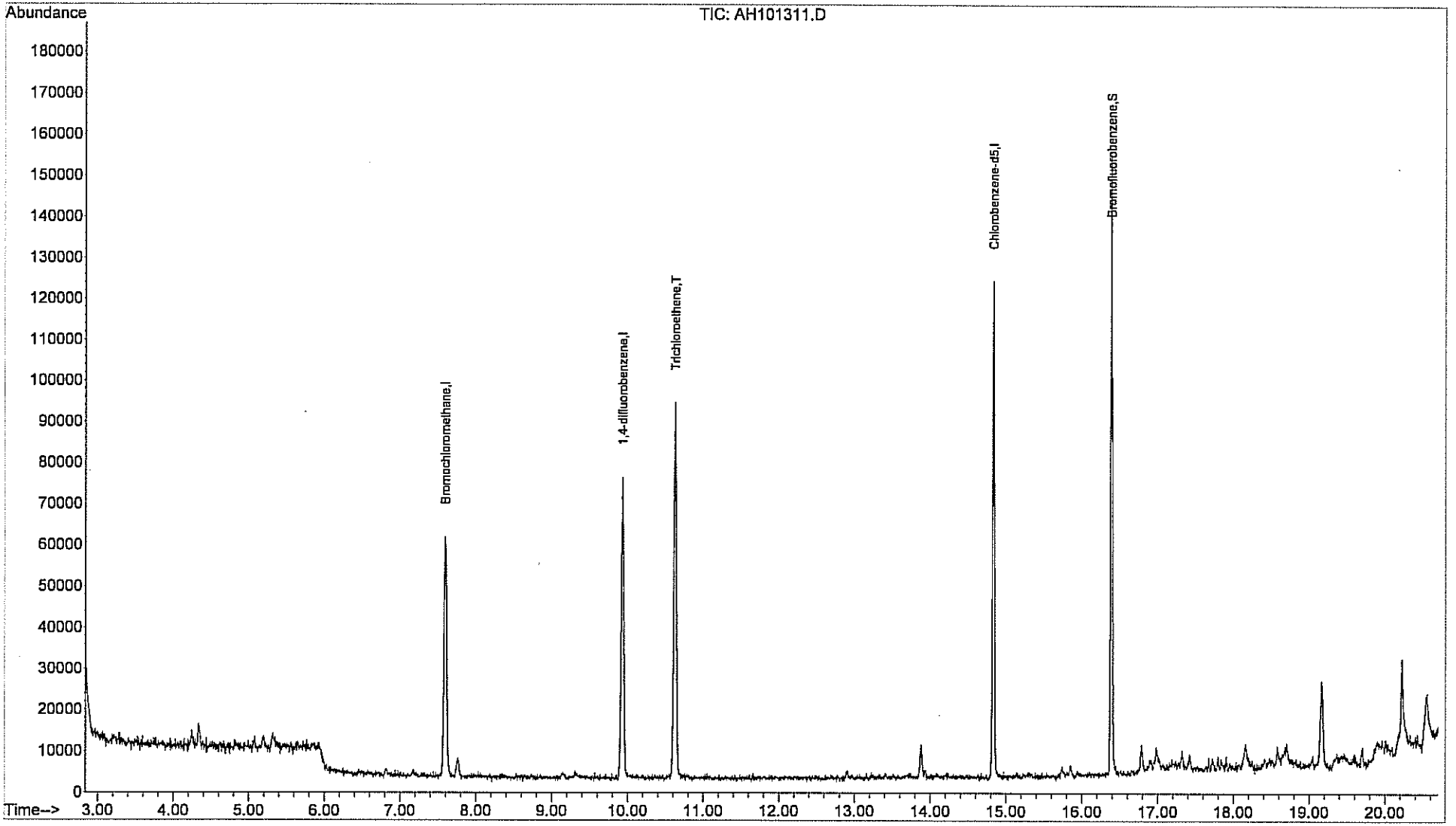
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	22760	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.93	114	80557	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	71104	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.39	95	41471	1.30	ppb	-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 130.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.62	130	39778	0.75	ppb	100

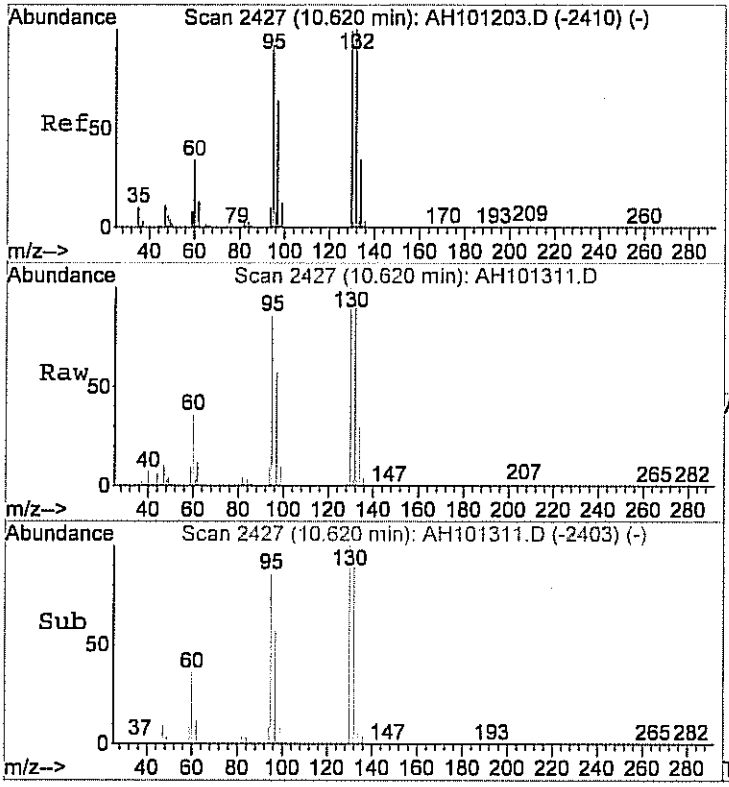
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101311.D Vial: 8
Acq On : 13 Oct 2010 8:46 pm Operator: RJP
Sample : C1010018-001A 90X Inst : MSD #1
Misc : C1010018-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:24 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

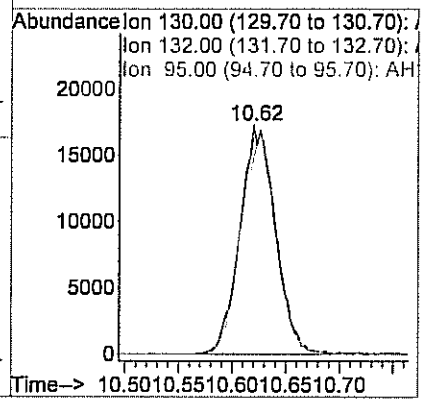




#38
Trichloroethene
Concen: 0.75 ppb
RT: 10.62 min Scan# 2427
Delta R.T. -0.07 min
Lab File: AH101311.D
Acq: 13 Oct 2010 8:46 pm

Tgt Ion:130 Resp: 39778

Ion	Ratio	Lower	Upper
130	100		
132	98.6	78.8	118.8
95	94.7	75.3	115.3



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-6			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	0.19	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2,4-Trimethylbenzene	0.22	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Acetone	1.3	0.30		ppbV	1	10/12/2010 9:03:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Benzene	0.14	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Carbon disulfide	0.59	0.15		ppbV	1	10/12/2010 9:03:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Chloroform	4.8	0.75		ppbV	5	10/13/2010 7:31:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
cis-1,2-Dichloroethene	0.56	0.15		ppbV	1	10/12/2010 9:03:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 9:03:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 11	0.26	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Freon 12	0.45	0.15		ppbV	1	10/12/2010 9:03:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl Ethyl Ketone	0.21	0.30	J	ppbV	1	10/12/2010 9:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:03:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Tetrachloroethylene	0.12	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
Tetrahydrofuran	3.3	0.75		ppbV	5	10/13/2010 7:31:00 AM
Toluene	0.14	0.15	J	ppbV	1	10/12/2010 9:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Trichloroethene	240	14		ppbV	90	10/13/2010 3:32:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:03:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	1.1	0.83		ug/m3	1	10/12/2010 9:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:03:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 9:03:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:03:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
1,2,4-Trimethylbenzene	1.1	0.75		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 9:03:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/12/2010 9:03:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 9:03:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 9:03:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 9:03:00 PM
Acetone	3.1	0.72		ug/m3	1	10/12/2010 9:03:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 9:03:00 PM
Benzene	0.45	0.49	J	ug/m3	1	10/12/2010 9:03:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 9:03:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:03:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 9:03:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 9:03:00 PM
Carbon disulfide	1.9	0.47		ug/m3	1	10/12/2010 9:03:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 9:03:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 9:03:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 9:03:00 PM
Chloroform	24	3.7		ug/m3	5	10/13/2010 7:31:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 9:03:00 PM
cis-1,2-Dichloroethene	2.3	0.60		ug/m3	1	10/12/2010 9:03:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:03:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/12/2010 9:03:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 9:03:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 9:03:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/12/2010 9:03:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AA
Lab Order:	C1010018	**Tag Number:**	223
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 9:03:00 PM
Freon 12	2.3	0.75		ug/m3	1	10/12/2010 9:03:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 9:03:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 9:03:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 9:03:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 9:03:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/12/2010 9:03:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Methyl Ethyl Ketone	0.63	0.90	J	ug/m3	1	10/12/2010 9:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:03:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 9:03:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 9:03:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/12/2010 9:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 9:03:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 9:03:00 PM
Tetrachloroethylene	0.83	1.0	J	ug/m3	1	10/12/2010 9:03:00 PM
Tetrahydrofuran	9.9	2.2		ug/m3	5	10/13/2010 7:31:00 AM
Toluene	0.54	0.57	J	ug/m3	1	10/12/2010 9:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:03:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:03:00 PM
Trichloroethene	1300	76		ug/m3	90	10/13/2010 3:32:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 9:03:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 9:03:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 9:03:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101221.D Vial: 7
Acq On : 12 Oct 2010 9:03 pm Operator: RJP
Sample : C1010018-002A Inst : MSD #1
Misc : C1010018-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 21:24:25 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

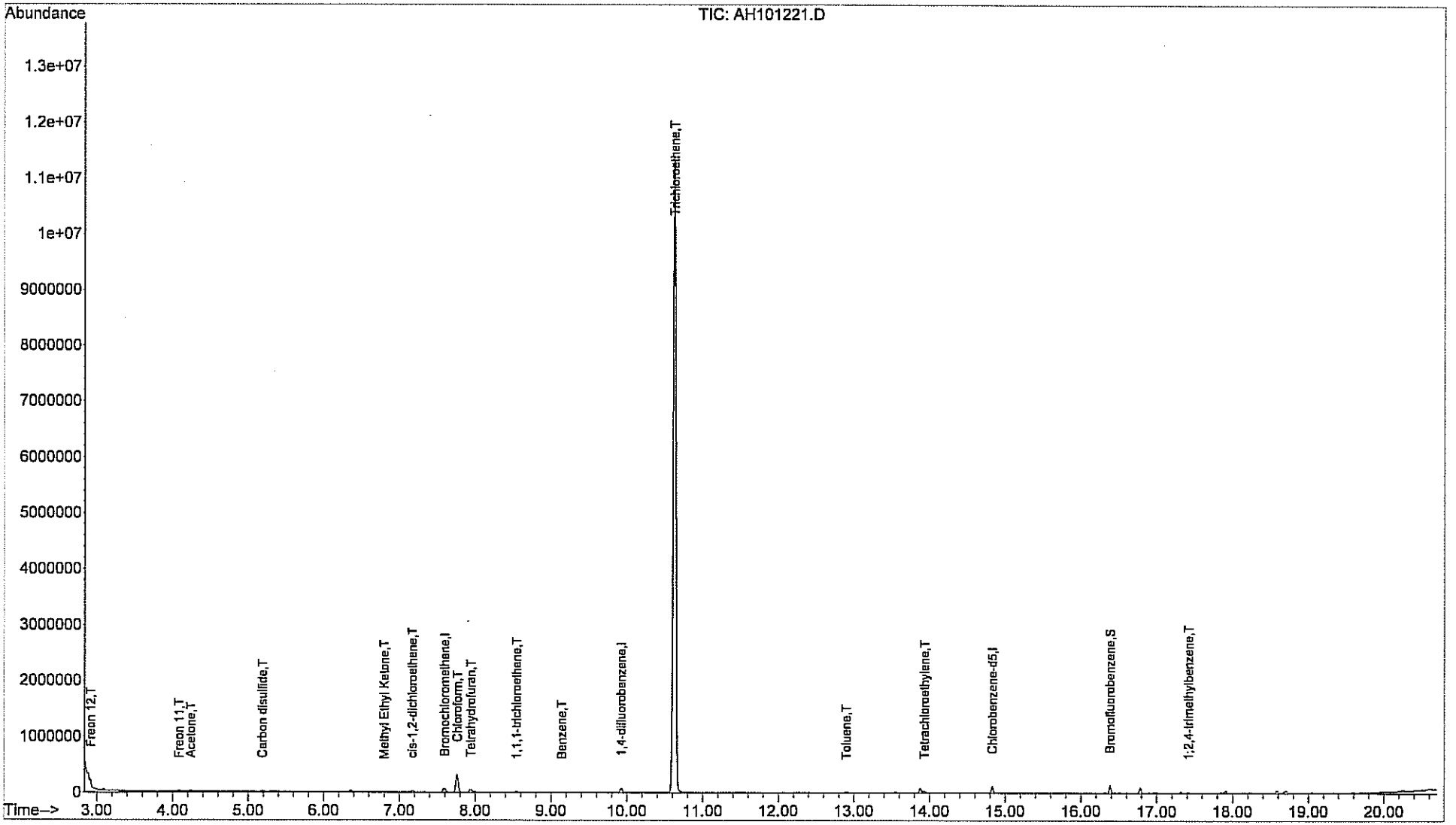
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	22978	1.00	ppb		-0.06
30) 1,4-difluorobenzene	9.93	114	80328	1.00	ppb		-0.06
44) Chlorobenzene-d5	14.83	117	65614	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	37754	1.28	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	42698	0.45	ppb		98
11) Freon 11	4.08	101	12037	0.26	ppb		94
12) Acetone	4.23	58	7425	1.27	ppb	#	1
18) Carbon disulfide	5.18	76	21111	0.59	ppb		91
23) Methyl Ethyl Ketone	6.80	43	8804	0.21	ppb	#	55
24) cis-1,2-dichloroethene	7.17	61	18071	0.56	ppb		99
27) Chloroform	7.76	83	287404	4.32	ppb		98
28) Tetrahydrofuran	7.94	42	32517	2.54	ppb		95
31) 1,1,1-trichloroethane	8.54	97	9615	0.19	ppb		99
34) Benzene	9.14	78	11899	0.14	ppb		98
38) Trichloroethene	10.63	130	5435217	102.60	ppb		97
45) Toluene	12.89	92	6609	0.14	ppb		92
50) Tetrachloroethylene	13.93	164	6346	0.12	ppb		98
61) 1,2,4-trimethylbenzene	17.42	105	8074	0.22	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

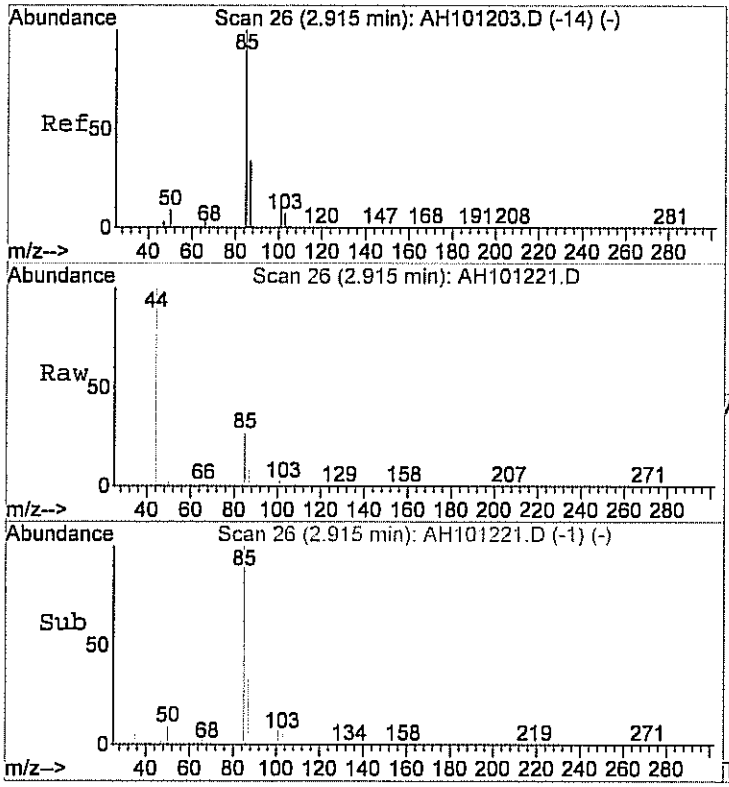
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101221.D Vial: 7
Acq On : 12 Oct 2010 9:03 pm Operator: RJP
Sample : C1010018-002A Inst : MSD #1
Misc : C1010018-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 11:54 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



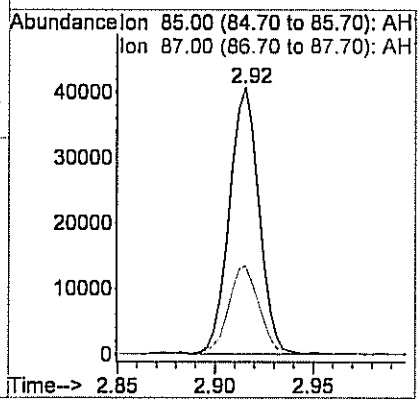
Centek laboratories, LLC

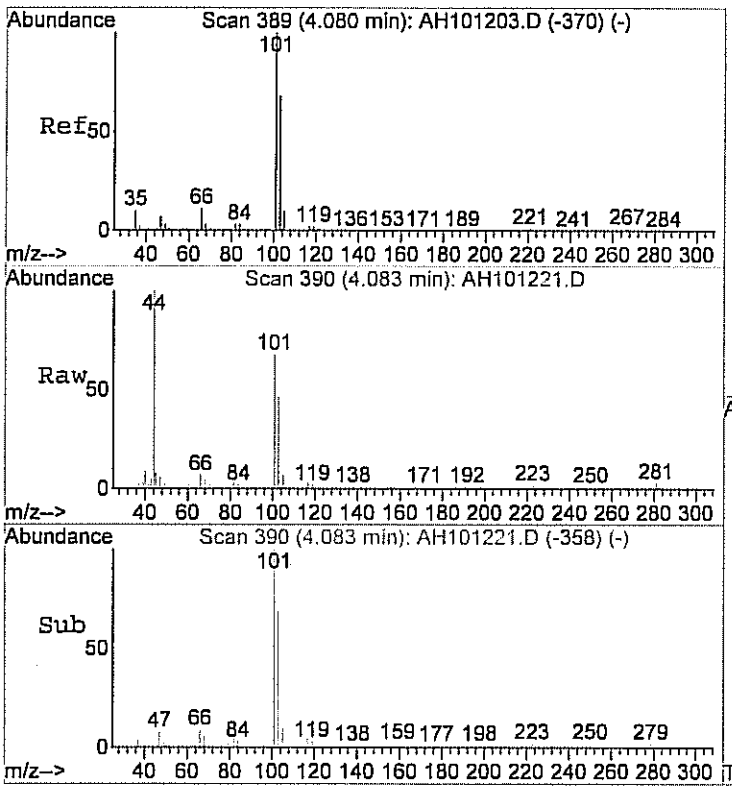


#3
Freon 12
Concen: 0.45 ppb
RT: 2.92 min Scan# 26
Delta R.T. -0.04 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 85 Resp: 42698

Ion	Ratio	Lower	Upper
85	100		
87	33.8	12.7	52.7

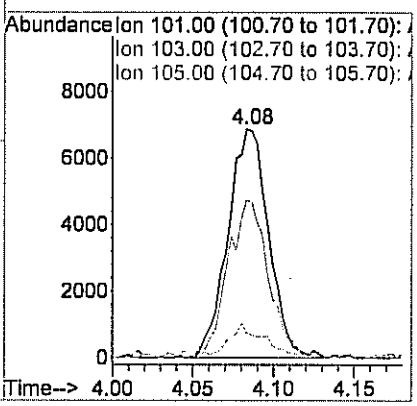


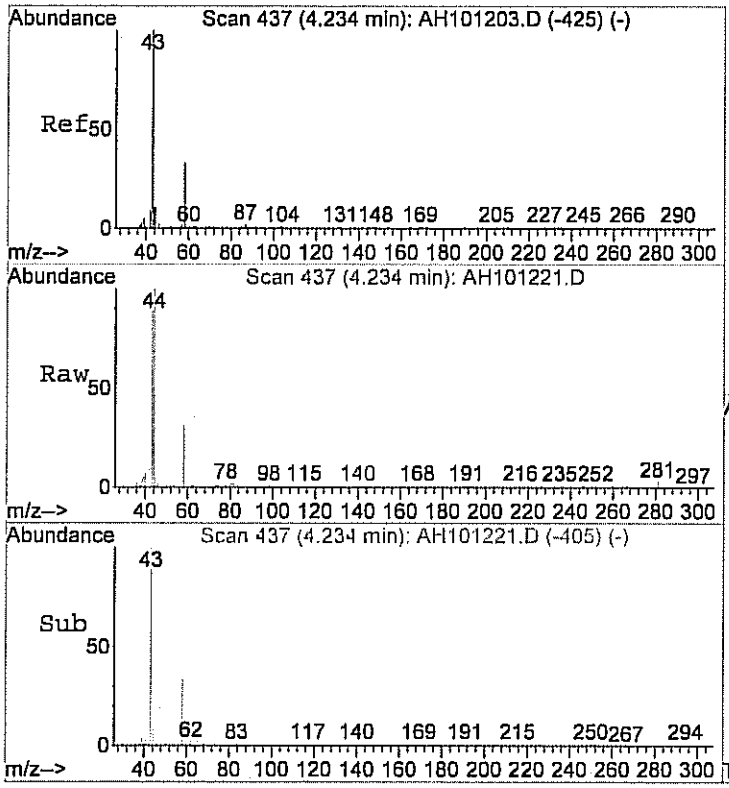


#11
Freon 11
Concen: 0.26 ppb
RT: 4.08 min Scan# 390
Delta R.T. -0.05 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion:101 Resp: 12037

Ion	Ratio	Lower	Upper
101	100		
103	69.7	44.6	84.6
105	13.0	0.0	31.1

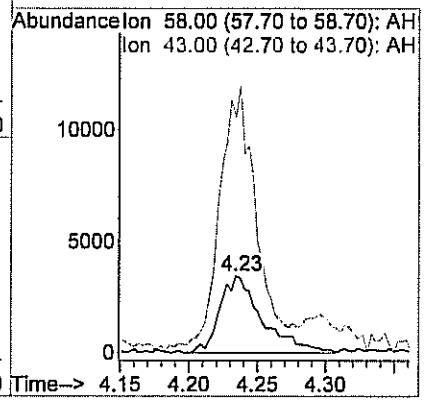


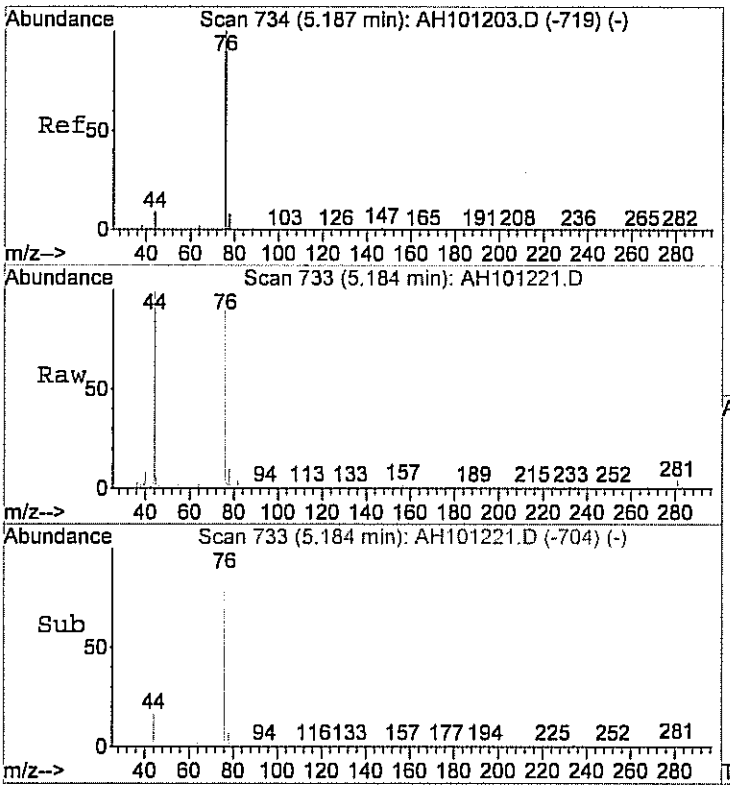


#12
Acetone
Concen: 1.27 ppb
RT: 4.23 min Scan# 437
Delta R.T. -0.05 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 58 Resp: 7425

Ion	Ratio	Lower	Upper
58	100		
43	355.8	37.6	97.6#

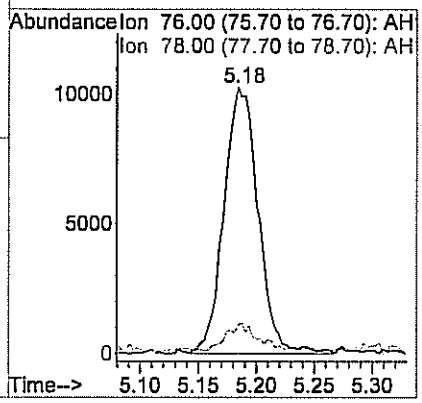


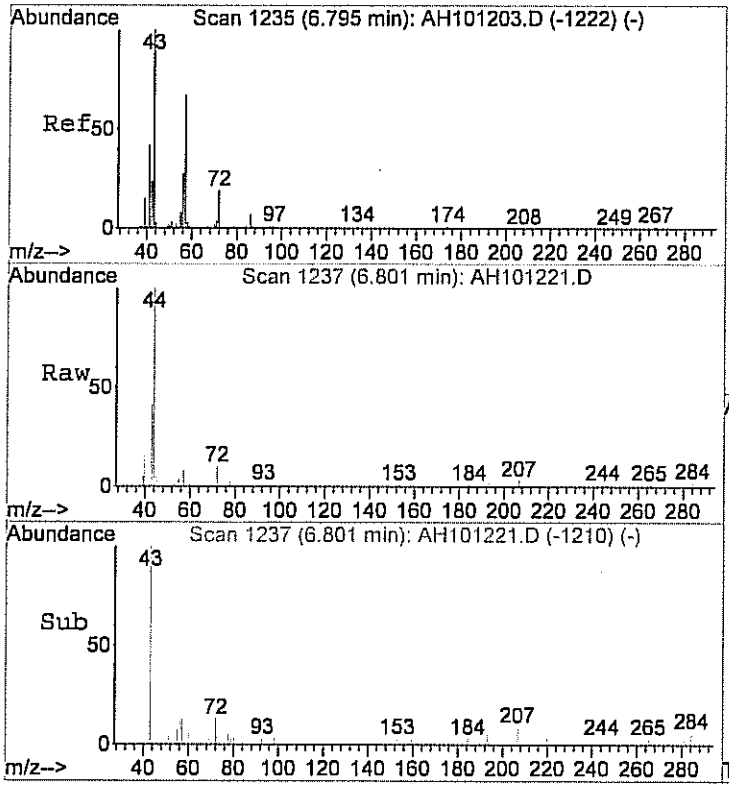


#18
Carbon disulfide
Concen: 0.59 ppb
RT: 5.18 min Scan# 733
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 76 Resp: 21111

Ion	Ratio	Lower	Upper
76	100		
78	14.1	0.0	30.6

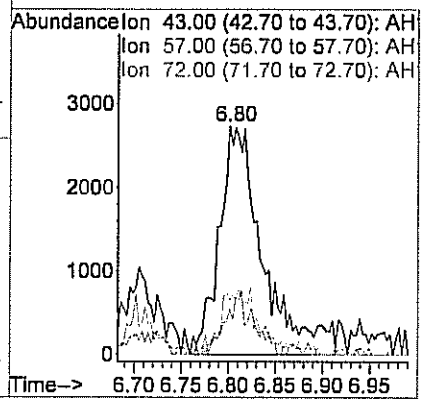


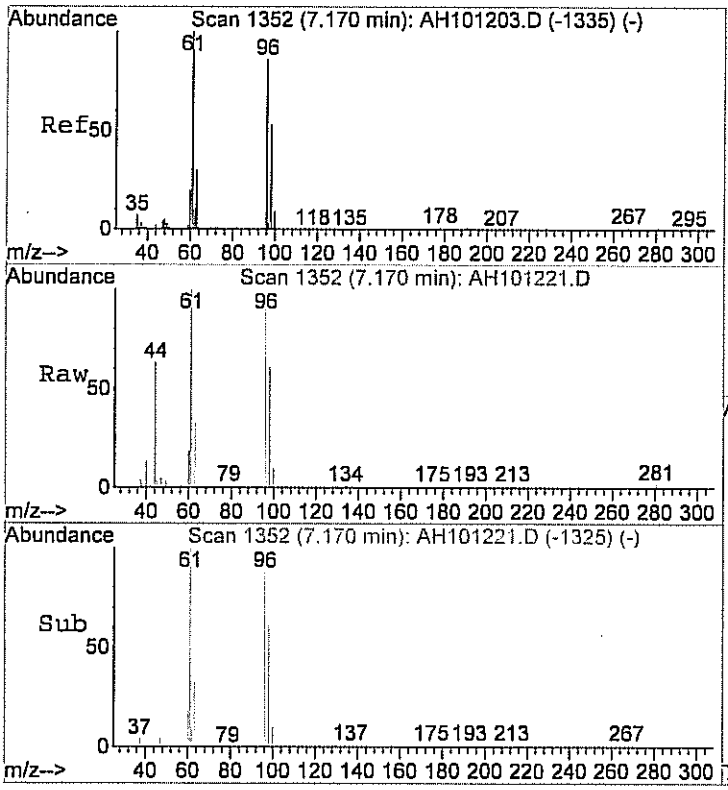


#23
Methyl Ethyl Ketone
Concen: 0.21 ppb
RT: 6.80 min Scan# 1237
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 43 Resp: 8804

Ion	Ratio	Lower	Upper
43	100		
57	17.7	40.7	80.7#
72	22.7	0.0	39.3

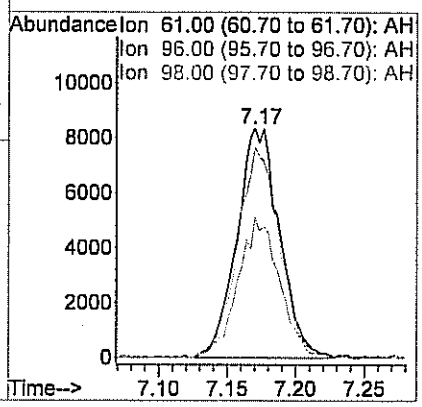


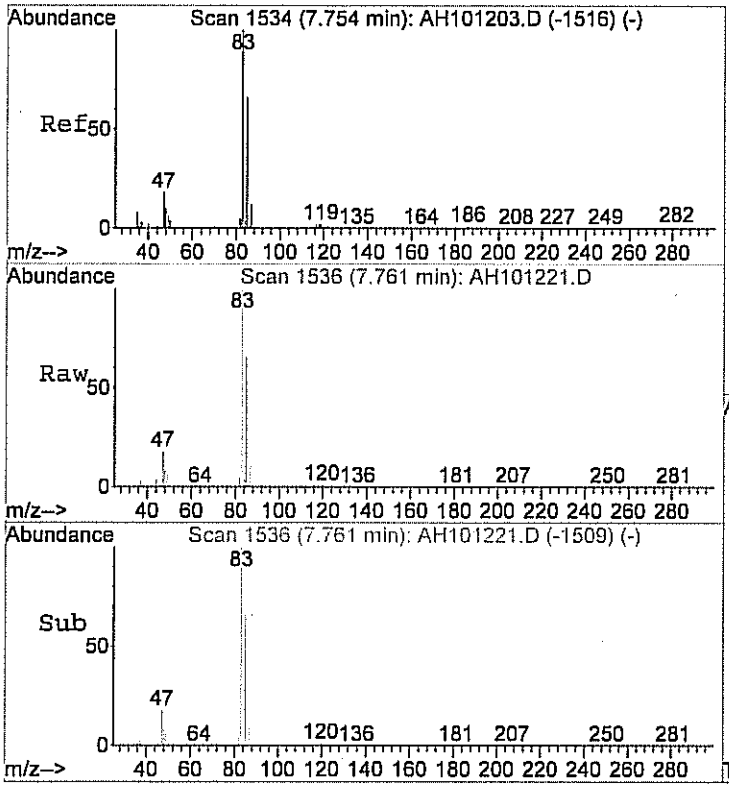


#24
cis-1,2-dichloroethene
Concen: 0.56 ppb
RT: 7.17 min Scan# 1352
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 61 Resp: 18071

Ion	Ratio	Lower	Upper
61	100		
96	90.5	70.1	110.1
98	59.1	37.9	77.9

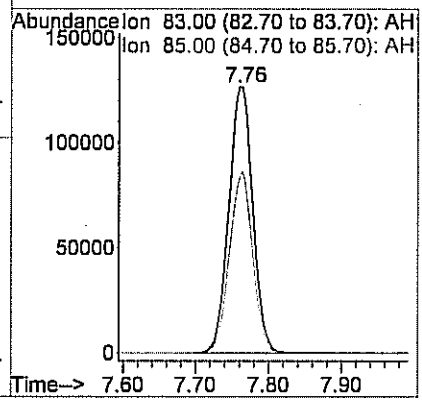


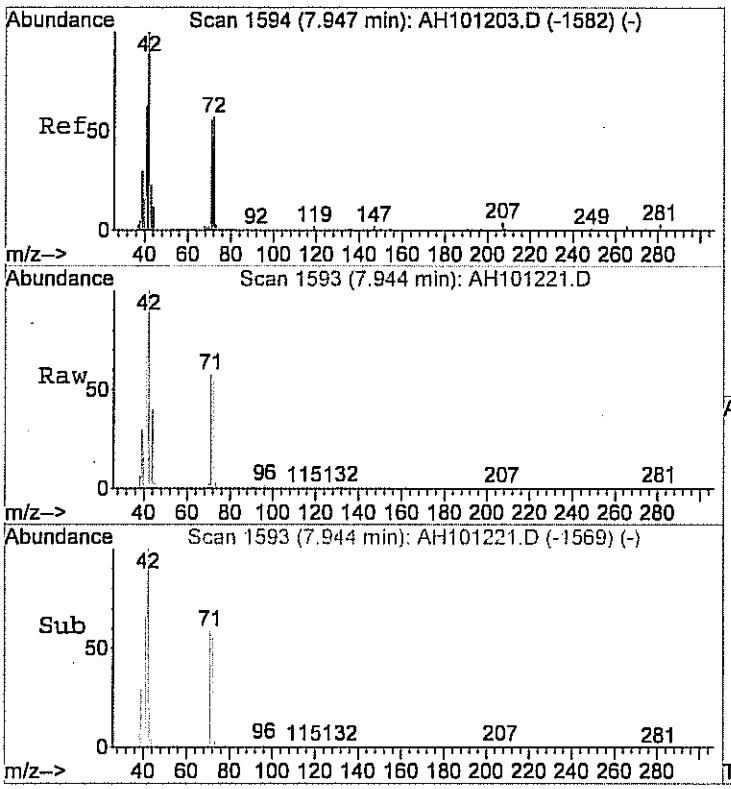


#27
Chloroform
Concen: 4.32 ppb
RT: 7.76 min Scan# 1536
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 83 Resp: 287404

Ion	Ratio	Lower	Upper
83	100		
85	66.6	45.2	85.2

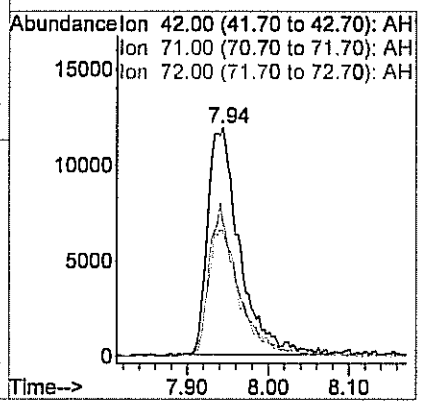


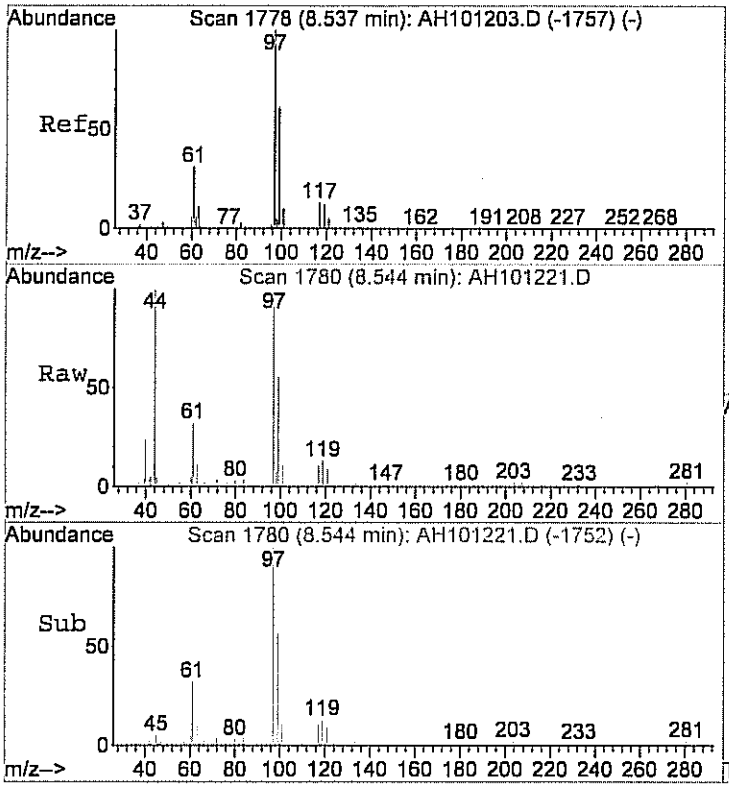


#28
Tetrahydrofuran
Concen: 2.54 ppb
RT: 7.94 min Scan# 1593
Delta R.T. -0.07 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 42 Resp: 32517

Ion	Ratio	Lower	Upper
42	100		
71	61.6	38.8	78.8
72	57.4	32.5	72.5

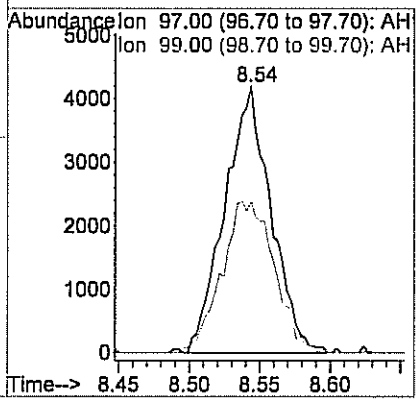


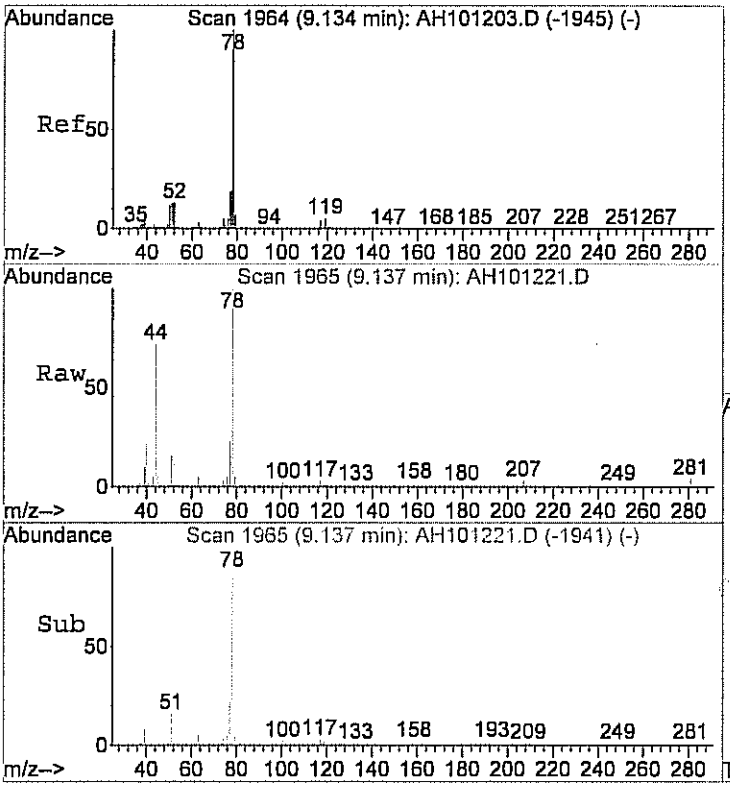


#31
1,1,1-trichloroethane
Concen: 0.19 ppb
RT: 8.54 min Scan# 1780
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 97 Resp: 9615

Ion	Ratio	Lower	Upper
97	100		
99	64.3	43.5	83.5

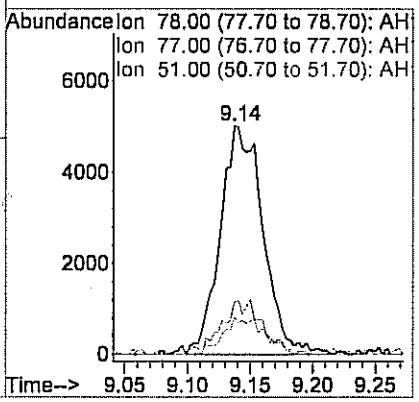


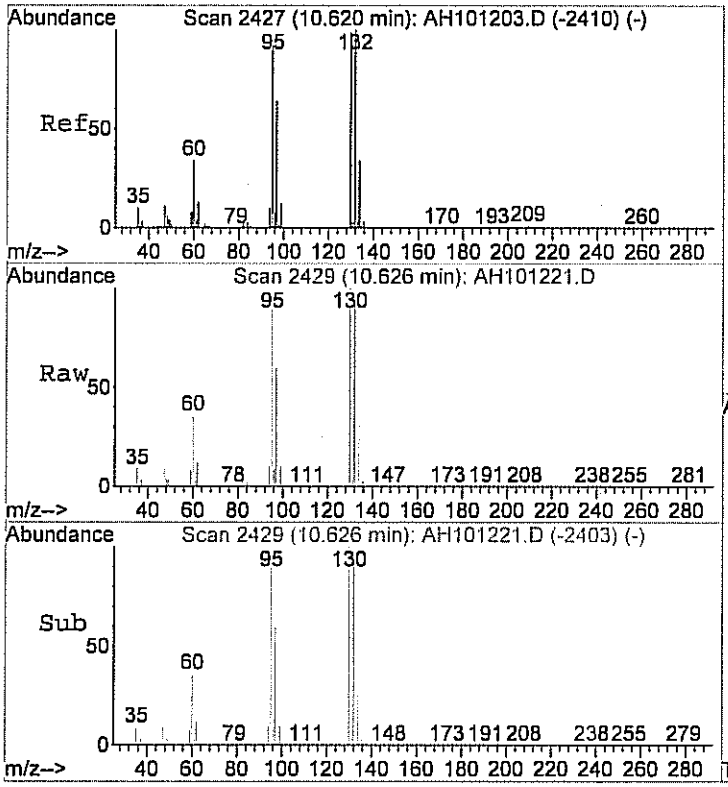


#34
Benzene
Concen: 0.14 ppb
RT: 9.14 min Scan# 1965
Delta R.T. -0.07 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 78 Resp: 11899

Ion	Ratio	Lower	Upper
78	100		
77	21.7	2.0	42.0
51	15.7	0.0	34.0

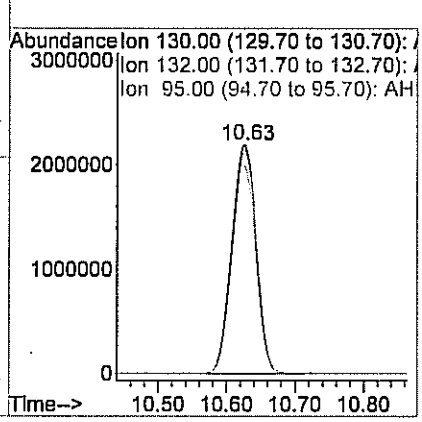


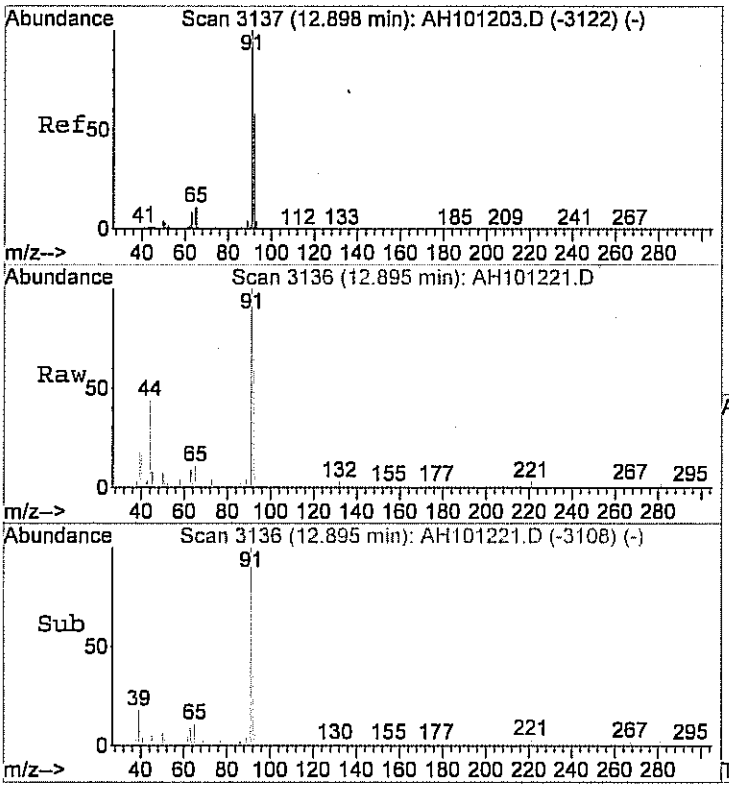


#38
Trichloroethene
Concen: 102.60 ppb
RT: 10.63 min Scan# 2429
Delta R.T. -0.07 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion:130 Resp: 5435217

Ion	Ratio	Lower	Upper
130	100		
132	97.3	78.8	118.8
95	90.3	75.3	115.3

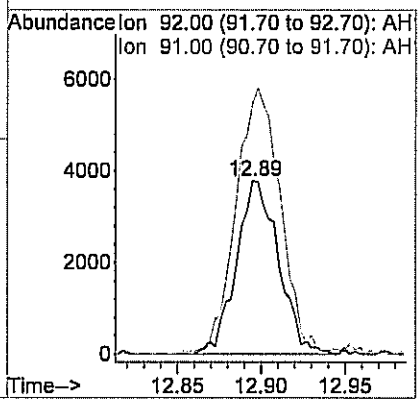


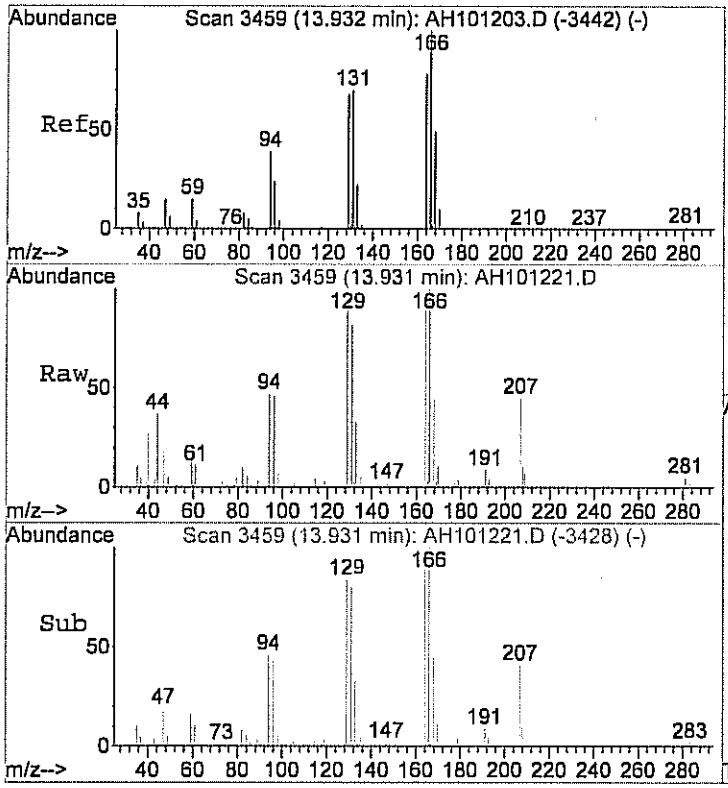


#45
Toluene
Concen: 0.14 ppb
RT: 12.89 min Scan# 3136
Delta R.T. -0.06 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion: 92 Resp: 6609

Ion	Ratio	Lower	Upper
92	100		
91	163.3	154.6	194.6

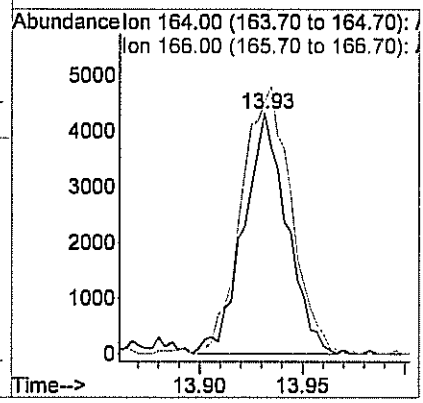


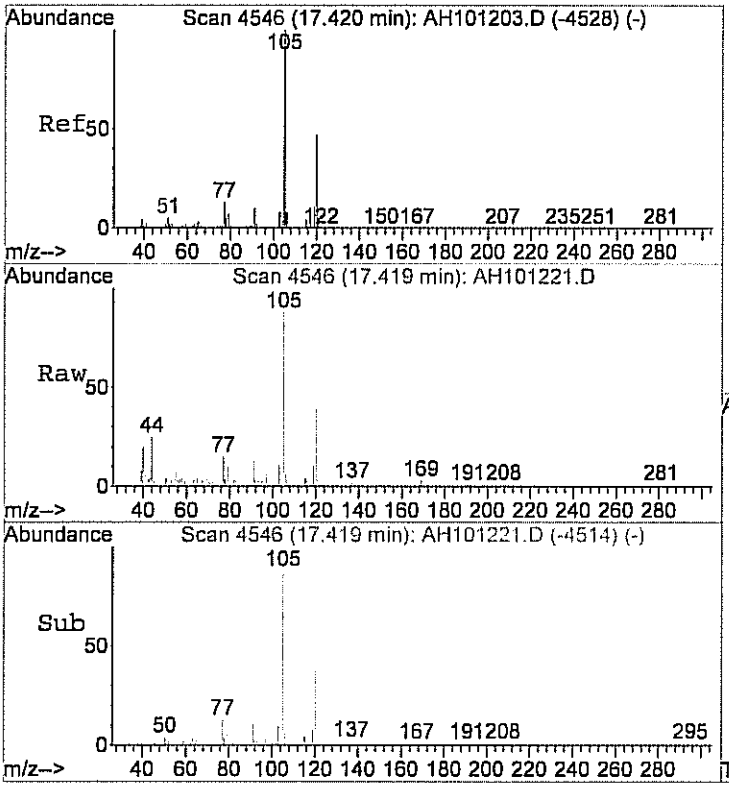


#50
Tetrachloroethylene
Concen: 0.12 ppb
RT: 13.93 min Scan# 3459
Delta R.T. -0.05 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion:164 Resp: 6346

Ion	Ratio	Lower	Upper
164	100		
166	126.5	108.6	148.6

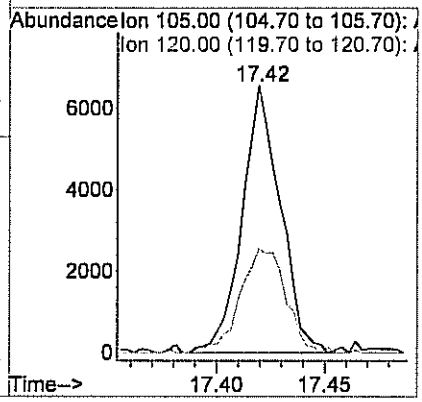




#61
1,2,4-trimethylbenzene
Concen: 0.22 ppb
RT: 17.42 min Scan# 4546
Delta R.T. -0.05 min
Lab File: AH101221.D
Acq: 12 Oct 2010 9:03 pm

Tgt Ion:105 Resp: 8074

Ion	Ratio	Lower	Upper
105	100		
120	46.4	24.3	64.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101240.D Vial: 14
Acq On : 13 Oct 2010 7:31 am Operator: RJP
Sample : C1010018-002A 5x Inst : MSD #1
Misc : C1010018-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 07:52:27 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

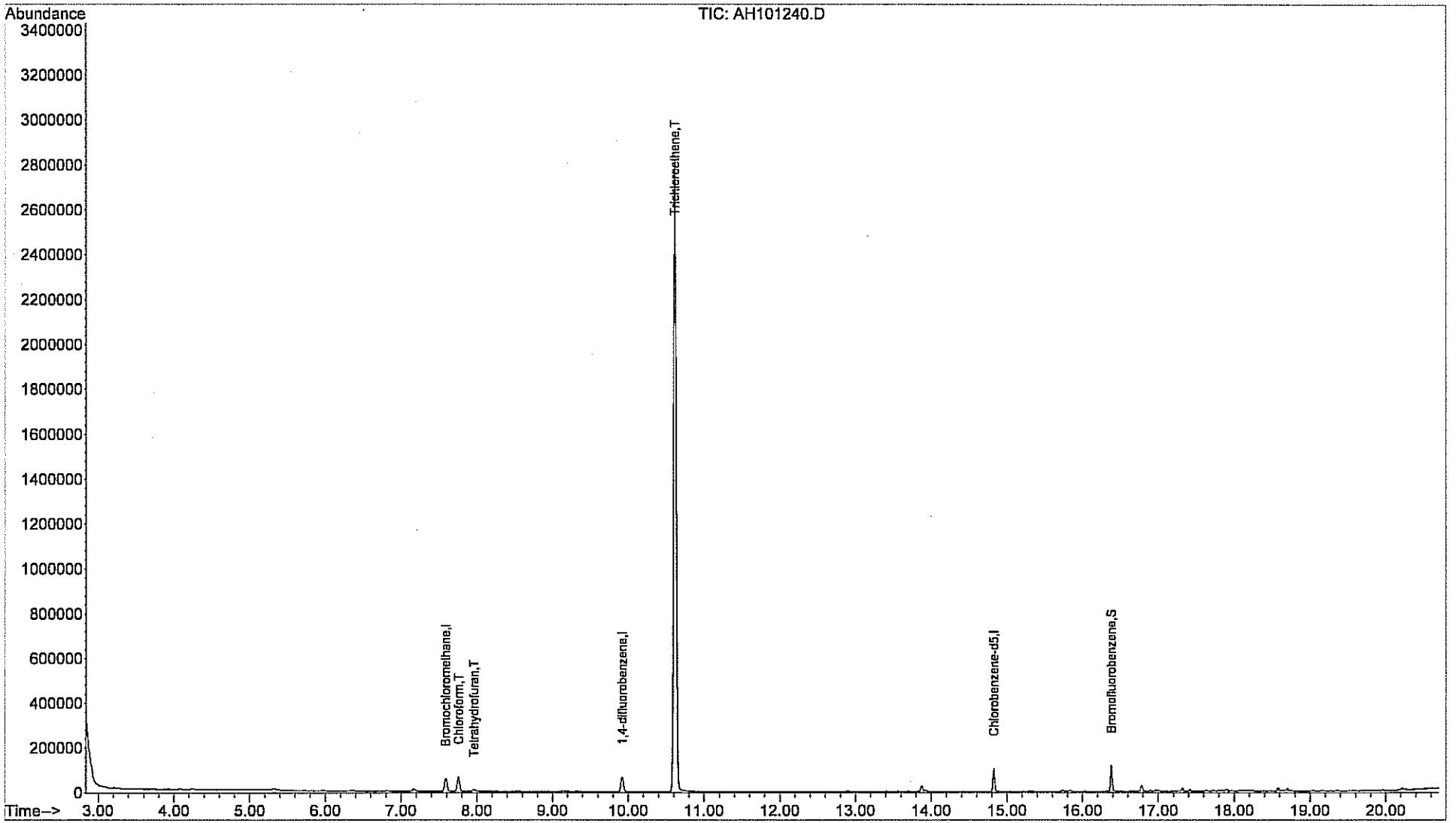
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	20989	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.92	114	74098	1.00	ppb	-0.07
44) Chlorobenzene-d5	14.83	117	59543	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	33141	1.24	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 124.00%			
Target Compounds						Qvalue
27) Chloroform	7.76	83	59119	0.97	ppb	97
28) Tetrahydrofuran	7.96	42	7711m	0.66	ppb	
38) Trichloroethene	10.62	130	1268653	25.96	ppb	97

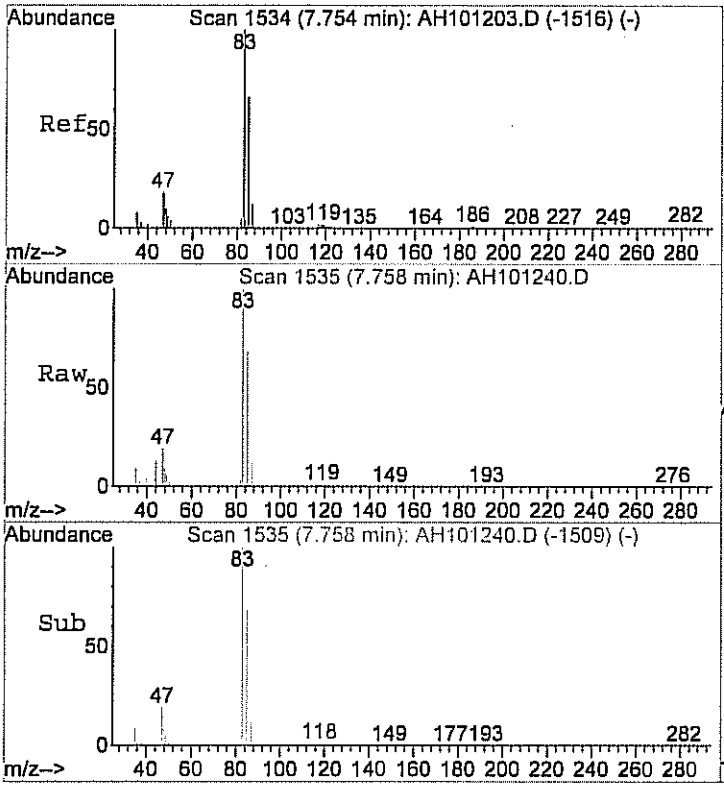
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101240.D Vial: 14
Acq On : 13 Oct 2010 7:31 am Operator: RJP
Sample : C1010018-002A 5x Inst : MSD #1
Misc : C1010018-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:25 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

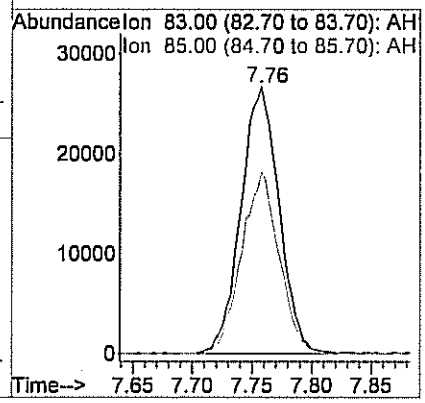


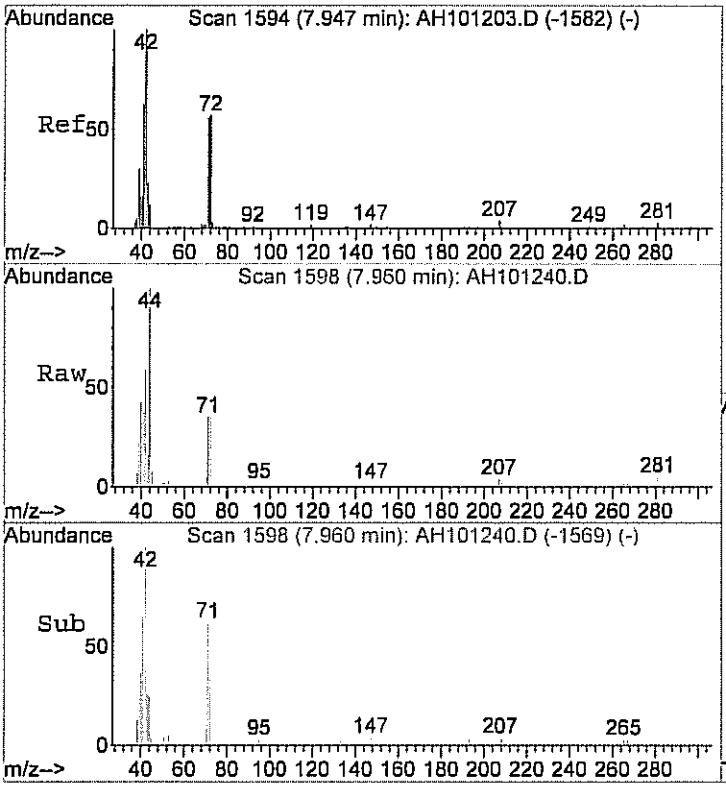


#27
Chloroform
Concen: 0.97 ppb
RT: 7.76 min Scan# 1535
Delta R.T. -0.07 min
Lab File: AH101240.D
Acq: 13 Oct 2010 7:31 am

Tgt Ion: 83 Resp: 59119

Ion	Ratio	Lower	Upper
83	100		
85	67.2	45.2	85.2

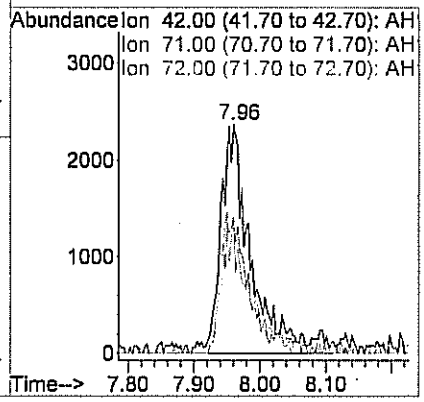


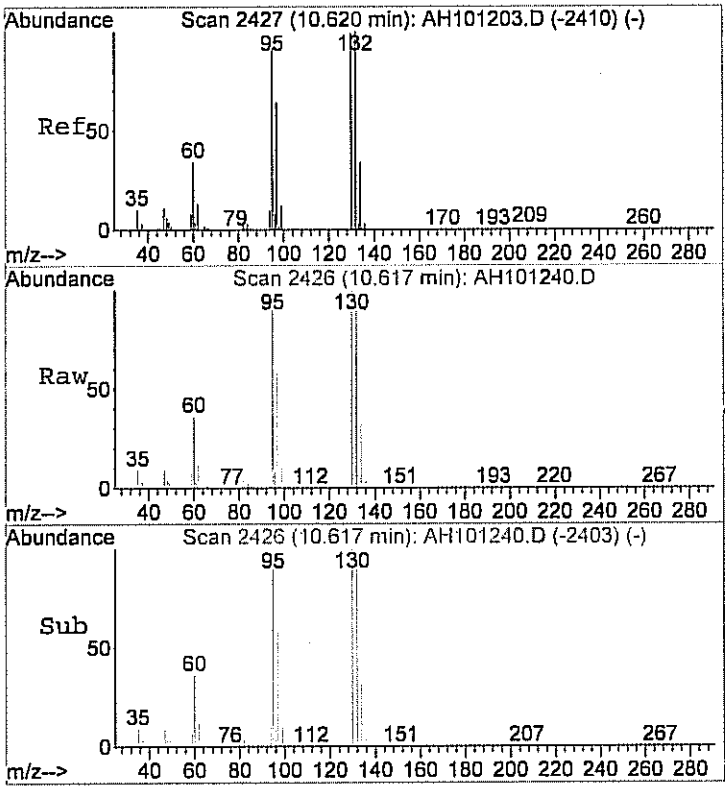


#28
Tetrahydrofuran
Concen: 0.66 ppb m
RT: 7.96 min Scan# 1598
Delta R.T. -0.06 min
Lab File: AH101240.D
Acq: 13 Oct 2010 7:31 am

Tgt Ion: 42 Resp: 7711

Ion	Ratio	Lower	Upper
42	100		
71	55.4	38.8	78.8
72	51.9	32.5	72.5

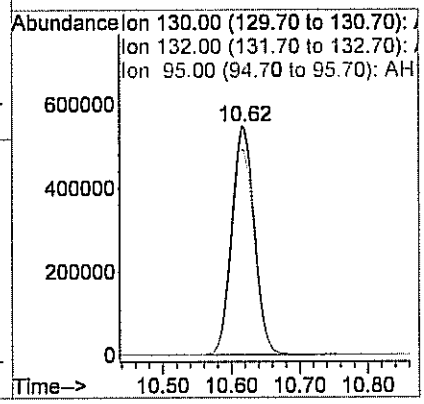




#38
Trichloroethene
Concen: 25.96 ppb
RT: 10.62 min Scan# 2426
Delta R.T. -0.08 min
Lab File: AH101240.D
Acq: 13 Oct 2010 7:31 am

Tgt Ion:130 Resp: 1268653

Ion	Ratio	Lower	Upper
130	100		
132	97.6	78.8	118.8
95	90.6	75.3	115.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101308.D Vial: 8
Acq On : 13 Oct 2010 3:32 pm Operator: RJP
Sample : C1010018-002A 90X Inst : MSD #1
Misc : C1010018-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 15:52:50 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	22142	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.93	114	82199	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	73695	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	43536	1.32	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 132.00%#			
Target Compounds						Qvalue
38) Trichloroethene	10.62	130	143690	2.65	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

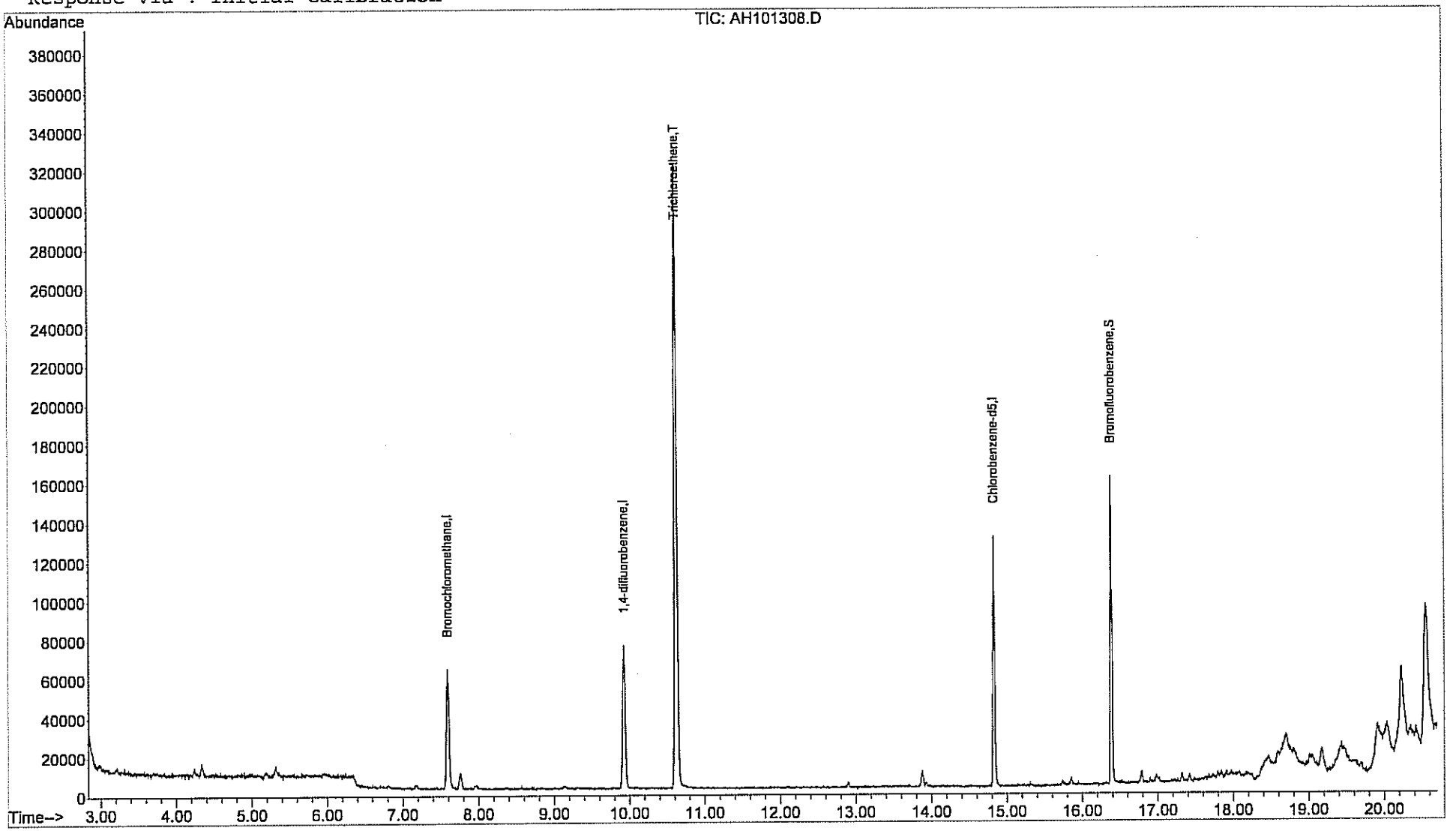
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101308.D
Acq On : 13 Oct 2010 3:32 pm
Sample : C1010018-002A 90X
Misc : C1010018-002A
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:26 2010

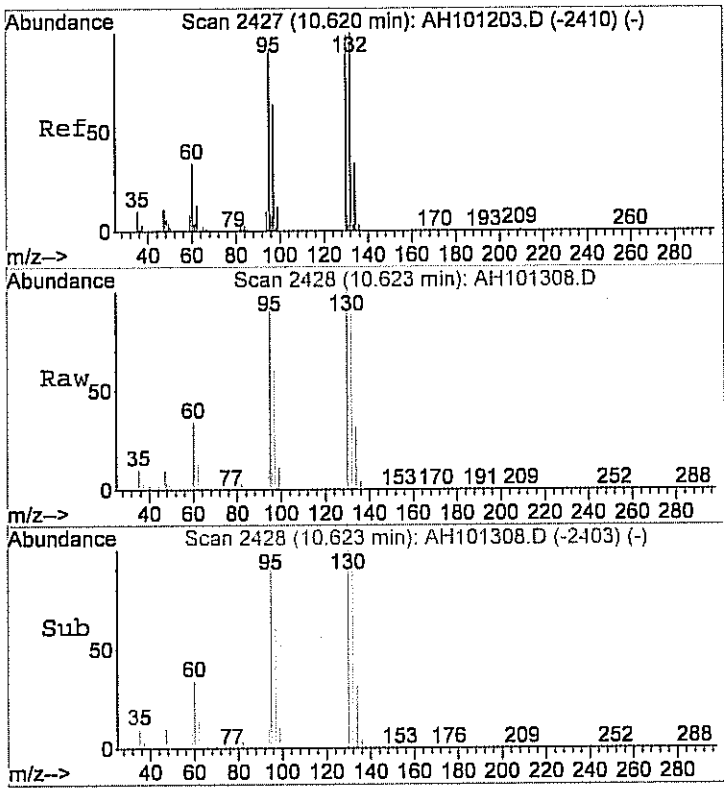
Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



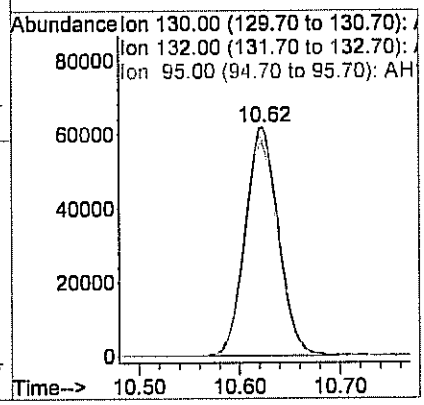
Centek laboratories, LLC



#38
Trichloroethene
Concen: 2.65 ppb
RT: 10.62 min Scan# 2428
Delta R.T. -0.07 min
Lab File: AH101308.D
Acq: 13 Oct 2010 3:32 pm

Tgt Ion:130 Resp: 143690

Ion	Ratio	Lower	Upper
130	100		
132	97.4	78.8	118.8
95	93.5	75.3	115.3



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.0	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2,4-Trimethylbenzene	0.36	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,3,5-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Acetone	3.7	1.5		ppbV	5	10/13/2010 2:10:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Benzene	0.67	0.15		ppbV	1	10/12/2010 9:36:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Carbon disulfide	5.4	0.75		ppbV	5	10/13/2010 2:10:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Chloroform	3.8	0.75		ppbV	5	10/13/2010 2:10:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
cis-1,2-Dichloroethene	2.4	0.75		ppbV	5	10/13/2010 2:10:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/12/2010 9:36:00 PM
Ethylbenzene	0.10	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
Freon 11	0.27	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 113	0.21	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Freon 12	0.45	0.15		ppbV	1	10/12/2010 9:36:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
m&p-Xylene	0.22	0.30	J	ppbV	1	10/12/2010 9:36:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl Ethyl Ketone	0.44	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/12/2010 9:36:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
o-Xylene	0.11	0.15	J	ppbV	1	10/12/2010 9:36:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Tetrachloroethylene	0.51	0.15		ppbV	1	10/12/2010 9:36:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Toluene	0.36	0.15		ppbV	1	10/12/2010 9:36:00 PM
trans-1,2-Dichloroethene	0.17	0.15		ppbV	1	10/12/2010 9:36:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Trichloroethene	660	40		ppbV	270	10/13/2010 4:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/12/2010 9:36:00 PM
Surr: Bromofluorobenzene	123	70-130		%REC	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	11	0.83		ug/m3	1	10/12/2010 9:36:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:36:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/12/2010 9:36:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/12/2010 9:36:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
1,2,4-Trimethylbenzene	1.8	0.75		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/12/2010 9:36:00 PM
1,3,5-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/12/2010 9:36:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/12/2010 9:36:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/12/2010 9:36:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/12/2010 9:36:00 PM
Acetone	8.9	3.6		ug/m3	5	10/13/2010 2:10:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/12/2010 9:36:00 PM
Benzene	2.2	0.49		ug/m3	1	10/12/2010 9:36:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/12/2010 9:36:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/12/2010 9:36:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/12/2010 9:36:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/12/2010 9:36:00 PM
Carbon disulfide	17	2.4		ug/m3	5	10/13/2010 2:10:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/12/2010 9:36:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/12/2010 9:36:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/12/2010 9:36:00 PM
Chloroform	19	3.7		ug/m3	5	10/13/2010 2:10:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/12/2010 9:36:00 PM
cis-1,2-Dichloroethene	9.5	3.0		ug/m3	5	10/13/2010 2:10:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:36:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/12/2010 9:36:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/12/2010 9:36:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/12/2010 9:36:00 PM
Ethylbenzene	0.44	0.66	J	ug/m3	1	10/12/2010 9:36:00 PM
Freon 11	1.5	0.86		ug/m3	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AA
Lab Order:	C1010018	**Tag Number:**	553
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.6	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/12/2010 9:36:00 PM
Freon 12	2.3	0.75		ug/m3	1	10/12/2010 9:36:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/12/2010 9:36:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/12/2010 9:36:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/12/2010 9:36:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/12/2010 9:36:00 PM
m&p-Xylene	0.97	1.3	J	ug/m3	1	10/12/2010 9:36:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Methyl Ethyl Ketone	1.3	0.90		ug/m3	1	10/12/2010 9:36:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/12/2010 9:36:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/12/2010 9:36:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/12/2010 9:36:00 PM
o-Xylene	0.49	0.66	J	ug/m3	1	10/12/2010 9:36:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/12/2010 9:36:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/12/2010 9:36:00 PM
Tetrachloroethylene	3.5	1.0		ug/m3	1	10/12/2010 9:36:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/12/2010 9:36:00 PM
Toluene	1.4	0.57		ug/m3	1	10/12/2010 9:36:00 PM
trans-1,2-Dichloroethene	0.69	0.60		ug/m3	1	10/12/2010 9:36:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/12/2010 9:36:00 PM
Trichloroethene	3600	220		ug/m3	270	10/13/2010 4:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/12/2010 9:36:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/12/2010 9:36:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/12/2010 9:36:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101222.D Vial: 8
Acq On : 12 Oct 2010 9:36 pm Operator: RJP
Sample : C1010018-003A Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 21:57:07 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

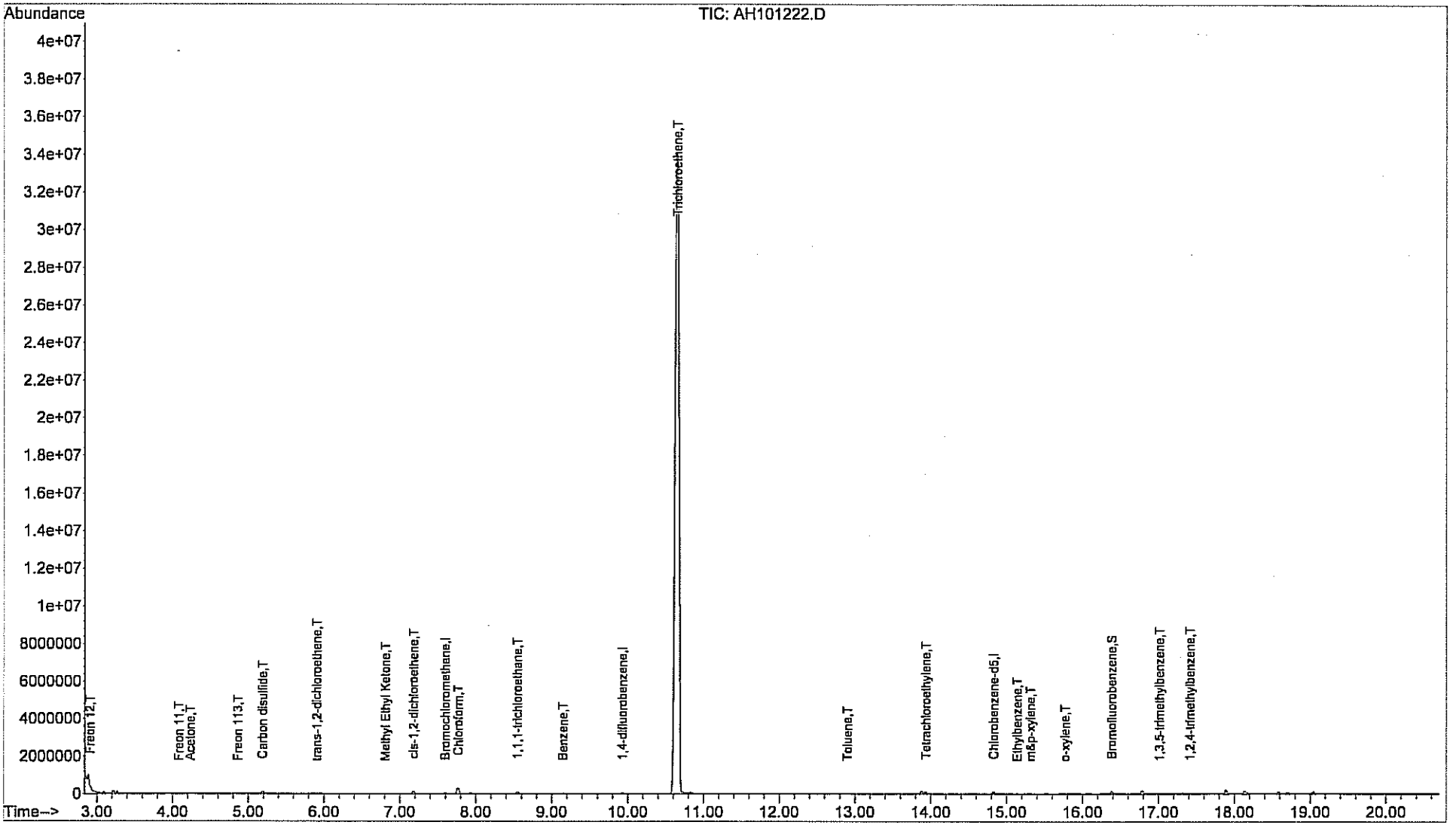
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	23185	1.00	ppb		-0.06
30) 1,4-difluorobenzene	9.93	114	78938	1.00	ppb		-0.06
44) Chlorobenzene-d5	14.83	117	66504	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.39	95	36541m	1.23	ppb		-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	43114	0.45	ppb		99
11) Freon 11	4.09	101	12485	0.27	ppb		92
12) Acetone	4.23	58	13649	2.32	ppb	#	1
15) Freon 113	4.86	101	8011	0.21	ppb		92
18) Carbon disulfide	5.19	76	193604	5.38	ppb		98
19) trans-1,2-dichloroethene	5.90	61	5273	0.17	ppb		98
23) Methyl Ethyl Ketone	6.81	43	18263	0.44	ppb	#	71
24) cis-1,2-dichloroethene	7.18	61	81449	2.52	ppb		99
27) Chloroform	7.77	83	283339	4.22	ppb		99
31) 1,1,1-trichloroethane	8.55	97	101459	2.01	ppb		97
34) Benzene	9.15	78	55310	0.67	ppb		98
38) Trichloroethene	10.66	130	22385931	430.03	ppb		99
45) Toluene	12.90	92	16985	0.36	ppb		93
50) Tetrachloroethylene	13.93	164	27334	0.51	ppb		100
52) Ethylbenzene	15.14	91	8206	0.10	ppb		93
53) m&p-xylene	15.31	91	14403	0.22	ppb		92
56) o-xylene	15.77	91	7759	0.11	ppb		97
60) 1,3,5-trimethylbenzene	17.02	105	5256	0.10	ppb		90
61) 1,2,4-trimethylbenzene	17.42	105	13534	0.36	ppb		94

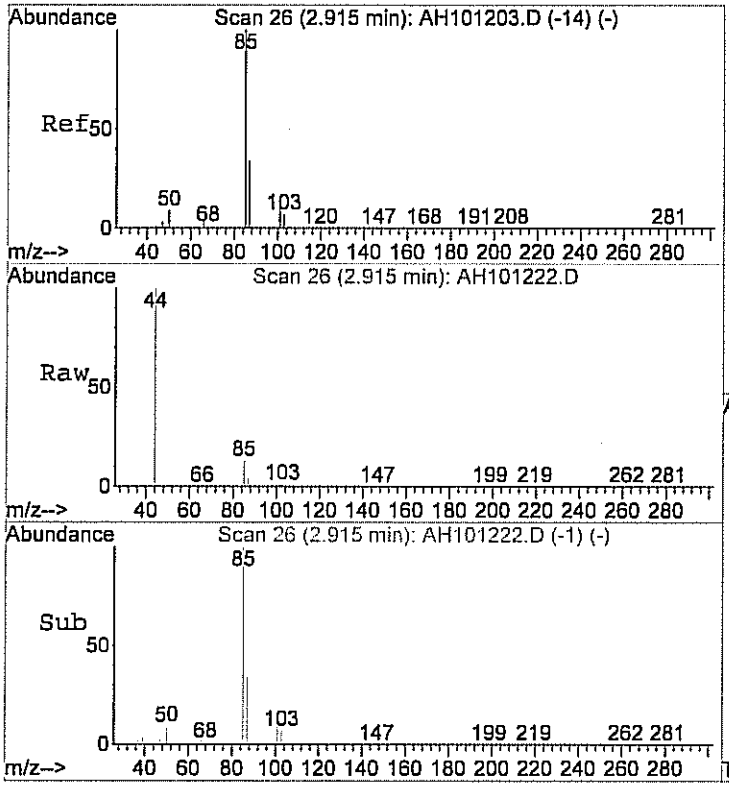
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101222.D Vial: 8
Acq On : 12 Oct 2010 9:36 pm Operator: RJP
Sample : C1010018-003A Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 11:57 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

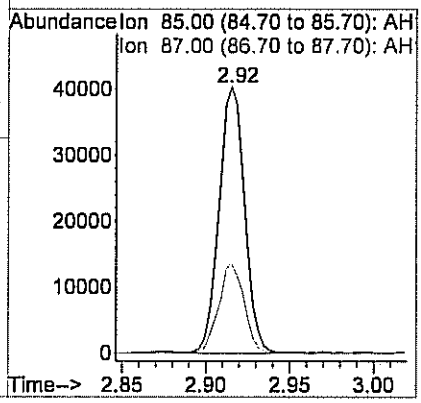


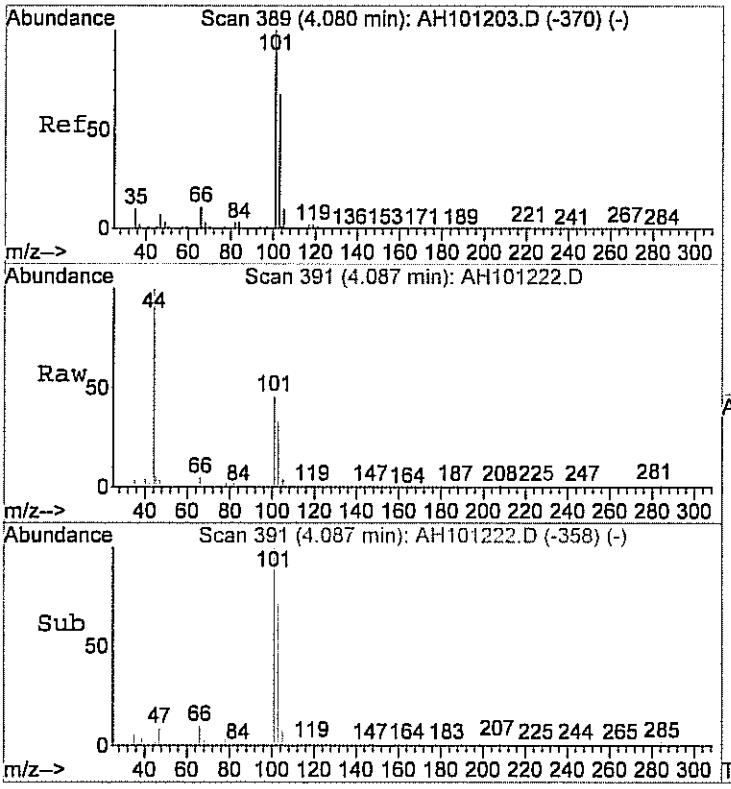


#3
Freon 12
Concen: 0.45 ppb
RT: 2.92 min Scan# 26
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 85 Resp: 43114

Ion	Ratio	Lower	Upper
85	100		
87	33.4	12.7	52.7

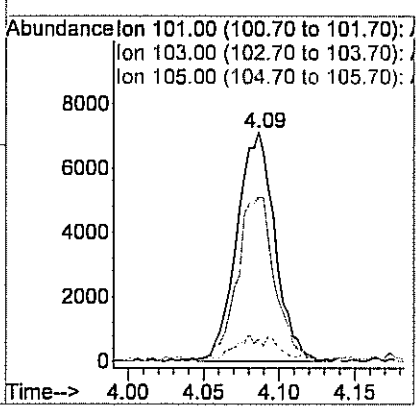


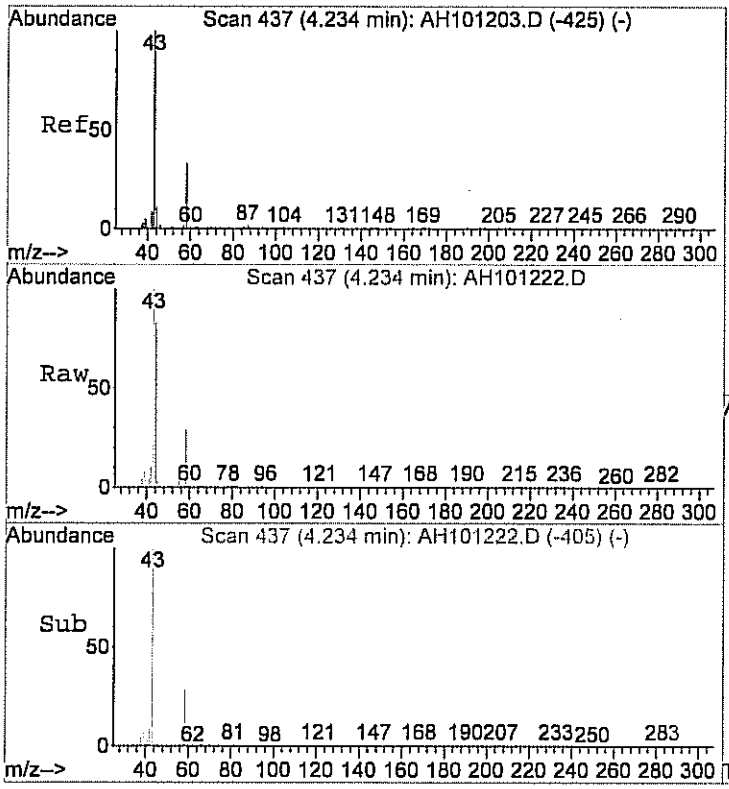


#11
Freon 11
Concen: 0.27 ppb
RT: 4.09 min Scan# 391
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:101 Resp: 12485

Ion	Ratio	Lower	Upper
101	100		
103	70.9	44.6	84.6
105	13.0	0.0	31.1

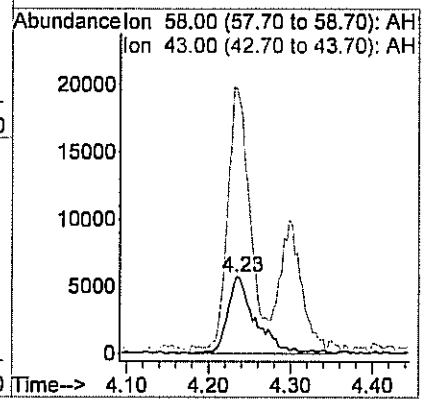


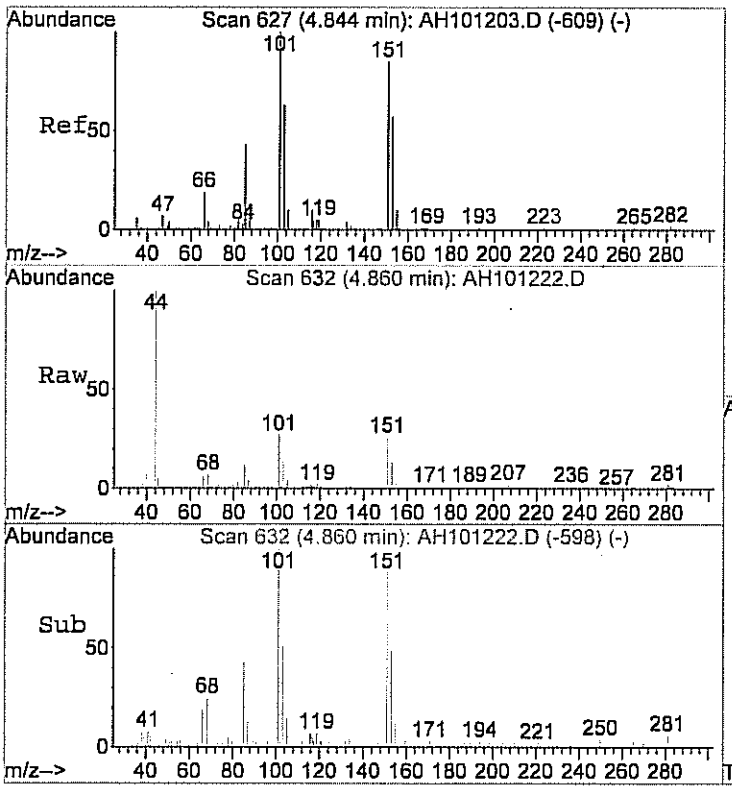


#12
Acetone
Concen: 2.32 ppb
RT: 4.23 min Scan# 437
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 58 Resp: 13649

Ion	Ratio	Lower	Upper
58	100		
43	413.1	37.6	97.6#

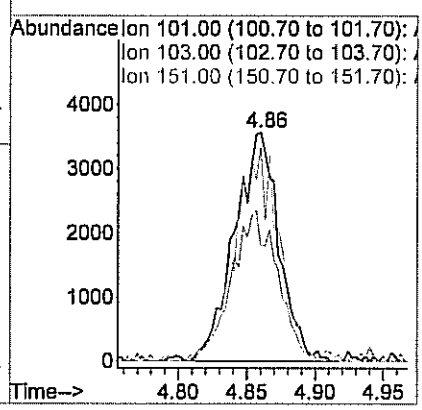


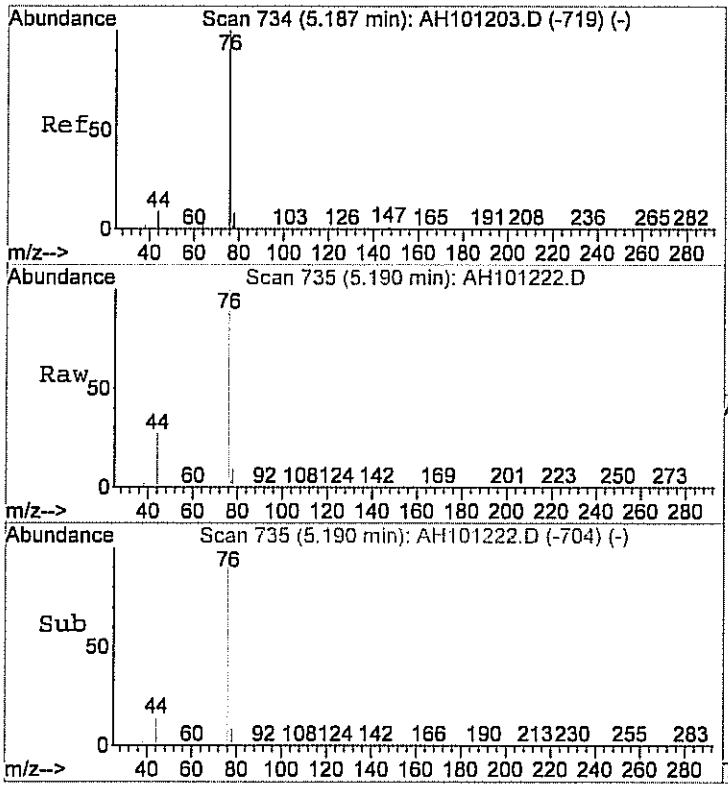


#15
Freon 113
Concen: 0.21 ppb
RT: 4.86 min Scan# 632
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:101 Resp: 8011

Ion	Ratio	Lower	Upper
101	100		
103	68.3	44.8	84.8
151	95.2	65.3	105.3

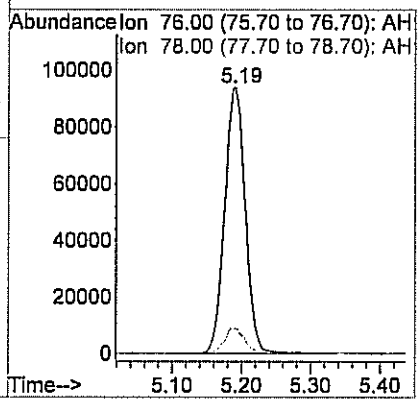


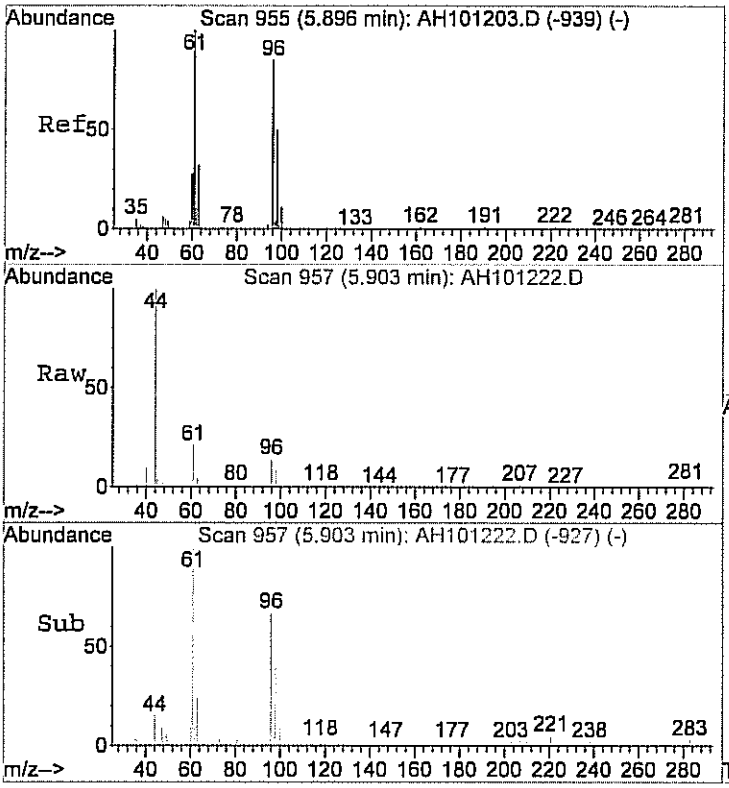


#18
Carbon disulfide
Concen: 5.38 ppb
RT: 5.19 min Scan# 735
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 76 Resp: 193604

Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	30.6

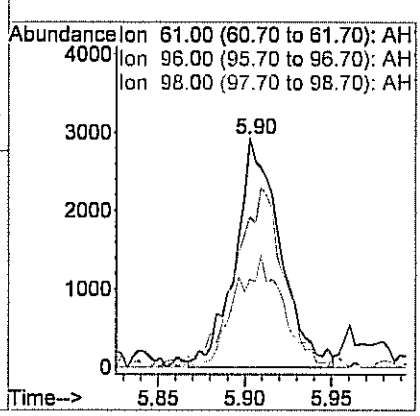


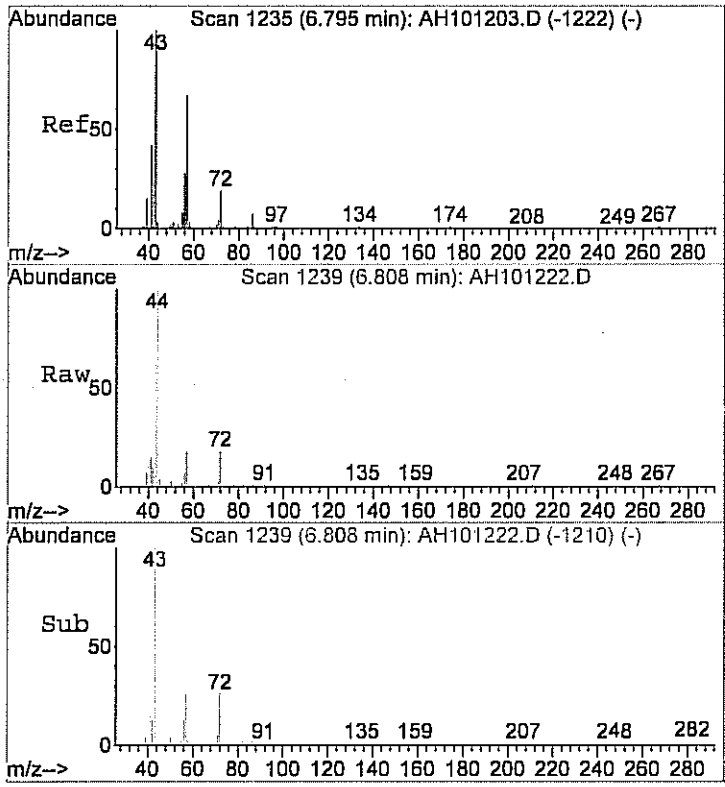


#19
trans-1,2-dichloroethene
Concen: 0.17 ppb
RT: 5.90 min Scan# 957
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 61 Resp: 5273

Ion	Ratio	Lower	Upper
61	100		
96	83.5	60.6	100.6
98	51.9	32.3	72.3

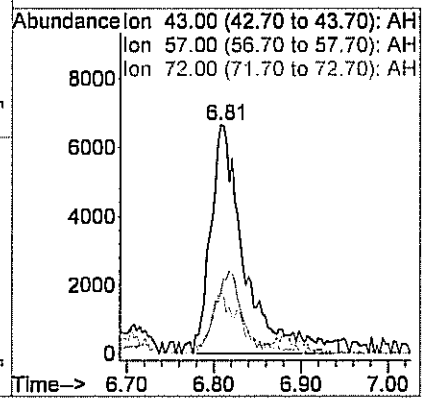


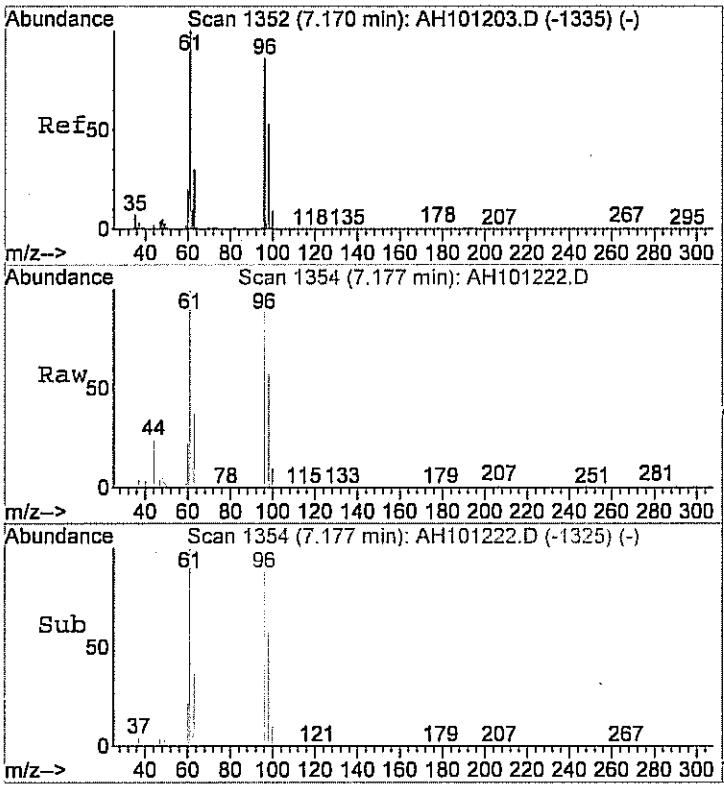


#23
Methyl Ethyl Ketone
Concen: 0.44 ppb
RT: 6.81 min Scan# 1239
Delta R.T. -0.06 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 43 Resp: 18263

Ion	Ratio	Lower	Upper
43	100		
57	34.2	40.7	80.7#
72	23.8	0.0	39.3

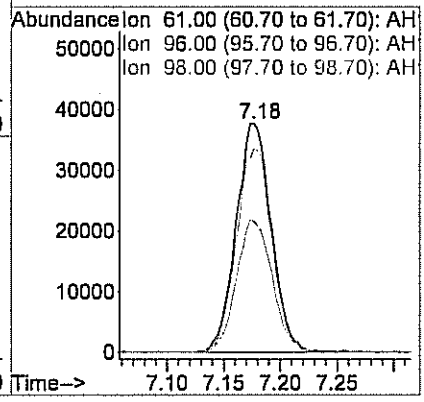


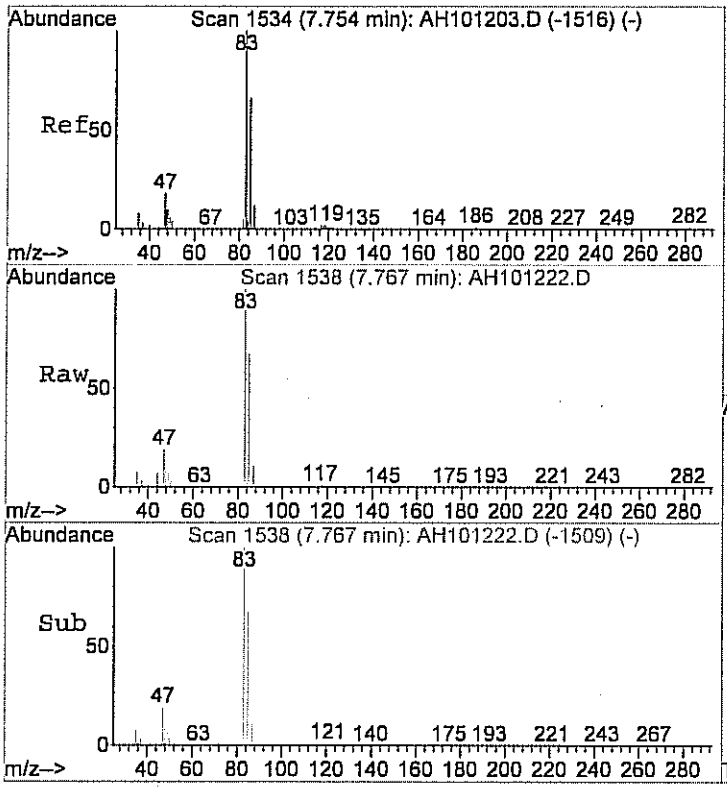


#24
cis-1,2-dichloroethene
Concen: 2.52 ppb
RT: 7.18 min Scan# 1354
Delta R.T. -0.06 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 61 Resp: 81449

Ion	Ratio	Lower	Upper
61	100		
96	91.3	70.1	110.1
98	59.0	37.9	77.9

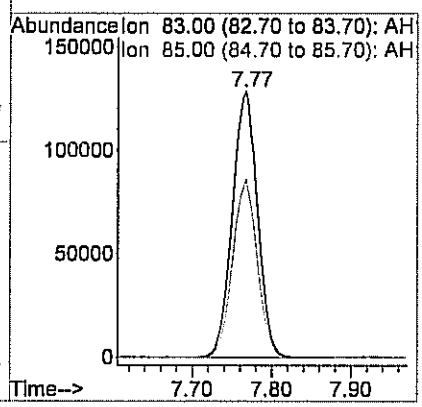


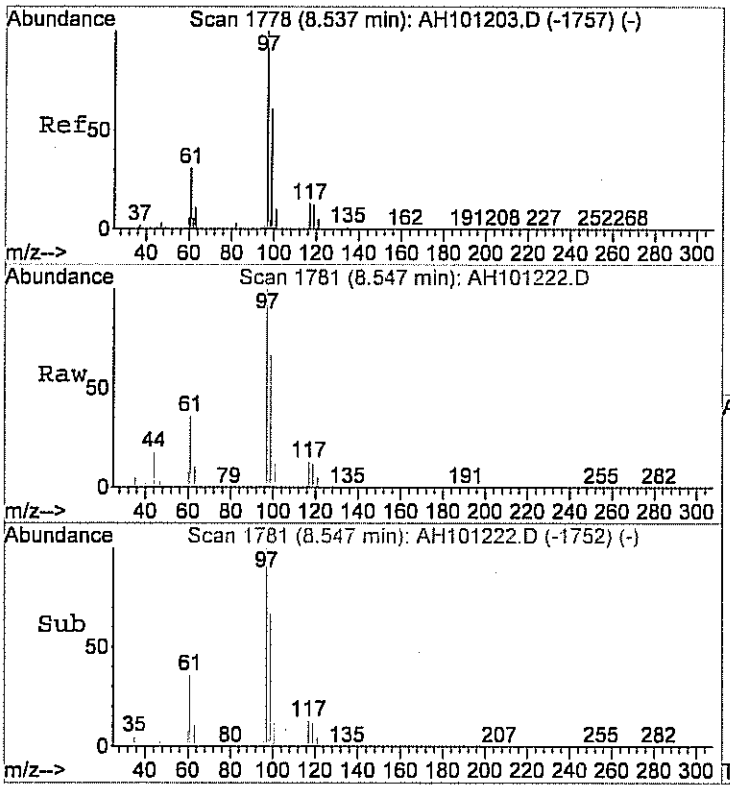


#27
Chloroform
Concen: 4.22 ppb
RT: 7.77 min Scan# 1538
Delta R.T. -0.06 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 83 Resp: 283339

Ion	Ratio	Lower	Upper
83	100		
85	66.1	45.2	85.2

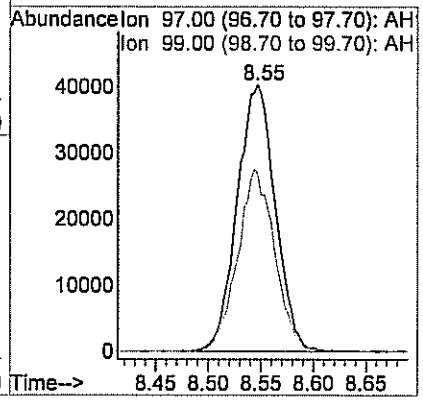


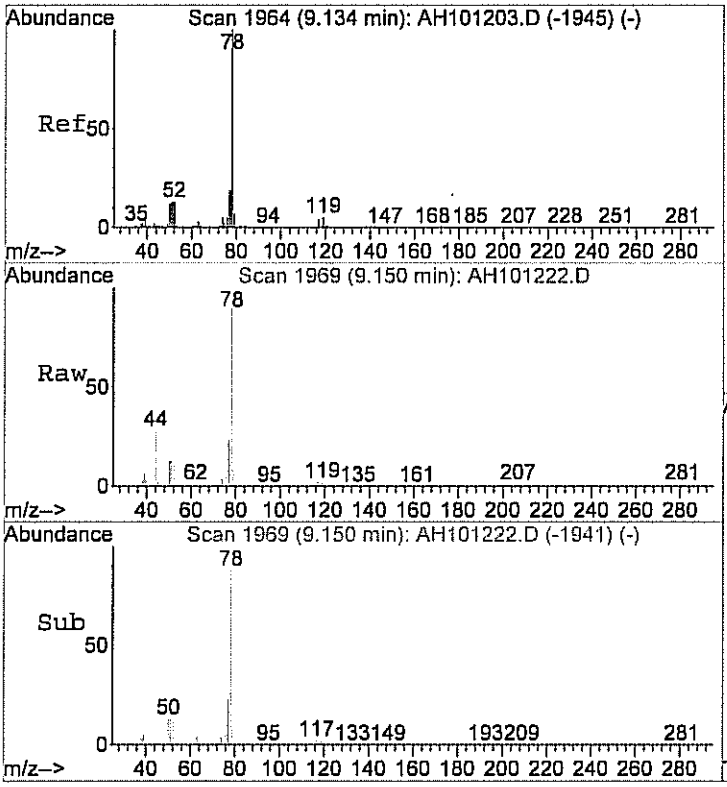


#31
1,1,1-trichloroethane
Concen: 2.01 ppb
RT: 8.55 min Scan# 1781
Delta R.T. -0.06 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 97 Resp: 101459

Ion	Ratio	Lower	Upper
97	100		
99	65.9	43.5	83.5

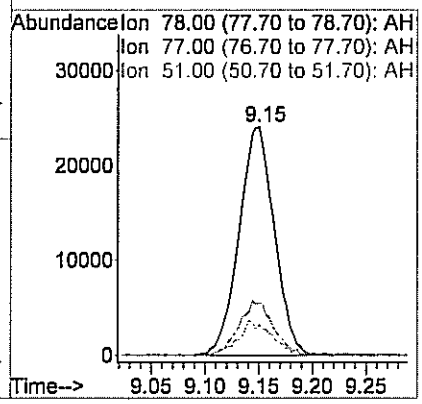


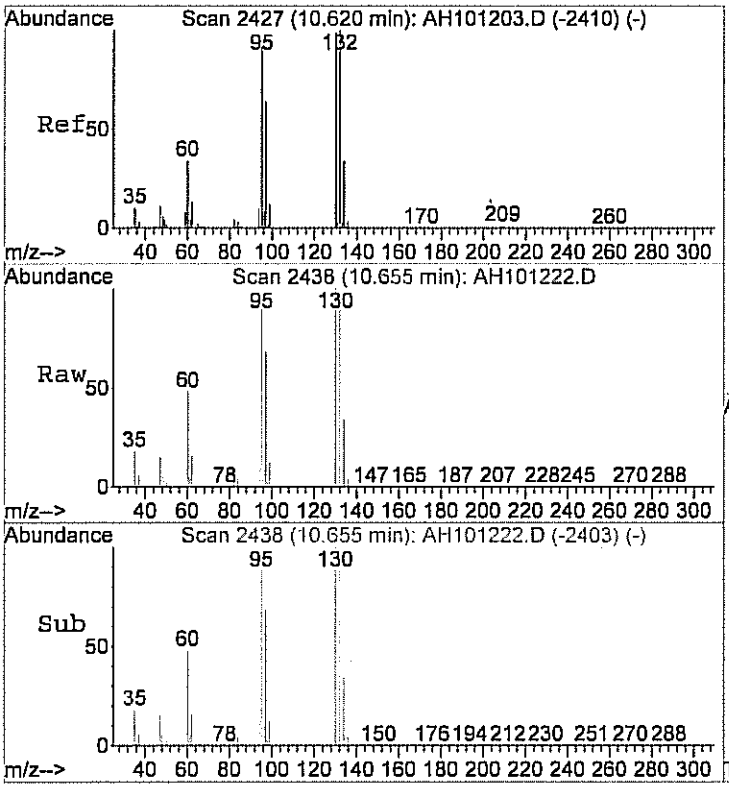


#34
Benzene
Concen: 0.67 ppb
RT: 9.15 min Scan# 1969
Delta R.T. -0.06 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 78 Resp: 55310

Ion	Ratio	Lower	Upper
78	100		
77	23.5	2.0	42.0
51	14.5	0.0	34.0

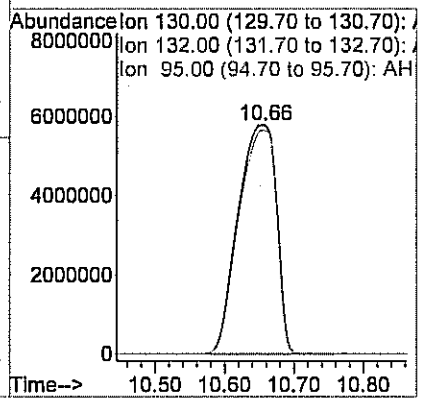


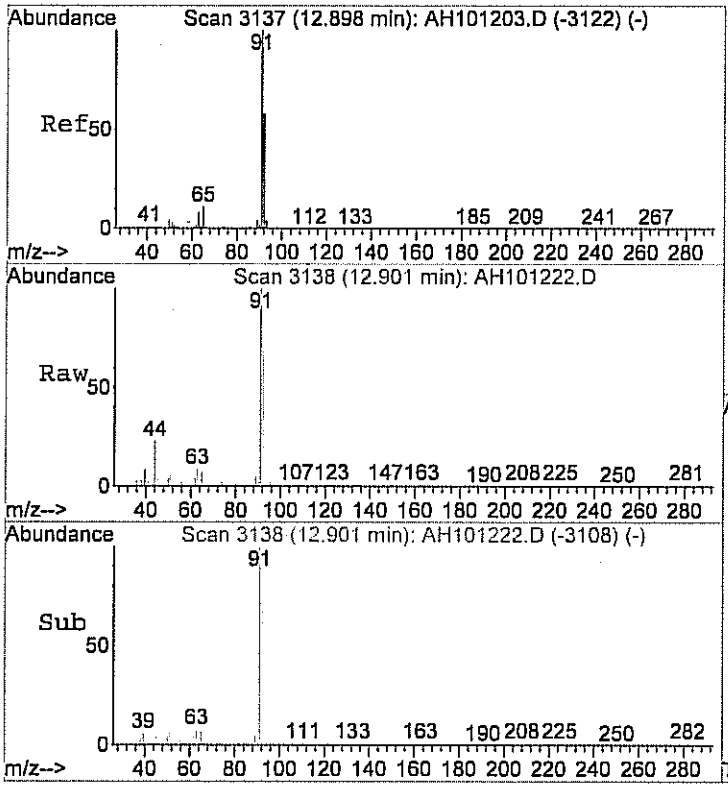


#38
Trichloroethene
Concen: 430.03 ppb
RT: 10.66 min Scan# 2438
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:130 Resp:22385931

Ion	Ratio	Lower	Upper
130	100		
132	97.0	78.8	118.8
95	94.5	75.3	115.3

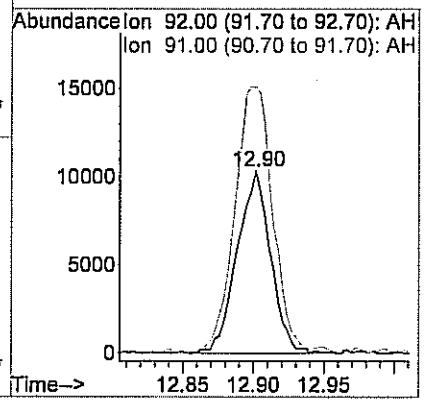


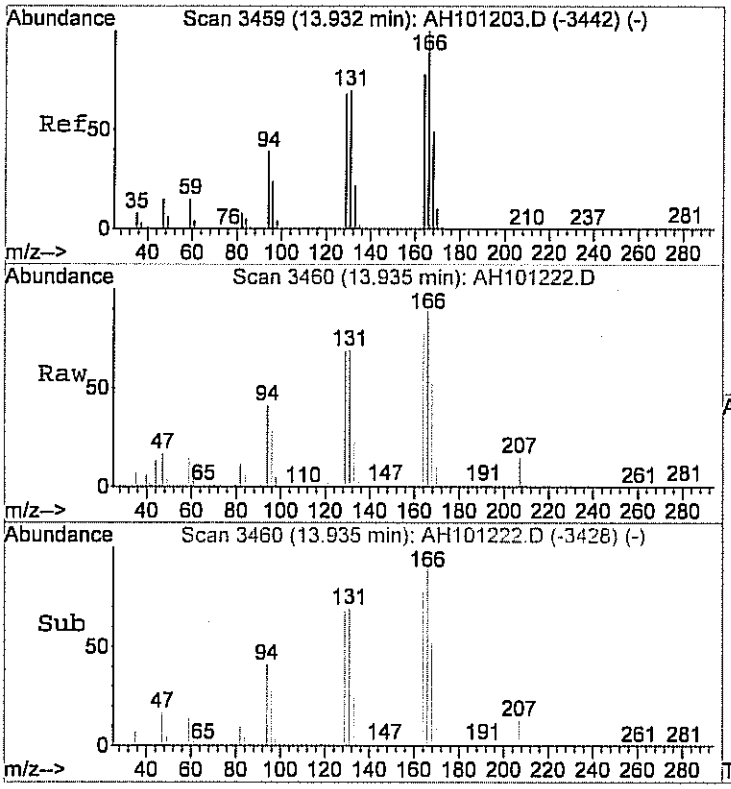


#45
Toluene
Concen: 0.36 ppb
RT: 12.90 min Scan# 3138
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 92 Resp: 16985

Ion	Ratio	Lower	Upper
92	100		
91	164.7	154.6	194.6

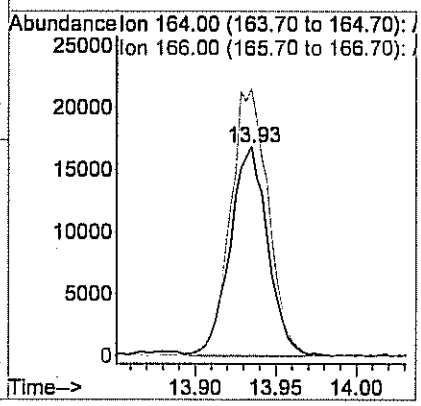


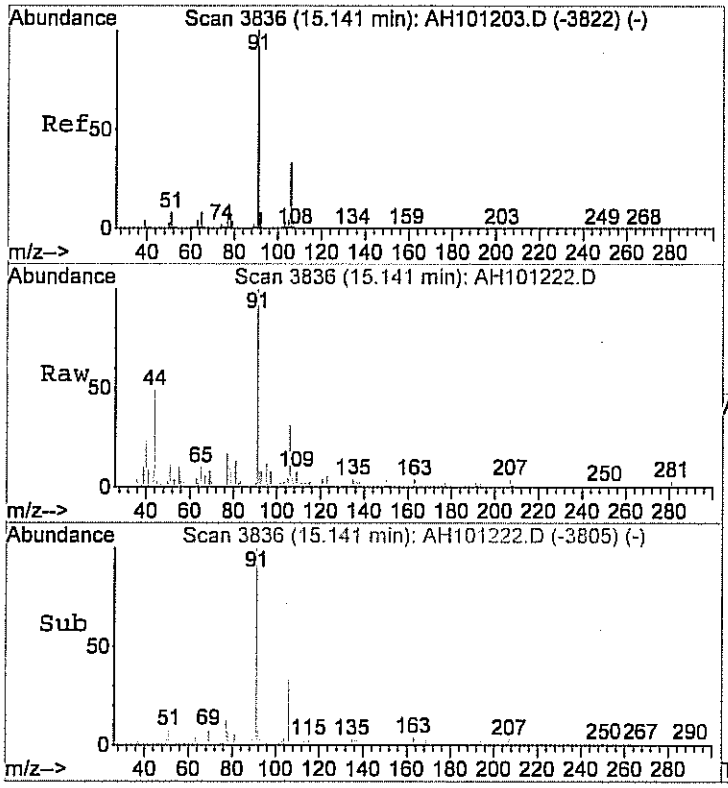


#50
Tetrachloroethylene
Concen: 0.51 ppb
RT: 13.93 min Scan# 3460
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:164 Resp: 27334

Ion	Ratio	Lower	Upper
164	100		
166	128.6	108.6	148.6

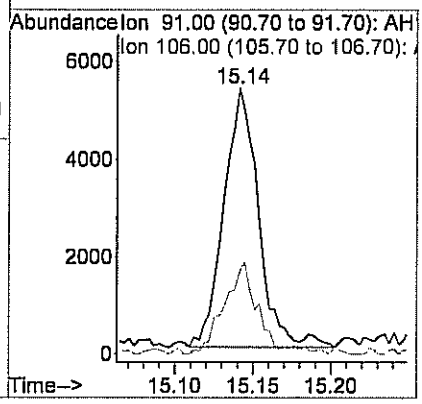


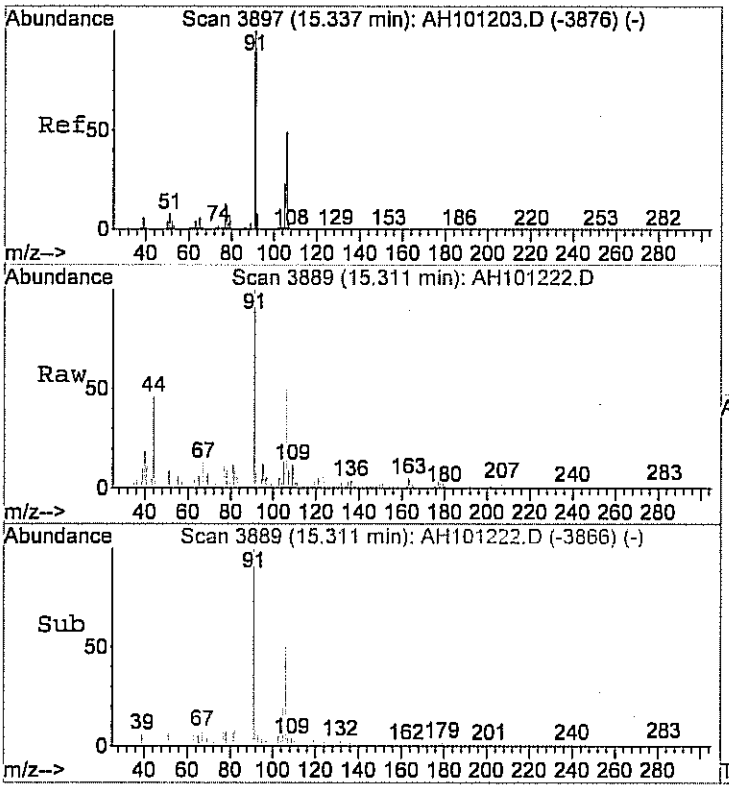


#52
Ethylbenzene
Concen: 0.10 ppb
RT: 15.14 min Scan# 3836
Delta R.T. -0.05 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 91 Resp: 8206

Ion	Ratio	Lower	Upper
91	100		
106	35.0	11.1	51.1

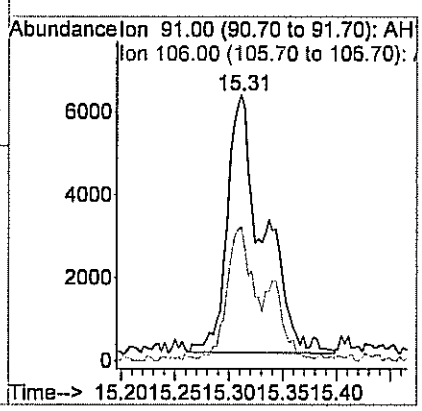


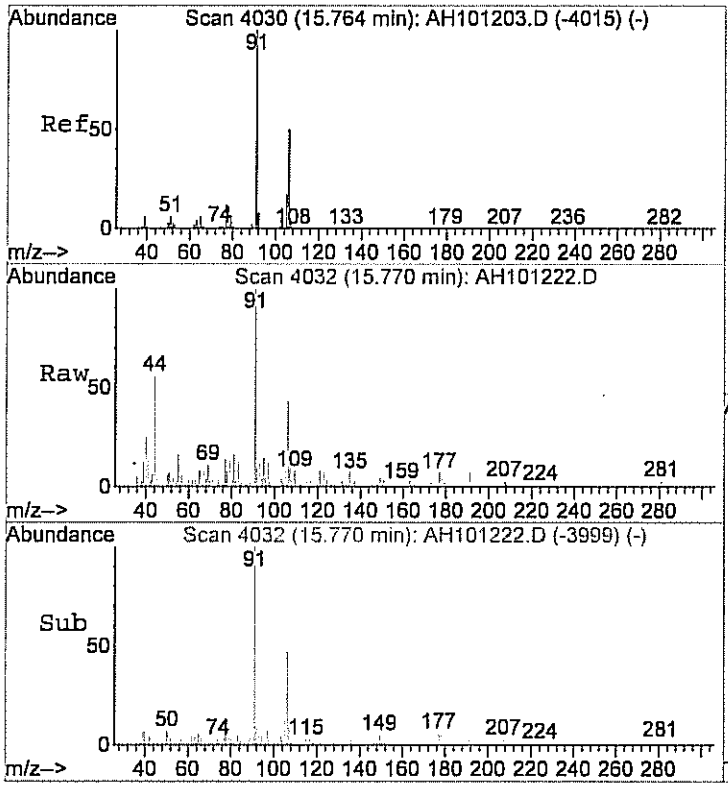


#53
m&p-xylene
Concen: 0.22 ppb
RT: 15.31 min Scan# 3889
Delta R.T. -0.08 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 91 Resp: 14403

Ion	Ratio	Lower	Upper
91	100		
106	54.6	29.1	69.1

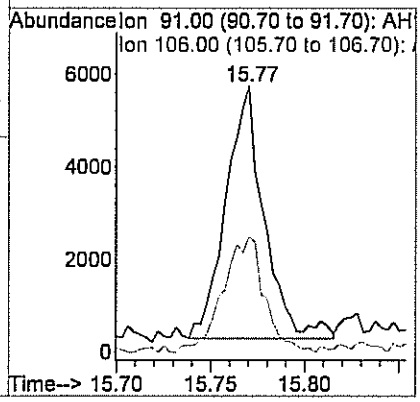


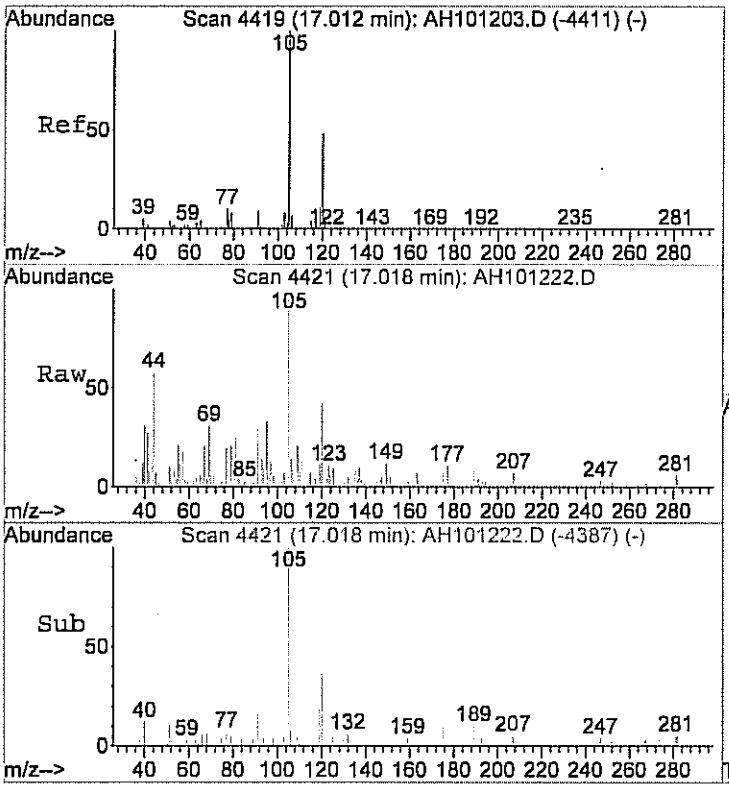


#56
o-xylene
Concen: 0.11 ppb
RT: 15.77 min Scan# 4032
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion: 91 Resp: 7759

Ion	Ratio	Lower	Upper
91	100		
106	49.2	27.4	67.4

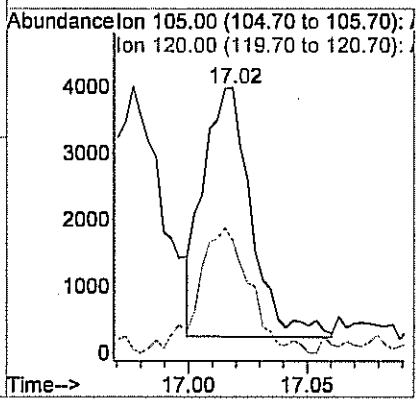


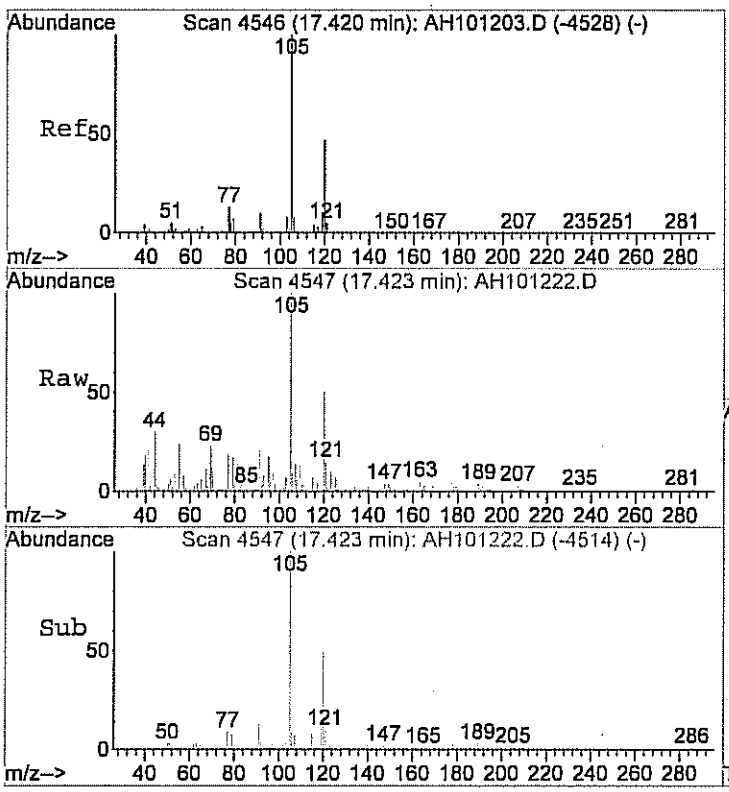


#60
1,3,5-trimethylbenzene
Concen: 0.10 ppb
RT: 17.02 min Scan# 4421
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:105 Resp: 5256

Ion	Ratio	Lower	Upper
105	100		
120	54.4	27.6	67.6

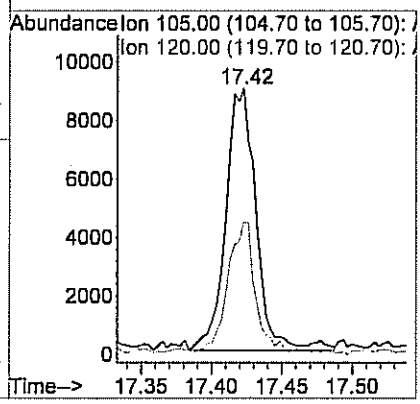




#61
1,2,4-trimethylbenzene
Concen: 0.36 ppb
RT: 17.42 min Scan# 4547
Delta R.T. -0.04 min
Lab File: AH101222.D
Acq: 12 Oct 2010 9:36 pm

Tgt Ion:105 Resp: 13534

Ion	Ratio	Lower	Upper
105	100		
120	48.0	24.3	64.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101306.D Vial: 6
Acq On : 13 Oct 2010 2:10 pm Operator: RJP
Sample : C1010018-003A 5X Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 14:31:31 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

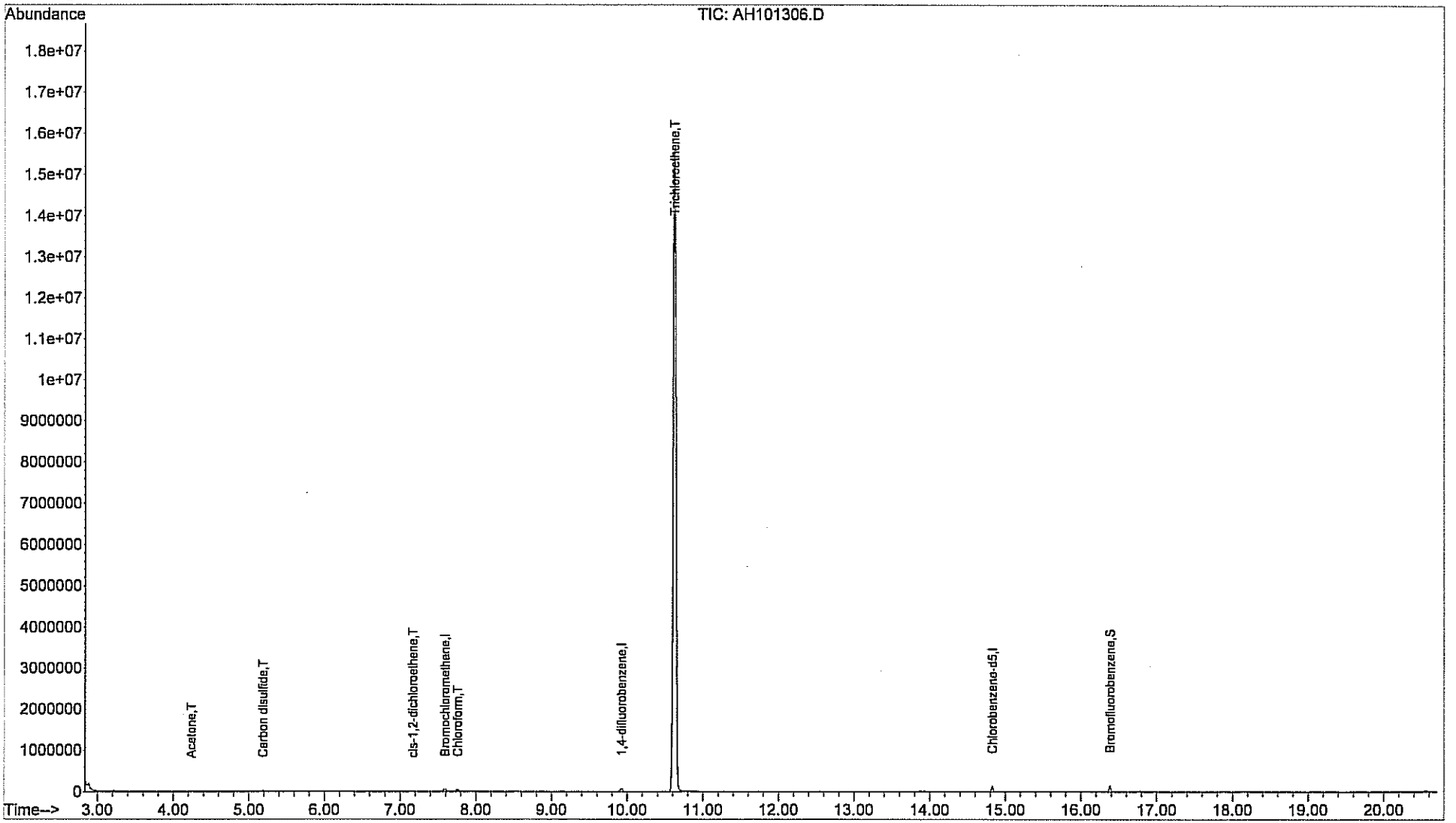
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	21419	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.93	114	79990	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	71152	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	40938m	1.28	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%			
Target Compounds						Qvalue
12) Acetone	4.24	58	4025	0.74	ppb	# 1
18) Carbon disulfide	5.18	76	35495	1.07	ppb	99
24) cis-1,2-dichloroethene	7.16	61	13972	0.47	ppb	97
27) Chloroform	7.76	83	47793	0.77	ppb	98
38) Trichloroethene	10.63	130	7726281	146.47	ppb	97

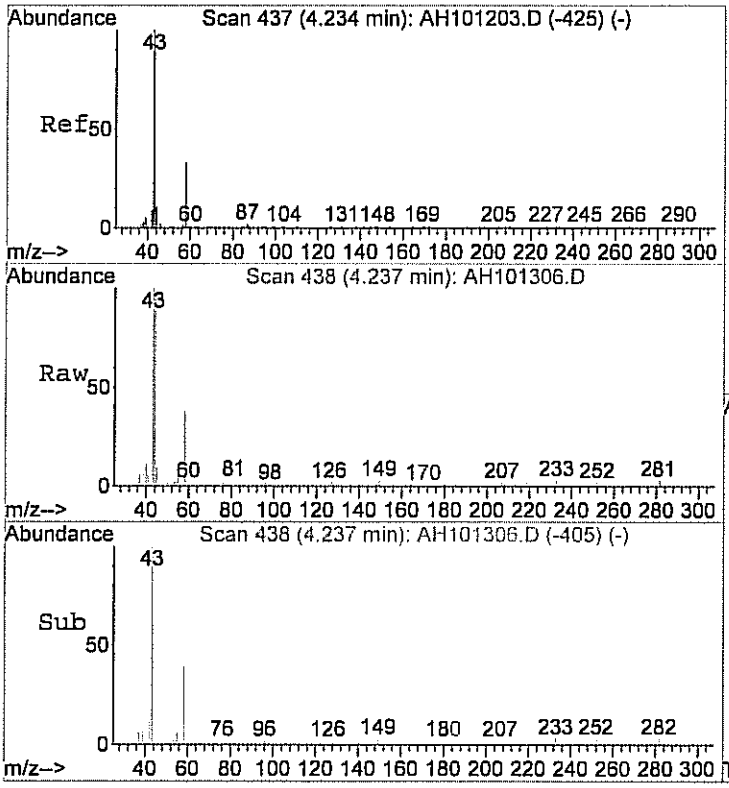
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101306.D Vial: 6
Acq On : 13 Oct 2010 2:10 pm Operator: RJP
Sample : C1010018-003A 5X Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:28 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

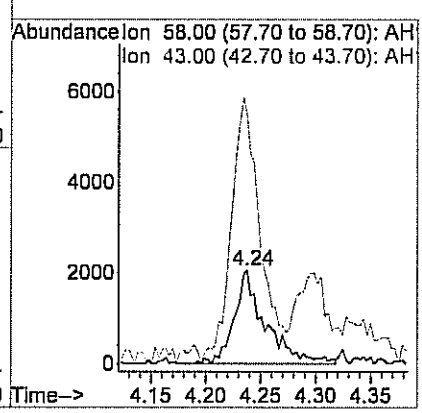


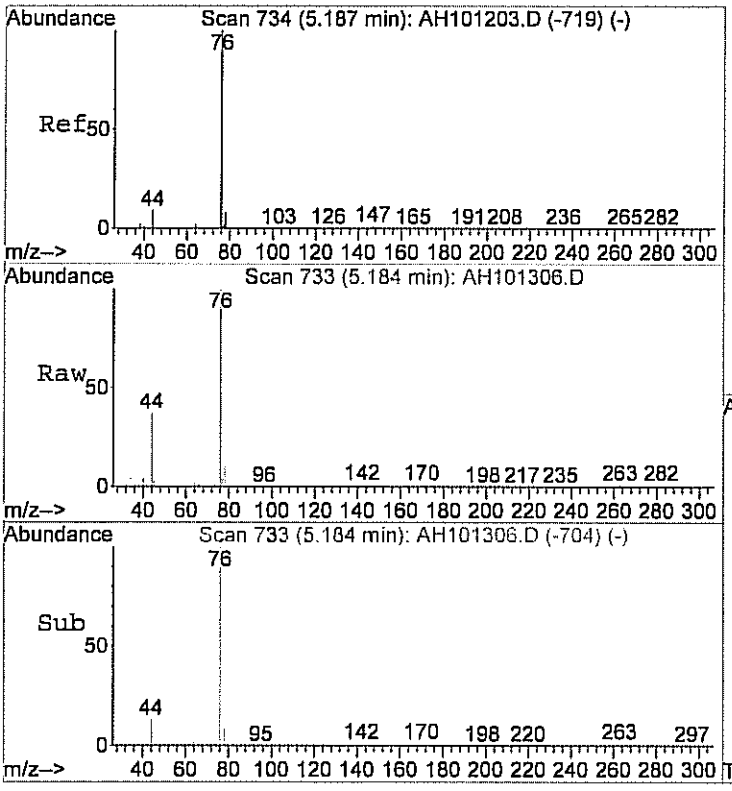


#12
Acetone
Concen: 0.74 ppb
RT: 4.24 min Scan# 438
Delta R.T. -0.04 min
Lab File: AH101306.D
Acq: 13 Oct 2010 2:10 pm

Tgt Ion: 58 Resp: 4025

Ion	Ratio	Lower	Upper
58	100		
43	418.4	37.6	97.6#

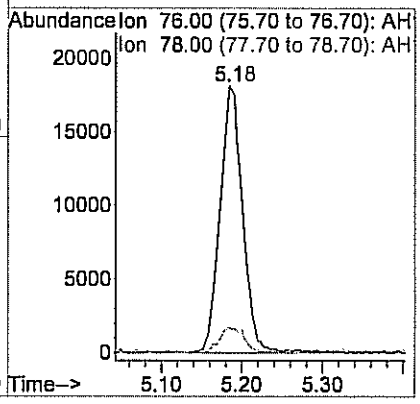


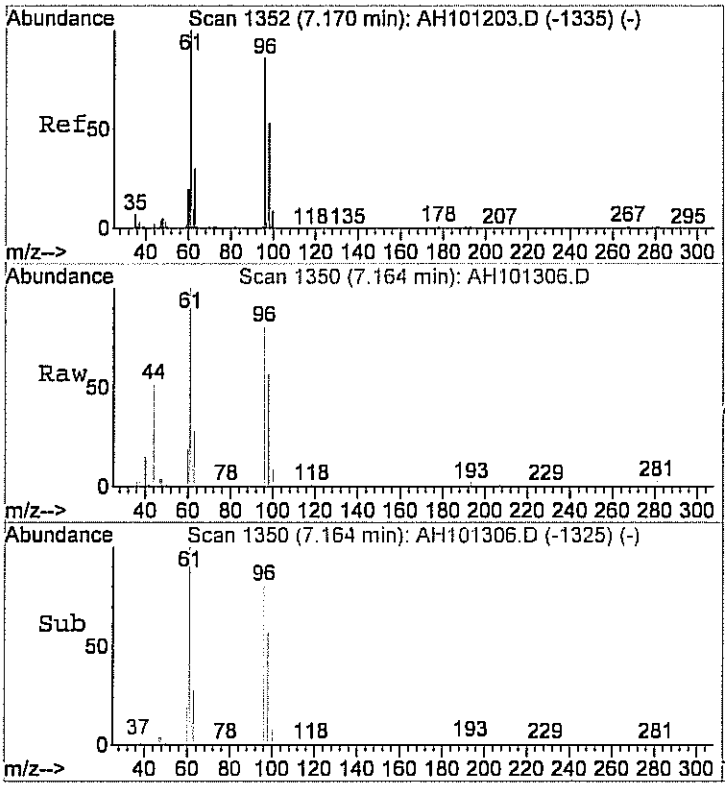


#18
Carbon disulfide
Concen: 1.07 ppb
RT: 5.18 min Scan# 733
Delta R.T. -0.06 min
Lab File: AH101306.D
Acq: 13 Oct 2010 2:10 pm

Tgt Ion: 76 Resp: 35495

Ion	Ratio	Lower	Upper
76	100		
78	10.3	0.0	30.6

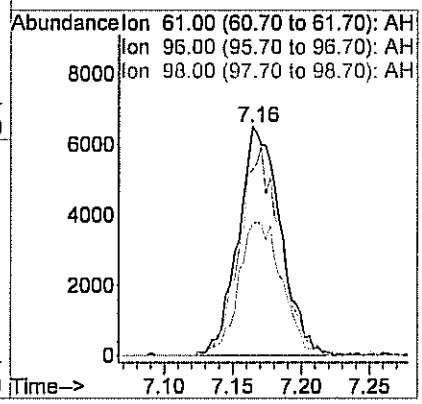


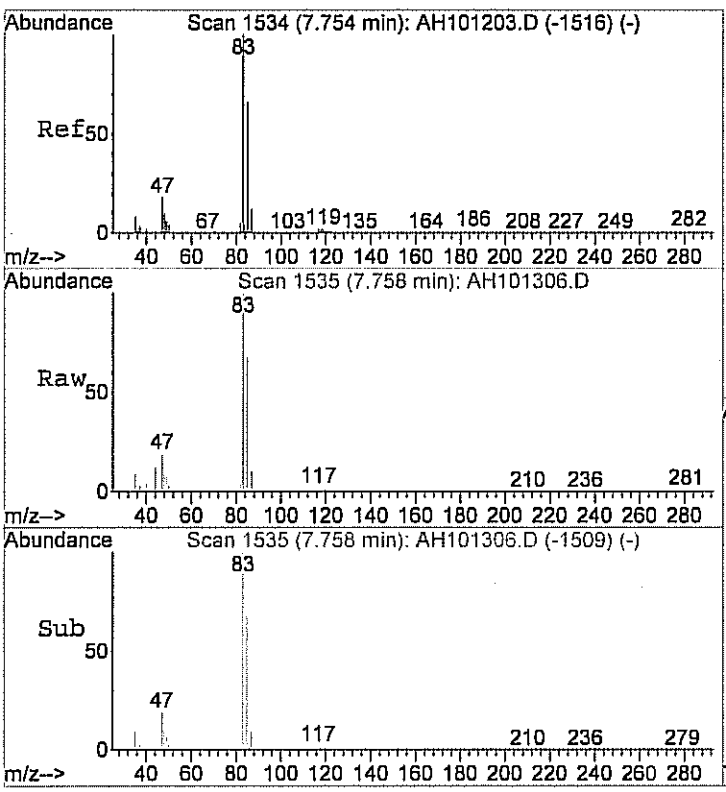


#24
cis-1,2-dichloroethene
Concen: 0.47 ppb
RT: 7.16 min Scan# 1350
Delta R.T. -0.07 min
Lab File: AH101306.D
Acq: 13 Oct 2010 2:10 pm

Tgt Ion: 61 Resp: 13972

Ion	Ratio	Lower	Upper
61	100		
96	87.4	70.1	110.1
98	60.1	37.9	77.9

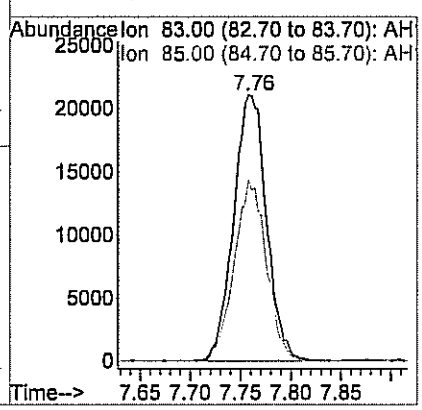


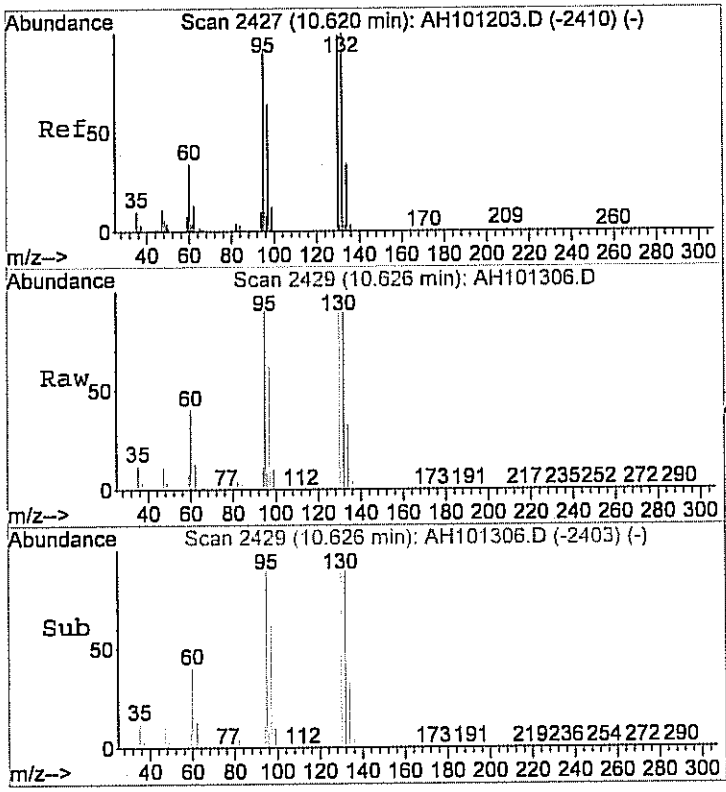


#27
Chloroform
Concen: 0.77 ppb
RT: 7.76 min Scan# 1535
Delta R.T. -0.07 min
Lab File: AH101306.D
Acq: 13 Oct 2010 2:10 pm

Tgt Ion: 83 Resp: 47793

Ion	Ratio	Lower	Upper
83	100		
85	66.4	45.2	85.2

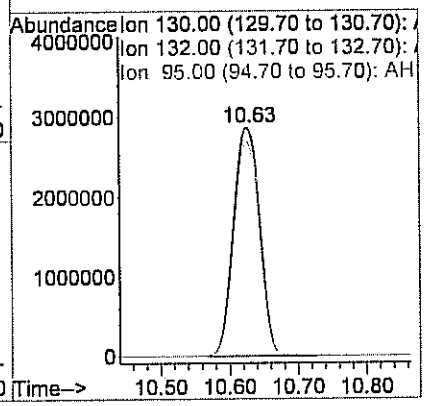




#38
Trichloroethene
Concen: 146.47 ppb
RT: 10.63 min Scan# 2429
Delta R.T. -0.07 min
Lab File: AH101306.D
Acq: 13 Oct 2010 2:10 pm

Tgt Ion:130 Resp: 7726281

Ion	Ratio	Lower	Upper
130	100		
132	97.5	78.8	118.8
95	91.6	75.3	115.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101309.D Vial: 9
Acq On : 13 Oct 2010 4:04 pm Operator: RJP
Sample : C1010018-003A 270X Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 16:25:00 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

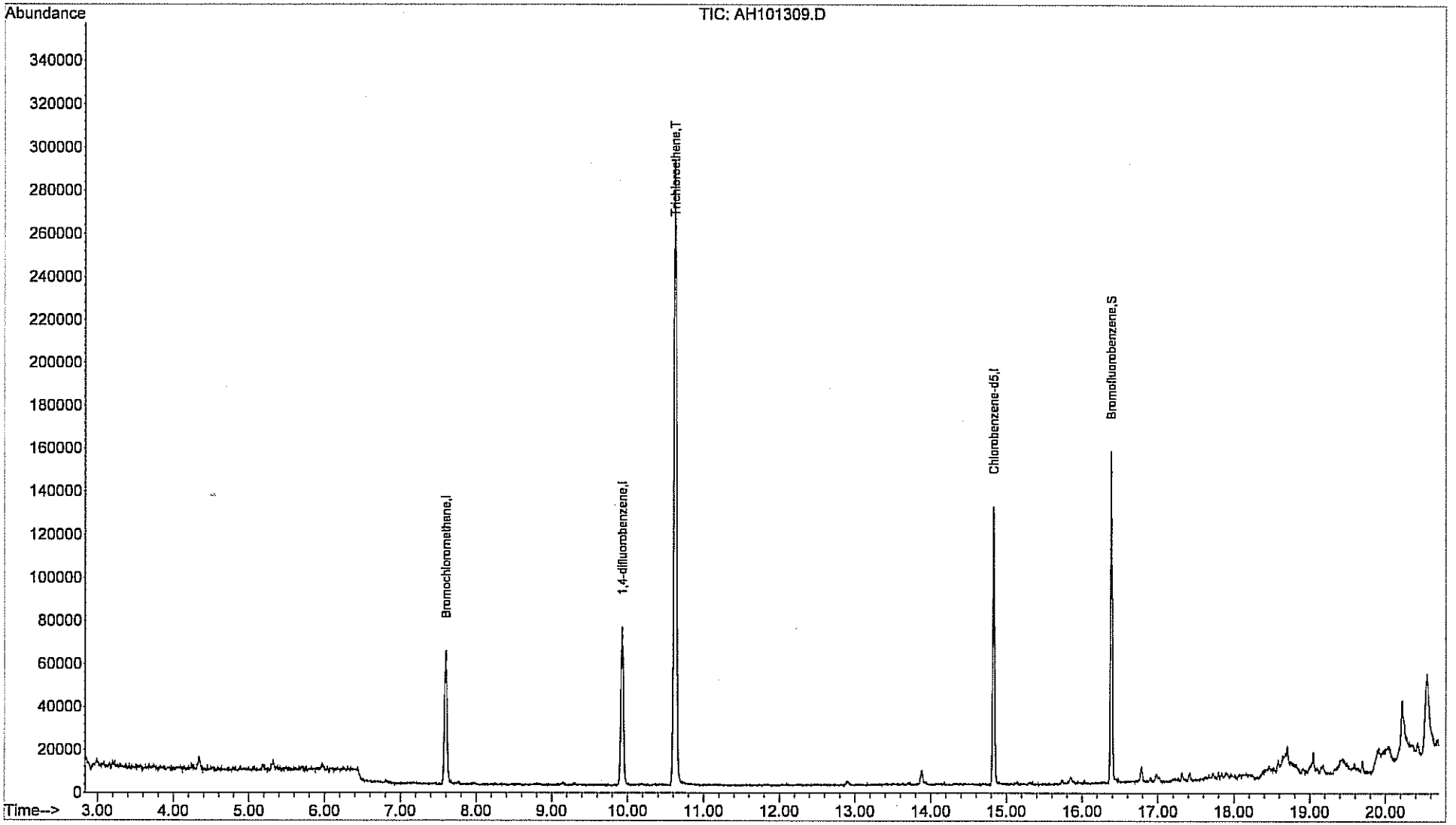
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	22507	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.93	114	81752	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	72911	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	41427m	1.27	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 127.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.62	130	131804	2.44	ppb	98

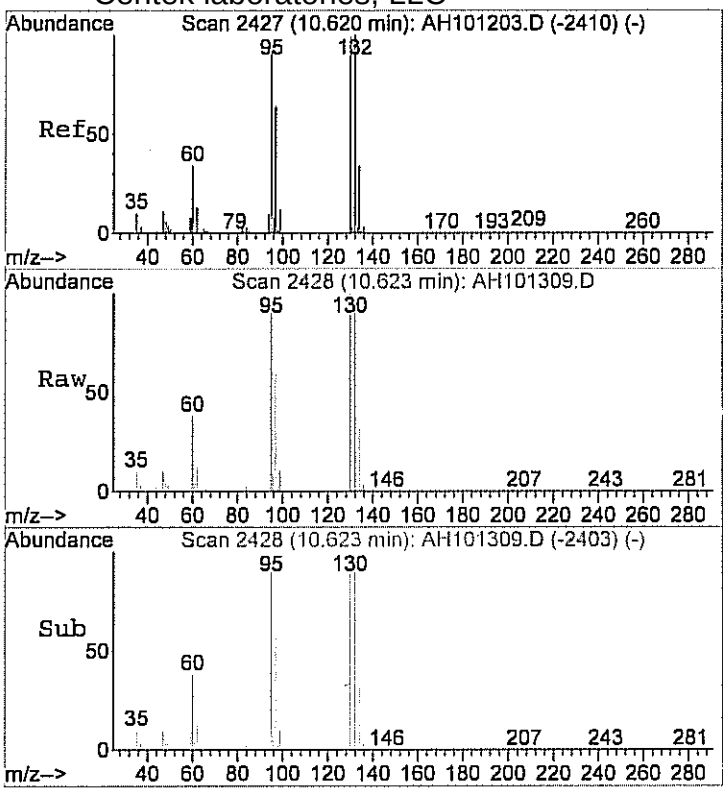
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101309.D Vial: 9
Acq On : 13 Oct 2010 4:04 pm Operator: RJP
Sample : C1010018-003A 270X Inst : MSD #1
Misc : C1010018-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:28 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

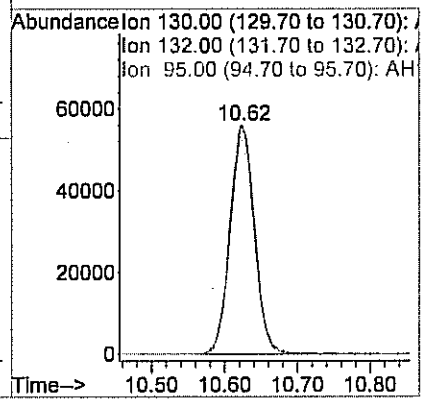




#38
Trichloroethene
Concen: 2.44 ppb
RT: 10.62 min Scan# 2428
Delta R.T. -0.07 min
Lab File: AH101309.D
Acq: 13 Oct 2010 4:04 pm

Tgt Ion:130 Resp: 131804

Ion	Ratio	Lower	Upper
130	100		
132	96.9	78.8	118.8
95	92.7	75.3	115.3



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785SSVM0105AA
Lab Order:	C1010018	**Tag Number:**	493
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101223.D Vial: 9
Acq On : 12 Oct 2010 10:08 pm Operator: RJP
Sample : C1010018-004A Inst : MSD #1
Misc : C1010018-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 22:29:46 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.84	128	25078m	1.00	ppb		0.19
30) 1,4-difluorobenzene	9.95	114	97111m	1.00	ppb		-0.04
44) Chlorobenzene-d5	14.83	117	78743	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.39	95	47231	1.34	ppb		-0.04
Spiked Amount 1.000	Range 70 - 130		Recovery = 134.00%#				
Target Compounds							Qvalue
8) Bromomethane	3.66	94	2190	0.12	ppb	#	5
11) Freon 11	4.27	101	21450	0.43	ppb	#	28
12) Acetone	4.27	58	18432360m	2898.18	ppb		
13) Isopropyl alcohol	4.46	45	2209	0.21	ppb	#	28
19) trans-1,2-dichloroethene	5.93	61	3933	0.12	ppb		96
23) Methyl Ethyl Ketone	6.80	43	146503928m	3269.31	ppb		
24) cis-1,2-dichloroethene	7.30	61	41192	1.18	ppb		99
27) Chloroform	8.03	83	127438	1.75	ppb		99
28) Tetrahydrofuran	7.97	42	78658811m	5635.65	ppb		
31) 1,1,1-trichloroethane	8.59	97	52579	0.85	ppb		98
32) Cyclohexane	9.26	56	17603	0.53	ppb	#	27
33) Carbon tetrachloride	9.20	117	4689	0.05	ppb		97
34) Benzene	9.17	78	40514	0.40	ppb		98
35) 1,4-dioxane	10.99	88	1379	0.14	ppb	#	57
38) Trichloroethene	10.65	130	11465368	179.03	ppb		98
42) trans-1,3-dichloropropene	12.90	75	3703	0.19	ppb	#	1
45) Toluene	12.90	92	325288	5.82	ppb		95
46) Methyl Isobutyl Ketone	12.01	43	10012	0.49	ppb		98
48) Methyl Butyl Ketone	13.39	43	9841	0.55	ppb		92
50) Tetrachloroethylene	13.93	164	10980	0.17	ppb		97
52) Ethylbenzene	15.14	91	18442	0.19	ppb		97
53) m&p-xylene	15.31	91	24060	0.31	ppb		94
56) o-xylene	15.76	91	11531	0.13	ppb		91
59) 4-ethyltoluene	16.90	105	9225	0.13	ppb		95
60) 1,3,5-trimethylbenzene	16.90	105	9250	0.15	ppb		78
61) 1,2,4-trimethylbenzene	17.42	105	19372	0.43	ppb		97
63) benzyl chloride	17.75	91	2764	0.12	ppb		91
66) 1,2,4-trichlorobenzene	19.70	180	1370	0.10	ppb		85

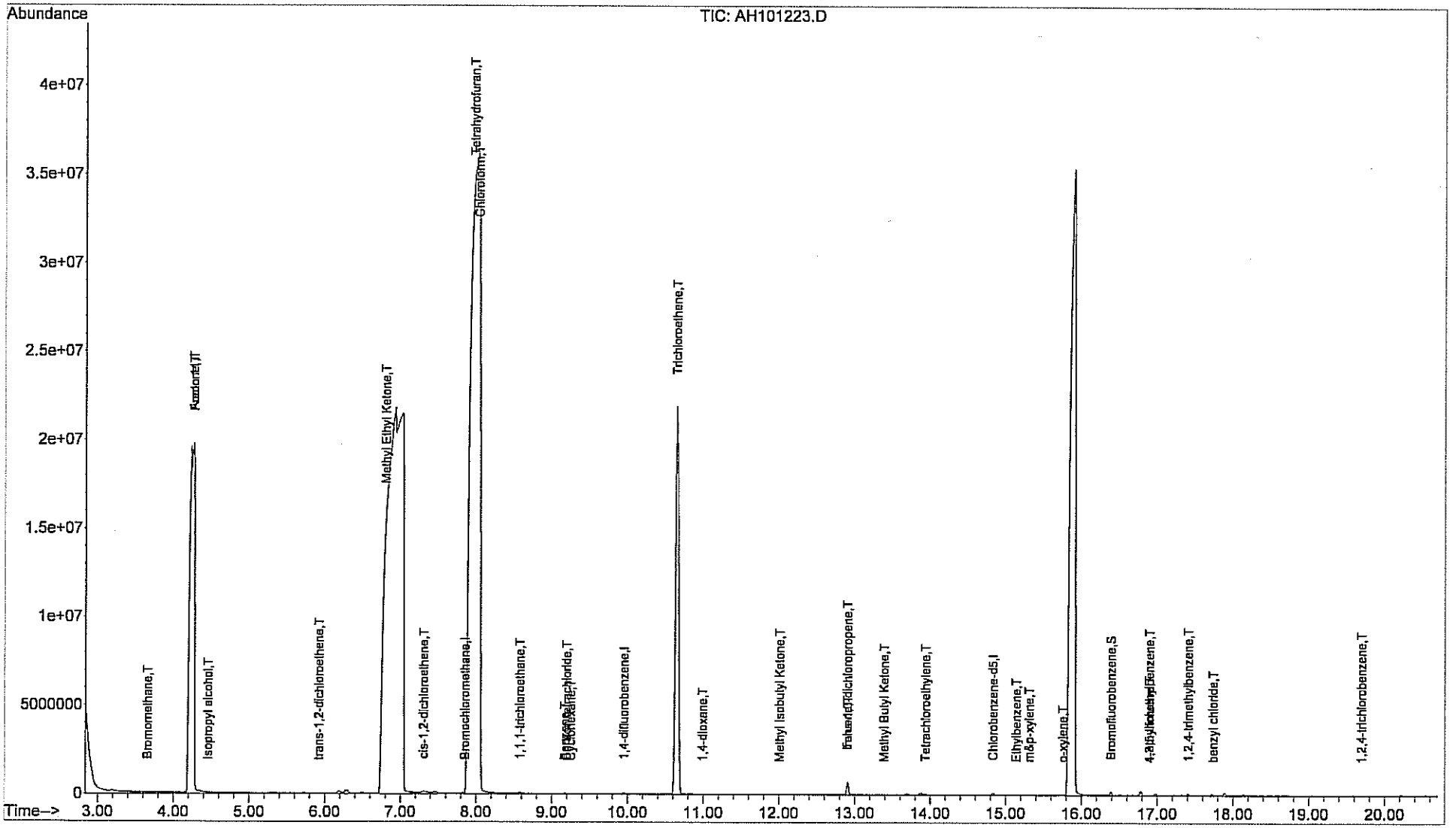
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

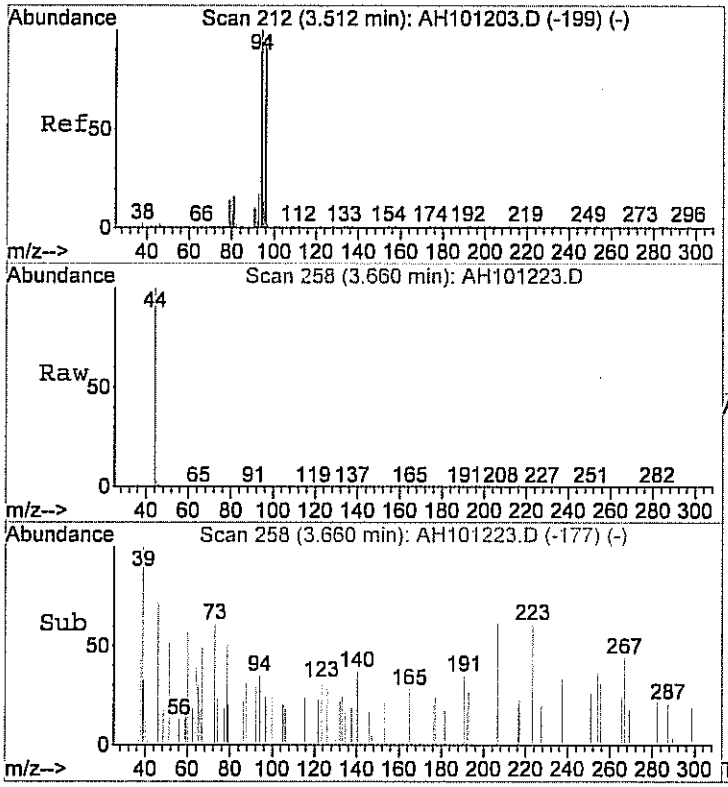
Data File : C:\HPCHEM\1\DATA\AH101223.D
Acq On : 12 Oct 2010 10:08 pm
Sample : C1010018-004A
Misc : C1010018-004A
MS Integration Params: RTEINT.P
Quant Time: Oct 12 22:28 2010

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



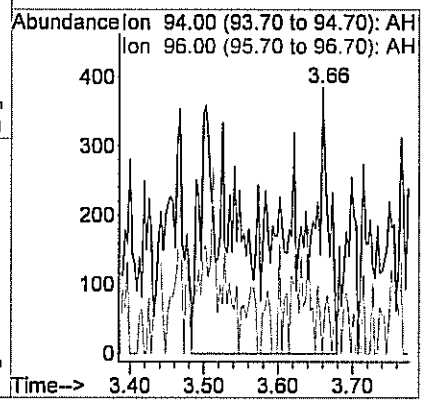
Centek laboratories, LLC

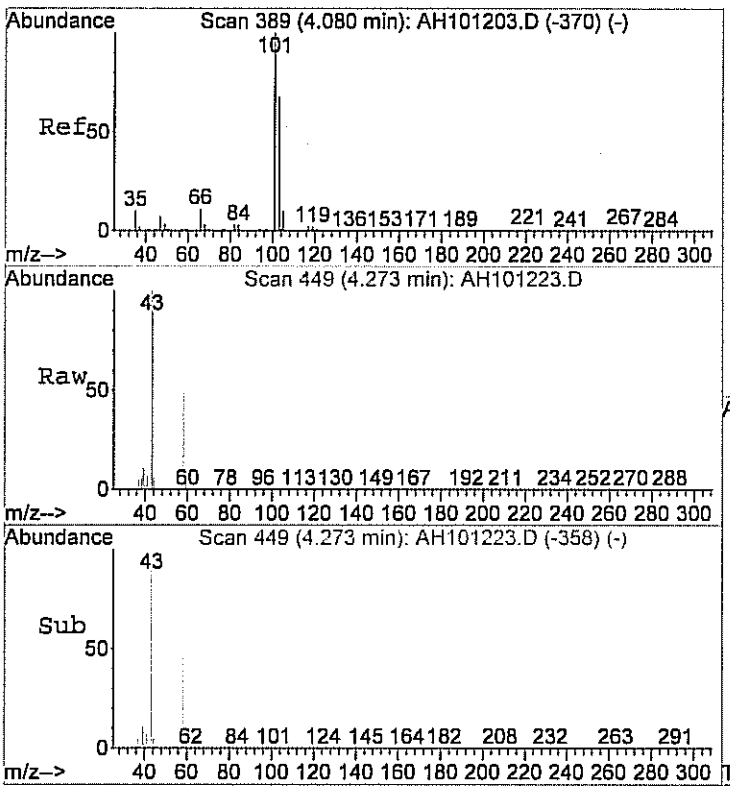


#8
Bromomethane
Concen: 0.12 ppb
RT: 3.66 min Scan# 258
Delta R.T. 0.11 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 94 Resp: 2190

Ion	Ratio	Lower	Upper
94	100		
96	1.8	71.9	111.9#

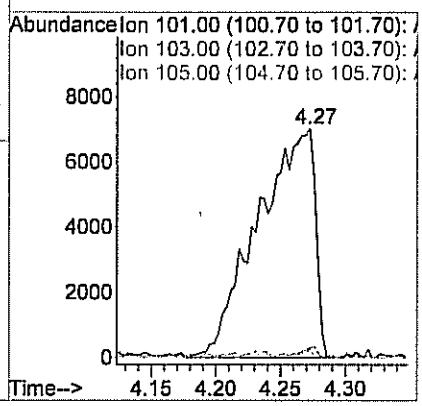


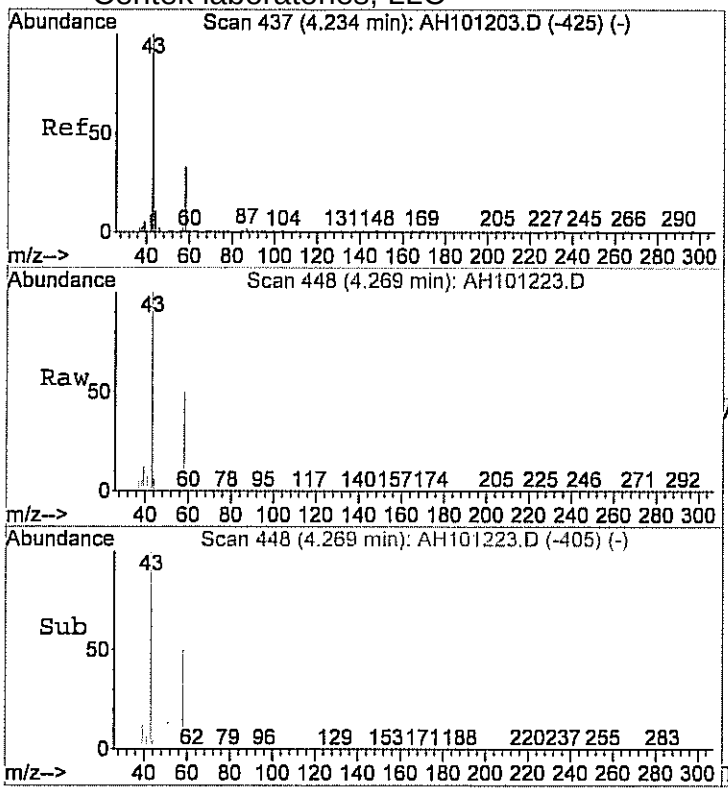


#11
Freon 11
Concen: 0.43 ppb
RT: 4.27 min Scan# 449
Delta R.T. 0.14 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:101 Resp: 21450

Ion	Ratio	Lower	Upper
101	100		
103	1.7	44.6	84.6#
105	0.6	0.0	31.1

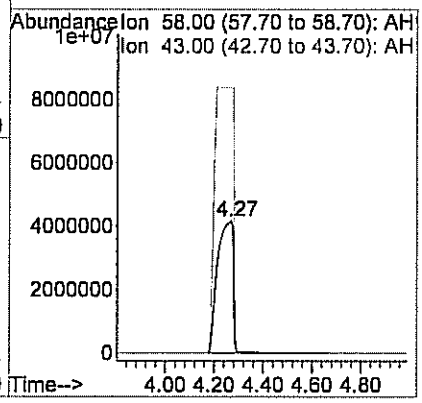


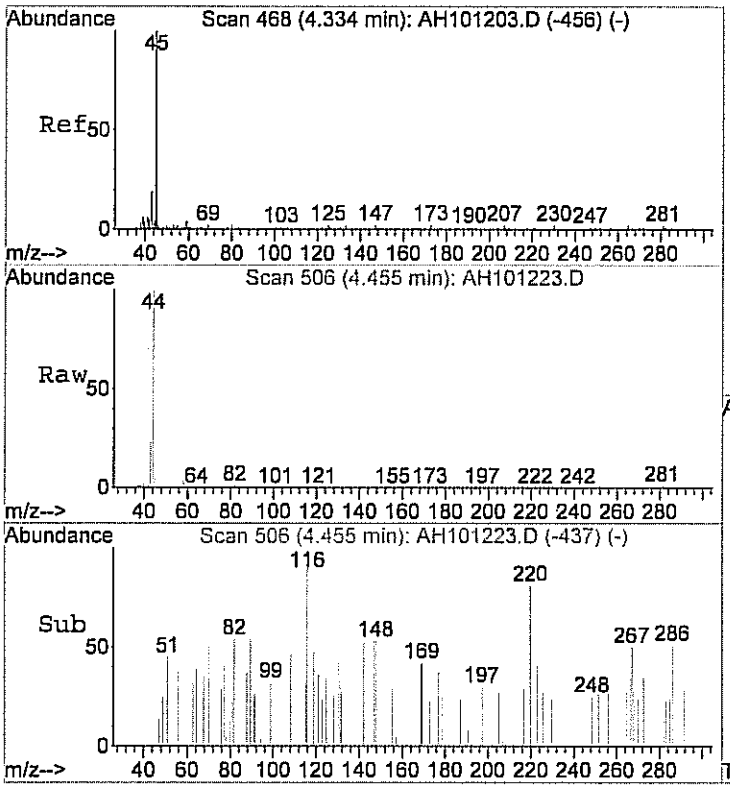


#12
Acetone
Concen: 2898.18 ppb m
RT: 4.27 min Scan# 448
Delta R.T. -0.01 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 58 Resp:18432360

Ion	Ratio	Lower	Upper
58	100		
43	0.0	37.6	97.6#

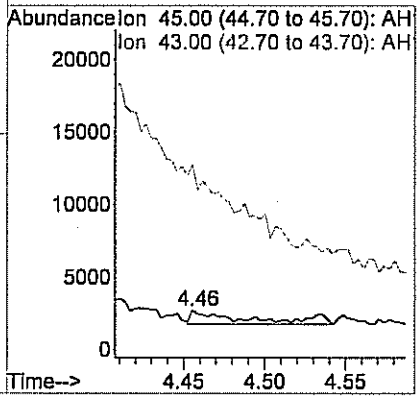


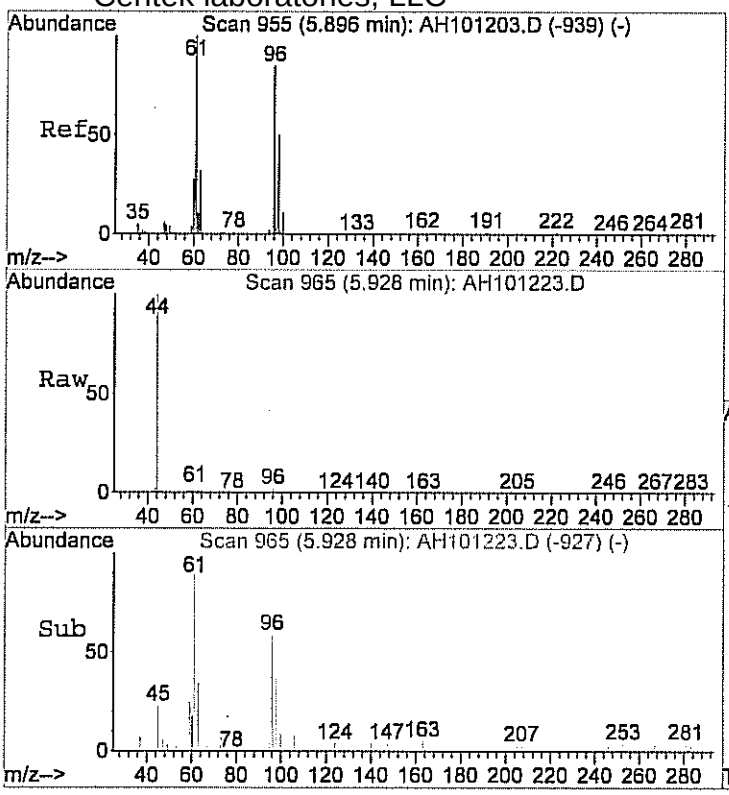


#13
Isopropyl alcohol
Concen: 0.21 ppb
RT: 4.46 min Scan# 506
Delta R.T. 0.07 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 45 Resp: 2209

Ion	Ratio	Lower	Upper
45	100		
43	0.0	29.3	69.3#

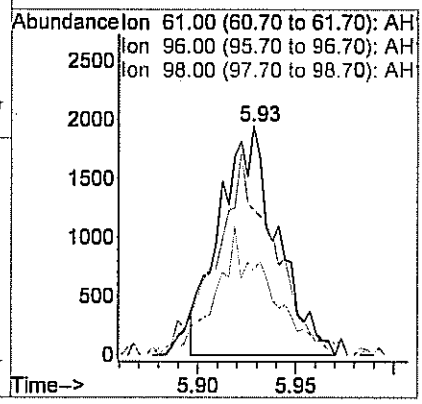


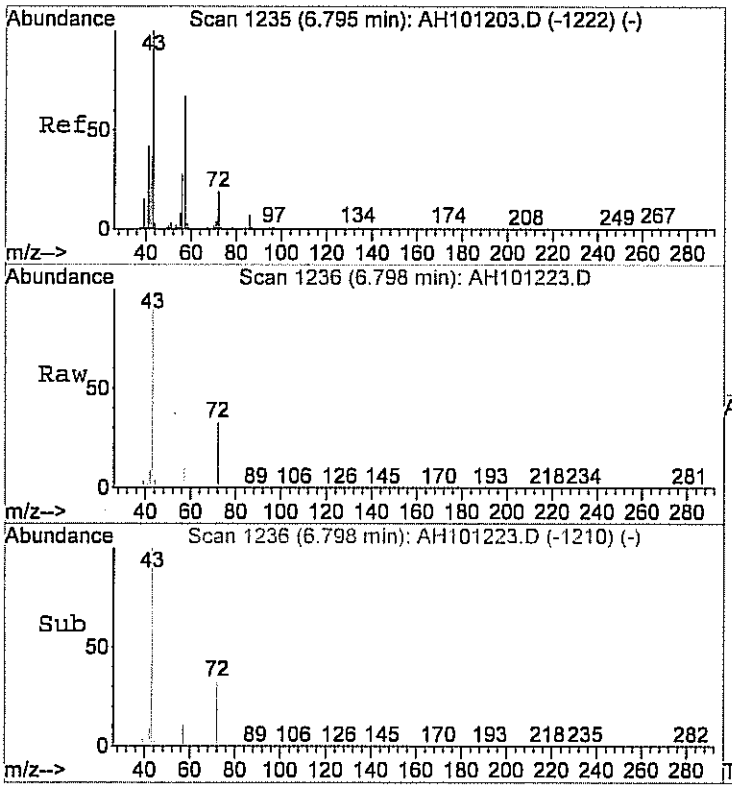


#19
trans-1,2-dichloroethene
Concen: 0.12 ppb
RT: 5.93 min Scan# 965
Delta R.T. -0.03 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 61 Resp: 3933

Ion	Ratio	Lower	Upper
61	100		
96	84.2	60.6	100.6
98	49.2	32.3	72.3

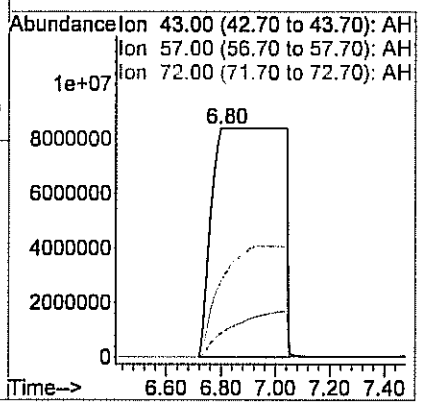


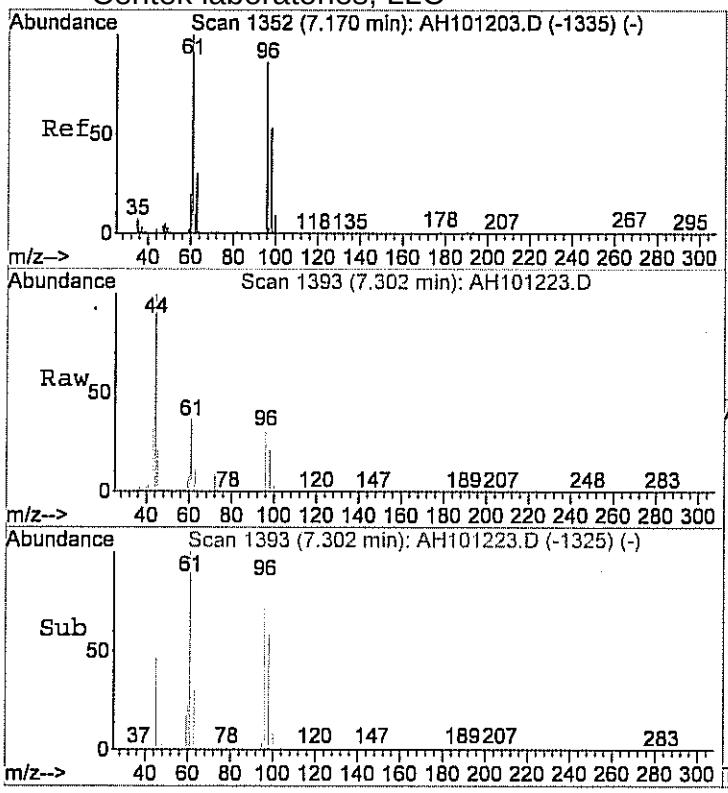


#23
Methyl Ethyl Ketone
Concen: 3269.31 ppb m
RT: 6.80 min Scan# 1236
Delta R.T. -0.07 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 43 Resp:146503928

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.7	80.7#
72	0.0	0.0	39.3

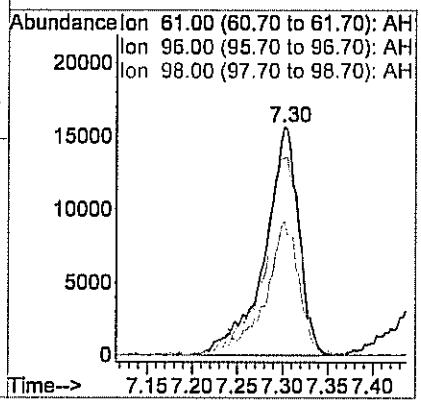


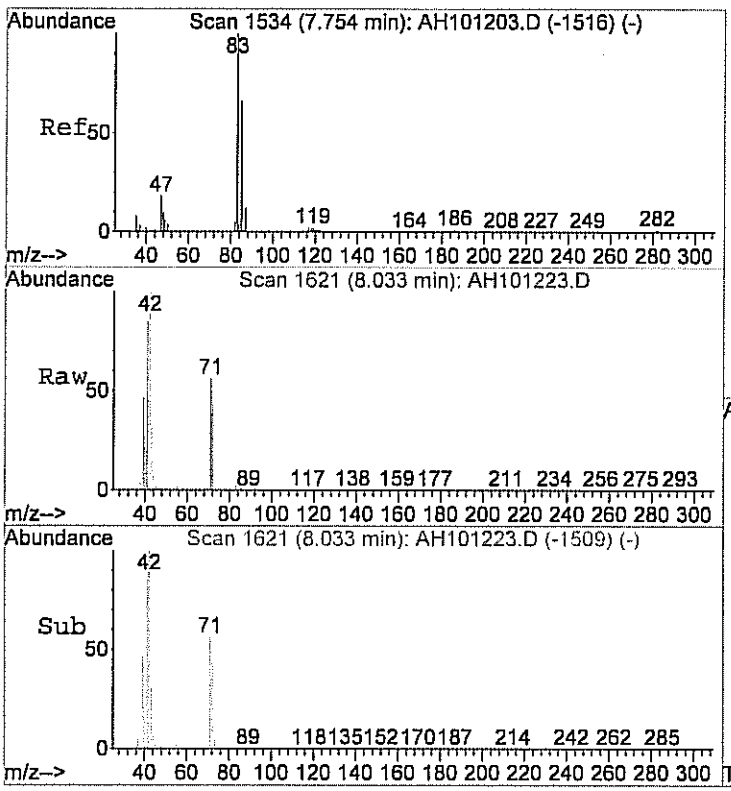


#24
cis-1,2-dichloroethene
Concen: 1.18 ppb
RT: 7.30 min Scan# 1393
Delta R.T. 0.07 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 61 Resp: 41192

Ion	Ratio	Lower	Upper
61	100		
96	92.2	70.1	110.1
98	58.0	37.9	77.9

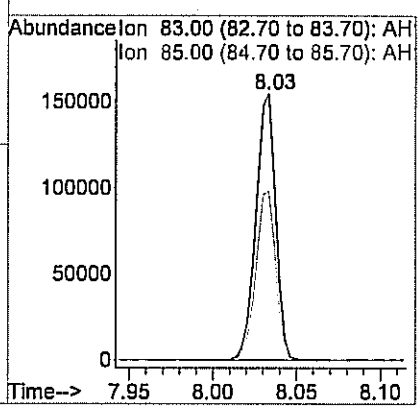


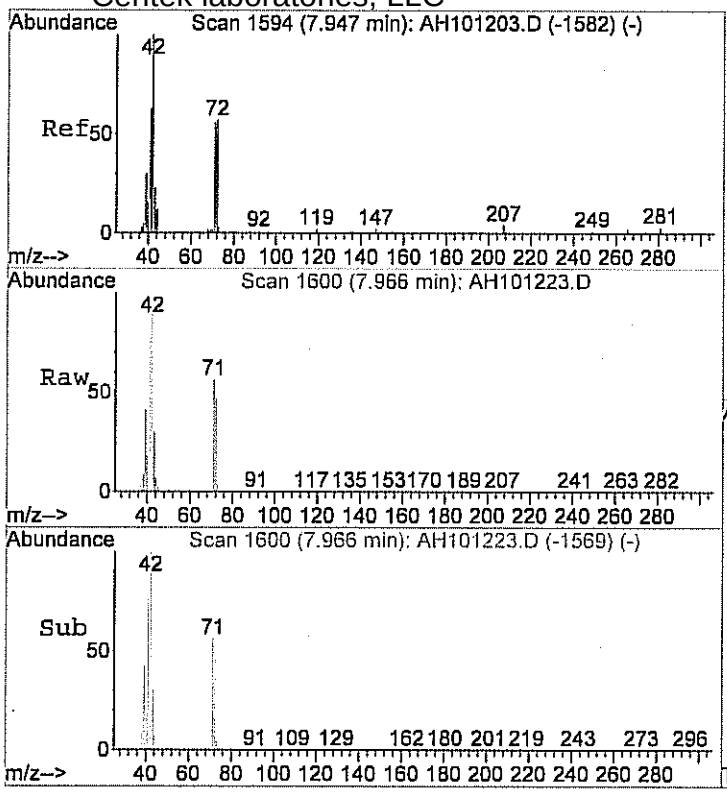


#27
Chloroform
Concen: 1.75 ppb
RT: 8.03 min Scan# 1621
Delta R.T. 0.21 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 83 Resp: 127438

Ion	Ratio	Lower	Upper
83	100		
85	64.1	45.2	85.2

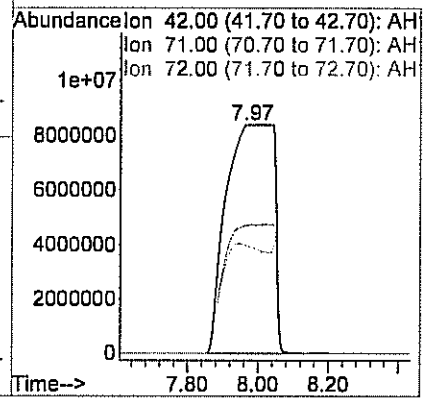


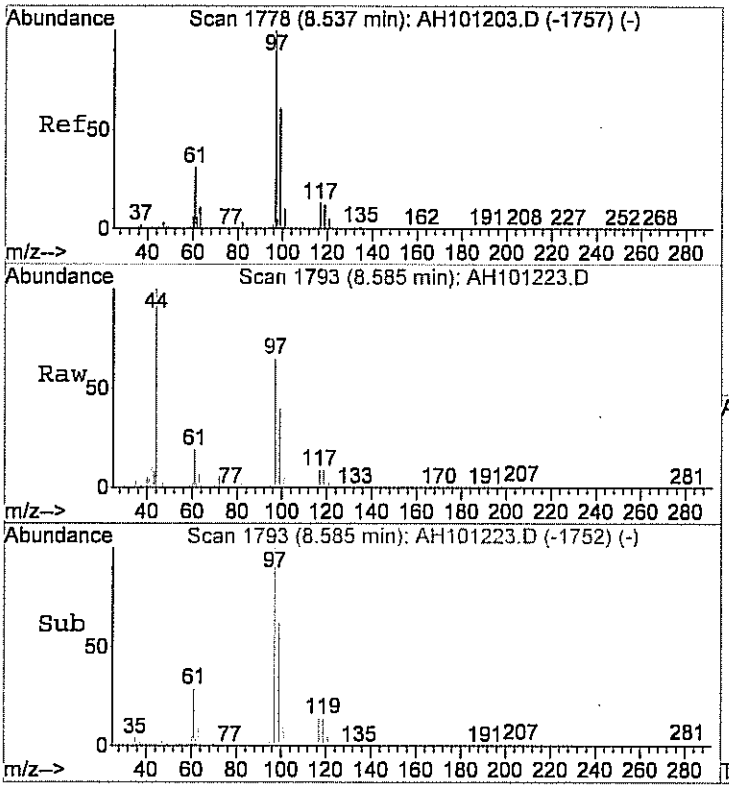


#28
Tetrahydrofuran
Concen: 5635.65 ppb m
RT: 7.97 min Scan# 1600
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 42 Resp:78658811

Ion	Ratio	Lower	Upper
42	100		
71	0.0	38.8	78.8#
72	0.0	32.5	72.5#

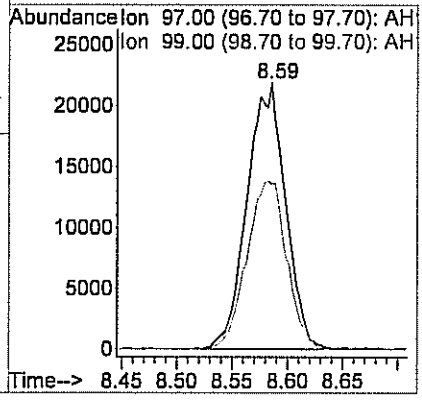


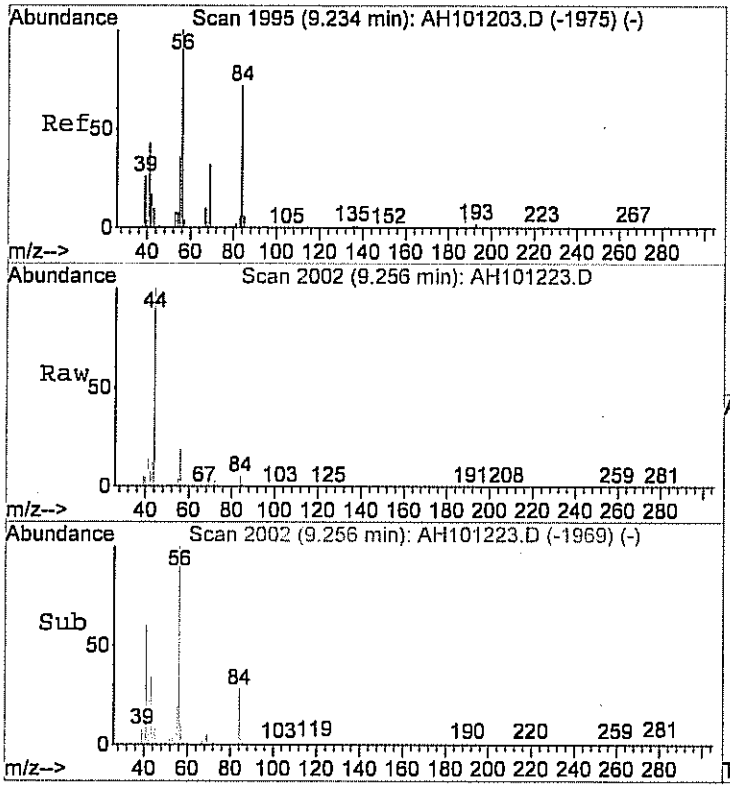


#31
1,1,1-trichloroethane
Concen: 0.85 ppb
RT: 8.59 min Scan# 1793
Delta R.T. -0.02 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 97 Resp: 52579

Ion	Ratio	Lower	Upper
97	100		
99	65.4	43.5	83.5

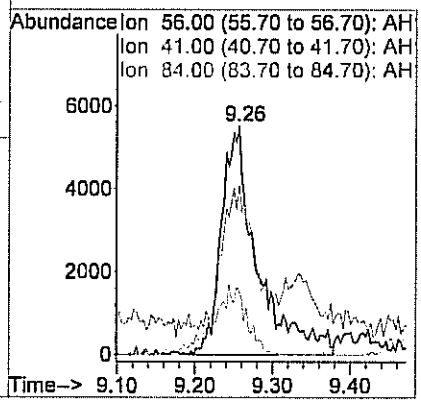


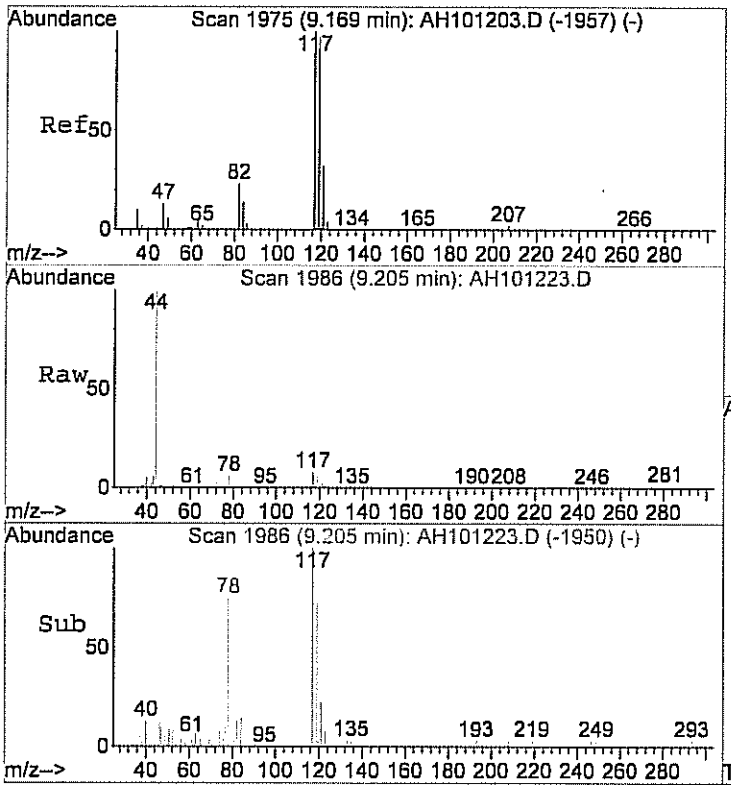


#32
Cyclohexane
Concen: 0.53 ppb
RT: 9.26 min Scan# 2002
Delta R.T. -0.04 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 56 Resp: 17603

Ion	Ratio	Lower	Upper
56	100		
41	75.8	38.7	78.7
84	25.2	120.2	160.2#

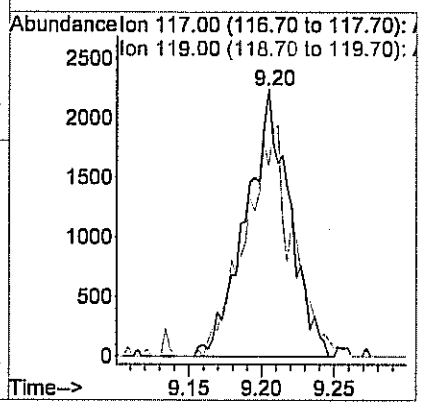


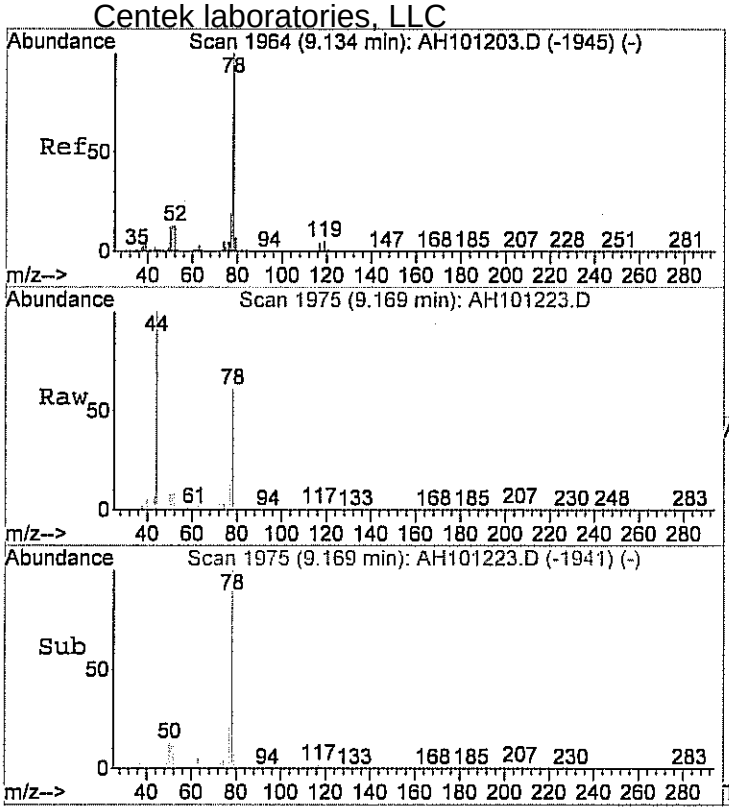


#33
Carbon tetrachloride
Concen: 0.05 ppb
RT: 9.20 min Scan# 1986
Delta R.T. -0.04 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:117 Resp: 4689

Ion	Ratio	Lower	Upper
117	100		
119	93.2	75.7	115.7

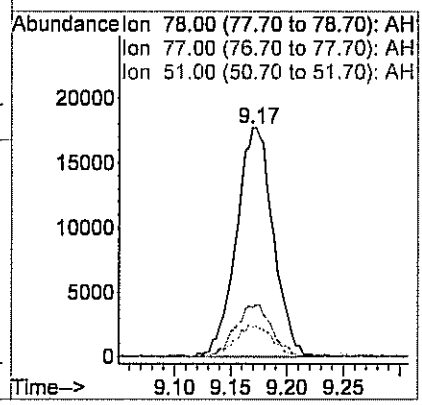


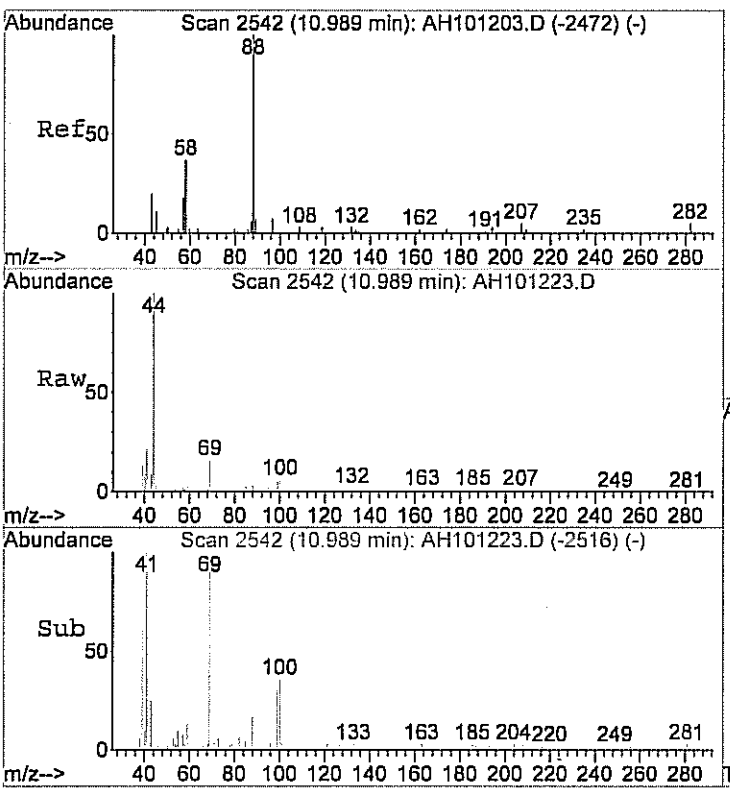


#34
Benzene
Concen: 0.40 ppb
RT: 9.17 min Scan# 1975
Delta R.T. -0.04 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 78 Resp: 40514

Ion	Ratio	Lower	Upper
78	100		
77	22.9	2.0	42.0
51	14.5	0.0	34.0

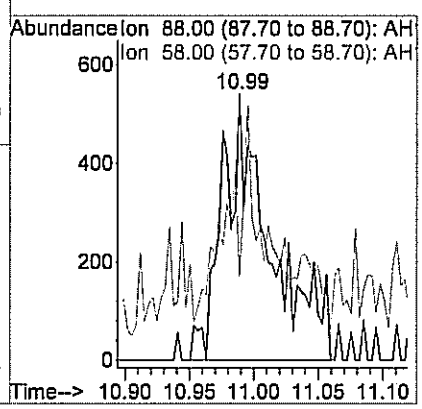


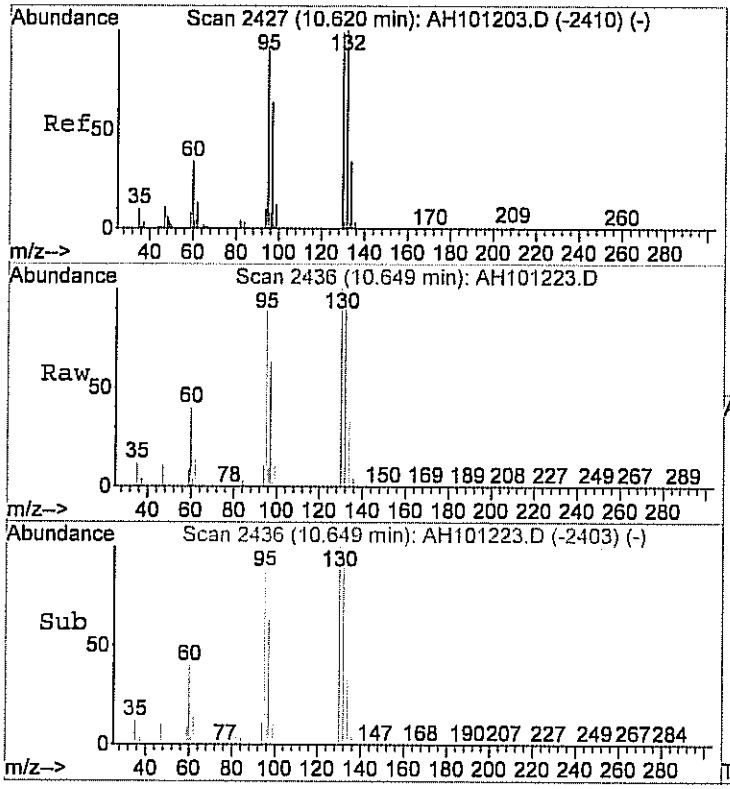


#35
1,4-dioxane
Concen: 0.14 ppb
RT: 10.99 min Scan# 2542
Delta R.T. -0.07 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 88 Resp: 1379

Ion	Ratio	Lower	Upper
88	100		
58	85.2	34.5	74.5#

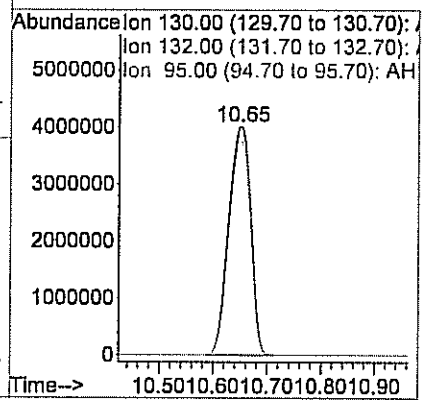


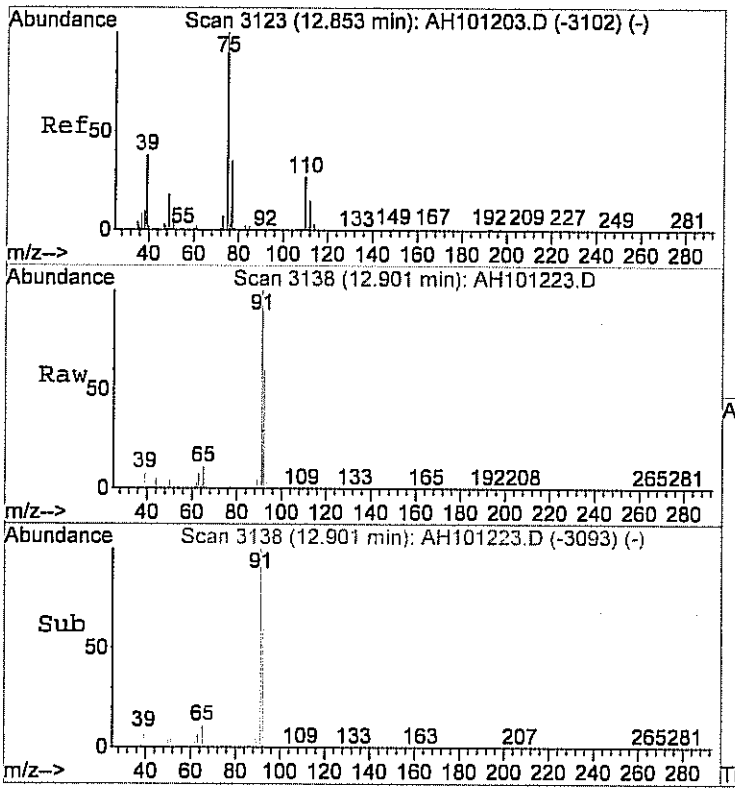


#38
Trichloroethene
Concen: 179.03 ppb
RT: 10.65 min Scan# 2436
Delta R.T. -0.04 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:130 Resp:11465368

Ion	Ratio	Lower	Upper
130	100		
132	97.2	78.8	118.8
95	92.4	75.3	115.3

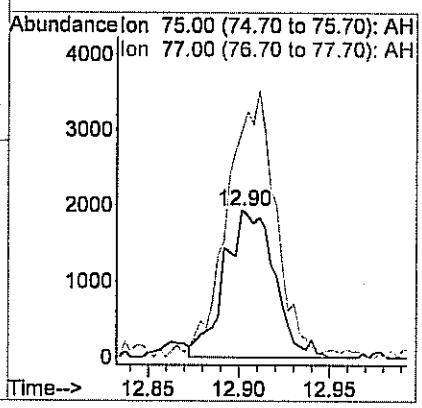


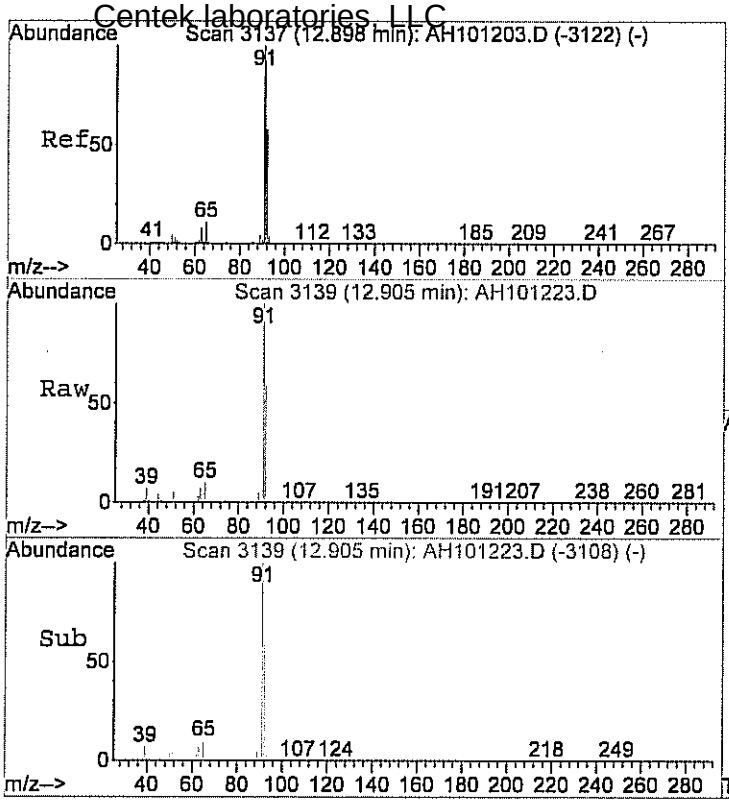


#42
trans-1,3-dichloropropene
Concen: 0.19 ppb
RT: 12.90 min Scan# 3138
Delta R.T. -0.01 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 75 Resp: 3703

Ion	Ratio	Lower	Upper
75	100		
77	178.2	20.4	60.4#

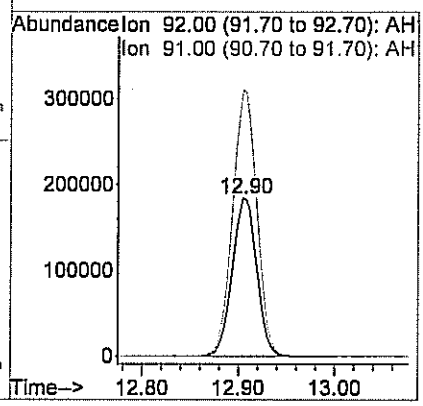


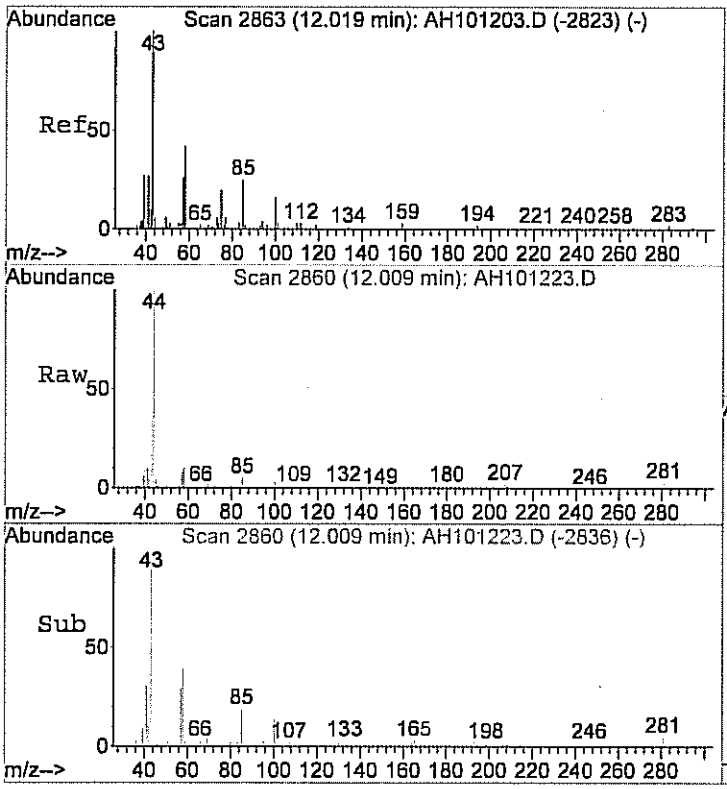


#45
Toluene
Concen: 5.82 ppb
RT: 12.90 min Scan# 3139
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 92 Resp: 325288

Ion	Ratio	Lower	Upper
92	100		
91	167.0	154.6	194.6

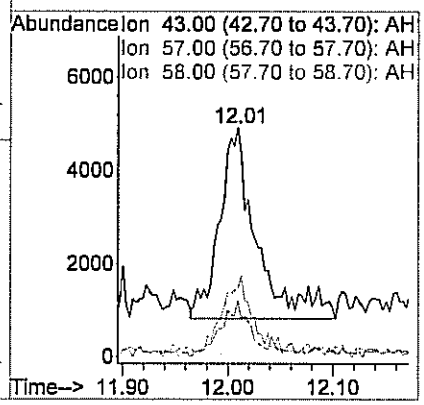


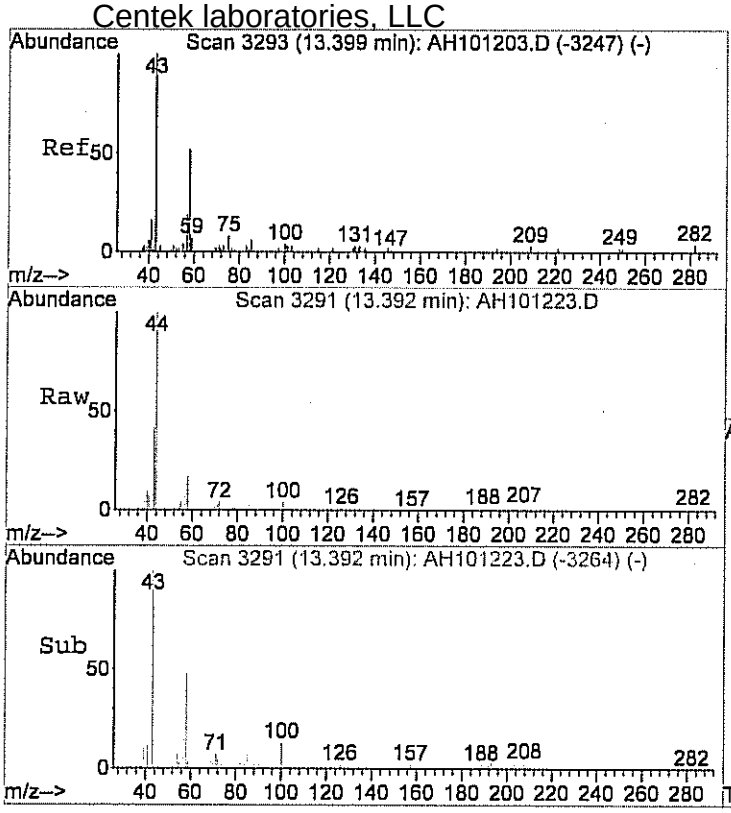


#46
Methyl Isobutyl Ketone
Concen: 0.49 ppb
RT: 12.01 min Scan# 2860
Delta R.T. -0.07 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 43 Resp: 10012

Ion	Ratio	Lower	Upper
43	100		
57	26.2	3.8	43.8
58	39.4	19.0	59.0

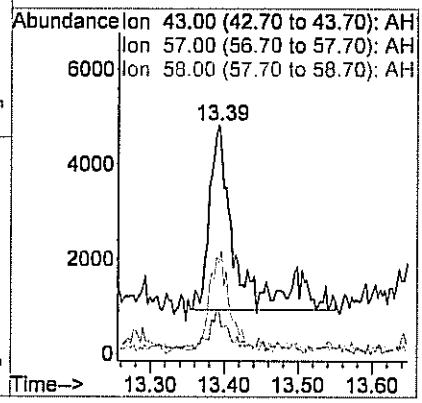


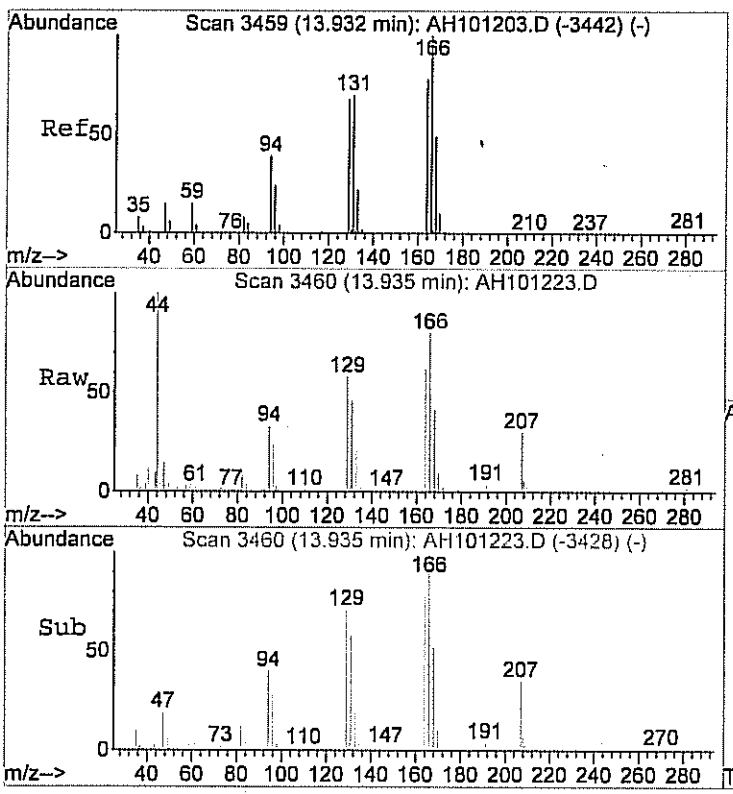


#48
Methyl Butyl Ketone
Concen: 0.55 ppb
RT: 13.39 min Scan# 3291
Delta R.T. -0.06 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 43 Resp: 9841

Ion	Ratio	Lower	Upper
43	100		
57	12.6	0.0	34.6
58	42.5	28.5	68.5

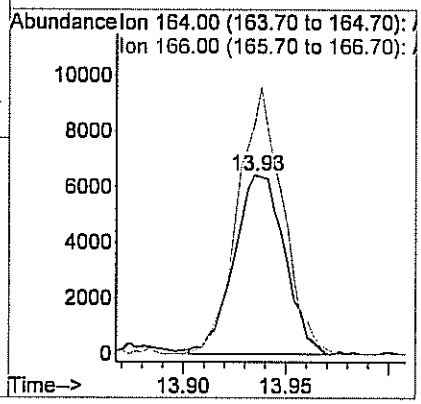


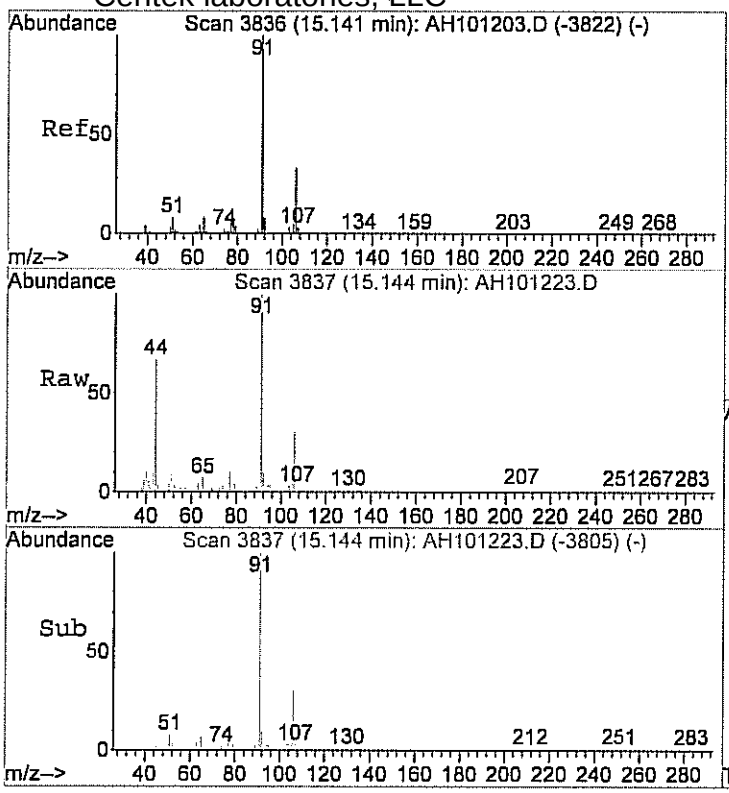


#50
Tetrachloroethylene
Concen: 0.17 ppb
RT: 13.93 min Scan# 3460
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:164 Resp: 10980

Ion	Ratio	Lower	Upper
164	100		
166	131.8	108.6	148.6

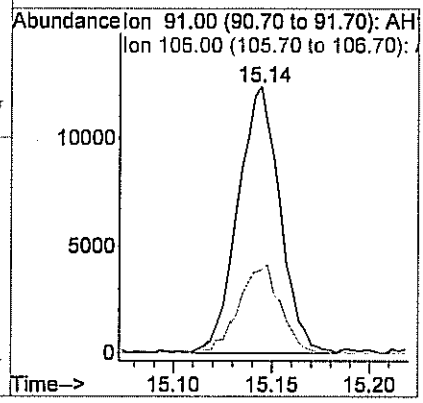


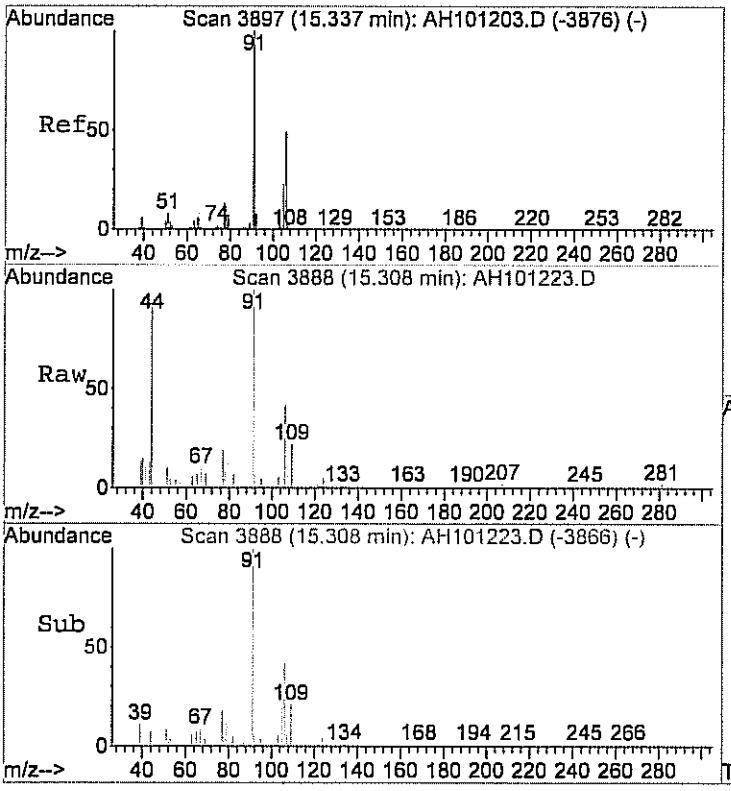


#52
Ethylbenzene
Concen: 0.19 ppb
RT: 15.14 min Scan# 3837
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 91 Resp: 18442

Ion	Ratio	Lower	Upper
91	100		
106	32.9	11.1	51.1

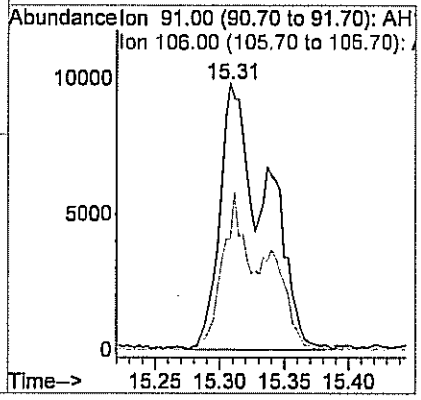


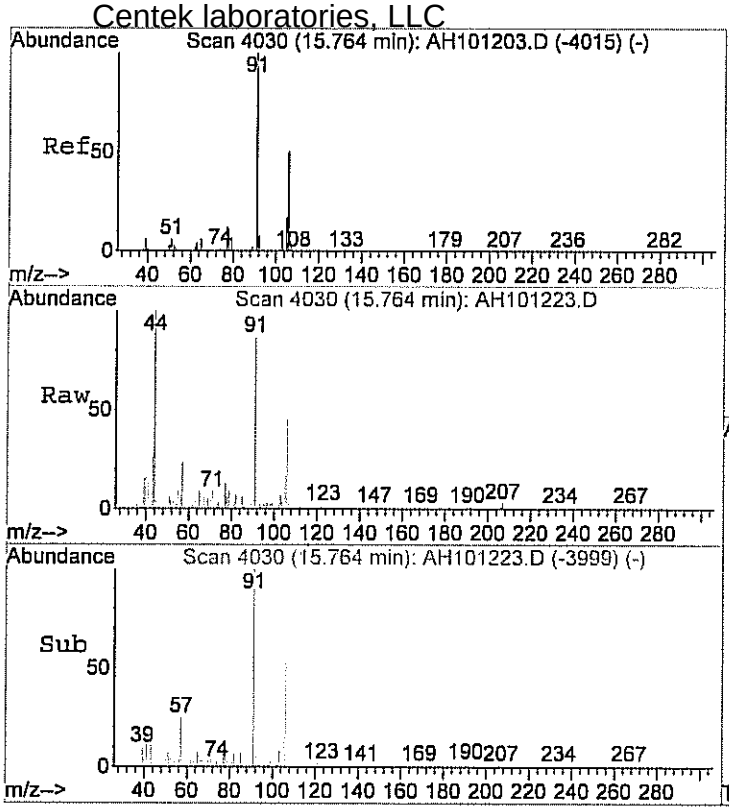


#53
m&p-xylene
Concen: 0.31 ppb
RT: 15.31 min Scan# 3888
Delta R.T. -0.08 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 91 Resp: 24060

Ion	Ratio	Lower	Upper
91	100		
106	53.0	29.1	69.1

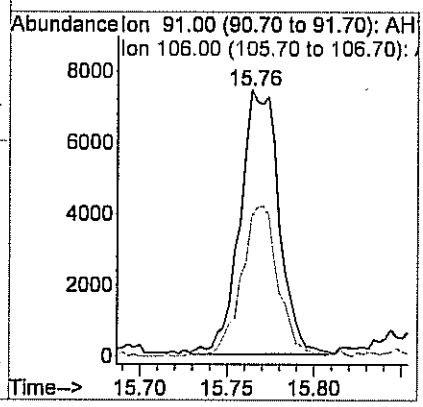


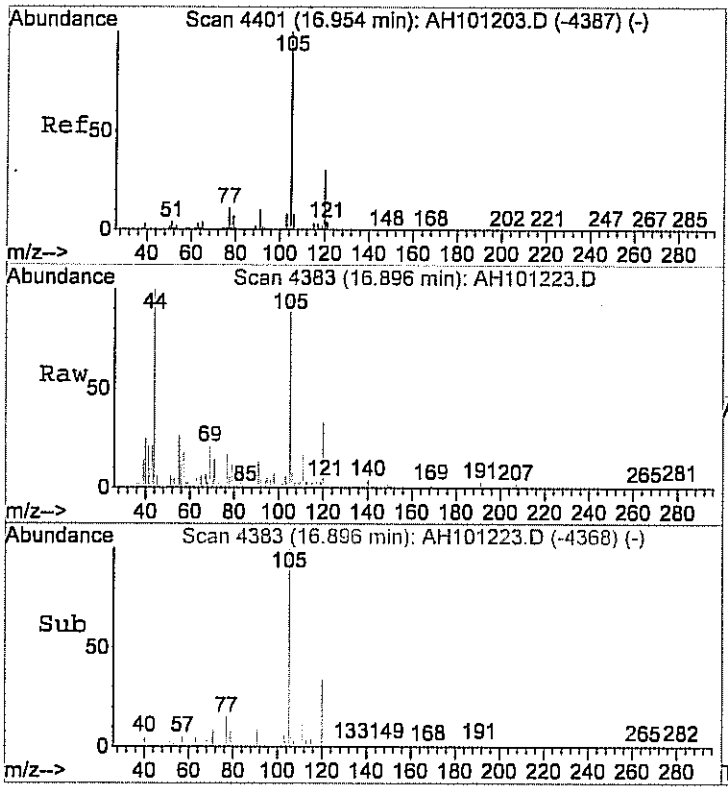


#56
o-xylene
Concen: 0.13 ppb
RT: 15.76 min Scan# 4030
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 91 Resp: 11531

Ion	Ratio	Lower	Upper
91	100		
106	53.7	27.4	67.4

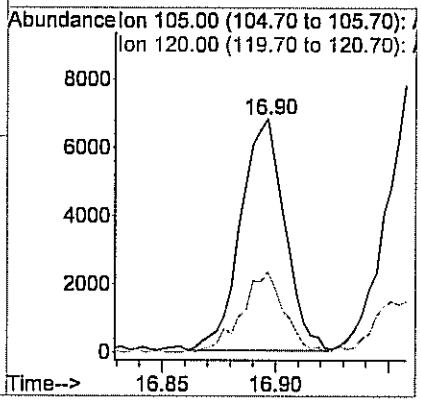


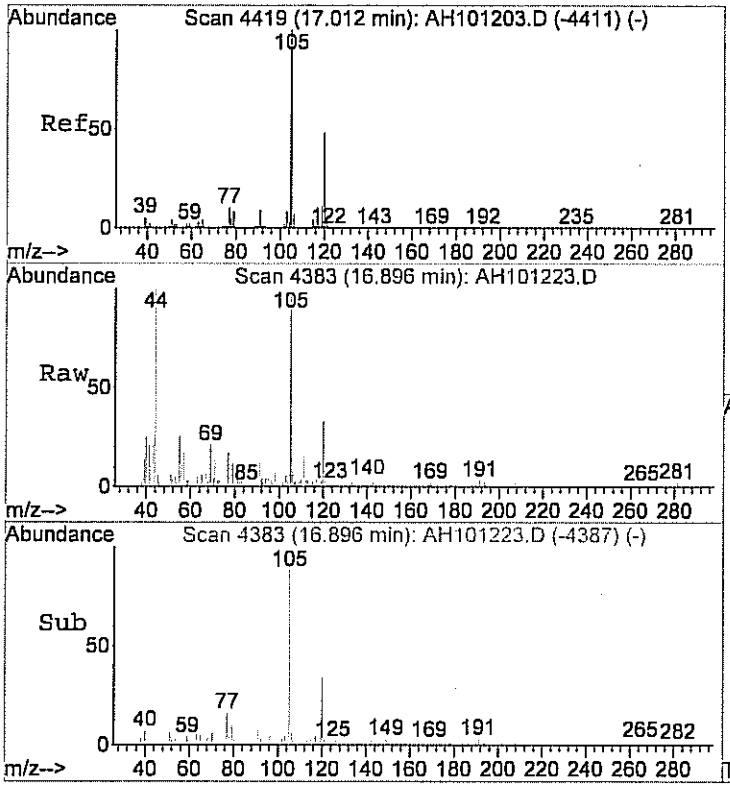


#59
4-ethyltoluene
Concen: 0.13 ppb
RT: 16.90 min Scan# 4383
Delta R.T. -0.10 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:105 Resp: 9225

Ion	Ratio	Lower	Upper
105	100		
120	33.0	10.2	50.2

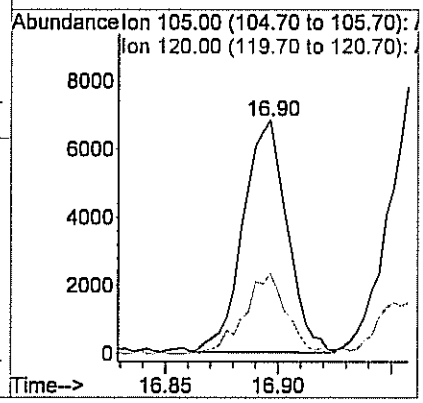


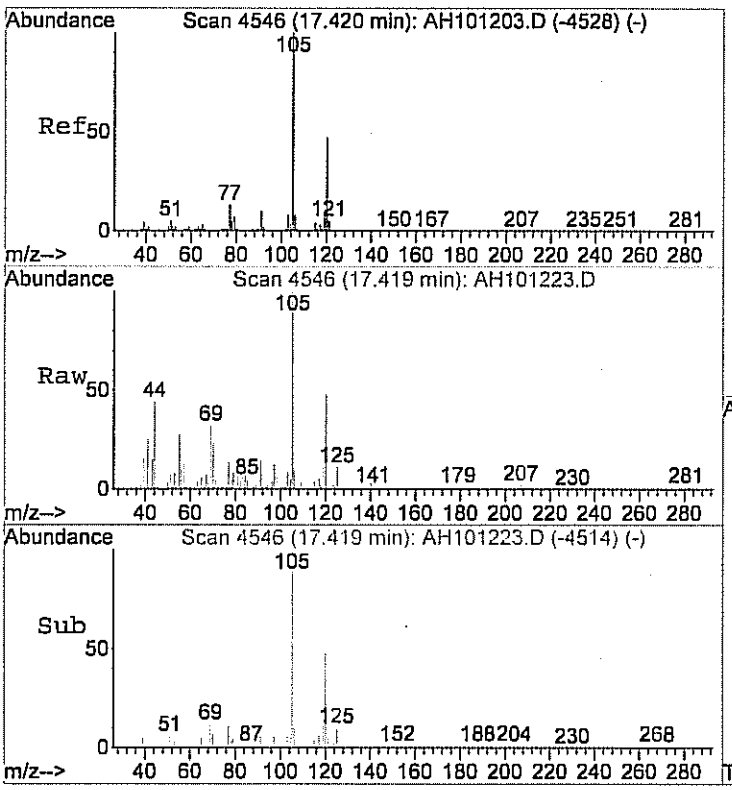


#60
1,3,5-trimethylbenzene
Concen: 0.15 ppb
RT: 16.90 min Scan# 4383
Delta R.T. -0.16 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:105 Resp: 9250

Ion	Ratio	Lower	Upper
105	100		
120	32.9	27.6	67.6

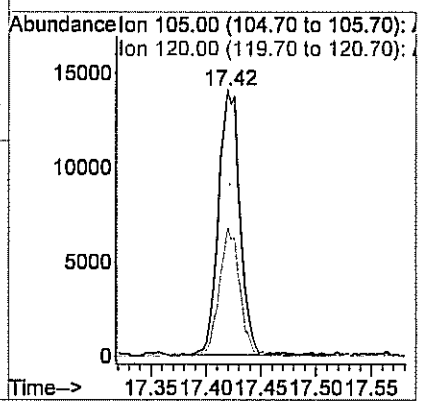


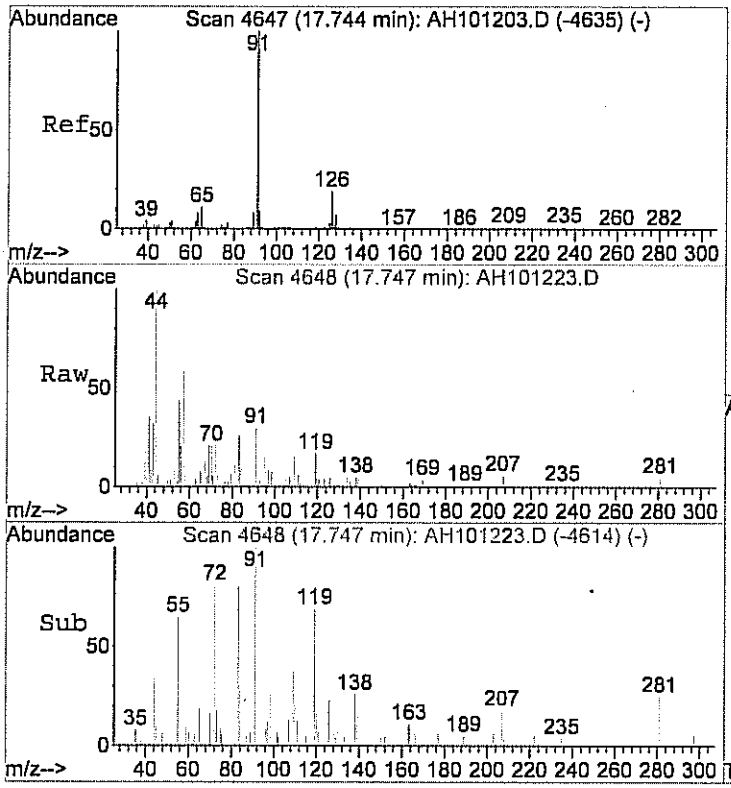


#61
1,2,4-trimethylbenzene
Concen: 0.43 ppb
RT: 17.42 min Scan# 4546
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:105 Resp: 19372

Ion	Ratio	Lower	Upper
105	100		
120	46.0	24.3	64.3

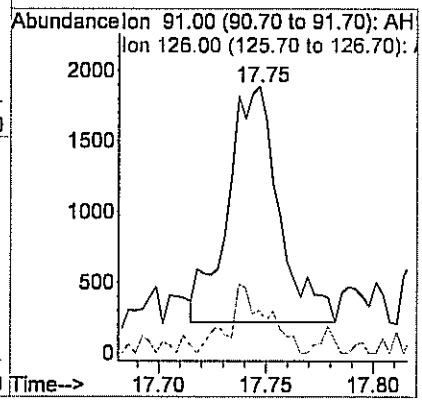


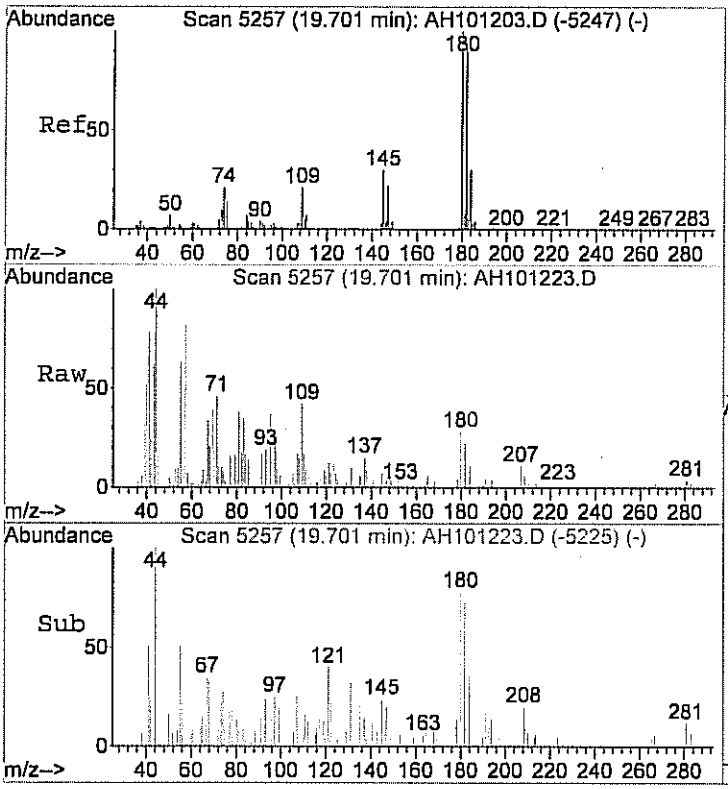


#63
benzyl chloride
Concen: 0.12 ppb
RT: 17.75 min Scan# 4648
Delta R.T. -0.04 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion: 91 Resp: 2764

Ion	Ratio	Lower	Upper
91	100		
126	21.6	0.0	37.5

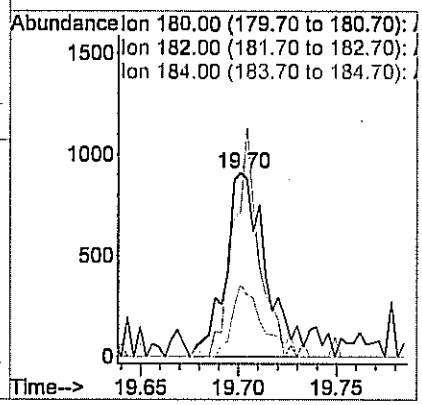




#66
1,2,4-trichlorobenzene
Concen: 0.10 ppb
RT: 19.70 min Scan# 5257
Delta R.T. -0.05 min
Lab File: AH101223.D
Acq: 12 Oct 2010 10:08 pm

Tgt Ion:180 Resp: 1370

Ion	Ratio	Lower	Upper
180	100		
182	74.5	73.2	113.2
184	28.3	10.1	50.1



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785SSVM0205AA
Lab Order:	C1010018	**Tag Number:**	142
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS			FLD			Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010

Qualifiers:					
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101224.D Vial: 10
Acq On : 12 Oct 2010 10:41 pm Operator: RJP
Sample : C1010018-005A Inst : MSD #1
Misc : C1010018-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 23:02:16 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.60	128	1083m	1.00	ppb		-0.05
30) 1,4-difluorobenzene	10.01	114	123835m	1.00	ppb		0.02
44) Chlorobenzene-d5	14.84	117	97427	1.00	ppb		-0.04
System Monitoring Compounds							
57) Bromofluorobenzene	16.41	95	51094	1.17	ppb		-0.02
Spiked Amount 1.000	Range 70 - 130		Recovery = 117.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	42828	71.38	ppb		84
3) Freon 12	2.91	85	51922	11.55	ppb		99
4) Chloromethane	3.05	50	38420	43.21	ppb		87
6) Vinyl Chloride	3.19	62	3202	4.18	ppb		95
7) 1,3-butadiene	3.26	39	5778	11.26	ppb	#	23
8) Bromomethane	3.54	94	139	0.18	ppb		93
9) Chloroethane	3.63	64	1809	5.76	ppb		81
10) Vinyl Bromide	3.89	106	410	0.56	ppb	#	54
11) Freon 11	4.08	101	15455	7.20	ppb		99
12) Acetone	4.28	58	41990741	152884.30	ppb	#	16
13) Isopropyl alcohol	4.39	45	3980	8.92	ppb	#	28
14) 1,1-dichloroethene	4.70	96	401	0.55	ppb	#	25
15) Freon 113	4.85	101	92967	52.24	ppb		95
16) Methylene chloride	5.11	84	3266	4.59	ppb	#	86
17) Allyl chloride	5.01	41	6777	12.10	ppb	#	48
18) Carbon disulfide	5.18	76	156486	93.05	ppb		97
19) trans-1,2-dichloroethene	5.93	61	6966	4.77	ppb		92
20) methyl tert-butyl ether	5.95	73	2130	2.01	ppb	#	24
21) 1,1-dichloroethane	6.29	63	2282	1.17	ppb	#	57
22) Vinyl acetate	6.29	43	8603	7.38	ppb		100
23) Methyl Ethyl Ketone	6.88	43	404161535m	208845.91	ppb		
24) cis-1,2-dichloroethene	7.84	61	188546m	124.83	ppb		
25) Hexane	7.59	41	20144889m	21450.77	ppb		
26) Ethyl acetate	8.12	43	69370940m	53322.79	ppb		
28) Tetrahydrofuran	7.97	42	212227015m	352096.46	ppb		
29) 1,2-dichloroethane	8.72	62	15949	8.12	ppb		81
31) 1,1,1-trichloroethane	8.71	97	237712	3.00	ppb		97
32) Cyclohexane	9.30	56	45485	1.08	ppb	#	32
34) Benzene	9.26	78	175242	1.36	ppb		100
38) Trichloroethene	10.71	130	31037741	380.06	ppb		98
42) trans-1,3-dichloropropene	12.93	75	40058	1.59	ppb	#	1
45) Toluene	12.92	92	3911582	56.54	ppb		92
46) Methyl Isobutyl Ketone	12.02	43	370217	14.77	ppb		91
48) Methyl Butyl Ketone	13.40	43	17543	0.79	ppb		87
50) Tetrachloroethylene	13.95	164	49797	0.64	ppb		99
52) Ethylbenzene	15.15	91	134673	1.13	ppb		94
53) m&p-xylene	15.31	91	169976	1.75	ppb		95
54) Styrene	15.74	104	12894	0.25	ppb		90
56) o-xylene	15.77	91	53166	0.49	ppb		95
59) 4-ethyltoluene	16.96	105	46468	0.52	ppb		86
60) 1,3,5-trimethylbenzene	17.02	105	32307	0.42	ppb		94
61) 1,2,4-trimethylbenzene	17.43	105	88049	1.59	ppb		94
63) benzyl chloride	17.75	91	4947	0.17	ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101224.D Vial: 10
Acq On : 12 Oct 2010 10:41 pm Operator: RJP
Sample : C1010018-005A Inst : MSD #1
Misc : C1010018-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 23:02:16 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

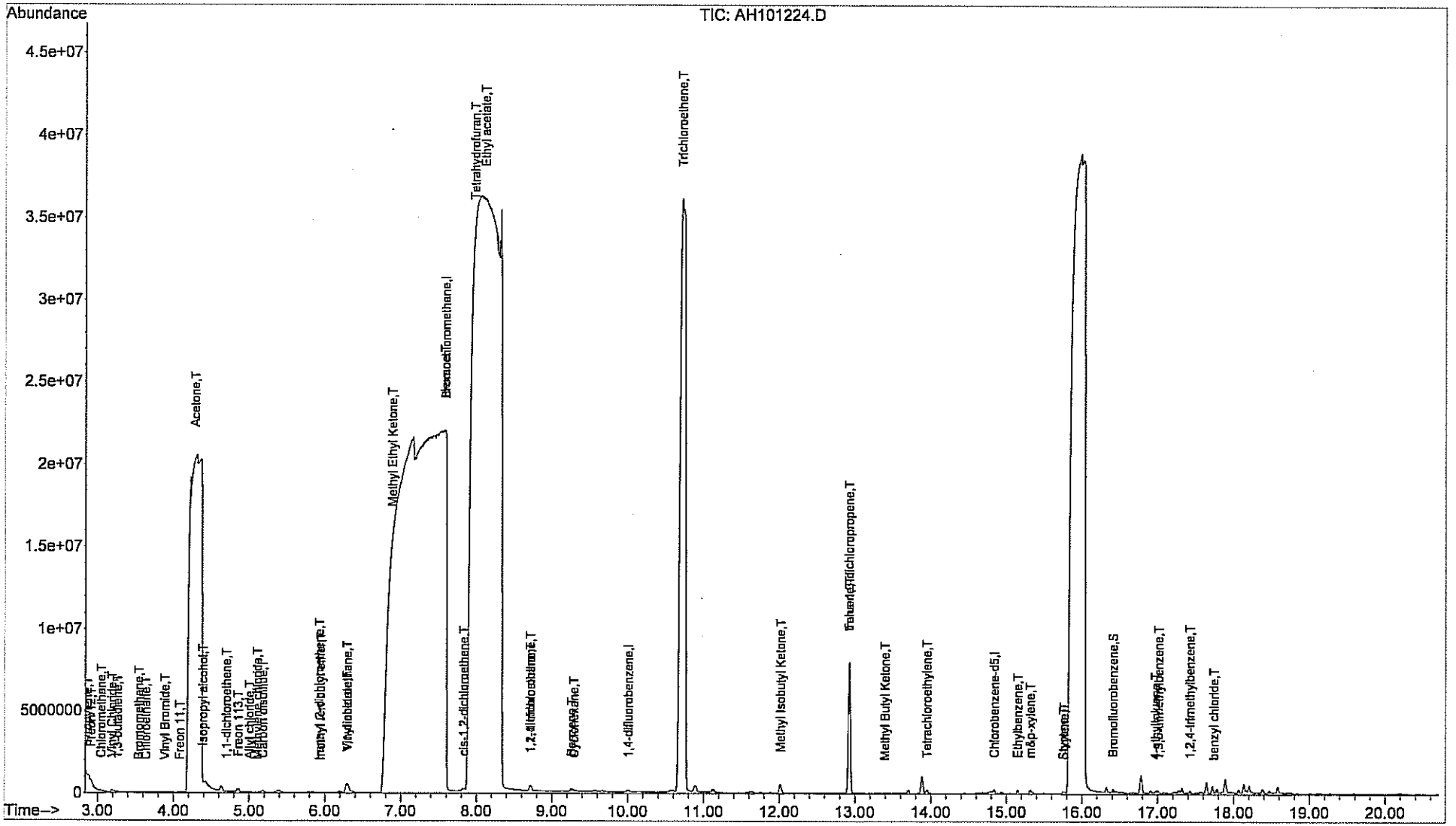
Compound	R.T.	QIon	Response	Conc	Unit	Qvalue

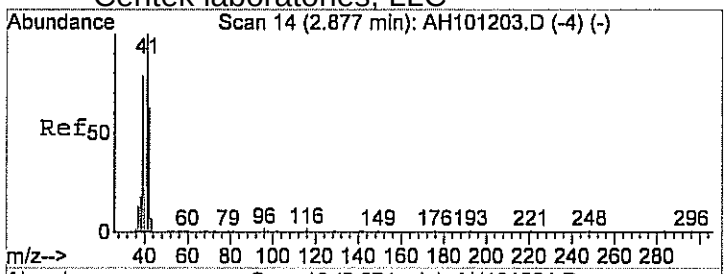
(#) = qualifier out of range (m) = manual integration (+) = signals summed

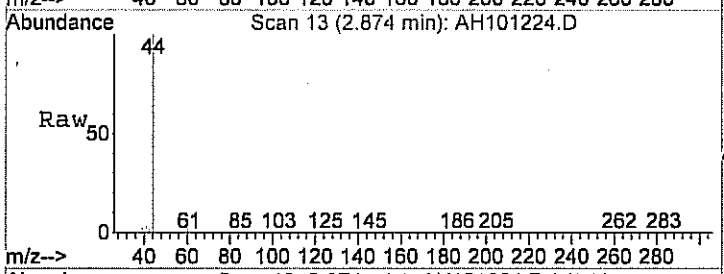
Quantitation Report (QT Reviewed)

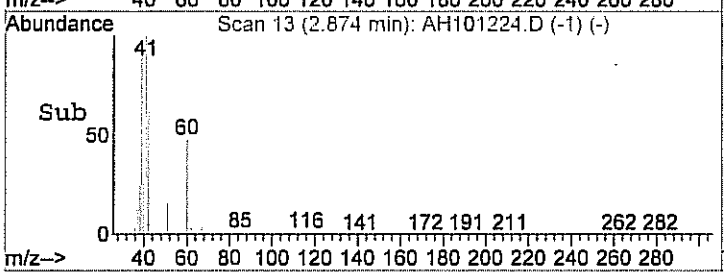
Data File : C:\HPCHEM\1\DATA\AH101224.D Vial: 10
Acq On : 12 Oct 2010 10:41 pm Operator: RJP
Sample : C1010018-005A Inst : MSD #1
Misc : C1010018-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 22:26 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration





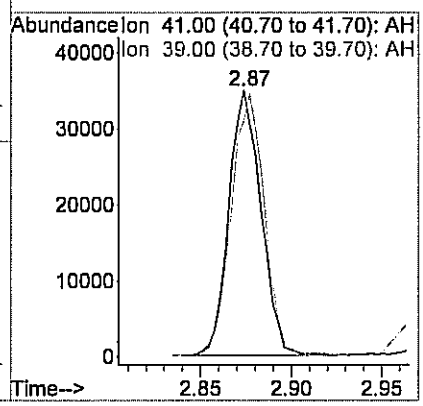


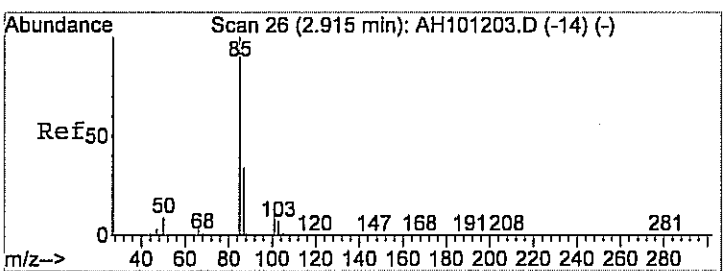


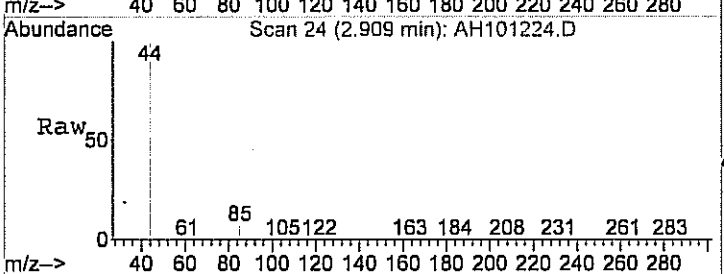
#2
Propylene
Concen: 71.38 ppb
RT: 2.87 min Scan# 13
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

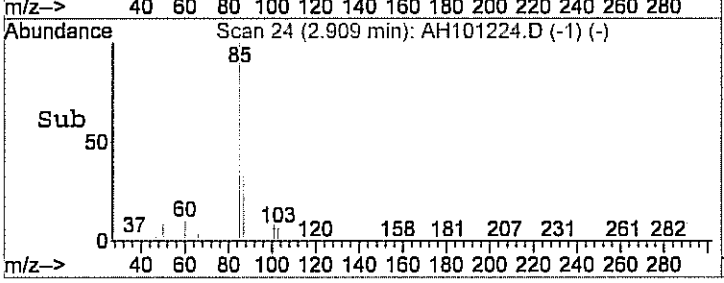
Tgt Ion: 41 Resp: 42828

Ion	Ratio	Lower	Upper
41	100		
39	101.6	57.1	117.1





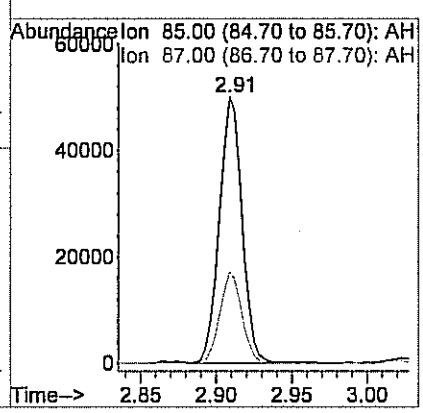


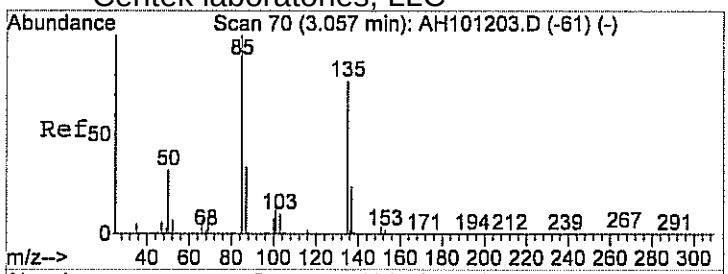


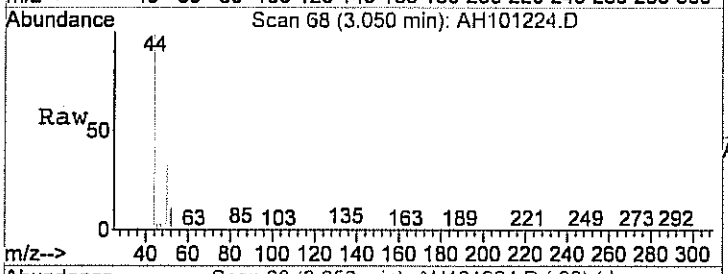
#3
Freon 12
Concen: 11.55 ppb
RT: 2.91 min Scan# 24
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

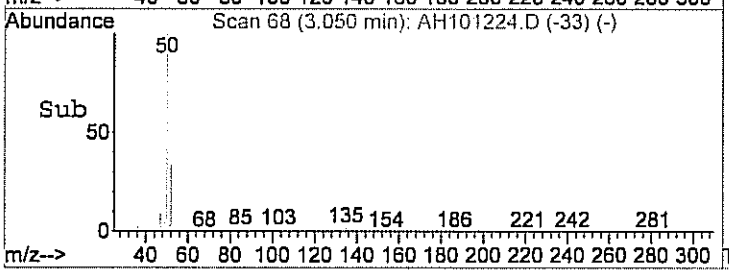
Tgt Ion: 85 Resp: 51922

Ion	Ratio	Lower	Upper
85	100		
87	33.1	12.7	52.7





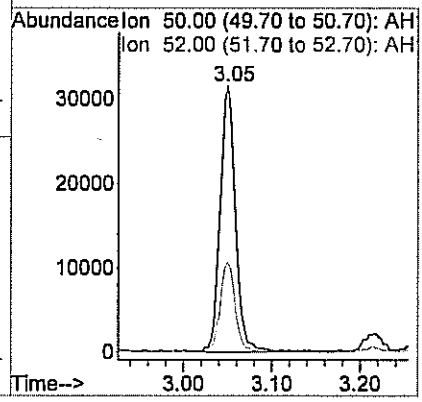


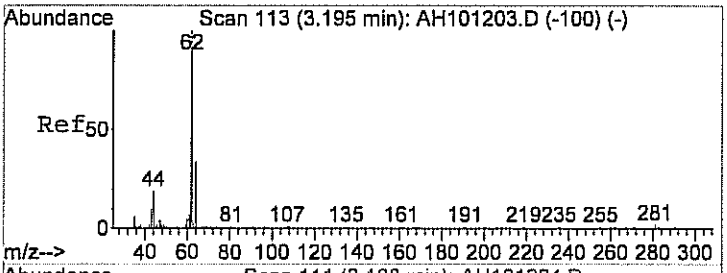


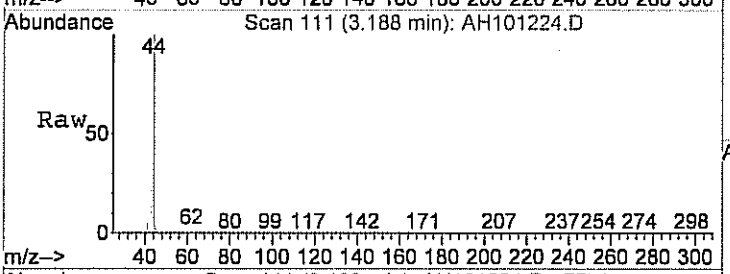
#4
Chloromethane
Concen: 43.21 ppb
RT: 3.05 min Scan# 68
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

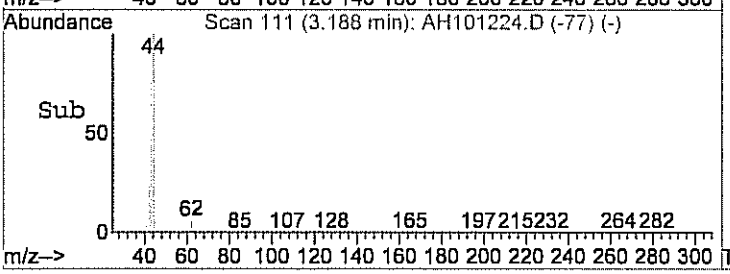
Tgt Ion: 50 Resp: 38420

Ion	Ratio	Lower	Upper
50	100		
52	33.7	6.9	46.9





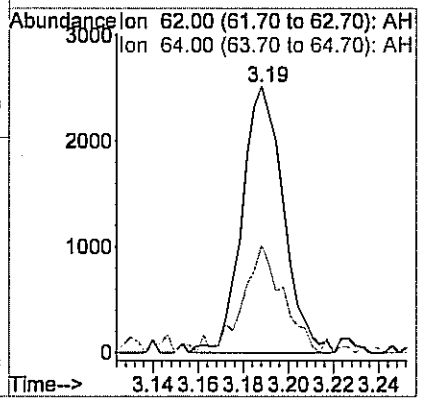


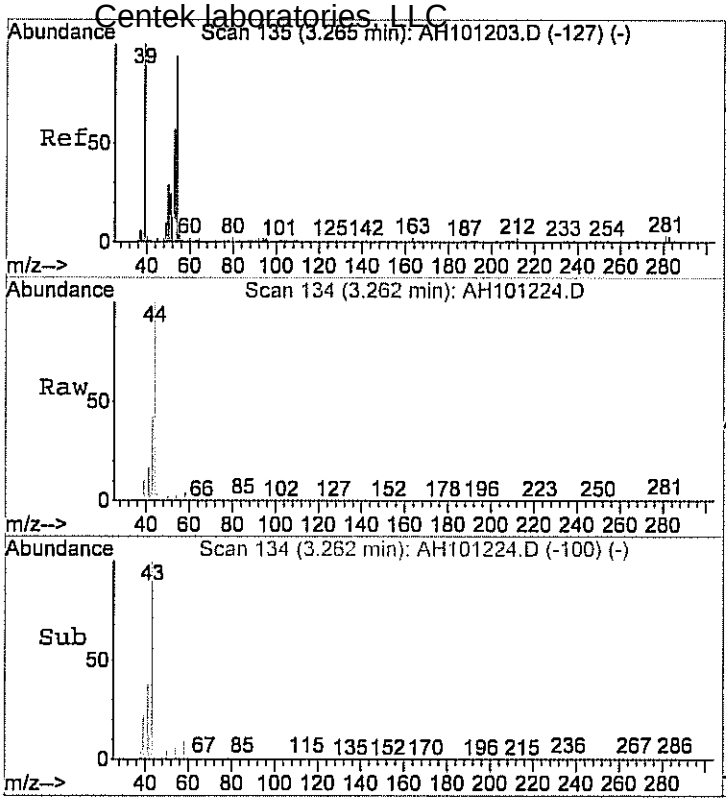


#6
Vinyl Chloride
Concen: 4.18 ppb
RT: 3.19 min Scan# 111
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 62 Resp: 3202

Ion	Ratio	Lower	Upper
62	100		
64	37.9	4.8	64.8

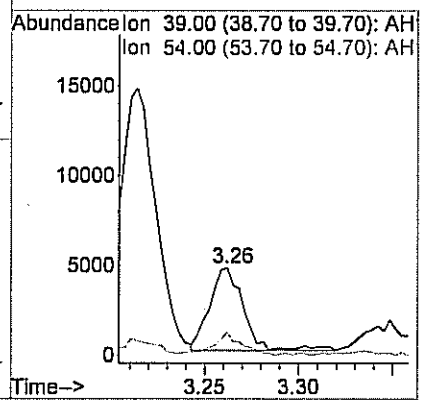


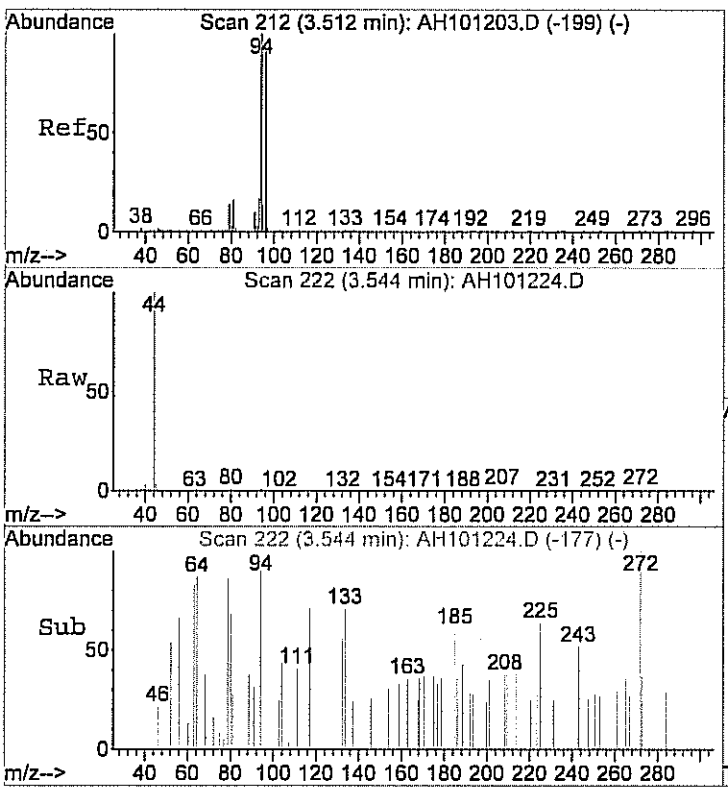


#7
1,3-butadiene
Concen: 11.26 ppb
RT: 3.26 min Scan# 134
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 39 Resp: 5778

Ion	Ratio	Lower	Upper
39	100		
54	20.8	65.9	125.9#

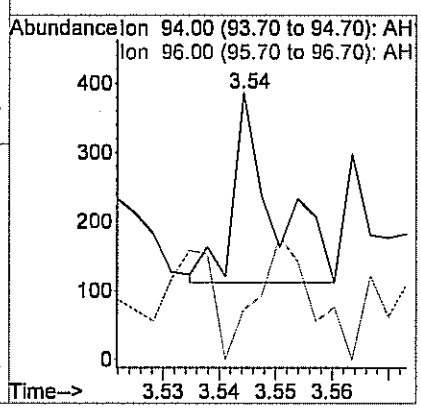


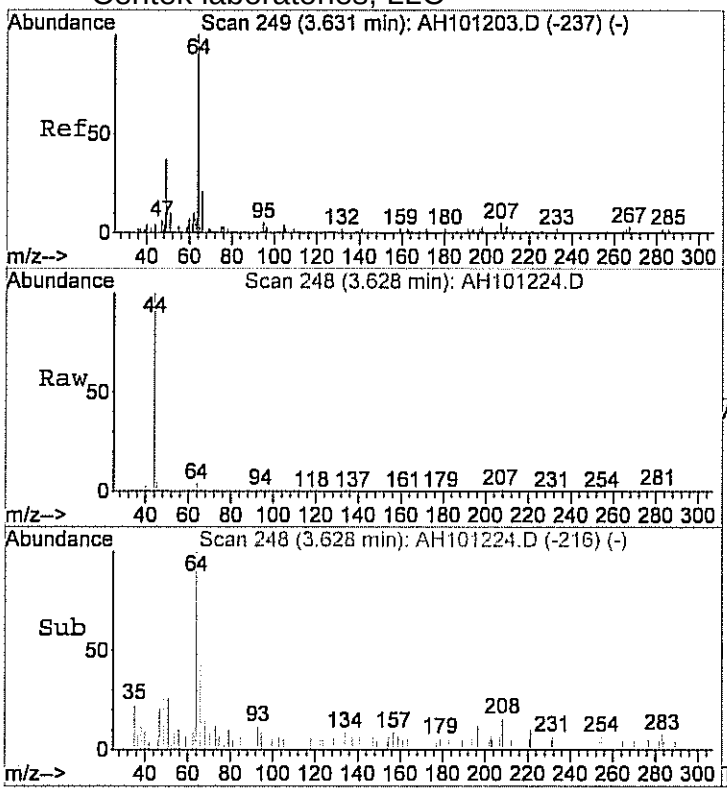


#8
Bromomethane
Concen: 0.18 ppb
RT: 3.54 min Scan# 222
Delta R.T. -0.01 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 94 Resp: 139

Ion	Ratio	Lower	Upper
94	100		
96	84.9	71.9	111.9

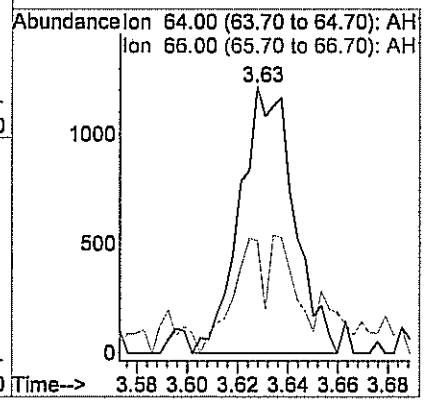


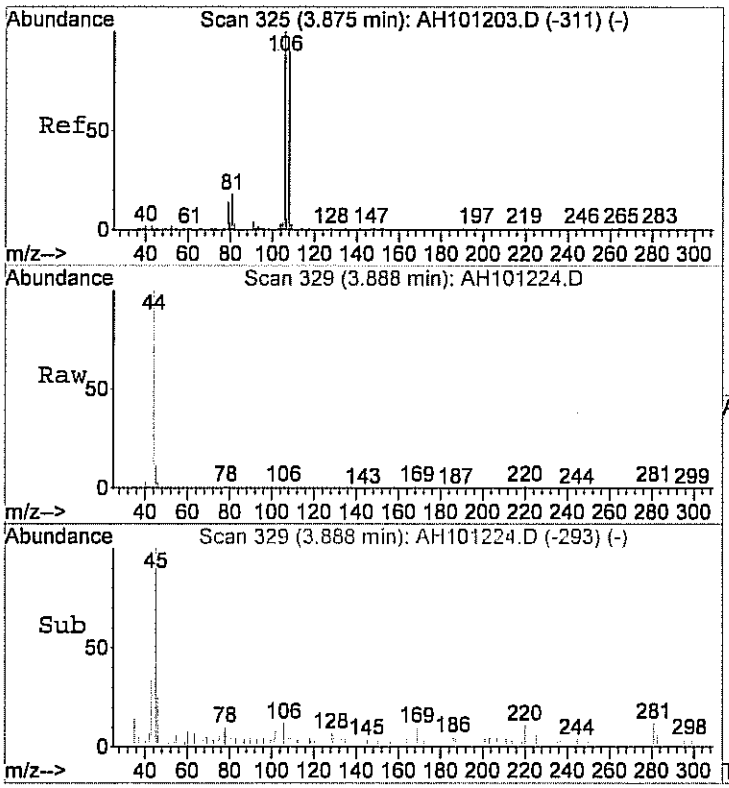


#9
Chloroethane
Concen: 5.76 ppb
RT: 3.63 min Scan# 248
Delta R.T. -0.05 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 64 Resp: 1809

Ion	Ratio	Lower	Upper
64	100		
66	45.2	14.0	54.0

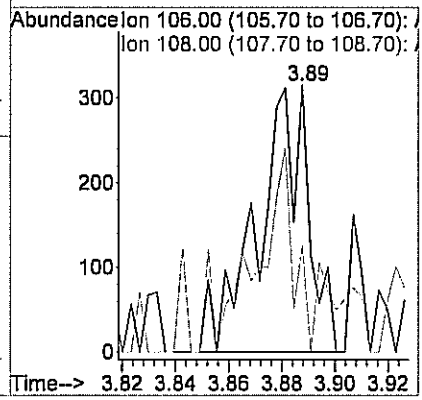


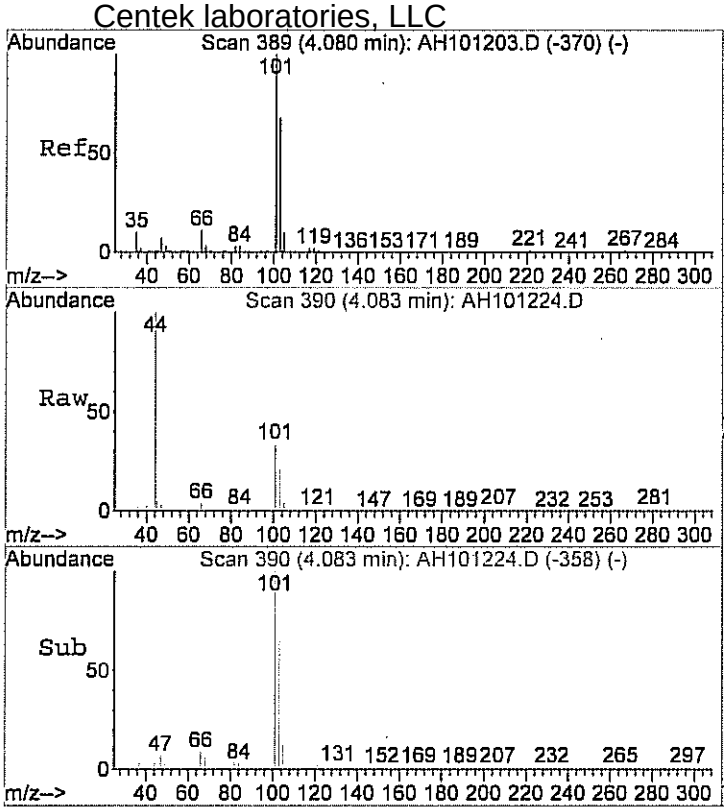


#10
Vinyl Bromide
Concen: 0.56 ppb
RT: 3.89 min Scan# 329
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:106 Resp: 410

Ion	Ratio	Lower	Upper
106	100		
108	50.5	75.8	115.8#

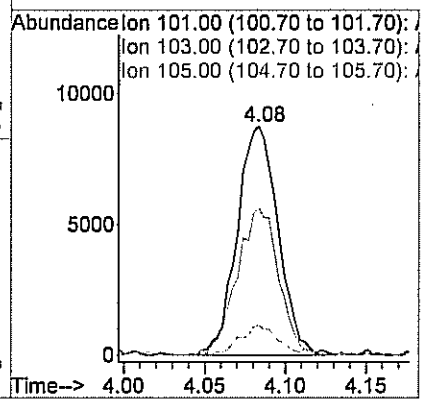


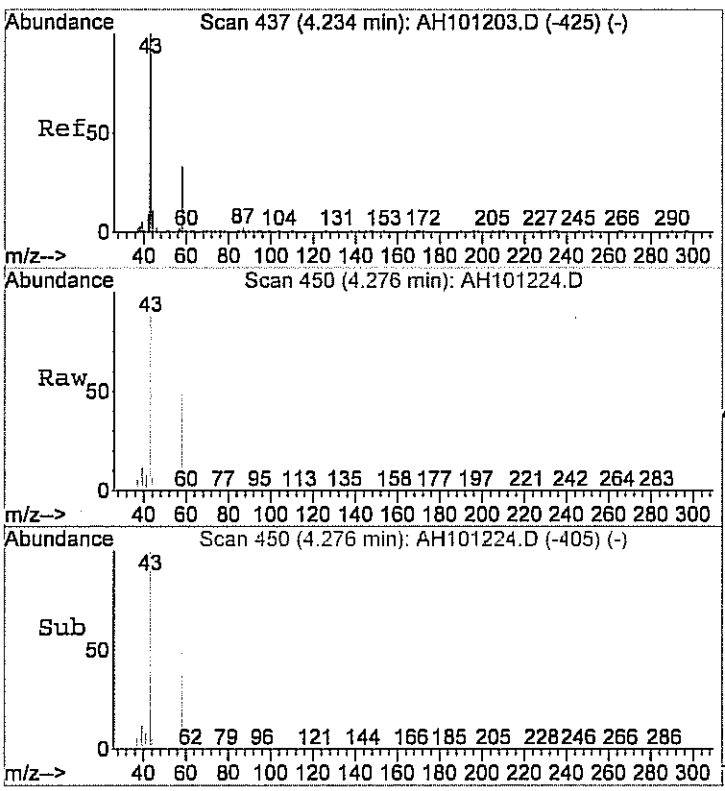


#11
Freon 11
Concen: 7.20 ppb
RT: 4.08 min Scan# 390
Delta R.T. -0.05 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:101 Resp: 15455

Ion	Ratio	Lower	Upper
101	100		
103	65.2	44.6	84.6
105	13.0	0.0	31.1

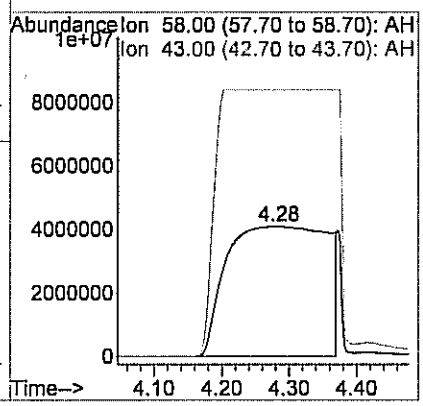


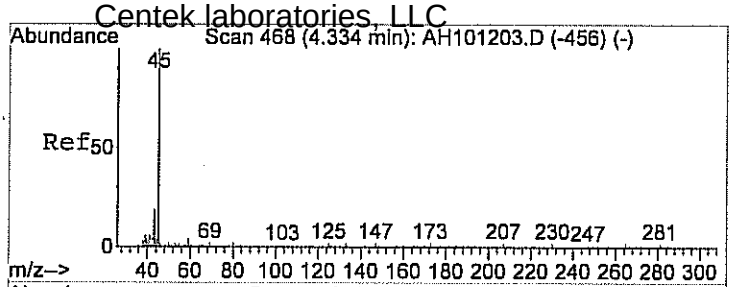


#12
Acetone
Concen: 152884.30 ppb
RT: 4.28 min Scan# 450
Delta R.T. -0.01 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 58 Resp:41990741

Ion	Ratio	Lower	Upper
58	100		
43	0.0	37.6	97.6#

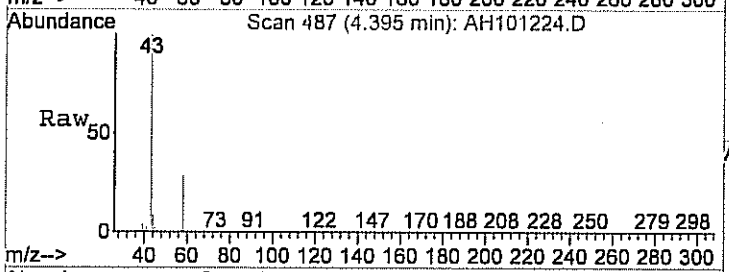


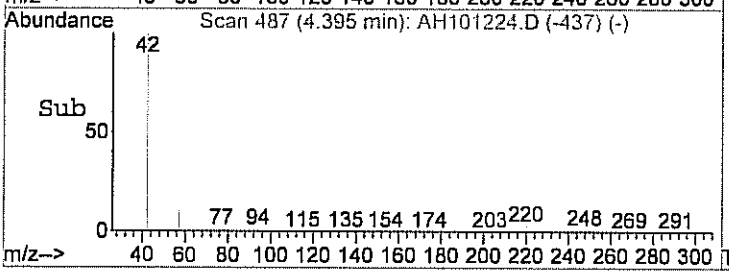


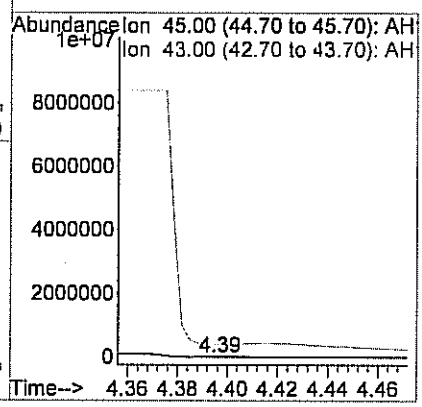
#13
Isopropyl alcohol
Concen: 8.92 ppb
RT: 4.39 min Scan# 487
Delta R.T. 0.01 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

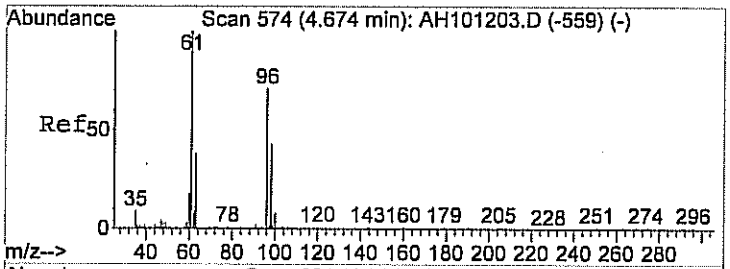
Tgt Ion: 45 Resp: 3980

Ion	Ratio	Lower	Upper
45	100		
43	0.0	29.3	69.3#





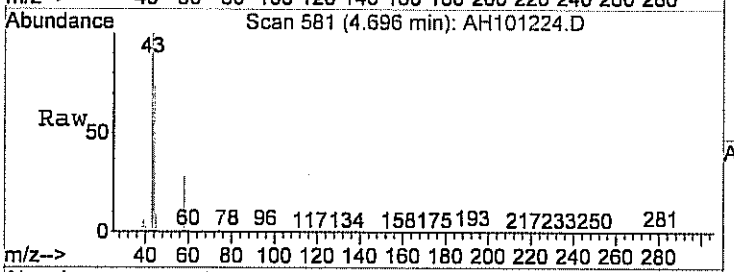


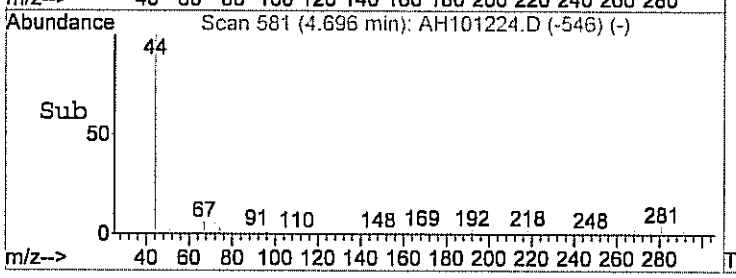


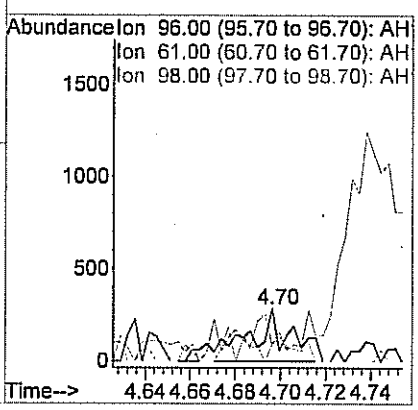
#14
1,1-dichloroethene
Concen: 0.55 ppb
RT: 4.70 min Scan# 581
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

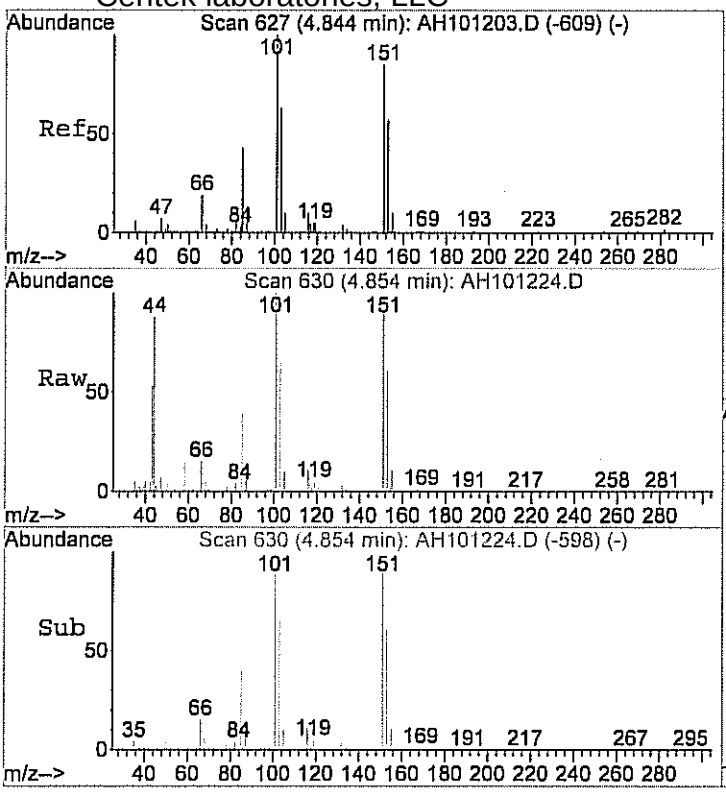
Tgt Ion: 96 Resp: 401

Ion	Ratio	Lower	Upper
96	100		
61	45.6	136.6	176.6#
98	24.7	45.0	85.0#





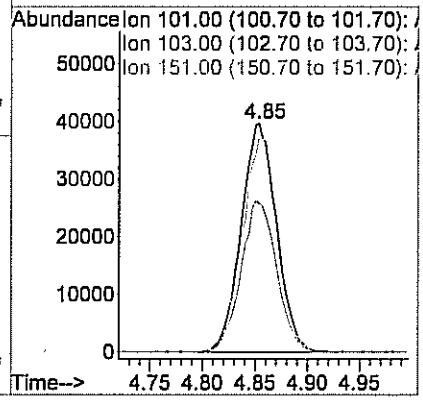


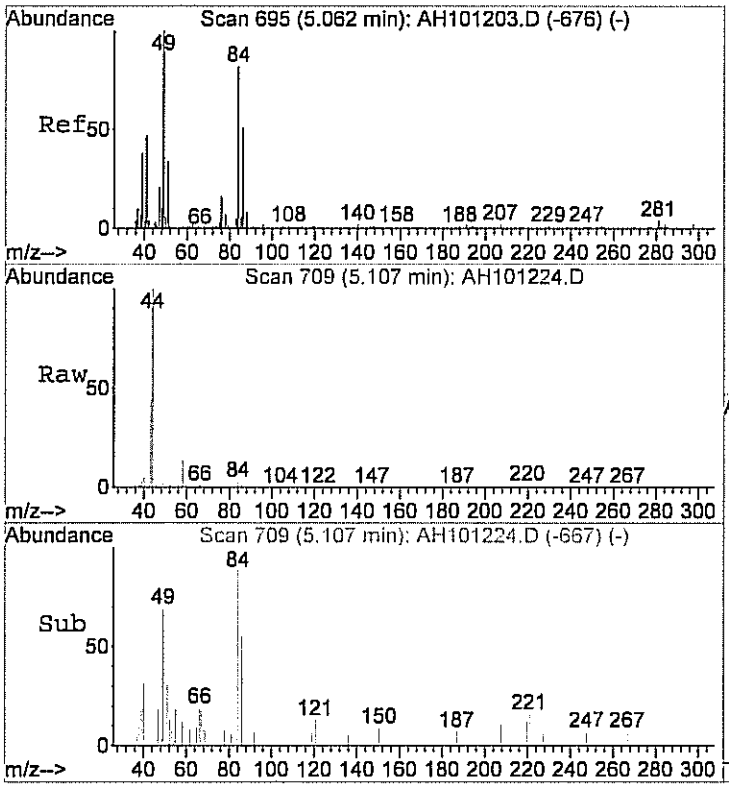


#15
Freon 113
Concen: 52.24 ppb
RT: 4.85 min Scan# 630
Delta R.T. -0.05 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:101 Resp: 92967

Ion	Ratio	Lower	Upper
101	100		
103	66.5	44.8	84.8
151	92.6	65.3	105.3

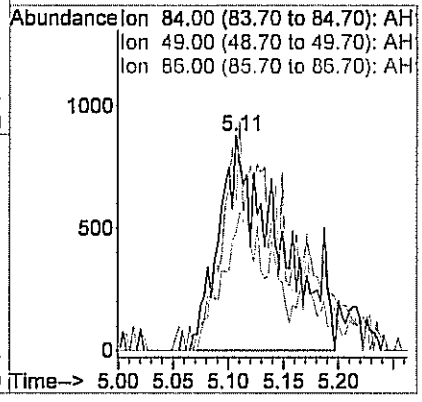


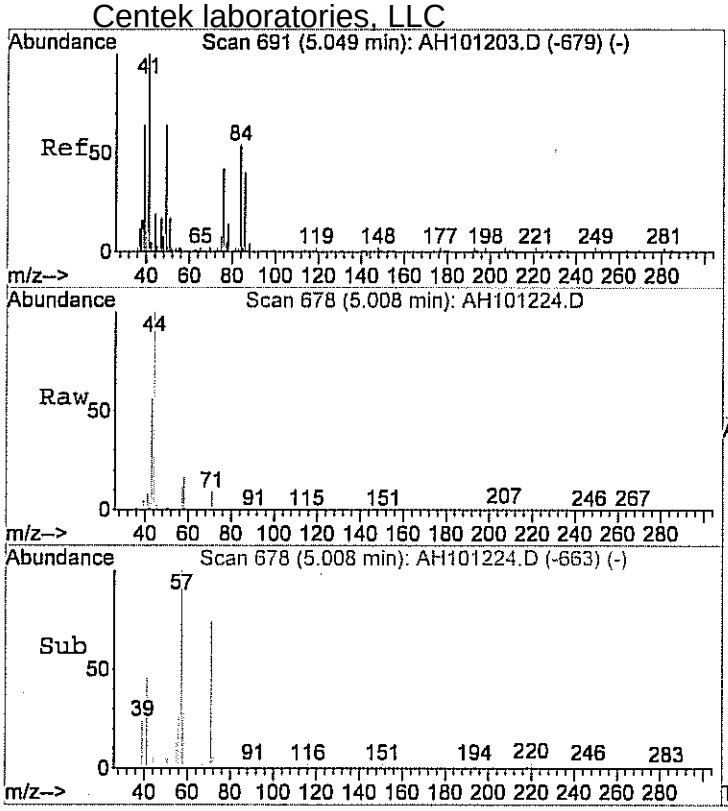


#16
Methylene chloride
Concen: 4.59 ppb
RT: 5.11 min Scan# 709
Delta R.T. -0.01 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 84 Resp: 3266

Ion	Ratio	Lower	Upper
84	100		
49	105.3	106.0	146.0#
86	64.2	40.1	80.1

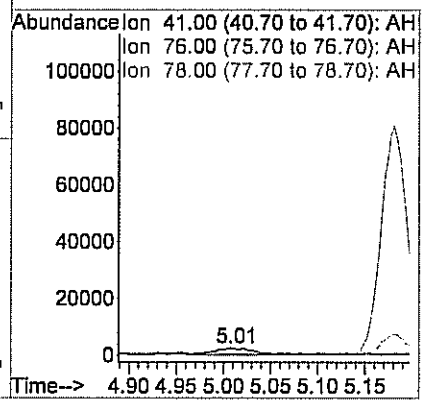


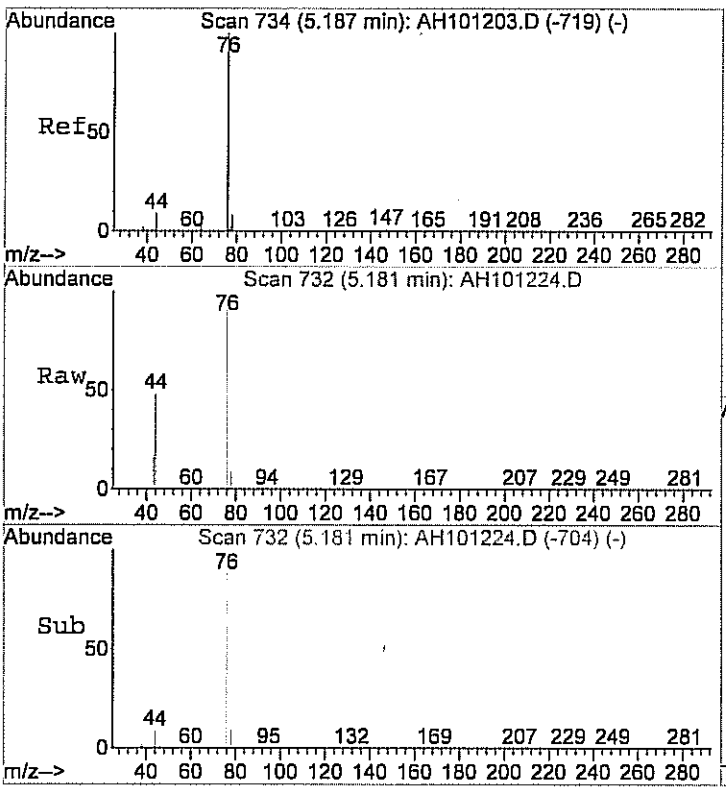


#17
Allyl chloride
Concen: 12.10 ppb
RT: 5.01 min Scan# 678
Delta R.T. -0.10 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 41 Resp: 6777

Ion	Ratio	Lower	Upper
41	100		
76	0.0	13.9	53.9#
78	0.0	0.0	34.8

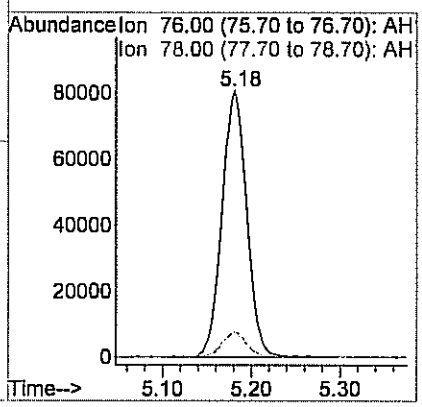


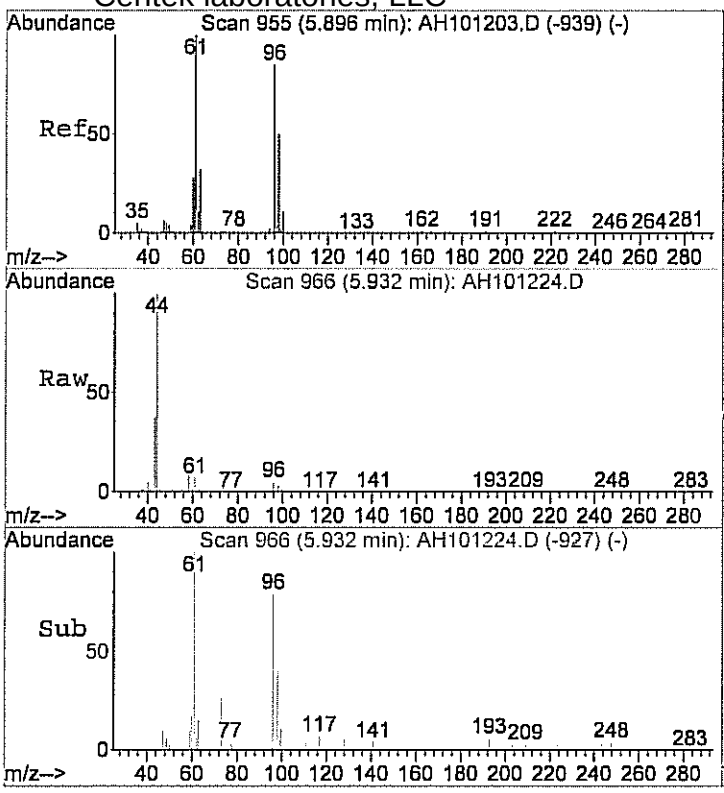


#18
Carbon disulfide
Concen: 93.05 ppb
RT: 5.18 min Scan# 732
Delta R.T. -0.06 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 76 Resp: 156486

Ion	Ratio	Lower	Upper
76	100		
78	9.4	0.0	30.6

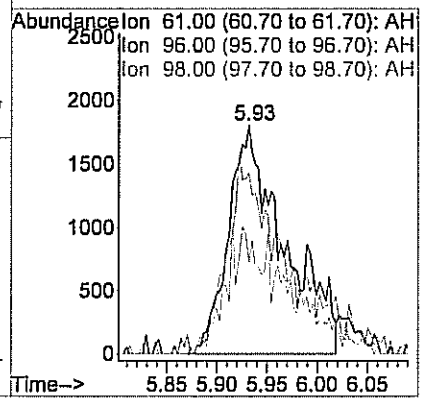


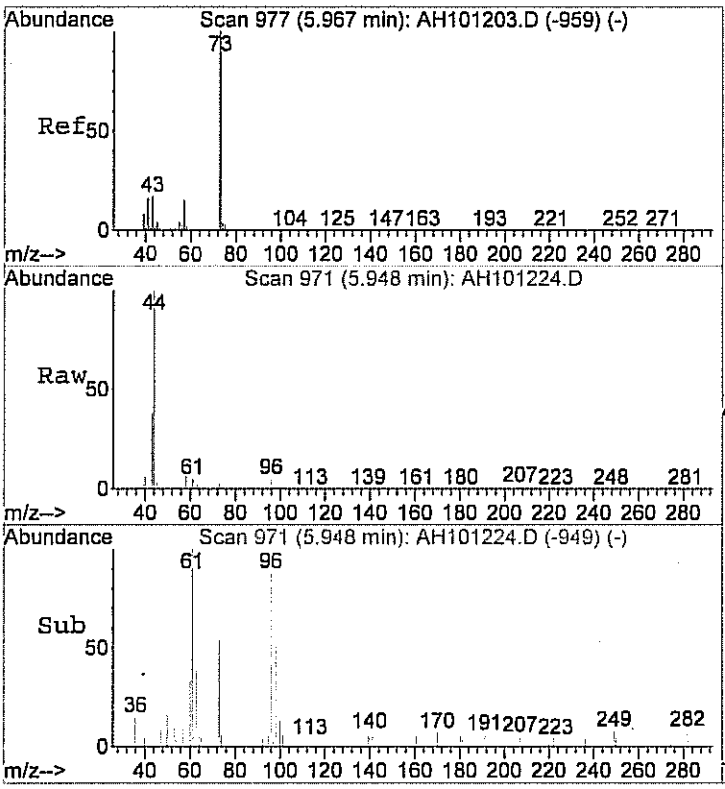


#19
trans-1,2-dichloroethene
Concen: 4.77 ppb
RT: 5.93 min Scan# 966
Delta R.T. -0.03 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 61 Resp: 6966

Ion	Ratio	Lower	Upper
61	100		
96	86.7	60.6	100.6
98	58.7	32.3	72.3

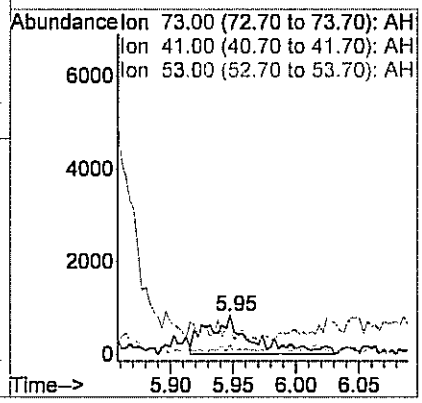


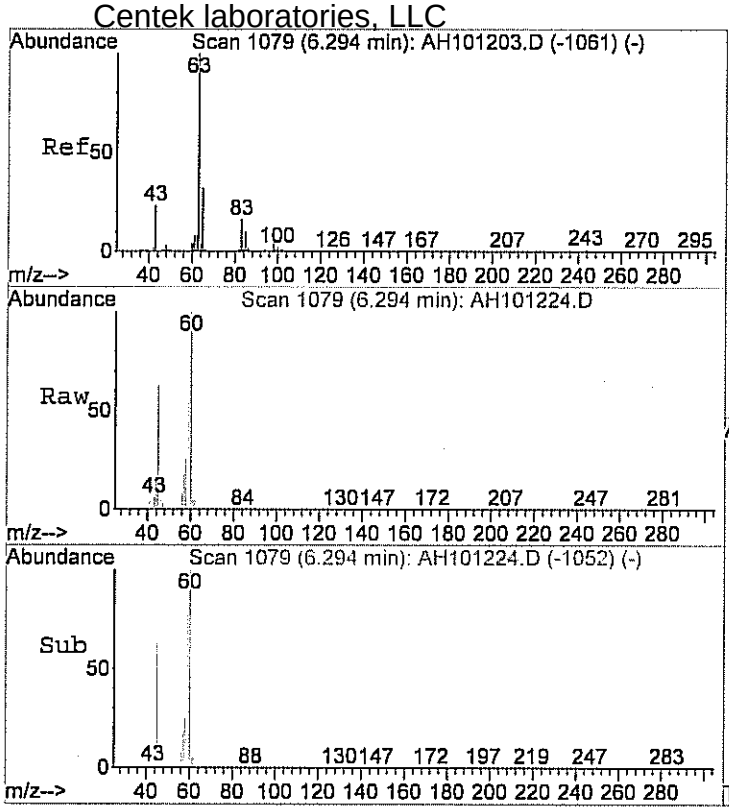


#20
methyl tert-butyl ether
Concen: 2.01 ppb
RT: 5.95 min Scan# 971
Delta R.T. -0.08 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 73 Resp: 2130

Ion	Ratio	Lower	Upper
73	100		
41	0.0	43.7	83.7#
53	6.4	0.0	24.7

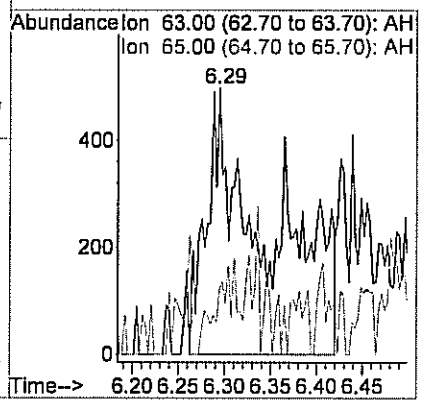


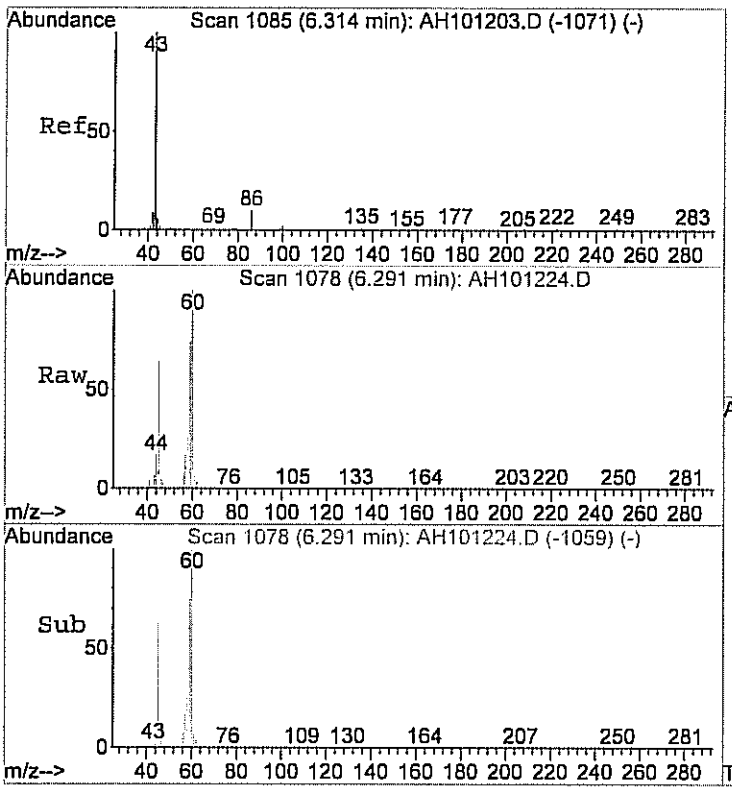


#21
1,1-dichloroethane
Concen: 1.17 ppb
RT: 6.29 min Scan# 1079
Delta R.T. -0.06 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 63 Resp: 2282

Ion	Ratio	Lower	Upper
63	100		
65	8.4	12.7	52.7#

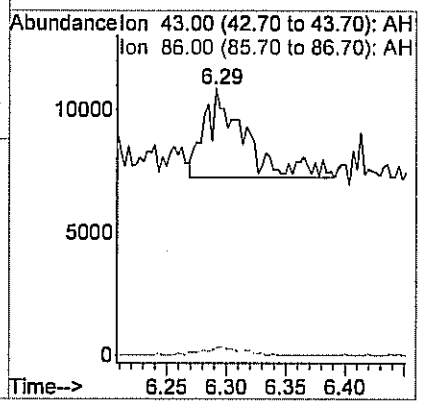


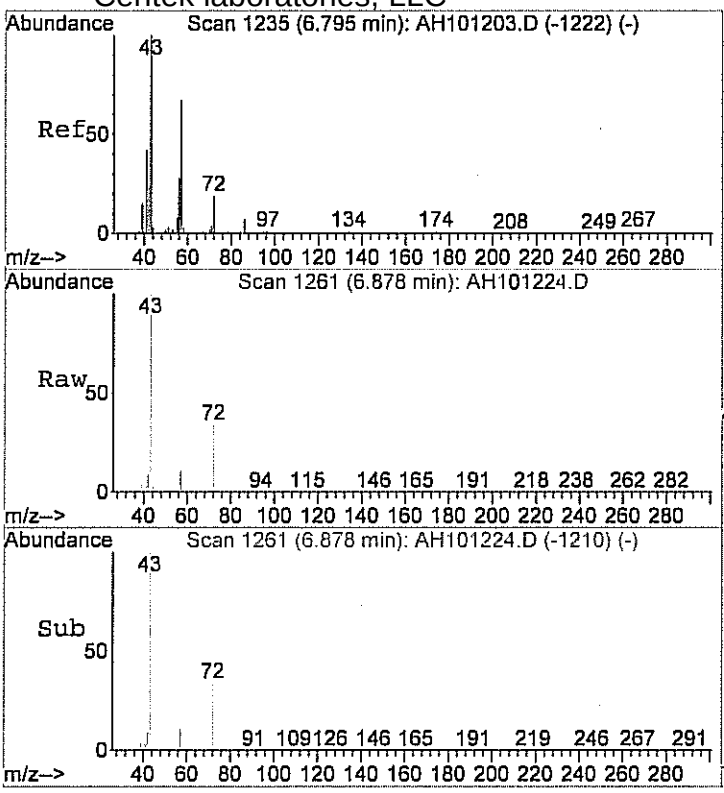


#22
Vinyl acetate
Concen: 7.38 ppb
RT: 6.29 min Scan# 1078
Delta R.T. -0.09 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 43 Resp: 8603

Ion	Ratio	Lower	Upper
43	100		
86	8.7	0.0	28.8

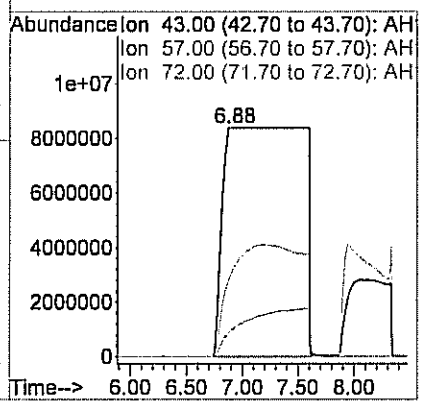


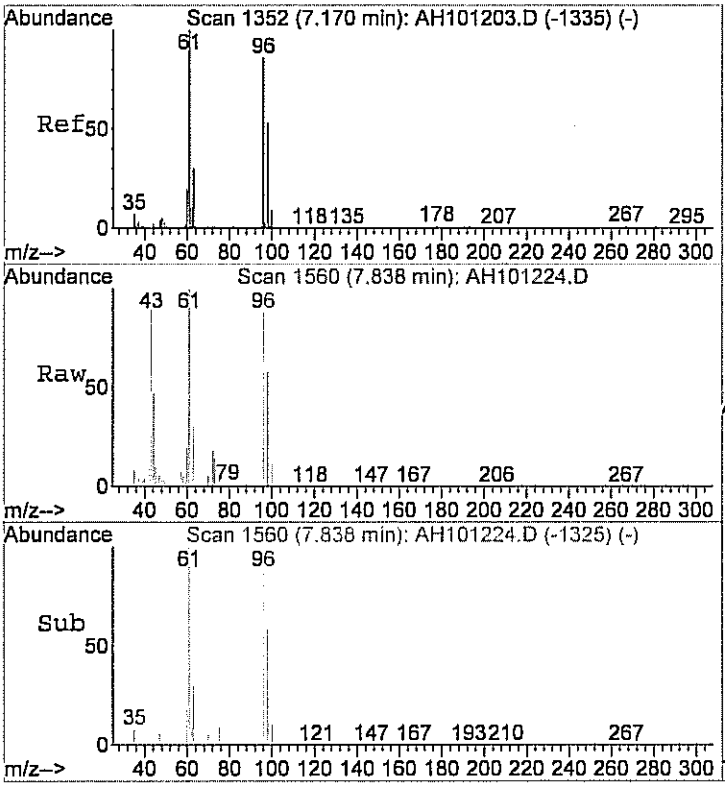


#23
Methyl Ethyl Ketone
Concen: 208845.91 ppb m
RT: 6.88 min Scan# 1261
Delta R.T. 0.01 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 43 Resp:404161535

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.7	80.7#
72	0.0	0.0	39.3

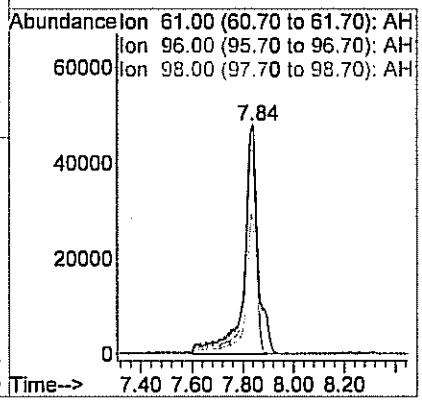


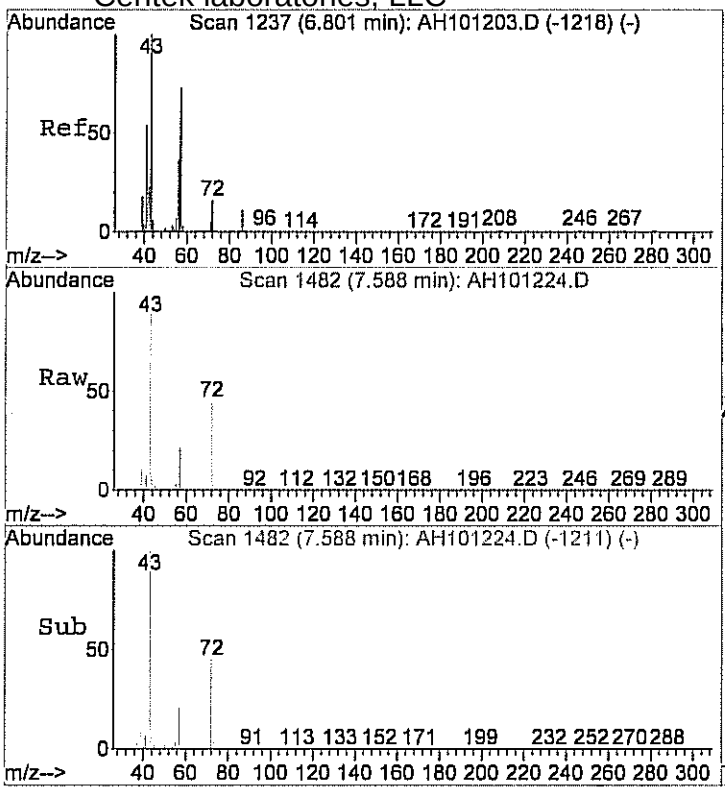


#24
cis-1,2-dichloroethene
Concen: 124.83 ppb m
RT: 7.84 min Scan# 1560
Delta R.T. 0.60 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 61 Resp: 188546

Ion	Ratio	Lower	Upper
61	100		
96	0.1	70.1	110.1#
98	0.0	37.9	77.9#

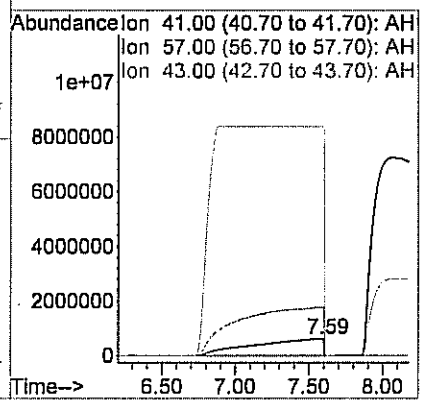


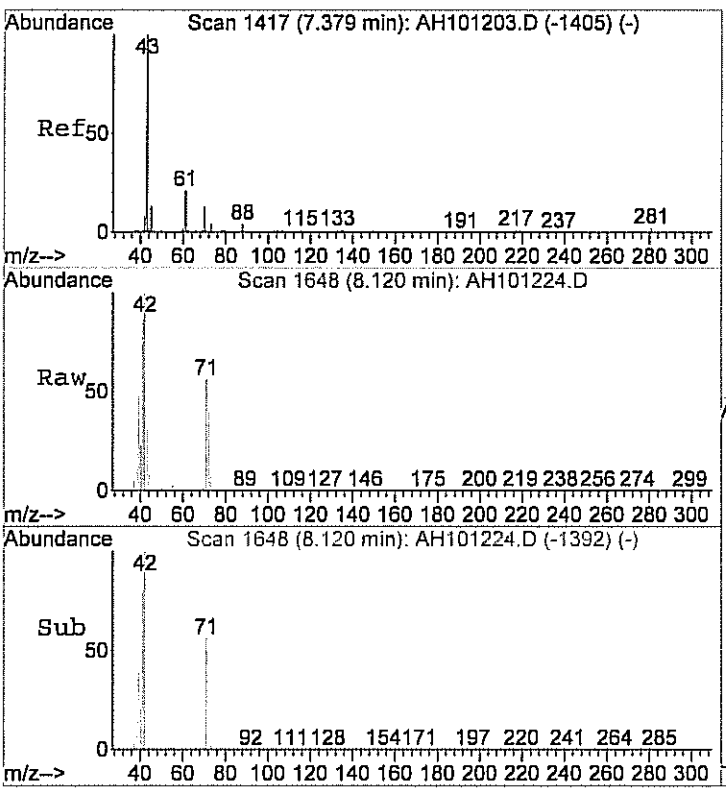


#25
Hexane
Concen: 21450.77 ppb m
RT: 7.59 min Scan# 1482
Delta R.T. 0.72 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 41 Resp:20144889

Ion	Ratio	Lower	Upper
41	100		
57	0.0	107.3	147.3#
43	0.0	190.1	230.1#

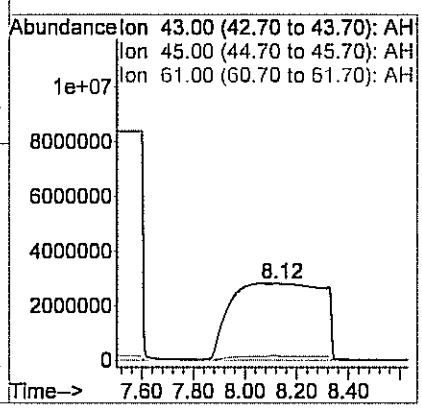


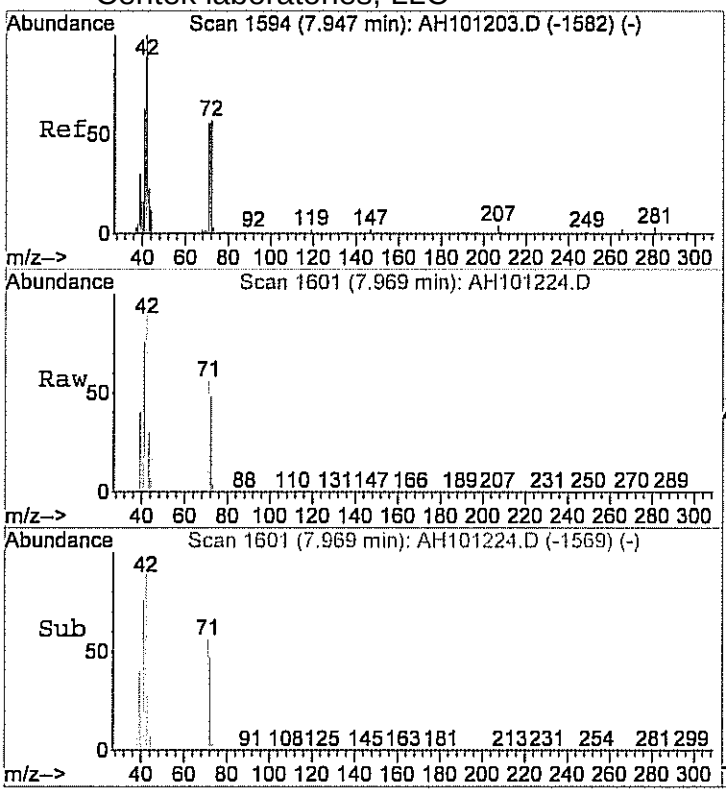


#26
Ethyl acetate
Concen: 53322.79 ppb m
RT: 8.12 min Scan# 1648
Delta R.T. 0.67 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 43 Resp:69370940

Ion	Ratio	Lower	Upper
43	100		
45	0.0	0.0	35.0
61	0.0	0.0	37.6

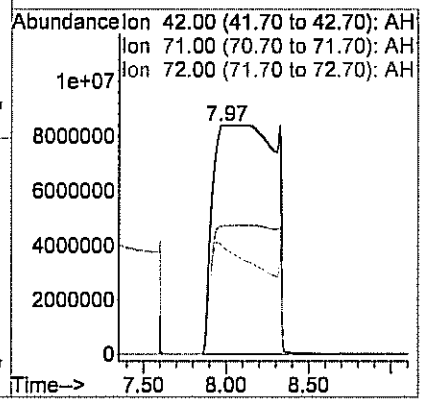


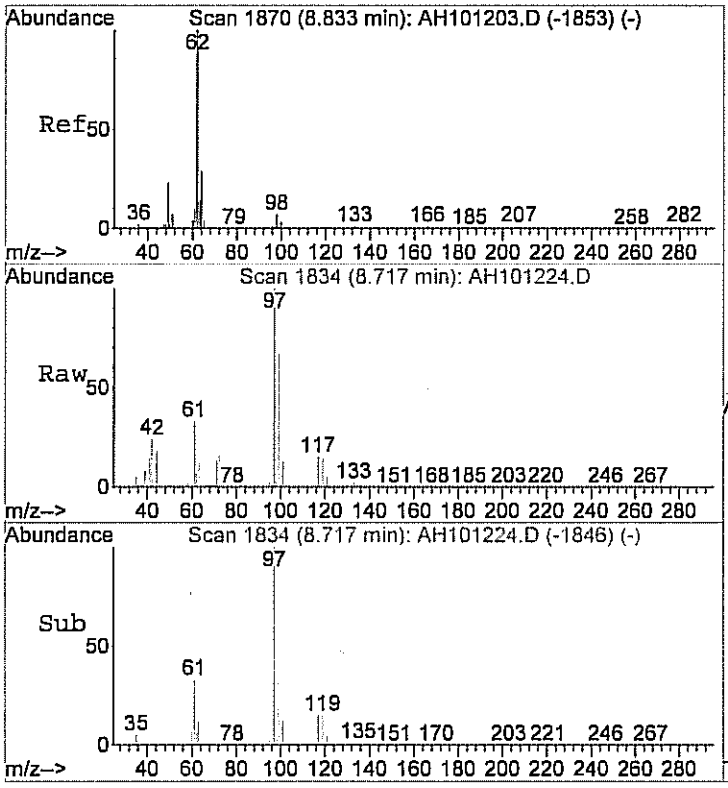


#28
Tetrahydrofuran
Concen: 352096.46 ppb m
RT: 7.97 min Scan# 1601
Delta R.T. -0.05 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 42 Resp:212227015

Ion	Ratio	Lower	Upper
42	100		
71	0.0	38.8	78.8#
72	18.1	32.5	72.5#

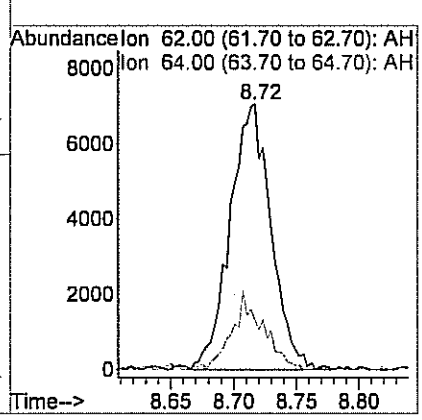


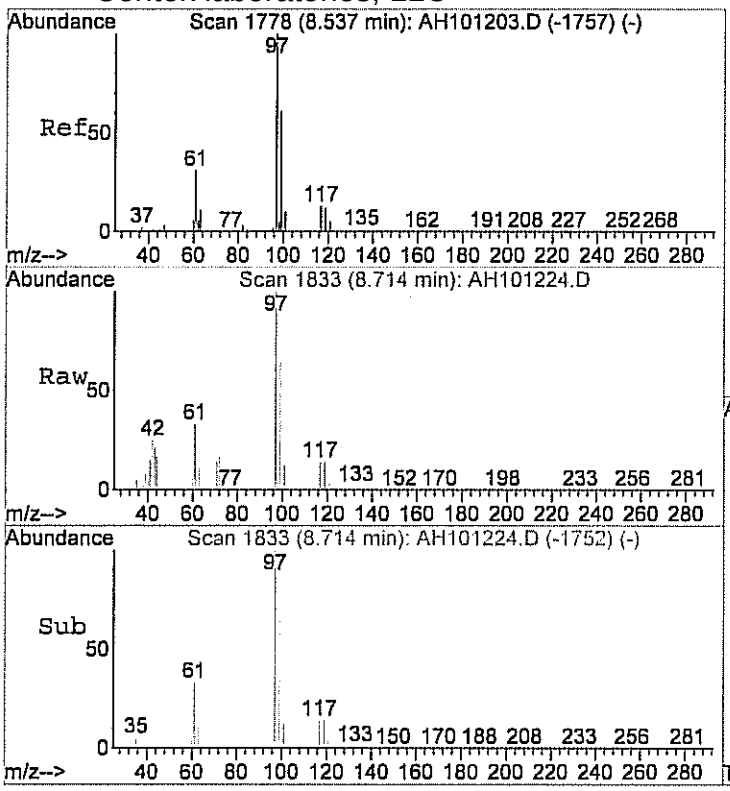


#29
1,2-dichloroethane
Concen: 8.12 ppb
RT: 8.72 min Scan# 1834
Delta R.T. -0.19 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 62 Resp: 15949

Ion	Ratio	Lower	Upper
62	100		
64	22.4	13.4	53.4

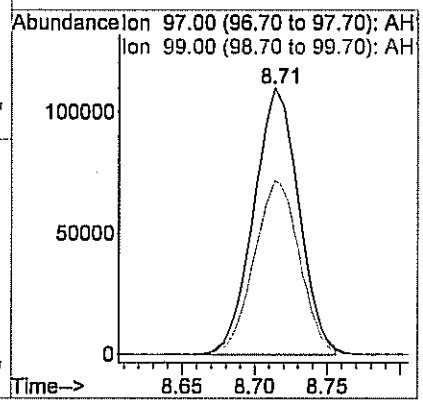


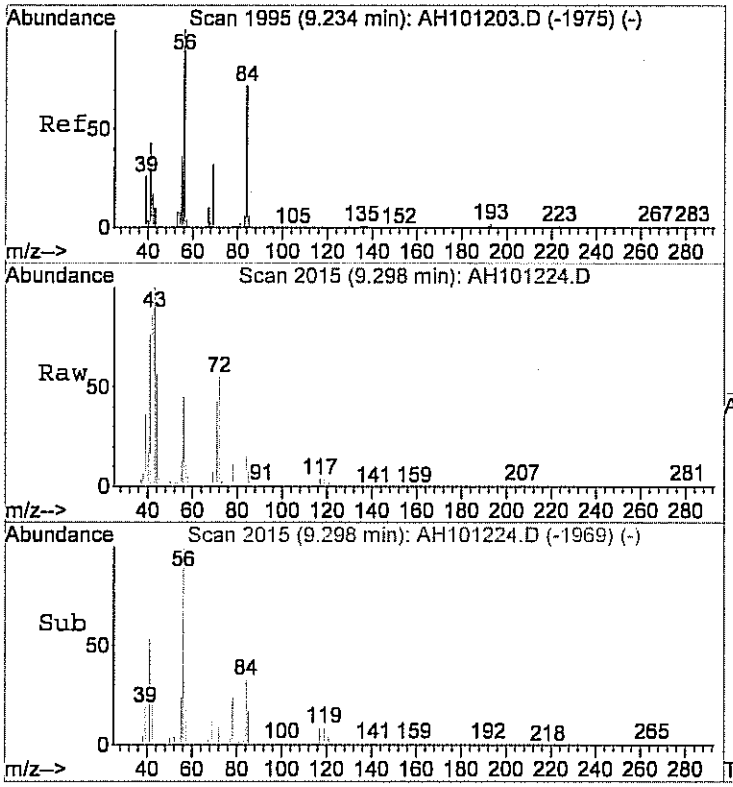


#31
1,1,1-trichloroethane
Concen: 3.00 ppb
RT: 8.71 min Scan# 1833
Delta R.T. 0.11 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 97 Resp: 237712

Ion	Ratio	Lower	Upper
97	100		
99	65.9	43.5	83.5

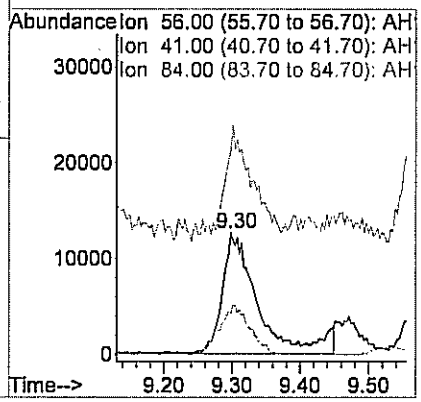


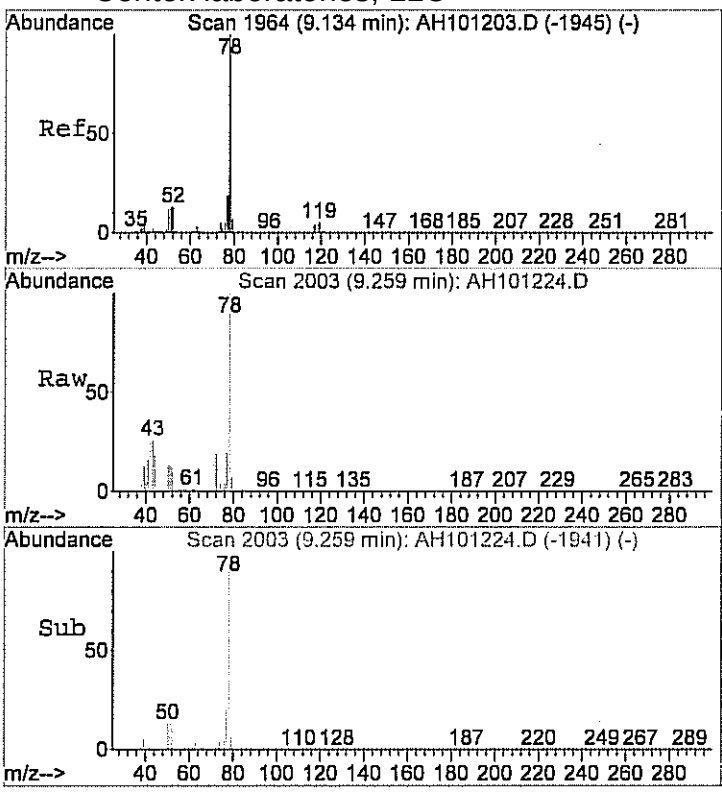


#32
Cyclohexane
Concen: 1.08 ppb
RT: 9.30 min Scan# 2015
Delta R.T. -0.00 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 56 Resp: 45485

Ion	Ratio	Lower	Upper
56	100		
41	77.3	38.7	78.7
84	34.7	120.2	160.2#

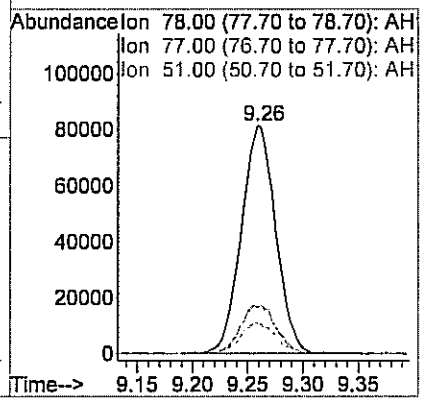


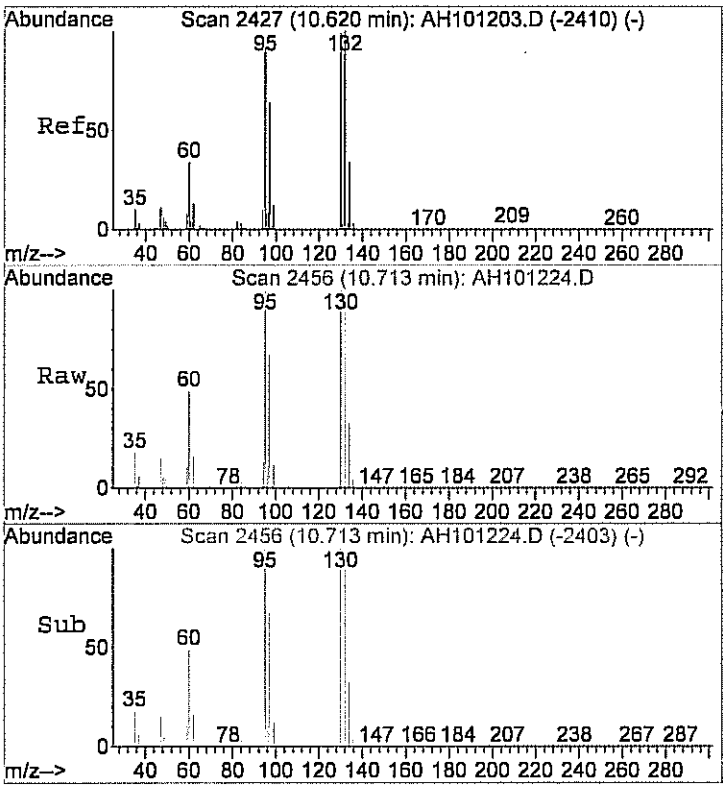


#34
Benzene
Concen: 1.36 ppb
RT: 9.26 min Scan# 2003
Delta R.T. 0.05 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 78 Resp: 175242

Ion	Ratio	Lower	Upper
78	100		
77	22.1	2.0	42.0
51	14.0	0.0	34.0

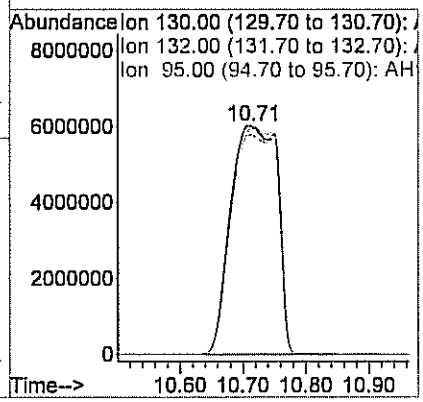


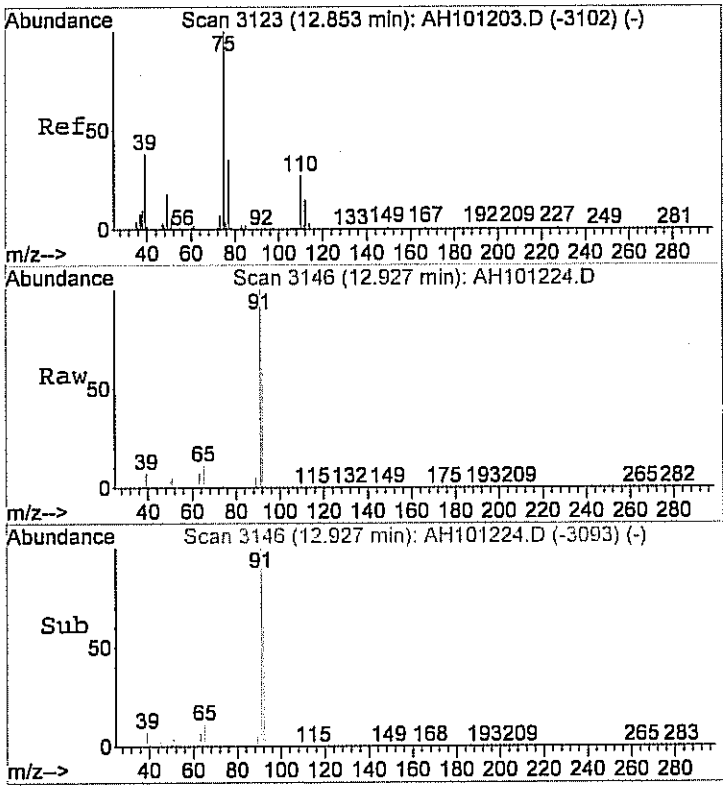


#38
Trichloroethene
Concen: 380.06 ppb
RT: 10.71 min Scan# 2456
Delta R.T. 0.02 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:130 Resp:31037741

Ion	Ratio	Lower	Upper
130	100		
132	96.9	78.8	118.8
95	97.1	75.3	115.3

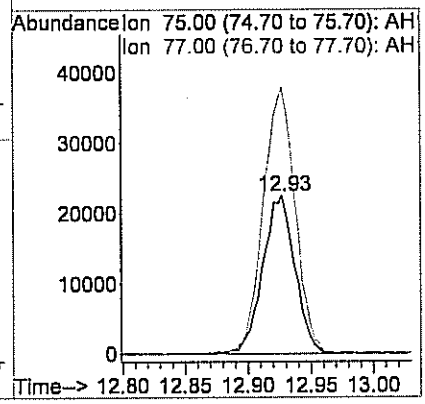


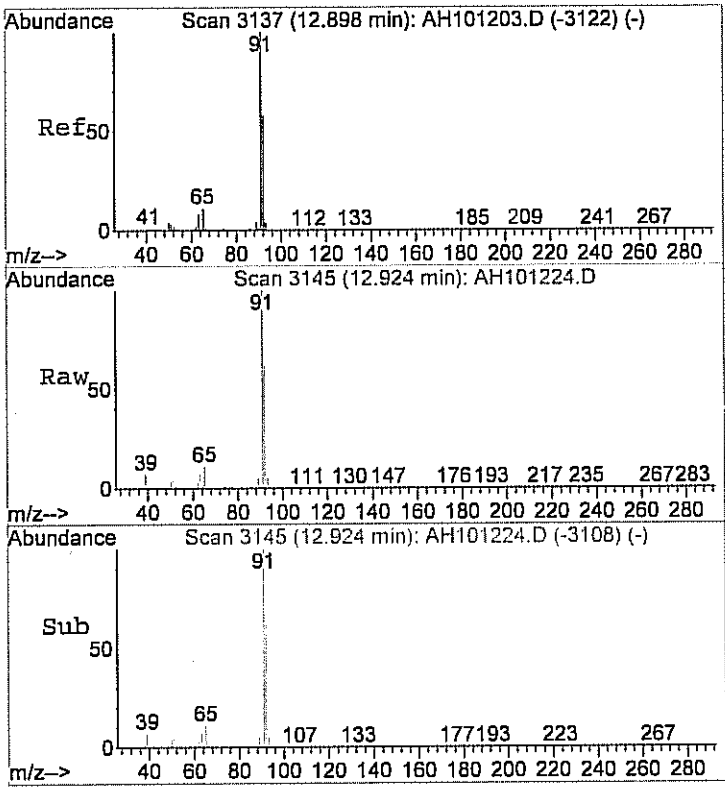


#42
trans-1,3-dichloropropene
Concen: 1.59 ppb
RT: 12.93 min Scan# 3146
Delta R.T. 0.02 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 75 Resp: 40058

Ion	Ratio	Lower	Upper
75	100		
77	166.6	20.4	60.4#

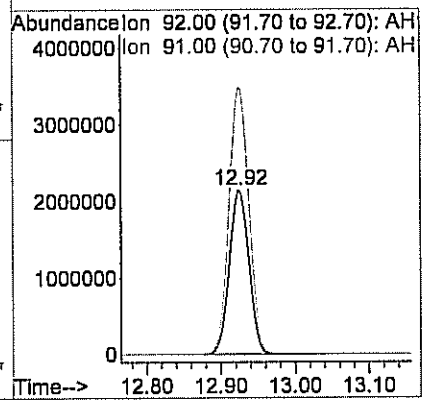


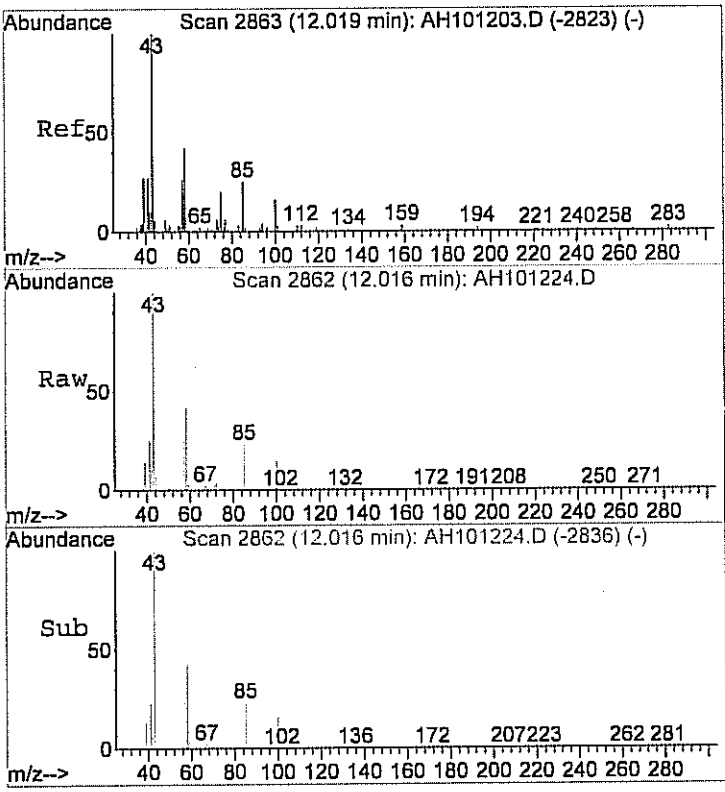


#45
Toluene
Concen: 56.54 ppb
RT: 12.92 min Scan# 3145
Delta R.T. -0.03 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 92 Resp: 3911582

Ion	Ratio	Lower	Upper
92	100		
91	163.9	154.6	194.6

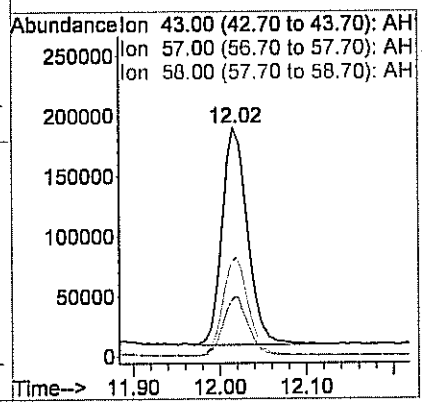


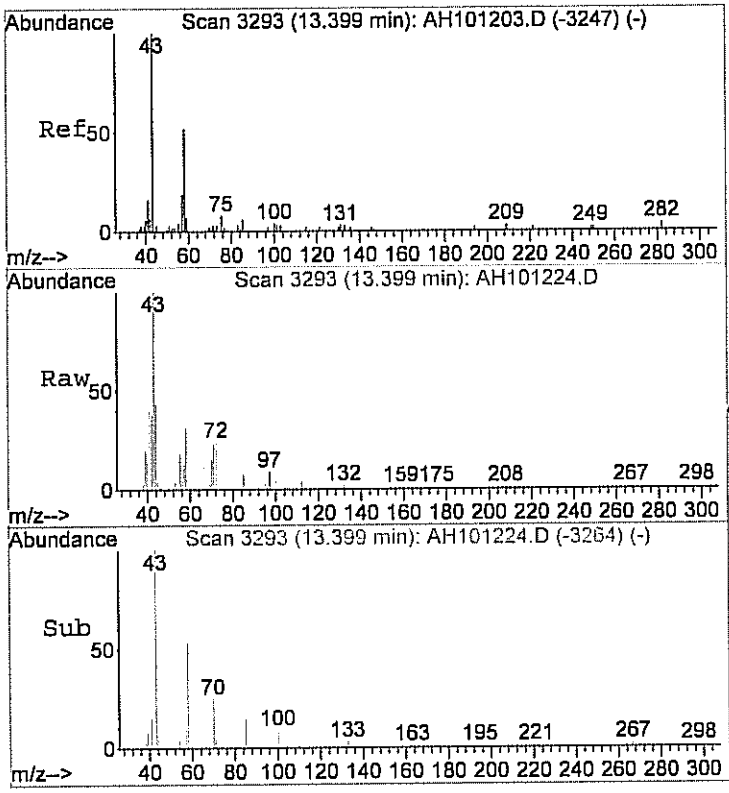


#46
Methyl Isobutyl Ketone
Concen: 14.77 ppb
RT: 12.02 min Scan# 2862
Delta R.T. -0.07 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 43 Resp: 370217

Ion	Ratio	Lower	Upper
43	100		
57	27.3	3.8	43.8
58	44.8	19.0	59.0

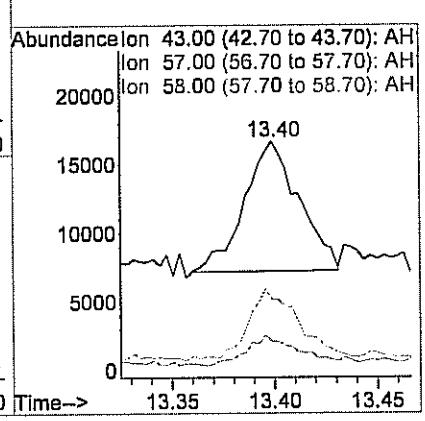


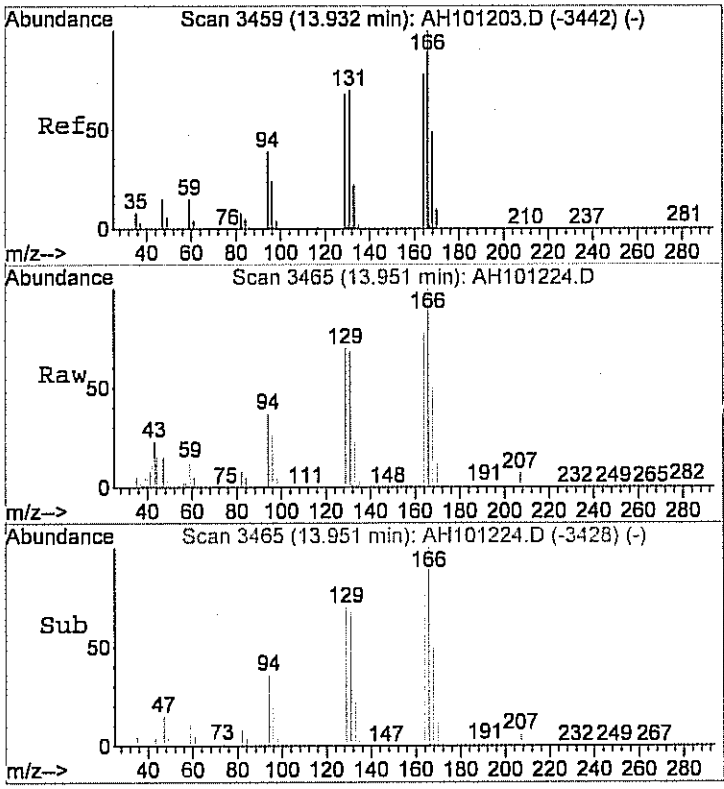


#48
Methyl Butyl Ketone
Concen: 0.79 ppb
RT: 13.40 min Scan# 3293
Delta R.T. -0.06 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 43 Resp: 17543

Ion	Ratio	Lower	Upper
43	100		
57	34.5	0.0	34.6
58	49.8	28.5	68.5

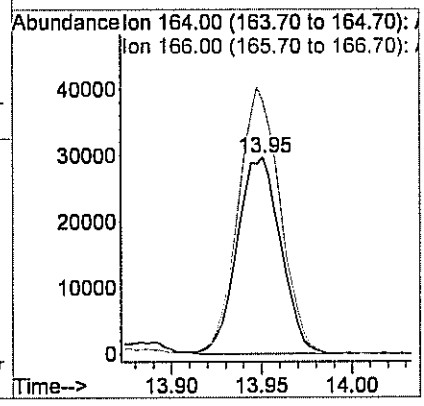


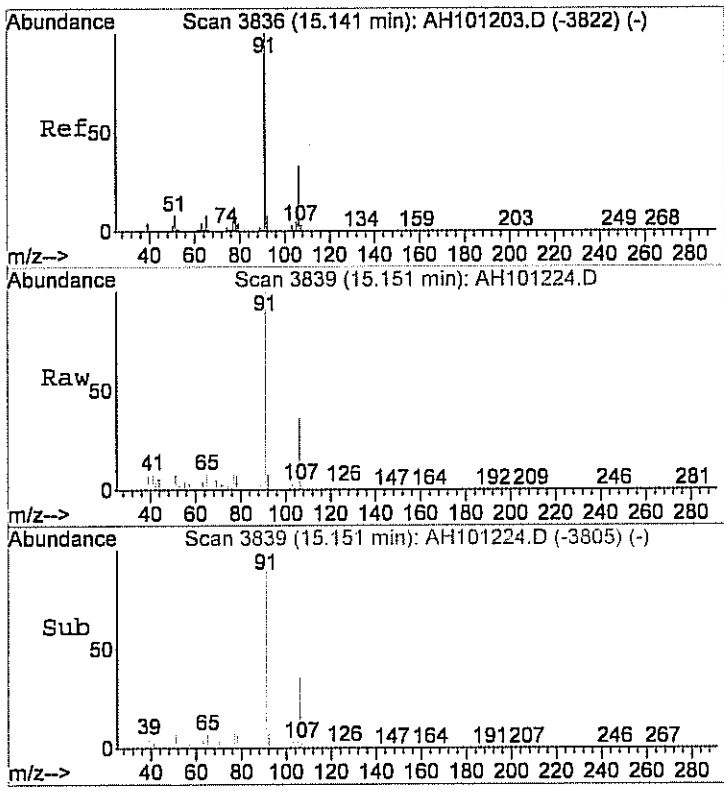


#50
Tetrachloroethylene
Concen: 0.64 ppb
RT: 13.95 min Scan# 3465
Delta R.T. -0.03 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:164 Resp: 49797

Ion	Ratio	Lower	Upper
164	100		
166	129.6	108.6	148.6

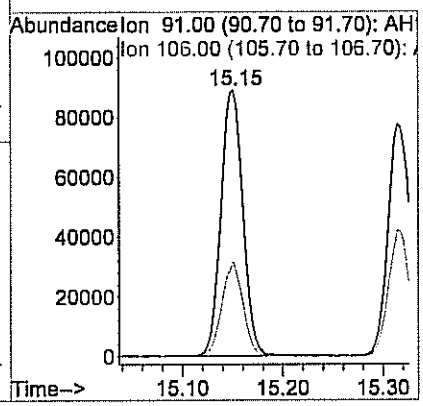


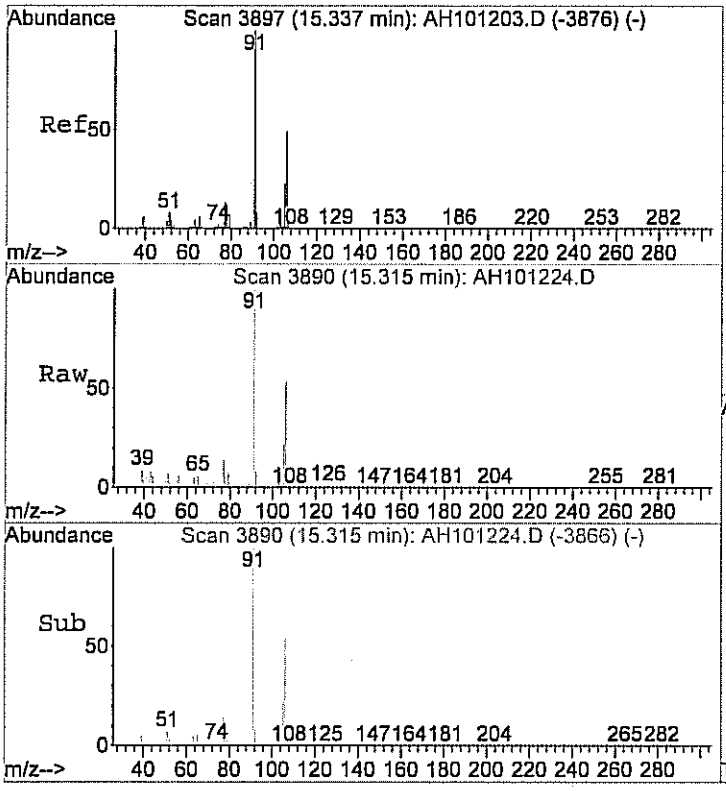


#52
Ethylbenzene
Concen: 1.13 ppb
RT: 15.15 min Scan# 3839
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 91 Resp: 134673

Ion	Ratio	Lower	Upper
91	100		
106	34.4	11.1	51.1

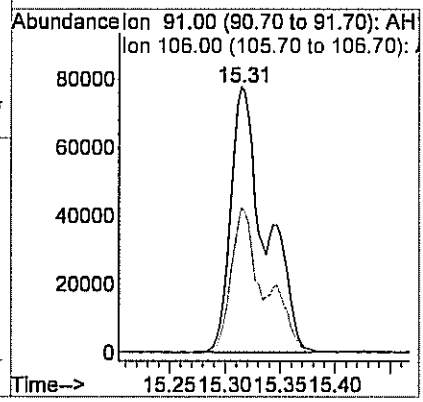


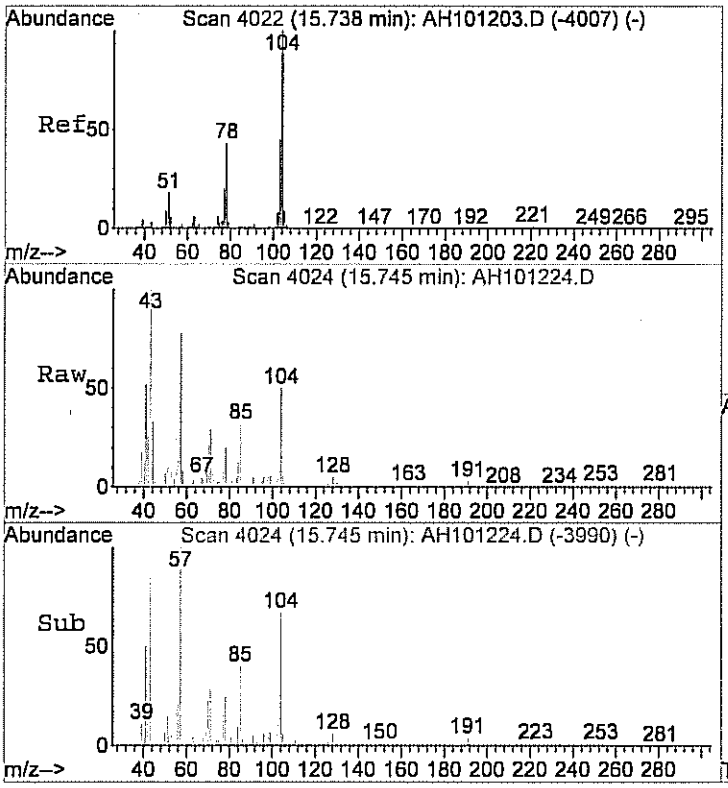


#53
m&p-xylene
Concen: 1.75 ppb
RT: 15.31 min Scan# 3890
Delta R.T. -0.07 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 91 Resp: 169976

Ion	Ratio	Lower	Upper
91	100		
106	52.4	29.1	69.1

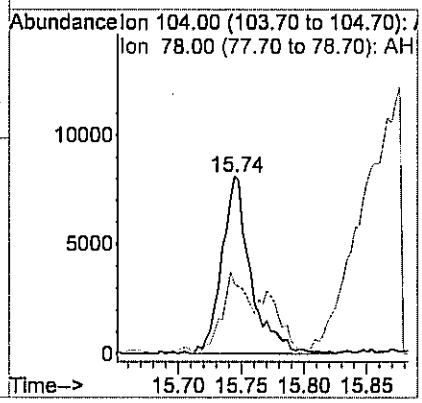


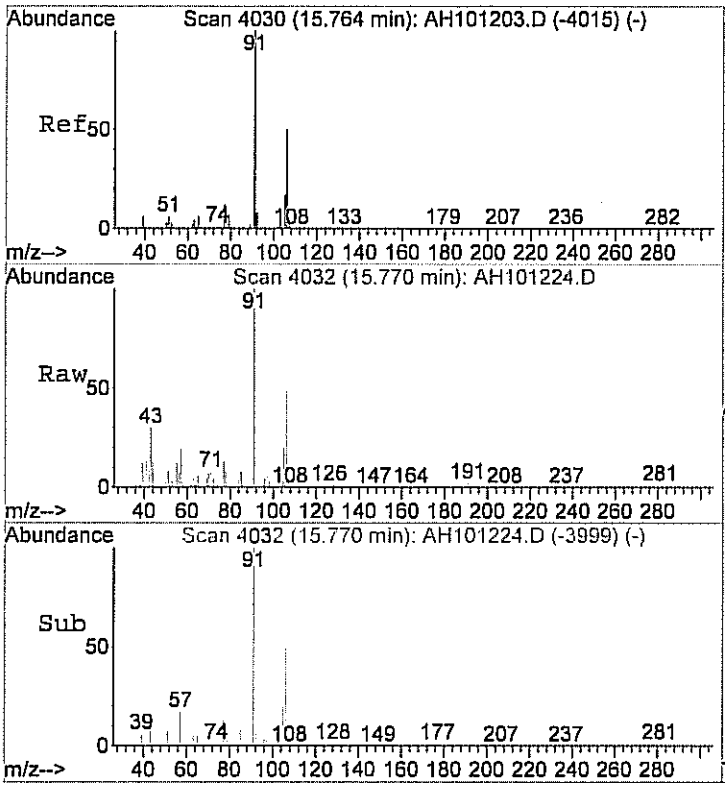


#54
Styrene
Concen: 0.25 ppb
RT: 15.74 min Scan# 4024
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:104 Resp: 12894

Ion	Ratio	Lower	Upper
104	100		
78	64.3	36.8	76.8

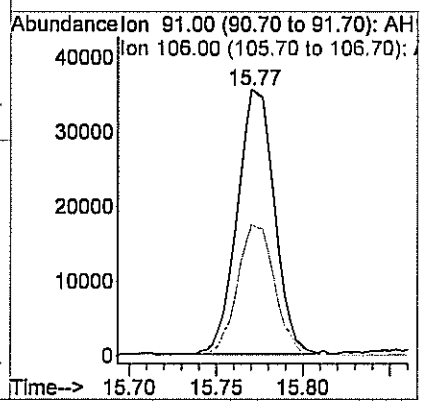


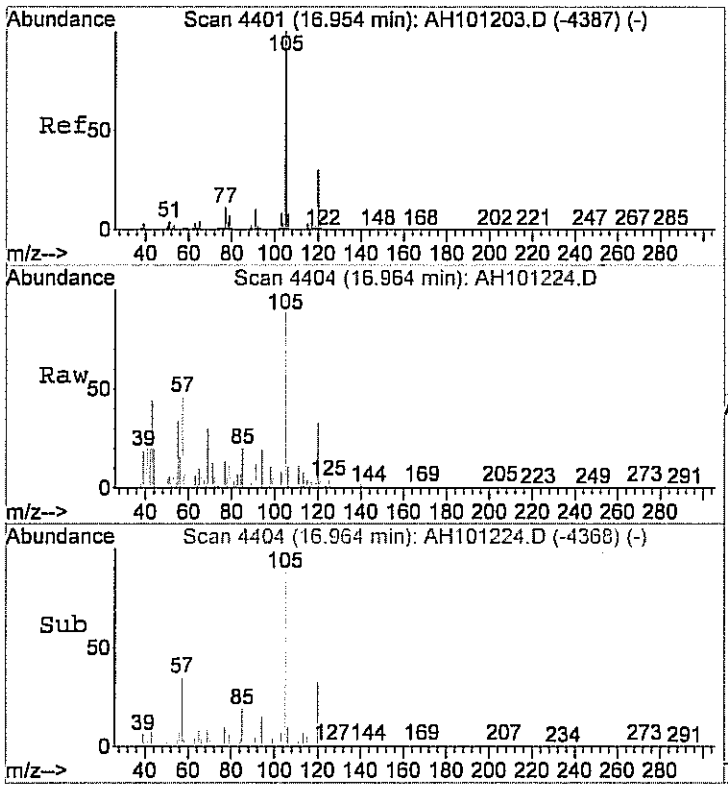


#56
o-xylene
Concen: 0.49 ppb
RT: 15.77 min Scan# 4032
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 91 Resp: 53166

Ion	Ratio	Lower	Upper
91	100		
106	51.1	27.4	67.4

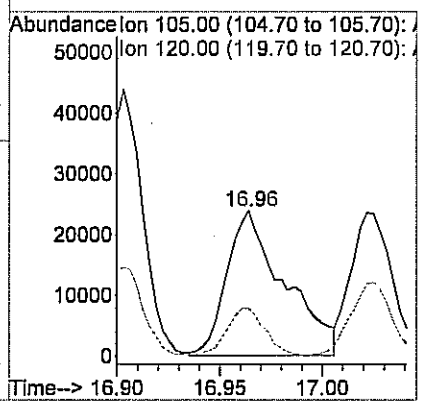


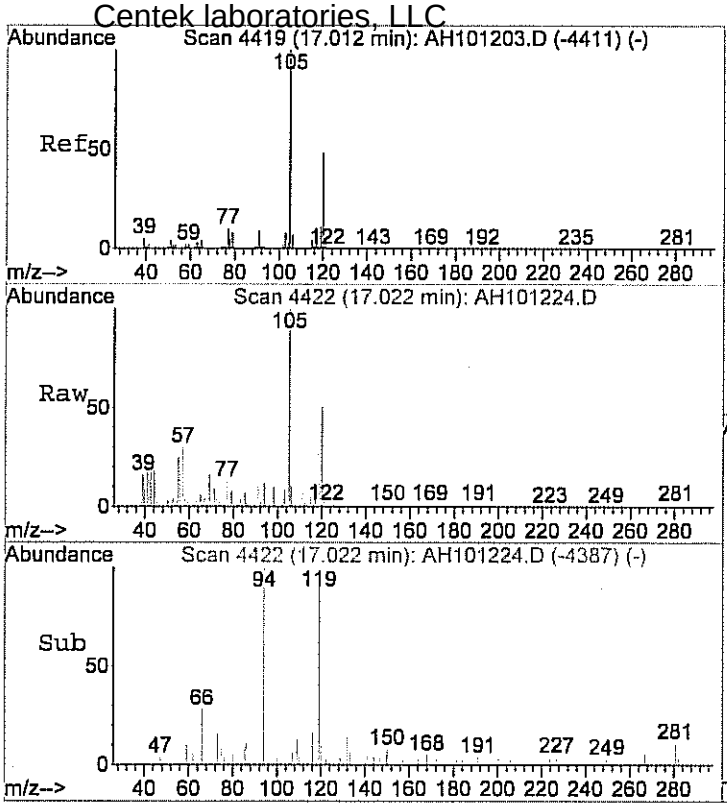


#59
4-ethyltoluene
Concen: 0.52 ppb
RT: 16.96 min Scan# 4404
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:105 Resp: 46468

Ion	Ratio	Lower	Upper
105	100		
120	22.4	10.2	50.2

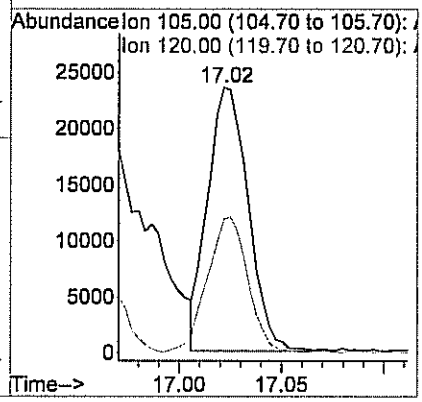


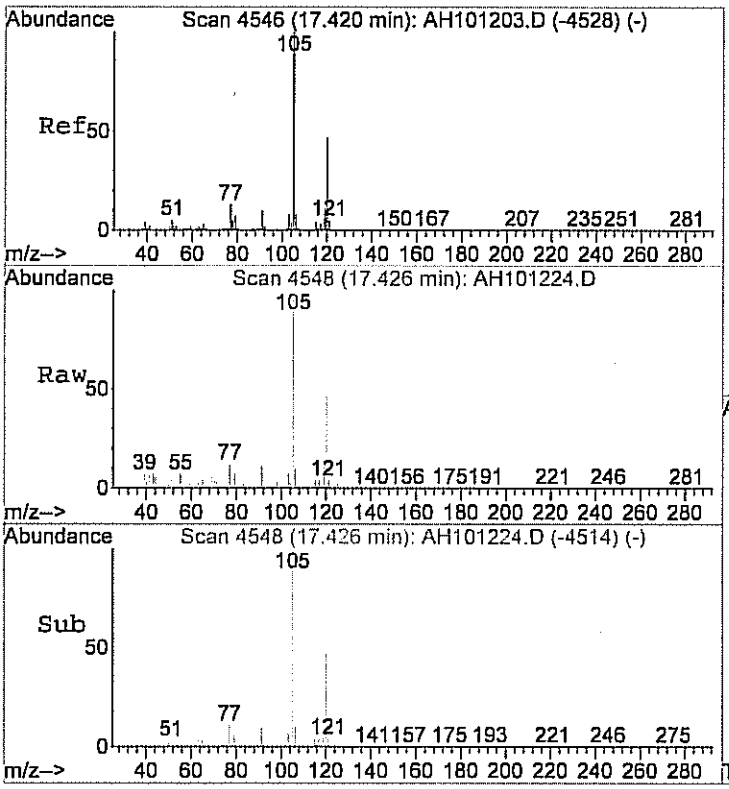


#60
1,3,5-trimethylbenzene
Concen: 0.42 ppb
RT: 17.02 min Scan# 4422
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:105 Resp: 32307

Ion	Ratio	Lower	Upper
105	100		
120	51.7	27.6	67.6

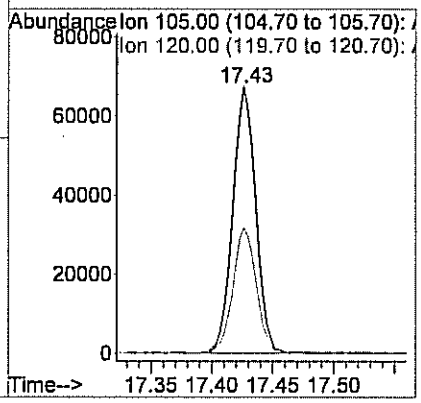


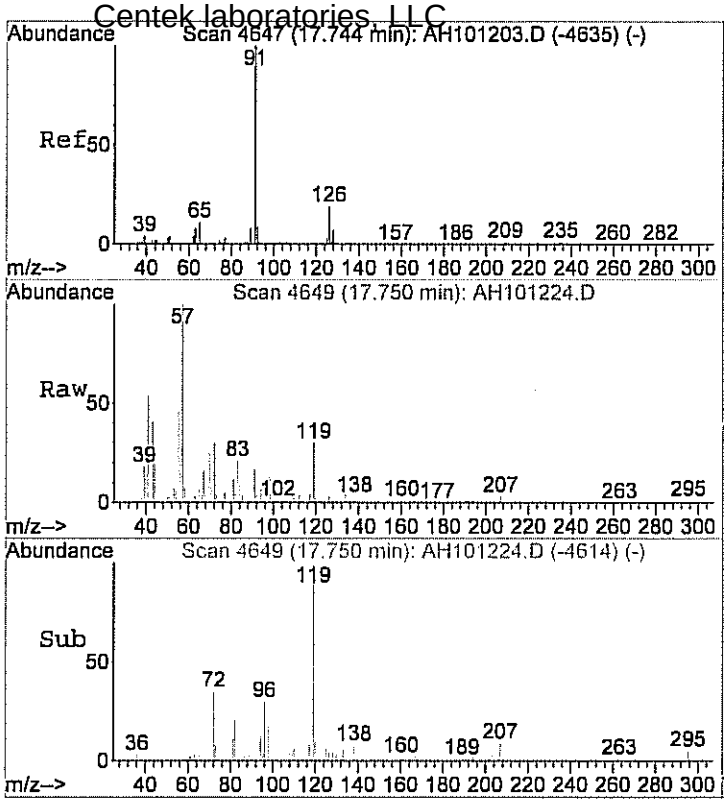


#61
1,2,4-trimethylbenzene
Concen: 1.59 ppb
RT: 17.43 min Scan# 4548
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion:105 Resp: 88049

Ion	Ratio	Lower	Upper
105	100		
120	47.9	24.3	64.3

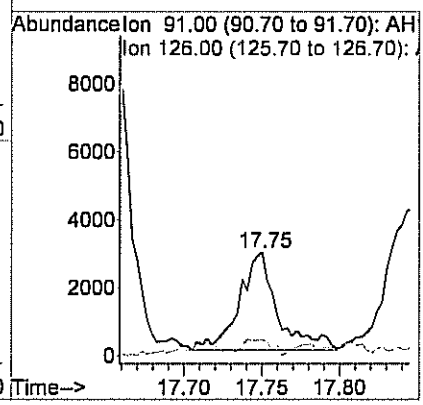




#63
benzyl chloride
Concen: 0.17 ppb
RT: 17.75 min Scan# 4649
Delta R.T. -0.04 min
Lab File: AH101224.D
Acq: 12 Oct 2010 10:41 pm

Tgt Ion: 91 Resp: 4947

Ion	Ratio	Lower	Upper
91	100		
126	11.8	0.0	37.5



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		10/8/2010
Lab Vacuum Out	-30			"Hg		10/8/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2,4-Trimethylbenzene	0.21	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Acetone	38	12		ppbV	40	10/12/2010 11:38:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Benzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromoform	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Bromomethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloroethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloroform	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Chloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Cyclohexane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/13/2010 9:15:00 AM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 11	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 113	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 114	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Freon 12	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Heptane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Hexane	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl Ethyl Ketone	43	12		ppbV	40	10/12/2010 11:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 9:15:00 AM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Methylene chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
o-Xylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Propylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Styrene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Tetrahydrofuran	91	6.0		ppbV	40	10/12/2010 11:38:00 PM
Toluene	0.22	0.15		ppbV	1	10/13/2010 9:15:00 AM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Trichloroethene	1.3	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 9:15:00 AM
Surr: Bromofluorobenzene	121	70-130		%REC	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 9:15:00 AM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 9:15:00 AM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
1,2,4-Trimethylbenzene	1.0	0.75		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/13/2010 9:15:00 AM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/13/2010 9:15:00 AM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/13/2010 9:15:00 AM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
Acetone	93	29		ug/m3	40	10/12/2010 11:38:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/13/2010 9:15:00 AM
Benzene	< 0.49	0.49		ug/m3	1	10/13/2010 9:15:00 AM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/13/2010 9:15:00 AM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
Bromoform	< 1.6	1.6		ug/m3	1	10/13/2010 9:15:00 AM
Bromomethane	< 0.59	0.59		ug/m3	1	10/13/2010 9:15:00 AM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/13/2010 9:15:00 AM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/13/2010 9:15:00 AM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/13/2010 9:15:00 AM
Chloroethane	< 0.40	0.40		ug/m3	1	10/13/2010 9:15:00 AM
Chloroform	< 0.74	0.74		ug/m3	1	10/13/2010 9:15:00 AM
Chloromethane	< 0.31	0.31		ug/m3	1	10/13/2010 9:15:00 AM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 9:15:00 AM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/13/2010 9:15:00 AM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/13/2010 9:15:00 AM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/13/2010 9:15:00 AM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/13/2010 9:15:00 AM
Freon 11	< 0.86	0.86		ug/m3	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785CA0100AA
Lab Order:	C1010018	**Tag Number:**	243
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Freon 114	< 1.1	1.1		ug/m3	1	10/13/2010 9:15:00 AM
Freon 12	< 0.75	0.75		ug/m3	1	10/13/2010 9:15:00 AM
Heptane	< 0.62	0.62		ug/m3	1	10/13/2010 9:15:00 AM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/13/2010 9:15:00 AM
Hexane	< 0.54	0.54		ug/m3	1	10/13/2010 9:15:00 AM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/13/2010 9:15:00 AM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/13/2010 9:15:00 AM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Methyl Ethyl Ketone	130	36		ug/m3	40	10/12/2010 11:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 9:15:00 AM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/13/2010 9:15:00 AM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/13/2010 9:15:00 AM
o-Xylene	< 0.66	0.66		ug/m3	1	10/13/2010 9:15:00 AM
Propylene	< 0.26	0.26		ug/m3	1	10/13/2010 9:15:00 AM
Styrene	< 0.65	0.65		ug/m3	1	10/13/2010 9:15:00 AM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/13/2010 9:15:00 AM
Tetrahydrofuran	270	18		ug/m3	40	10/12/2010 11:38:00 PM
Toluene	0.84	0.57		ug/m3	1	10/13/2010 9:15:00 AM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 9:15:00 AM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 9:15:00 AM
Trichloroethene	7.3	0.82		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/13/2010 9:15:00 AM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/13/2010 9:15:00 AM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101243.D Vial: 15
Acq On : 13 Oct 2010 9:15 am Operator: RJP
Sample : C1010018-006A Inst : MSD #1
Misc : C1010018-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 09:36:28 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

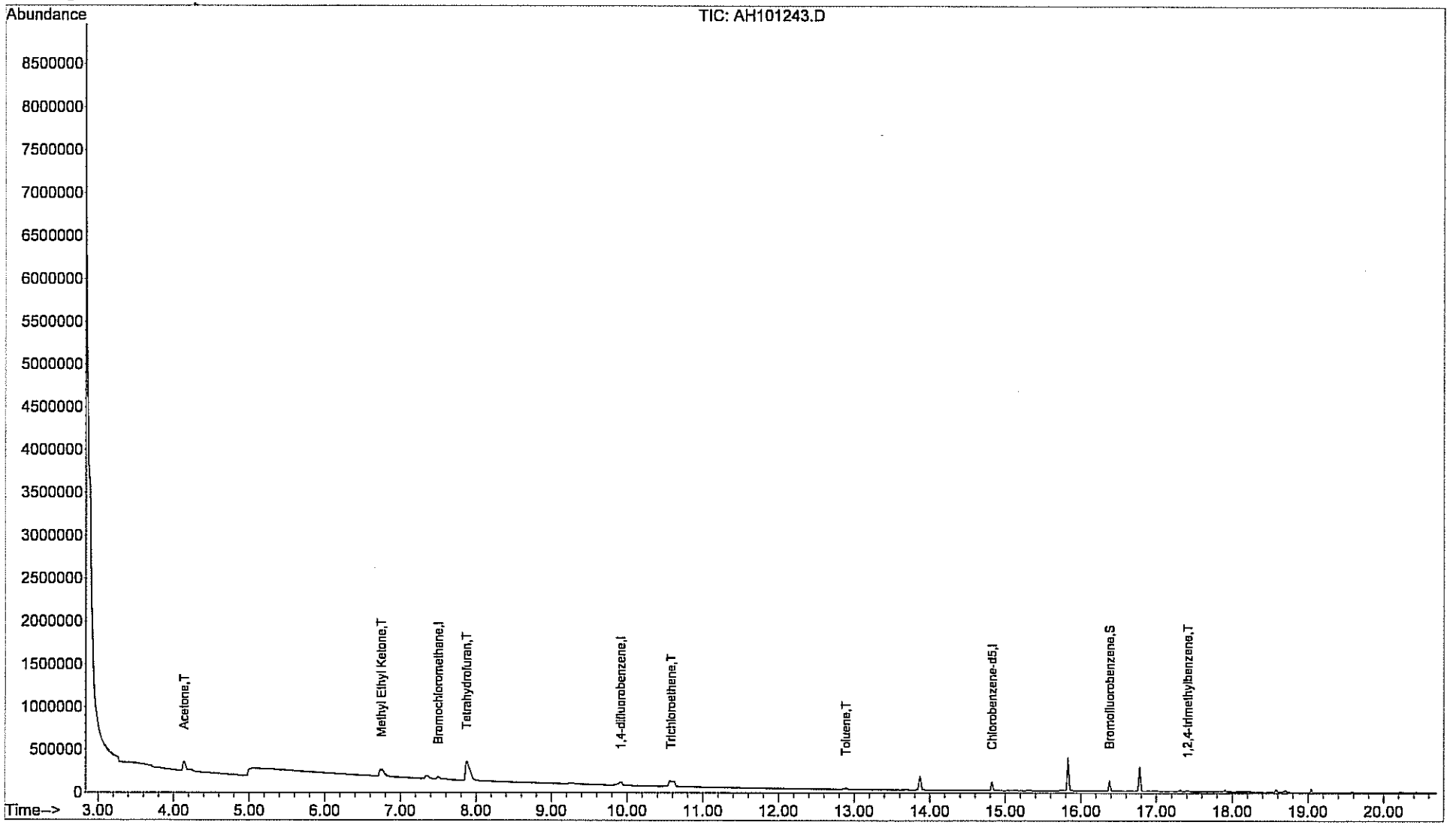
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.50	128	20811m	1.00	ppb	-0.16
30) 1,4-difluorobenzene	9.92	114	69807m	1.00	ppb	-0.07
44) Chlorobenzene-d5	14.83	117	58162	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	31518	1.21	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 121.00%			
Target Compounds						Qvalue
12) Acetone	4.13	58	53288m	10.10	ppb	
23) Methyl Ethyl Ketone	6.75	43	222482m	5.98	ppb	
28) Tetrahydrofuran	7.88	42	253296m	21.87	ppb	
38) Trichloroethene	10.58	130	61714m	1.34	ppb	
45) Toluene	12.89	92	9266	0.22	ppb	97
61) 1,2,4-trimethylbenzene	17.42	105	6995	0.21	ppb	98

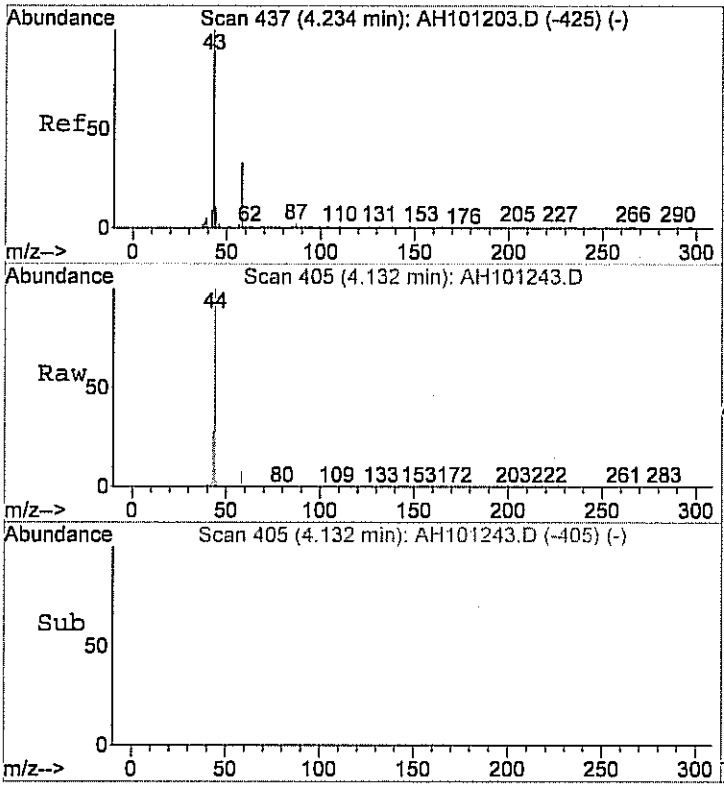
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101243.D Vial: 15
Acq On : 13 Oct 2010 9:15 am Operator: RJP
Sample : C1010018-006A Inst : MSD #1
Misc : C1010018-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 11:58 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration

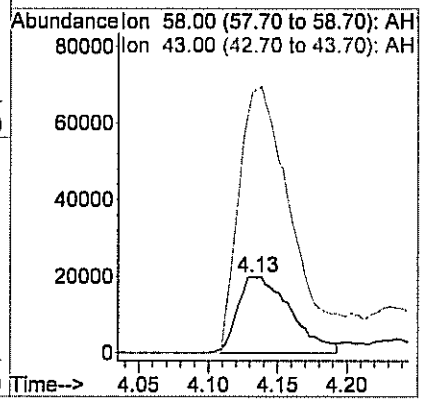


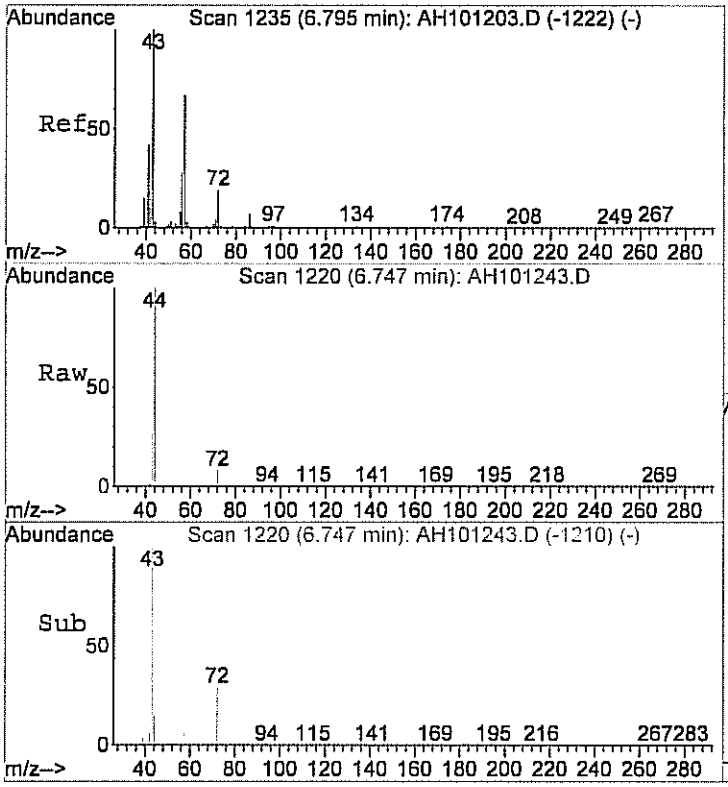


#12
Acetone
Concen: 10.10 ppb m
RT: 4.13 min Scan# 405
Delta R.T. -0.15 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion: 58 Resp: 53288

Ion	Ratio	Lower	Upper
58	100		
43	0.0	37.6	97.6#

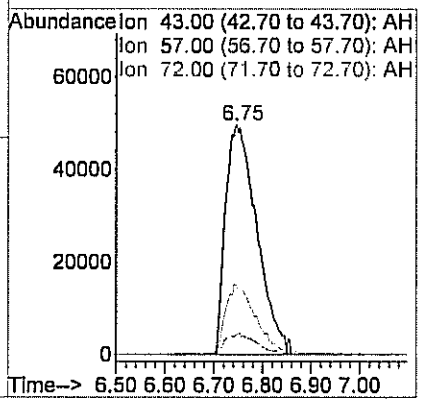


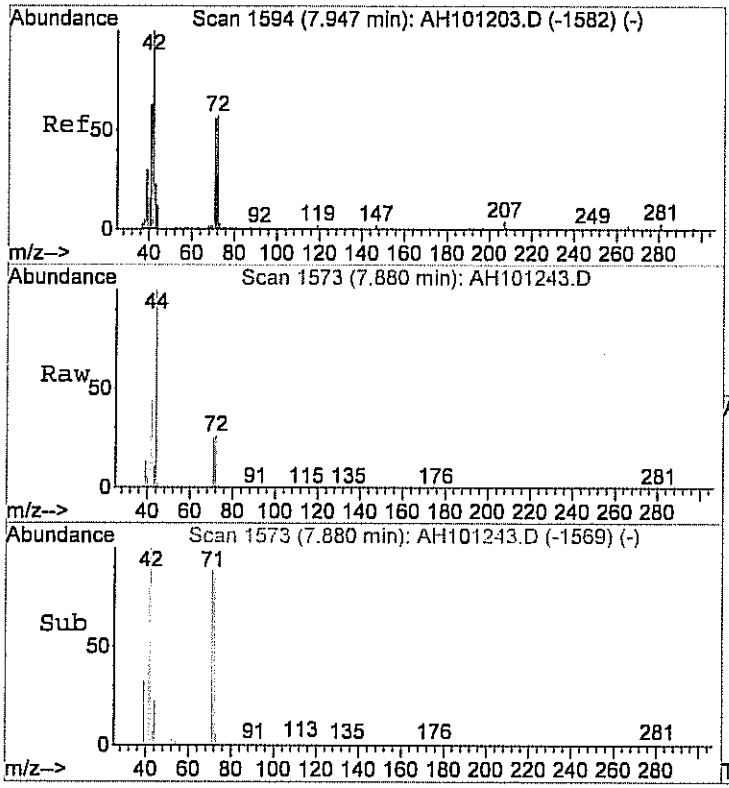


#23
Methyl Ethyl Ketone
Concen: 5.98 ppb m
RT: 6.75 min Scan# 1220
Delta R.T. -0.12 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion: 43 Resp: 222482

Ion	Ratio	Lower	Upper
43	100		
57	0.0	40.7	80.7#
72	0.0	0.0	39.3

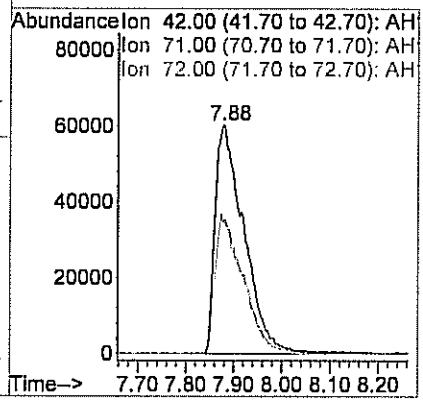


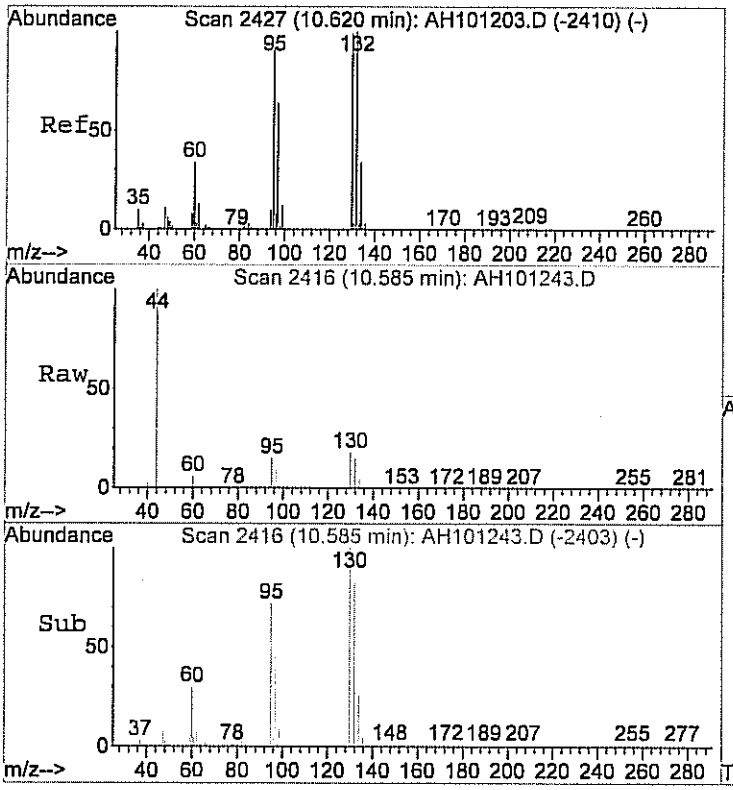


#28
Tetrahydrofuran
Concen: 21.87 ppb m
RT: 7.88 min Scan# 1573
Delta R.T. -0.14 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion: 42 Resp: 253296

Ion	Ratio	Lower	Upper
42	100		
71	0.0	38.8	78.8#
72	0.0	32.5	72.5#

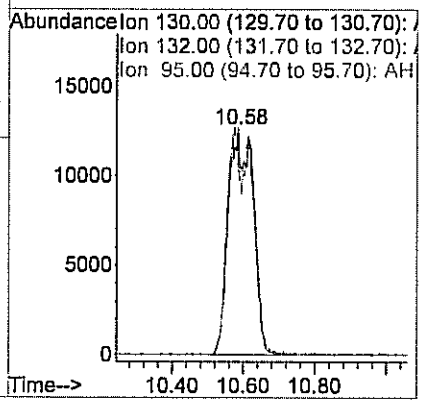


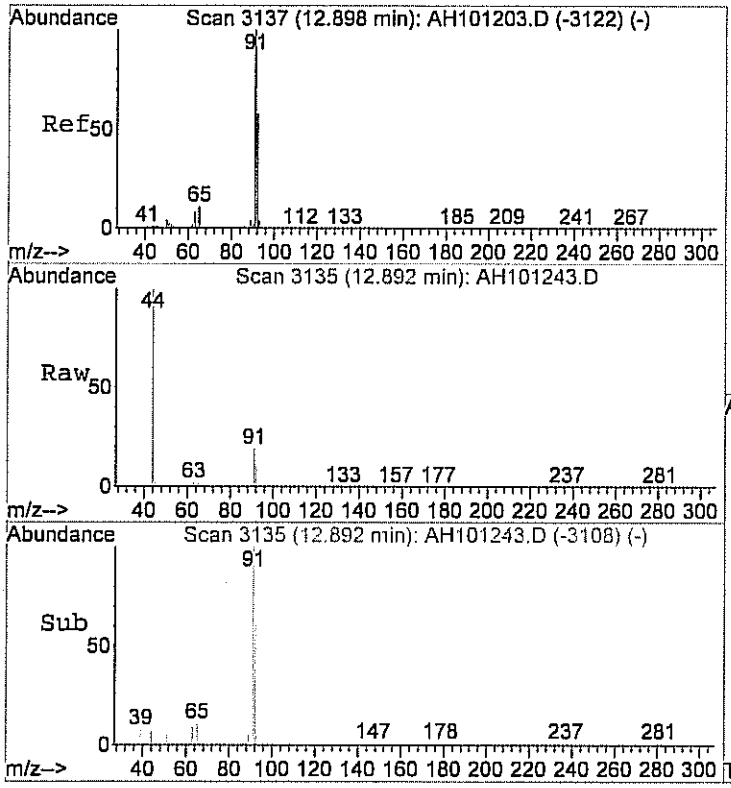


#38
Trichloroethene
Concen: 1.34 ppb m
RT: 10.58 min Scan# 2416
Delta R.T. -0.11 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion:130 Resp: 61714

Ion	Ratio	Lower	Upper
130	100		
132	92.1	78.8	118.8
95	0.0	75.3	115.3#

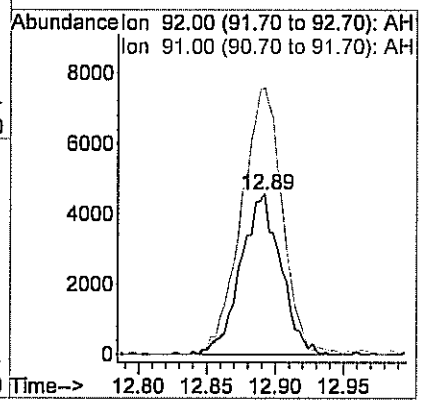


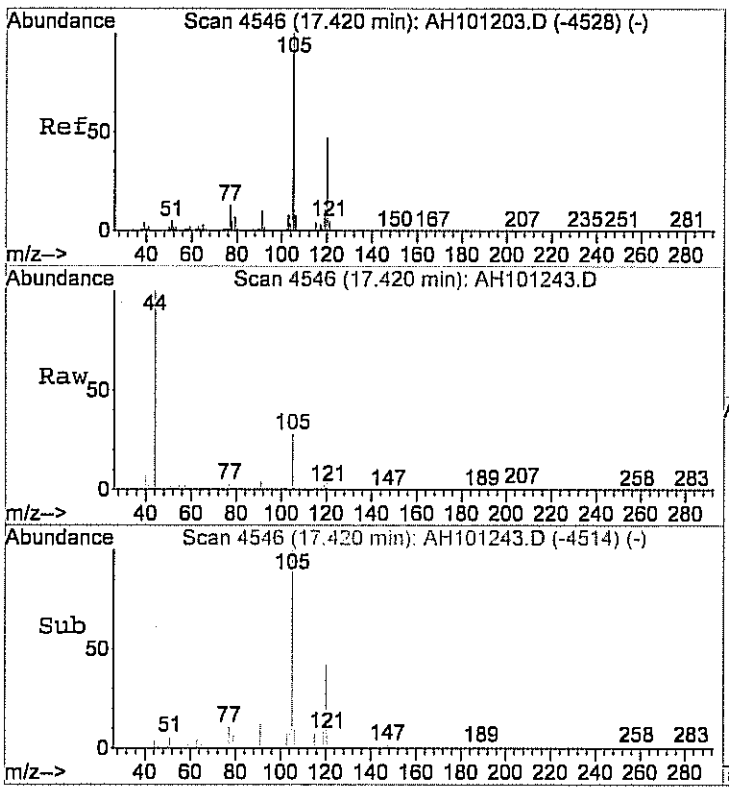


#45
Toluene
Concen: 0.22 ppb
RT: 12.89 min Scan# 3135
Delta R.T. -0.06 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion: 92 Resp: 9266

Ion	Ratio	Lower	Upper
92	100		
91	169.8	154.6	194.6

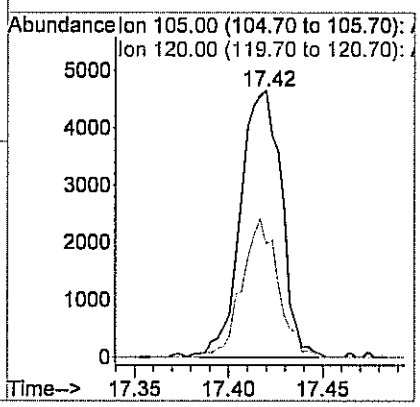




#61
1,2,4-trimethylbenzene
Concen: 0.21 ppb
RT: 17.42 min Scan# 4546
Delta R.T. -0.05 min
Lab File: AH101243.D
Acq: 13 Oct 2010 9:15 am

Tgt Ion:105 Resp: 6995

Ion	Ratio	Lower	Upper
105	100		
120	45.8	24.3	64.3



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101225.D Vial: 11
Acq On : 12 Oct 2010 11:38 pm Operator: RJP
Sample : C1010018-006A 40x Inst : MSD #1
Misc : C1010018-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 23:59:15 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

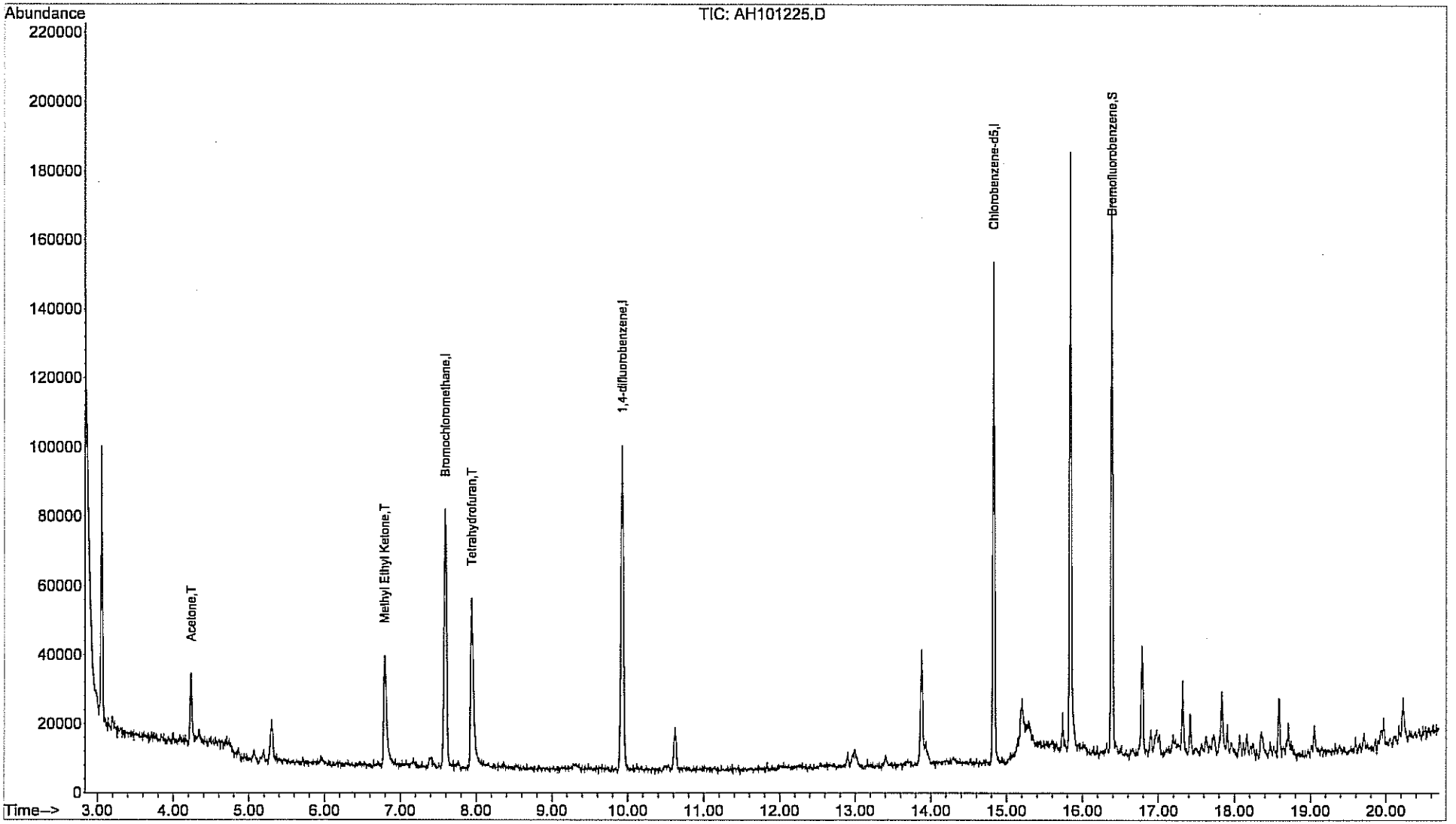
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	28180	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.92	114	108621	1.00	ppb	-0.07
44) Chlorobenzene-d5	14.83	117	85270	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	47085	1.23	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 123.00%			
Target Compounds						Qvalue
12) Acetone	4.23	58	6833	0.96	ppb	# 1
23) Methyl Ethyl Ketone	6.79	43	54098	1.07	ppb	# 42
28) Tetrahydrofuran	7.94	42	35796m	2.28	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

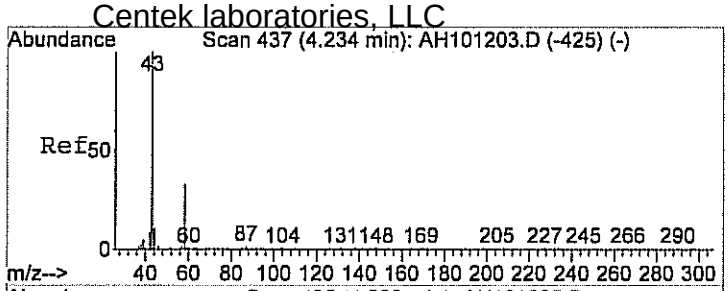
Quantitation Report (QT Reviewed)

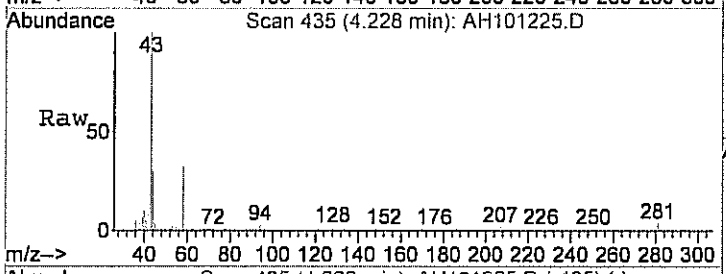
Data File : C:\HPCHEM\1\DATA\AH101225.D Vial: 11
Acq On : 12 Oct 2010 11:38 pm Operator: RJP
Sample : C1010018-006A 40x Inst : MSD #1
Misc : C1010018-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:29 2010 Quant Results File: A928_1UT.RES

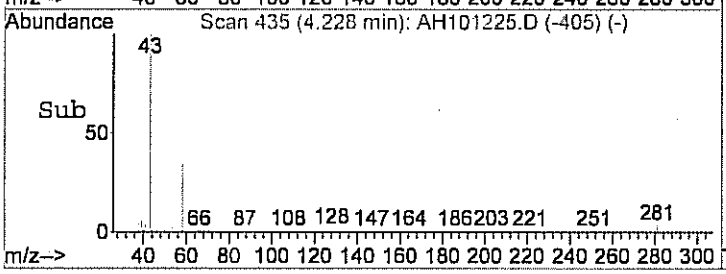
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Centek laboratories, LLC



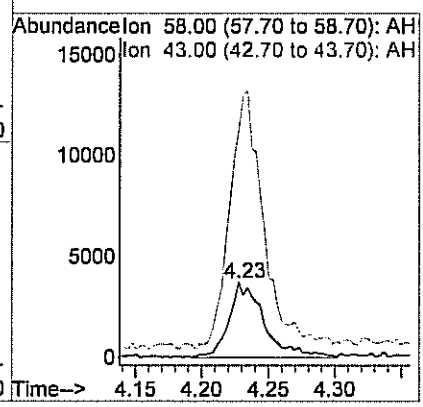


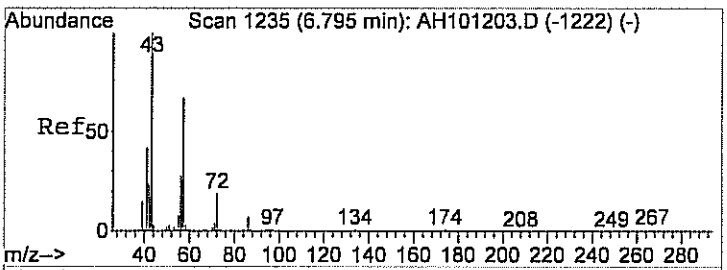


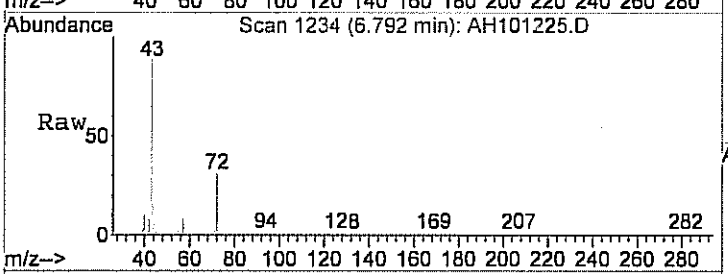
#12
Acetone
Concen: 0.96 ppb
RT: 4.23 min Scan# 435
Delta R.T. -0.05 min
Lab File: AH101225.D
Acq: 12 Oct 2010 11:38 pm

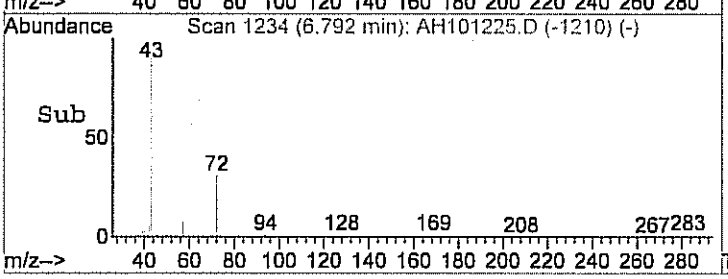
Tgt Ion: 58 Resp: 6833

Ion	Ratio	Lower	Upper
58	100		
43	341.1	37.6	97.6#





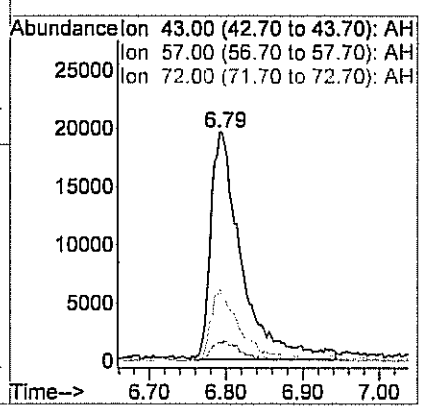


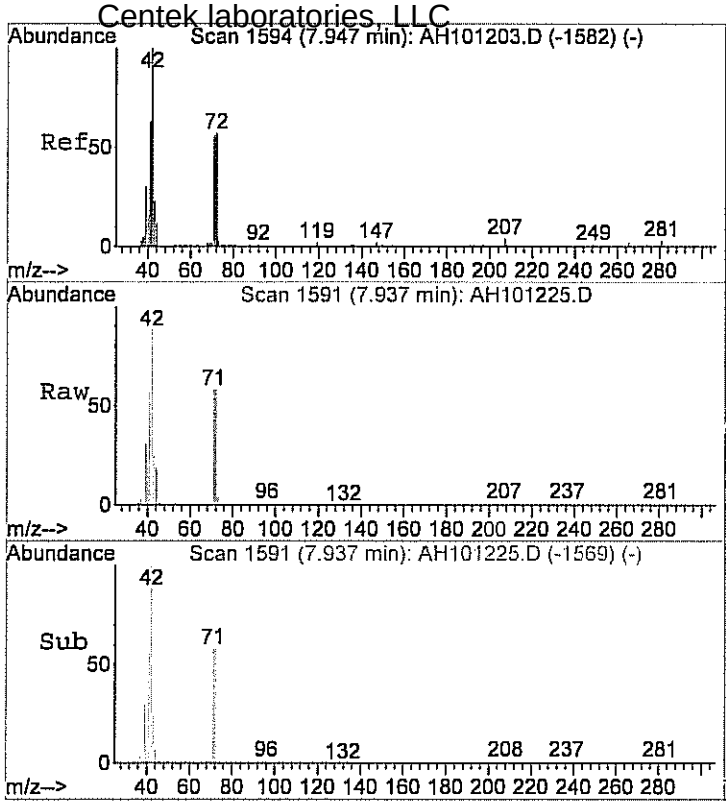


#23
Methyl Ethyl Ketone
Concen: 1.07 ppb
RT: 6.79 min Scan# 1234
Delta R.T. -0.07 min
Lab File: AH101225.D
Acq: 12 Oct 2010 11:38 pm

Tgt Ion: 43 Resp: 54098

Ion	Ratio	Lower	Upper
43	100		
57	8.9	40.7	80.7#
72	30.3	0.0	39.3

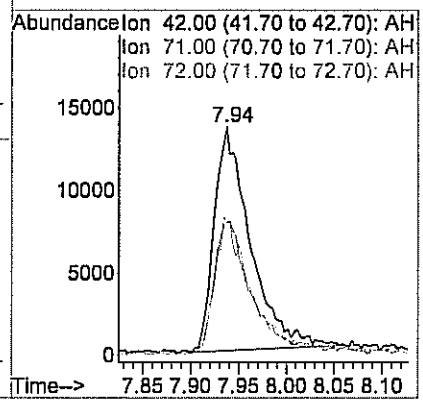




#28
Tetrahydrofuran
Concen: 2.28 ppb m
RT: 7.94 min Scan# 1591
Delta R.T. -0.08 min
Lab File: AH101225.D
Acq: 12 Oct 2010 11:38 pm

Tgt Ion: 42 Resp: 35796

Ion	Ratio	Lower	Upper
42	100		
71	67.2	38.8	78.8
72	63.1	32.5	72.5



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	10/13/2010 1:38:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/13/2010 1:38:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/13/2010 1:38:00 PM
Surr: Bromofluorobenzene	128	70-130		%REC	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 1:38:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/13/2010 1:38:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/13/2010 1:38:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/13/2010 1:38:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/13/2010 1:38:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/13/2010 1:38:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/13/2010 1:38:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/13/2010 1:38:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/13/2010 1:38:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/13/2010 1:38:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/13/2010 1:38:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/13/2010 1:38:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/13/2010 1:38:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/13/2010 1:38:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/13/2010 1:38:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/13/2010 1:38:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/13/2010 1:38:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 1:38:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/13/2010 1:38:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/13/2010 1:38:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/13/2010 1:38:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/13/2010 1:38:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	TRIP BLANK
Lab Order:	C1010018	**Tag Number:**	
Project:	B785 SSVM Sampling	**Collection Date:**	10/6/2010
Lab ID:	C1010018-007A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/13/2010 1:38:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	10/13/2010 1:38:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/13/2010 1:38:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/13/2010 1:38:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/13/2010 1:38:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/13/2010 1:38:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/13/2010 1:38:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/13/2010 1:38:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/13/2010 1:38:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/13/2010 1:38:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/13/2010 1:38:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/13/2010 1:38:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/13/2010 1:38:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/13/2010 1:38:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/13/2010 1:38:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/13/2010 1:38:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/13/2010 1:38:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/13/2010 1:38:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/13/2010 1:38:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/13/2010 1:38:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101305.D Vial: 5
Acq On : 13 Oct 2010 1:38 pm Operator: RJP
Sample : C1010018-007A Inst : MSD #1
Misc : C1010018-007A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 13:59:20 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	21958	1.00	ppb	-0.07
30) 1,4-difluorobenzene	9.93	114	79190	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	71770	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	41282	1.28	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

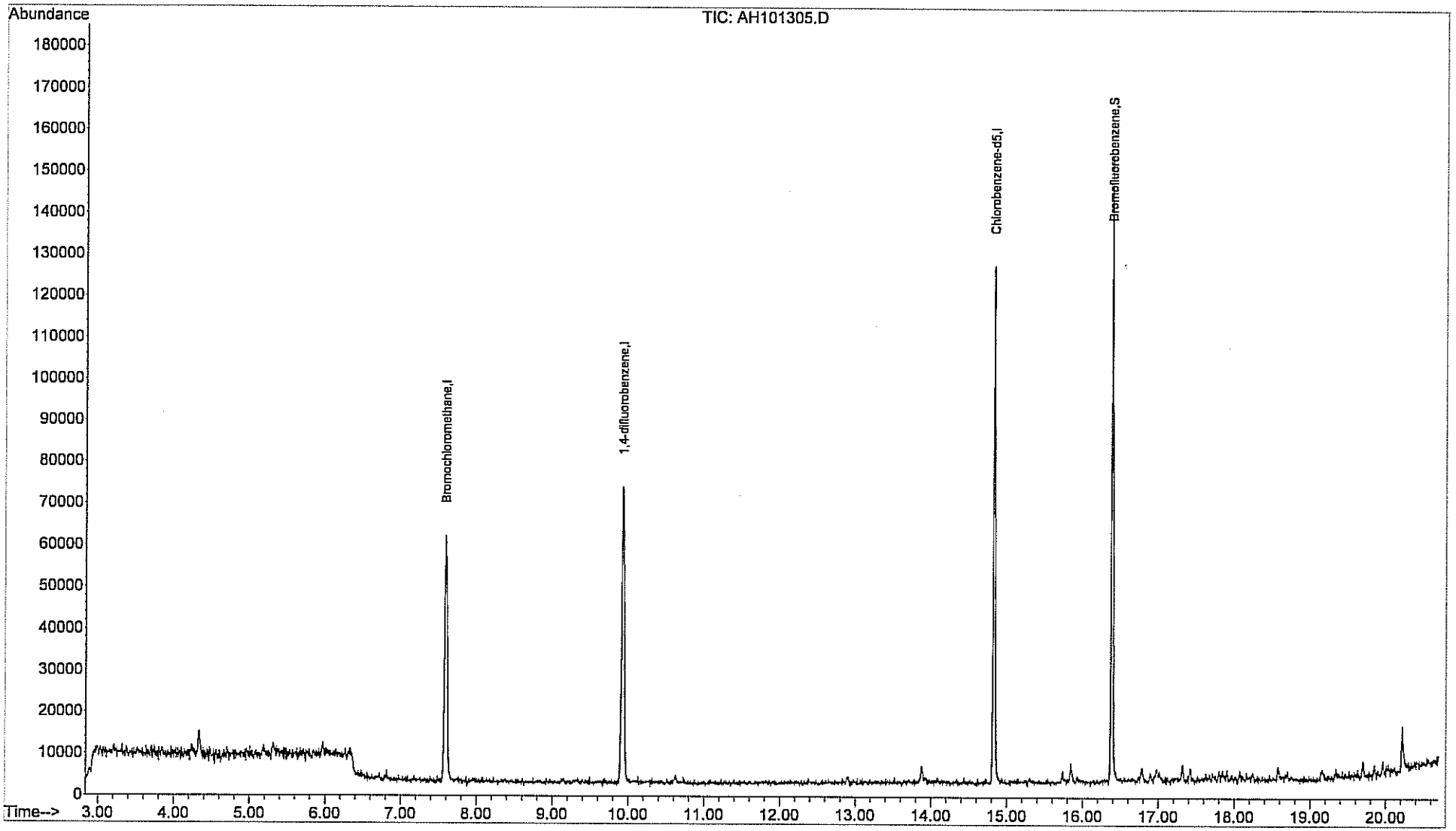
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101305.D
Acq On : 13 Oct 2010 1:38 pm
Sample : C1010018-007A
Misc : C1010018-007A
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:00 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration

Calibration Files
0.02 =AH092821.D 0.04 =AH092820.D 0.10 =AH092811.D
0.15 =AH092817.D 0.30 =AH092808.D 0.50 =AH092807.D

		Compound	0.02	0.04	0.10	0.15	0.30	0.50	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene				0.773	0.491	0.523	0.554	16.52
3)	T	Freon 12				5.148	4.046	4.056	4.152	9.88
4)	T	Chloromethane				1.013	0.819	0.796	0.821	10.43
5)	T	Freon 114				2.515	2.055	2.011	2.082	8.97
6)	T	Vinyl Chloride		0.984	0.676	0.826	0.655	0.627	0.707	15.96
7)	T	1,3-butadiene				0.588	0.550	0.498	0.474	13.67
8)	T	Bromomethane				0.930	0.721	0.712	0.723	11.90
9)	T	Chloroethane				0.397	0.290	0.268	0.290	15.27
10)	T	Vinyl Bromide				0.815	0.661	0.645	0.673	9.12
11)	T	Freon 11				2.366	1.936	1.900	1.982	8.46
12)	T	Acetone				0.289	0.275	0.245	0.254	7.89
13)	T	Isopropyl alcoh				0.490	0.376	0.342	0.412	10.86
14)	T	1,1-dichloroeth				0.826	0.677	0.633	0.677	9.66
15)	T	Freon 113				1.763	1.438	2.766	1.643	28.55
16)	T	Methylene chlor				0.771	0.553	1.098	0.658	29.27
17)	T	Allyl chloride				0.622	0.470	0.562	0.517	10.71
18)	T	Carbon disulfid				2.041	1.324	2.270	1.553	24.54
19)	T	trans-1,2-dichl				1.564	1.446	1.341	1.347	19.64
20)	T	methyl tert-but				0.749	0.943	0.950	0.979	29.23
21)	T	1,1-dichloroeth				1.857	1.630	1.644	1.795	7.23
22)	T	Vinyl acetate				0.942	0.973	0.820	1.077	15.53
23)	T	Methyl Ethyl Ke					1.753	1.258	1.787	14.22
24)	T	cis-1,2-dichlor				1.621	1.345	1.221	1.395	8.70
25)	T	Hexane				0.994	0.821	0.727	0.867	9.69
26)	T	Ethyl acetate					1.154	0.776	1.201	16.89
27)	T	Chloroform				3.326	2.698	2.705	2.897	7.22
28)	T	Tetrahydrofuran					0.537	0.408	0.557	15.46
29)	T	1,2-dichloroeth				2.157	1.705	1.694	1.814	8.39
30)	I	1,4-difluorobenzene	----------ISTD----------							
31)	T	1,1,1-trichloro				0.626	0.583	0.581	0.641	7.81
32)	T	Cyclohexane				0.347	0.291	0.296	0.340	10.15
33)	T	Carbon tetrachl		1.075	0.781	1.029	0.860	0.872	0.911	9.68
34)	T	Benzene				1.168	0.990	0.946	1.040	6.84
35)	T	1,4-dioxane					0.093	0.066	0.105	21.70
36)	T	2,2,4-trimethyl				1.034	0.879	0.869	0.952	7.14
37)	T	Heptane				0.315	0.274	0.251	0.292	8.40
38)	T	Trichloroethene	0.776	0.896	0.592	0.757	0.616	0.596	0.659	15.65
39)	T	1,2-dichloropro				0.322	0.284	0.280	0.309	6.48
40)	T	Bromodichlorome				0.944	0.787	0.783	0.840	6.88
41)	T	cis-1,3-dichlor				0.246	0.224	0.221	0.275	17.44
42)	T	trans-1,3-dichl				0.200	0.174	0.162	0.204	14.54
43)	T	1,1,2-trichloro				0.563	0.504	0.463	0.501	6.06
44)	I	Chlorobenzene-d5	----------ISTD----------							
45)	T	Toluene				0.817	0.618	0.584	0.710	12.38
46)	T	Methyl Isobutyl					0.236	0.191	0.257	17.46
47)	T	Dibromochlorome				1.327	0.975	0.978	1.068	11.30
48)	T	Methyl Butyl Ke				0.350	0.208	0.149	0.228	28.97
49)	T	1,2-dibromoetha				0.958	0.747	0.719	0.797	9.27
50)	T	Tetrachloroethy			0.771	1.142	0.777	0.754	0.804	16.00
51)	T	Chlorobenzene				1.441	1.041	0.979	1.131	12.28
52)	T	Ethylbenzene				1.254	1.009	0.911	1.226	16.35
53)	T	m&p-xylene				0.817	0.761	0.704	0.999	21.57
54)	T	Styrene				0.431	0.418	0.377	0.533	22.01
55)	T	Bromoform				1.063	0.877	0.836	0.994	9.78

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration

Calibration Files
0.02 =AH092821.D 0.04 =AH092820.D 0.10 =AH092811.D
0.15 =AH092817.D 0.30 =AH092808.D 0.50 =AH092807.D

		Compound	0.02	0.04	0.10	0.15	0.30	0.50	Avg	%RSD
56)	T	o-xylene				1.072	0.809	0.741	1.105	21.09
57)	S	Bromofluorobenz	0.368	0.362	0.434	0.314	0.467	0.481	0.448	15.62
58)	T	1,1,2,2-tetrach				0.731	0.756	0.666	0.758	5.67
59)	T	4-ethyltoluene				0.673	0.748	0.701	0.917	24.78
60)	T	1,3,5-trimethyl				0.503	0.582	0.576	0.789	28.71
61)	T	1,2,4-trimethyl				0.520	0.463	0.445	0.569	21.51
62)	T	1,3-dichloroben				0.593	0.593	0.577	0.665	10.47
63)	T	benzyl chloride				0.310	0.309	0.245	0.302	11.16
64)	T	1,4-dichloroben				0.532	0.534	0.556	0.641	14.44
65)	T	1,2-dichloroben				0.445	0.524	0.505	0.564	12.35
66)	T	1,2,4-trichloro				0.144	0.187	0.143	0.174	12.29
67)	T	Hexachloro-1,3-				0.289	0.488	0.384	0.395	13.92

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092802.D Vial: 1
Acq On : 28 Sep 2010 12:35 pm Operator: RJP
Sample : AlUG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:47:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	39224	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.99	114	127146	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	112123	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	55481	0.96	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	44769	2.27	ppb		93
3) Freon 12	2.95	85	326666	2.11	ppb		100
4) Chloromethane	3.09	50	65691	2.24	ppb		97
5) Freon 114	3.10	85	168063	2.20	ppb		99
6) Vinyl Chloride	3.23	62	54519	2.19	ppb		96
7) 1,3-butadiene	3.30	39	34844	2.05	ppb		94
8) Bromomethane	3.55	94	54927	2.01	ppb		95
9) Chloroethane	3.68	64	22269	2.17	ppb		99
10) Vinyl Bromide	3.92	106	55066	2.20	ppb		100
11) Freon 11	4.13	101	160044	2.15	ppb		99
12) Acetone	4.28	58	19395	2.10	ppb	#	1
13) Isopropyl alcohol	4.38	45	34338	2.09	ppb		99
14) 1,1-dichloroethene	4.73	96	55172	2.23	ppb		99
15) Freon 113	4.90	101	117454	2.08	ppb		99
16) Methylene chloride	5.13	84	45566	2.08	ppb		91
17) Allyl chloride	5.11	41	41130	2.05	ppb		98
18) Carbon disulfide	5.25	76	115674	2.23	ppb		98
19) trans-1,2-dichloroethene	5.96	61	124849	3.67	ppb		99
20) methyl tert-butyl ether	6.02	73	109868	5.69	ppb		85
21) 1,1-dichloroethane	6.36	63	157879	2.27	ppb		99
22) Vinyl acetate	6.38	43	104706	2.32	ppb		99
23) Methyl Ethyl Ketone	6.86	43	161532	2.23	ppb		96
24) cis-1,2-dichloroethene	7.23	61	118499	2.16	ppb		99
25) Hexane	6.88	41	76027	2.25	ppb		96
26) Ethyl acetate	7.45	43	109202	2.17	ppb		99
27) Chloroform	7.83	83	238891	2.16	ppb		100
28) Tetrahydrofuran	8.01	42	54341	2.44	ppb		96
29) 1,2-dichloroethane	8.90	62	148185	2.14	ppb		100
31) 1,1,1-trichloroethane	8.61	97	185108	2.29	ppb		98
32) Cyclohexane	9.30	56	100662	2.36	ppb		96
33) Carbon tetrachloride	9.24	117	244408	2.24	ppb		99
34) Benzene	9.21	78	283607	2.18	ppb		97
35) 1,4-dioxane	11.04	88	34842	2.46	ppb		100
36) 2,2,4-trimethylpentane	10.18	57	269788	2.31	ppb		98
37) Heptane	10.60	43	84280	2.27	ppb		97
38) Trichloroethene	10.69	130	160025	2.11	ppb		98
39) 1,2-dichloropropane	10.82	63	85760	2.21	ppb		98
40) Bromodichloromethane	11.20	83	228716	2.21	ppb		97
41) cis-1,3-dichloropropene	12.11	75	90826	2.61	ppb		98
42) trans-1,3-dichloropropene	12.91	75	64586	2.48	ppb		97
43) 1,1,2-trichloroethane	13.22	97	131257	2.15	ppb		99
45) Toluene	12.95	92	185127	2.41	ppb		97
46) Methyl Isobutyl Ketone	12.07	43	75287m	2.64	ppb		
47) Dibromochloromethane	13.89	129	257505	2.30	ppb		99
48) Methyl Butyl Ketone	13.45	43	66490m	3.38	ppb		
49) 1,2-dibromoethane	14.13	107	186653	2.17	ppb		98
50) Tetrachloroethylene	13.98	164	175524	2.10	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092802.D Vial: 1
Acq On : 28 Sep 2010 12:35 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:47:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

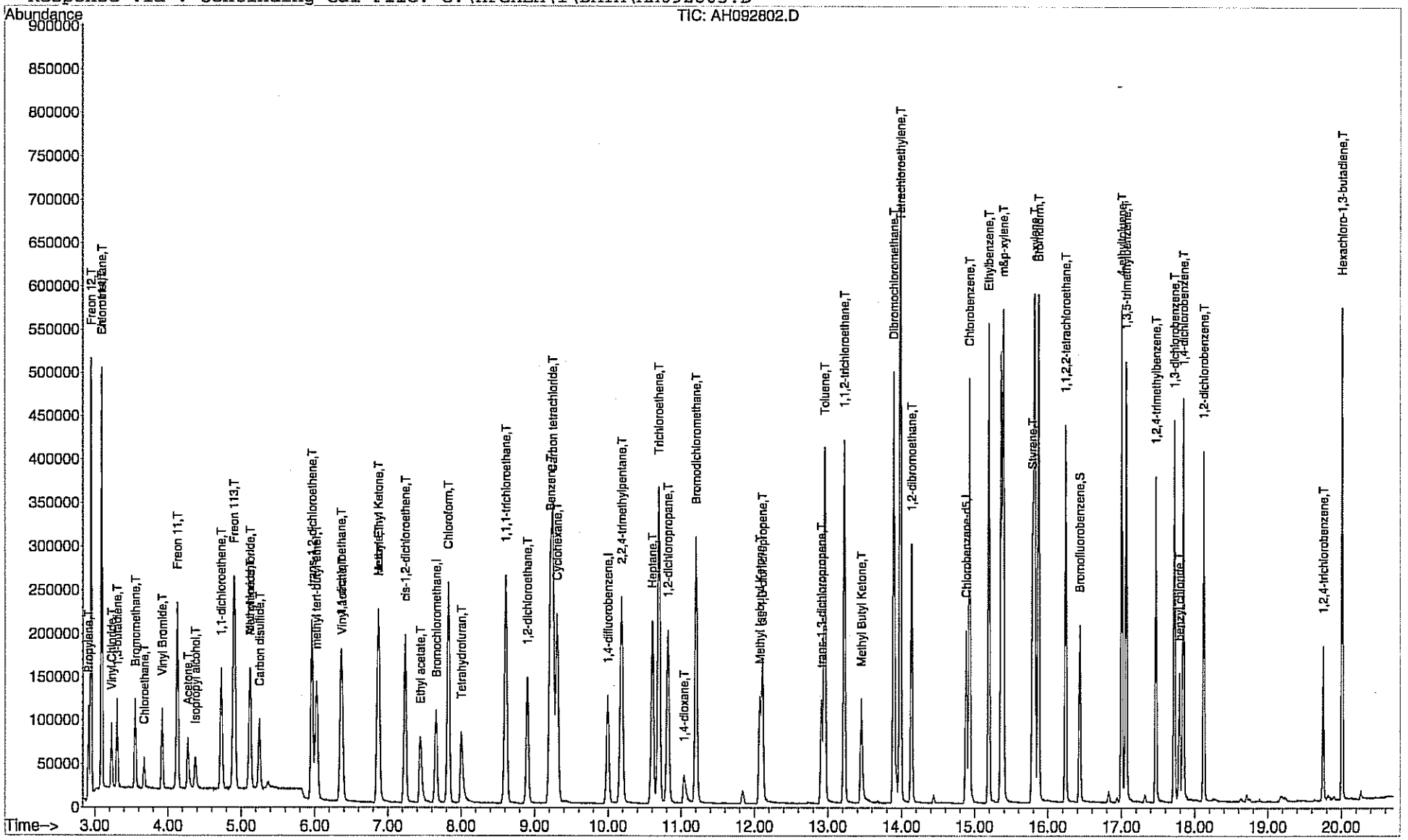
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.93	112	264363	2.15	ppb	99
52)	Ethylbenzene	15.19	91	342798	2.42	ppb	97
53)	m&p-xylene	15.39	91	576369	4.71	ppb	98
54)	Styrene	15.79	104	157854	2.43	ppb	97
55)	Bromoform	15.87	173	252082	2.26	ppb	98
56)	o-xylene	15.82	91	314802	2.34	ppb	98
58)	1,1,2,2-tetrachloroethane	16.24	83	174073	1.93	ppb	98
59)	4-ethyltoluene	17.00	105	295463	2.75	ppb	99
60)	1,3,5-trimethylbenzene	17.06	105	248870	2.47	ppb	99
61)	1,2,4-trimethylbenzene	17.47	105	180852	2.81	ppb	97
62)	1,3-dichlorobenzene	17.72	146	169957	2.16	ppb	99
63)	benzyl chloride	17.79	91	82285	2.52	ppb	99
64)	1,4-dichlorobenzene	17.84	146	172741	2.26	ppb	99
65)	1,2-dichlorobenzene	18.12	146	148392	2.21	ppb	99
66)	1,2,4-trichlorobenzene	19.75	180	46035	2.17	ppb	97
67)	Hexachloro-1,3-butadiene	20.01	225	90092	1.97	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092802.D Vial: 1
Acq On : 28 Sep 2010 12:35 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 16:14 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



AH092802.D A928_1UT.M Tue Oct 19 11:27:51 2010 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092803.D Vial: 2
Acq On : 28 Sep 2010 1:08 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:46:40 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	41913	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.99	114	132568	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	117356	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	59630	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	32870	1.56	ppb		96
3) Freon 12	2.95	85	250899	1.52	ppb		100
4) Chloromethane	3.09	50	49027	1.56	ppb		95
5) Freon 114	3.09	85	125405	1.54	ppb		99
6) Vinyl Chloride	3.23	62	41165	1.55	ppb		97
7) 1,3-butadiene	3.30	39	27548	1.52	ppb		98
8) Bromomethane	3.55	94	42334	1.45	ppb		97
9) Chloroethane	3.67	64	17338	1.58	ppb		98
10) Vinyl Bromide	3.92	106	40347	1.51	ppb		98
11) Freon 11	4.13	101	120547	1.52	ppb		100
12) Acetone	4.28	58	15618	1.59	ppb	#	1
13) Isopropyl alcohol	4.38	45	24669	1.41	ppb		96
14) 1,1-dichloroethene	4.73	96	40800	1.54	ppb		98
15) Freon 113	4.90	101	89663	1.49	ppb		100
16) Methylene chloride	5.12	84	36079	1.54	ppb		94
17) Allyl chloride	5.11	41	32744	1.52	ppb		94
18) Carbon disulfide	5.25	76	86767	1.56	ppb		98
19) trans-1,2-dichloroethene	5.96	61	92895	2.56	ppb		99
20) methyl tert-butyl ether	6.02	73	81467	3.95	ppb		84
21) 1,1-dichloroethane	6.35	63	120399	1.62	ppb		99
22) Vinyl acetate	6.38	43	77117	1.60	ppb		99
23) Methyl Ethyl Ketone	6.87	43	121814	1.57	ppb		100
24) cis-1,2-dichloroethene	7.23	61	86818	1.48	ppb		98
25) Hexane	6.87	41	55028	1.52	ppb		93
26) Ethyl acetate	7.45	43	83831	1.56	ppb		99
27) Chloroform	7.83	83	185725	1.57	ppb		100
28) Tetrahydrofuran	8.00	42	38108	1.60	ppb		98
29) 1,2-dichloroethane	8.90	62	113645	1.53	ppb		98
31) 1,1,1-trichloroethane	8.60	97	137309	1.63	ppb		98
32) Cyclohexane	9.31	56	72805	1.64	ppb		95
33) Carbon tetrachloride	9.25	117	182488	1.60	ppb		99
34) Benzene	9.21	78	208976	1.54	ppb		100
35) 1,4-dioxane	11.04	88	23772	1.61	ppb		98
36) 2,2,4-trimethylpentane	10.18	57	190245	1.56	ppb		98
37) Heptane	10.60	43	59796	1.55	ppb		97
38) Trichloroethene	10.69	130	120158	1.52	ppb		99
39) 1,2-dichloropropane	10.81	63	65325	1.61	ppb		100
40) Bromodichloromethane	11.20	83	172320	1.60	ppb		97
41) cis-1,3-dichloropropene	12.11	75	64508	1.78	ppb		98
42) trans-1,3-dichloropropene	12.91	75	45917	1.69	ppb		99
43) 1,1,2-trichloroethane	13.22	97	100551	1.58	ppb		98
45) Toluene	12.96	92	135332	1.69	ppb		97
46) Methyl Isobutyl Ketone	12.08	43	49294m	1.65	ppb		
47) Dibromochloromethane	13.90	129	191602	1.64	ppb		100
48) Methyl Butyl Ketone	13.45	43	41970m	2.04	ppb		
49) 1,2-dibromoethane	14.13	107	141770	1.57	ppb		98
50) Tetrachloroethylene	13.98	164	132122	1.51	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092803.D Vial: 2
Acq On : 28 Sep 2010 1:08 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:46:40 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.93	112	197589	1.54	ppb	100
52)	Ethylbenzene	15.19	91	246949	1.67	ppb	97
53)	m&p-xylene	15.39	91	422988	3.30	ppb	99
54)	Styrene	15.79	104	111608	1.64	ppb	96
55)	Bromoform	15.87	173	188721	1.62	ppb	98
56)	o-xylene	15.82	91	231192	1.64	ppb	99
58)	1,1,2,2-tetrachloroethane	16.24	83	137028	1.45	ppb	100
59)	4-ethyltoluene	17.00	105	197681	1.76	ppb	99
60)	1,3,5-trimethylbenzene	17.06	105	178340	1.69	ppb	98
61)	1,2,4-trimethylbenzene	17.47	105	118271	1.76	ppb	96
62)	1,3-dichlorobenzene	17.72	146	128723	1.56	ppb	99
63)	benzyl chloride	17.79	91	54412	1.59	ppb	99
64)	1,4-dichlorobenzene	17.84	146	129438	1.62	ppb	99
65)	1,2-dichlorobenzene	18.12	146	108953	1.55	ppb	99
66)	1,2,4-trichlorobenzene	19.75	180	30946	1.40	ppb	98
67)	Hexachloro-1,3-butadiene	20.01	225	68479	1.43	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

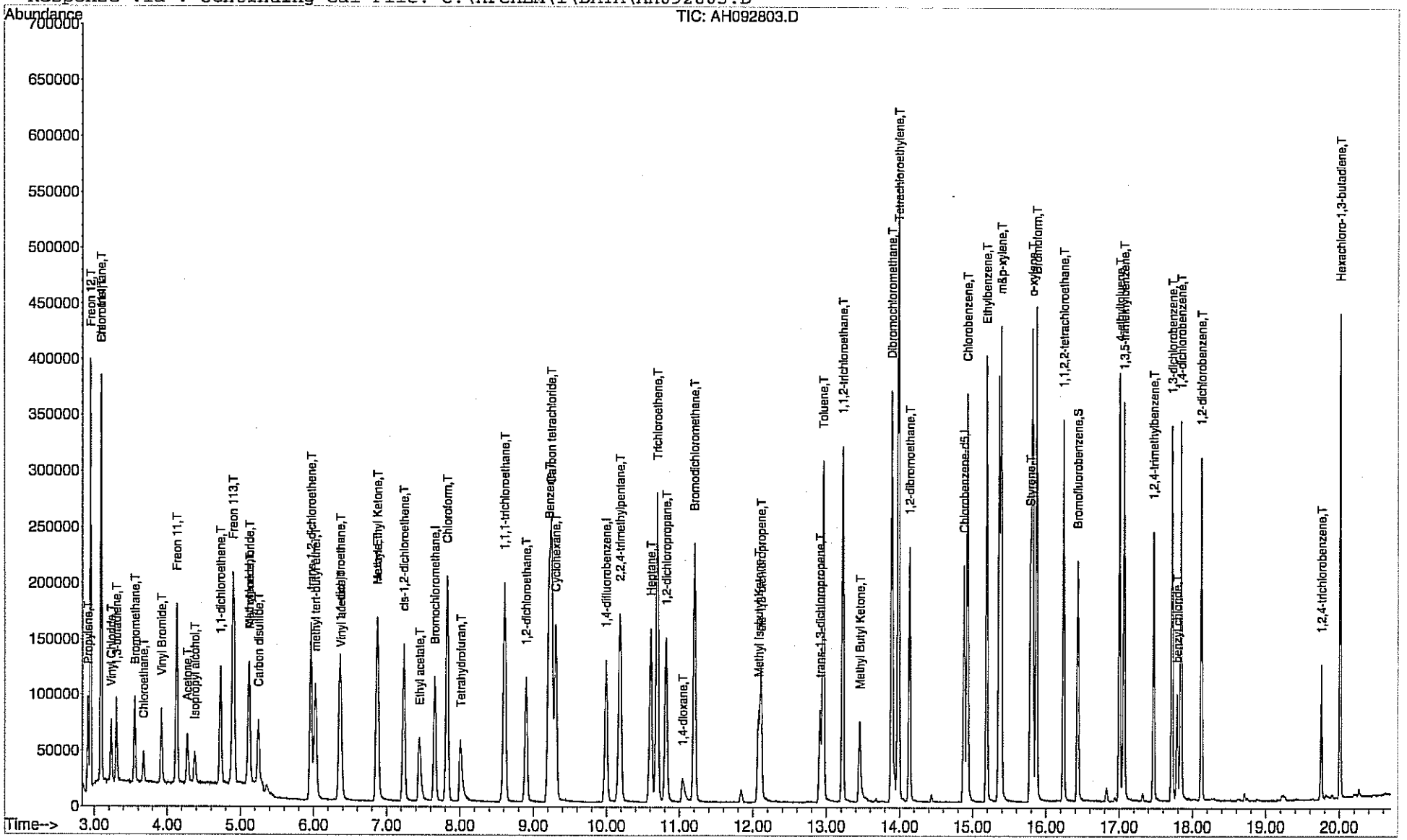
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092803.D
Acq On : 28 Sep 2010 1:08 pm
Sample : A1UG_1.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 28 16:15 2010

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092804.D Via1: 3
Acq On : 28 Sep 2010 1:39 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:46:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.65	128	43005	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.00	114	135477	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	121458	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	62859	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	27848	1.29	ppb		100
3) Freon 12	2.95	85	209890	1.24	ppb		99
4) Chloromethane	3.09	50	39778	1.24	ppb		95
5) Freon 114	3.09	85	104233	1.24	ppb		98
6) Vinyl Chloride	3.23	62	34872	1.28	ppb		95
7) 1,3-butadiene	3.30	39	22101	1.19	ppb		92
8) Bromomethane	3.55	94	35545	1.19	ppb		99
9) Chloroethane	3.67	64	14842	1.32	ppb		98
10) Vinyl Bromide	3.92	106	33792	1.23	ppb		99
11) Freon 11	4.13	101	97987	1.20	ppb		99
12) Acetone	4.28	58	13946	1.38	ppb	#	1
13) Isopropyl alcohol	4.38	45	21747	1.21	ppb		98
14) 1,1-dichloroethene	4.73	96	33874	1.25	ppb		99
15) Freon 113	4.90	101	73689	1.19	ppb		99
16) Methylene chloride	5.12	84	29362	1.22	ppb		93
17) Allyl chloride	5.11	41	25357	1.15	ppb		99
18) Carbon disulfide	5.25	76	69417	1.22	ppb		100
19) trans-1,2-dichloroethene	5.96	61	54629	1.47	ppb		92
20) methyl tert-butyl ether	6.02	73	55820	2.64	ppb		97
21) 1,1-dichloroethane	6.36	63	95275	1.25	ppb		99
22) Vinyl acetate	6.38	43	61260	1.24	ppb		98
23) Methyl Ethyl Ketone	6.86	43	100301	1.26	ppb		99
24) cis-1,2-dichloroethene	7.23	61	71480	1.19	ppb		100
25) Hexane	6.87	41	44876	1.21	ppb		91
26) Ethyl acetate	7.45	43	67111	1.21	ppb		98
27) Chloroform	7.83	83	150261	1.24	ppb		99
28) Tetrahydrofuran	8.01	42	29942	1.22	ppb		96
29) 1,2-dichloroethane	8.90	62	93161	1.23	ppb		99
31) 1,1,1-trichloroethane	8.61	97	110442	1.28	ppb		99
32) Cyclohexane	9.30	56	57240	1.26	ppb		98
33) Carbon tetrachloride	9.24	117	145384	1.25	ppb		100
34) Benzene	9.21	78	170644	1.23	ppb		99
35) 1,4-dioxane	11.06	88	18820	1.25	ppb		97
36) 2,2,4-trimethylpentane	10.18	57	158307	1.27	ppb		99
37) Heptane	10.60	43	49230	1.25	ppb		98
38) Trichloroethene	10.69	130	97631	1.21	ppb		100
39) 1,2-dichloropropane	10.81	63	52475	1.27	ppb		98
40) Bromodichloromethane	11.20	83	137557	1.25	ppb		95
41) cis-1,3-dichloropropene	12.11	75	49680	1.34	ppb		99
42) trans-1,3-dichloropropene	12.91	75	36073	1.30	ppb		99
43) 1,1,2-trichloroethane	13.22	97	81503	1.25	ppb		100
45) Toluene	12.96	92	105569	1.27	ppb		99
46) Methyl Isobutyl Ketone	12.08	43	40597	1.32	ppb		95
47) Dibromochloromethane	13.90	129	151316	1.25	ppb		100
48) Methyl Butyl Ketone	13.45	43	31307	1.47	ppb		93
49) 1,2-dibromoethane	14.13	107	114991	1.23	ppb		100
50) Tetrachloroethylene	13.98	164	109304	1.21	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092804.D Vial: 3
Acq On : 28 Sep 2010 1:39 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:46:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

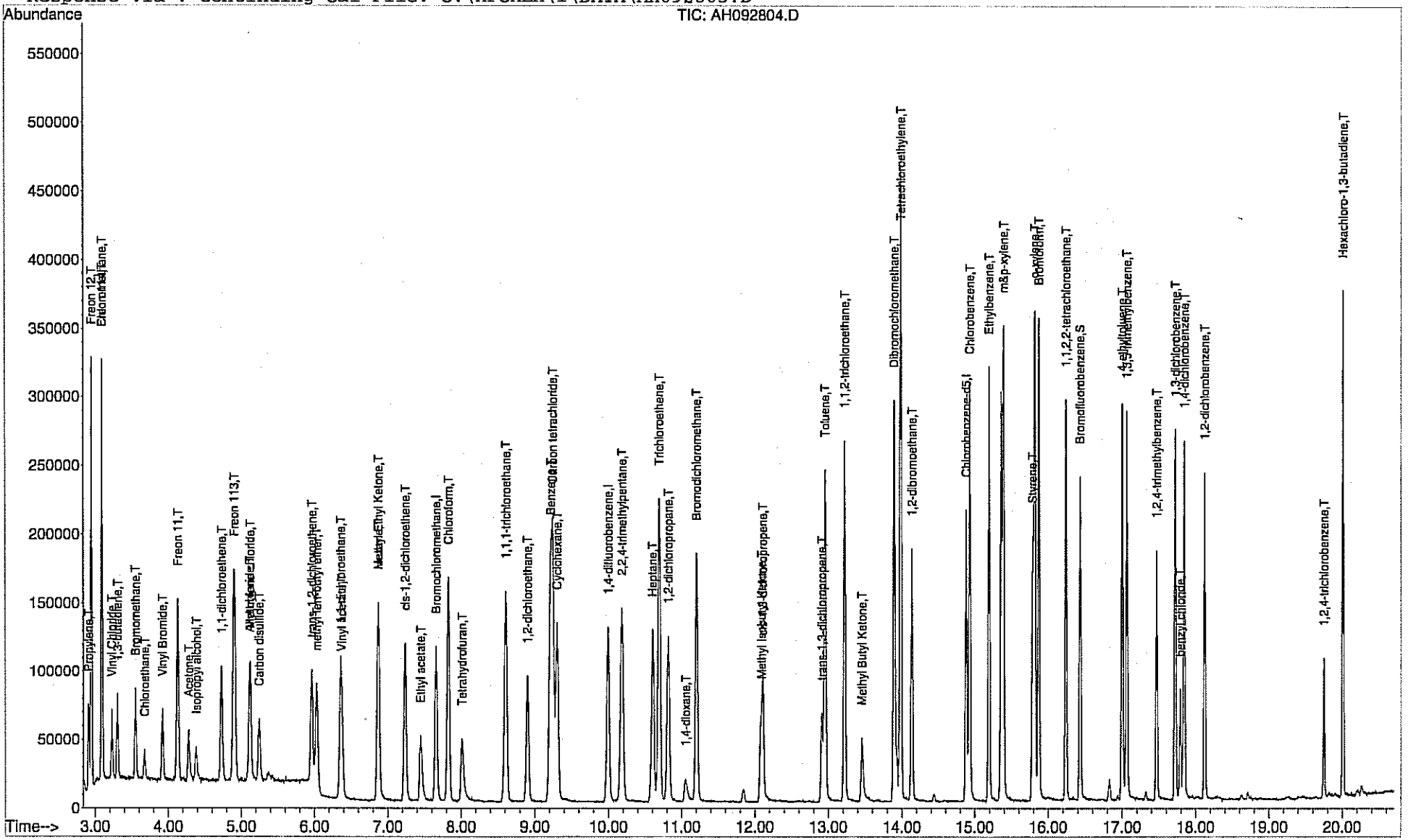
	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51)	Chlorobenzene	14.93	112	162664	1.22 ppb	98
52)	Ethylbenzene	15.19	91	195513	1.27 ppb	98
53)	m&p-xylene	15.39	91	342160	2.58 ppb	99
54)	Styrene	15.79	104	93096	1.33 ppb	95
55)	Bromoform	15.87	173	150990	1.25 ppb	99
56)	o-xylene	15.82	91	187248	1.29 ppb	98
58)	1,1,2,2-tetrachloroethane	16.24	83	118968	1.21 ppb	99
59)	4-ethyltoluene	17.00	105	153700	1.32 ppb	100
60)	1,3,5-trimethylbenzene	17.06	105	140344	1.29 ppb	98
61)	1,2,4-trimethylbenzene	17.47	105	90184	1.29 ppb	97
62)	1,3-dichlorobenzene	17.72	146	106542	1.25 ppb	98
63)	benzyl chloride	17.79	91	44245	1.25 ppb	99
64)	1,4-dichlorobenzene	17.84	146	103788	1.25 ppb	99
65)	1,2-dichlorobenzene	18.12	146	90354	1.24 ppb	99
66)	1,2,4-trichlorobenzene	19.75	180	25982	1.13 ppb	97
67)	Hexachloro-1,3-butadiene	20.01	225	57953	1.17 ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092804.D Vial: 3
Acq On : 28 Sep 2010 1:39 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:46 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092805.D Vial: 4
Acq On : 28 Sep 2010 2:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:45:35 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	43008	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.99	114	136607	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	120876	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	62491	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	21667	1.00	ppb		99
3) Freon 12	2.95	85	169376	1.00	ppb		99
4) Chloromethane	3.09	50	32173	1.00	ppb		97
5) Freon 114	3.09	85	83779	1.00	ppb		98
6) Vinyl Chloride	3.23	62	27338	1.00	ppb		96
7) 1,3-butadiene	3.30	39	18602	1.00	ppb		100
8) Bromomethane	3.55	94	29962	1.00	ppb		96
9) Chloroethane	3.68	64	11254	1.00	ppb		98
10) Vinyl Bromide	3.92	106	27503	1.00	ppb		99
11) Freon 11	4.13	101	81515	1.00	ppb		100
12) Acetone	4.28	58	10106	1.00	ppb	#	1
13) Isopropyl alcohol	4.38	45	17996	1.00	ppb		93
14) 1,1-dichloroethene	4.73	96	27186	1.00	ppb		98
15) Freon 113	4.90	101	61854	1.00	ppb		99
16) Methylene chloride	5.12	84	24004	1.00	ppb		92
17) Allyl chloride	5.11	41	22045	1.00	ppb		93
18) Carbon disulfide	5.24	76	56896	1.00	ppb		97
19) trans-1,2-dichloroethene	5.96	61	37280	1.00	ppb		89
20) methyl tert-butyl ether	6.03	73	21156	1.00	ppb	#	56
21) 1,1-dichloroethane	6.36	63	76304	1.00	ppb		100
22) Vinyl acetate	6.38	43	49470	1.00	ppb		100
23) Methyl Ethyl Ketone	6.87	43	79369	1.00	ppb		100
24) cis-1,2-dichloroethene	7.23	61	60015	1.00	ppb		98
25) Hexane	6.87	41	37123	1.00	ppb		98
26) Ethyl acetate	7.45	43	55265	1.00	ppb		99
27) Chloroform	7.82	83	121179	1.00	ppb		98
28) Tetrahydrofuran	8.02	42	24448	1.00	ppb		97
29) 1,2-dichloroethane	8.91	62	76047	1.00	ppb		100
31) 1,1,1-trichloroethane	8.60	97	86831	1.00	ppb		99
32) Cyclohexane	9.30	56	45834	1.00	ppb		97
33) Carbon tetrachloride	9.24	117	117422	1.00	ppb		99
34) Benzene	9.21	78	140013	1.00	ppb		95
35) 1,4-dioxane	11.06	88	15218	1.00	ppb		98
36) 2,2,4-trimethylpentane	10.19	57	125579	1.00	ppb		100
37) Heptane	10.60	43	39818	1.00	ppb		98
38) Trichloroethene	10.69	130	81459	1.00	ppb		99
39) 1,2-dichloropropane	10.81	63	41770	1.00	ppb		98
40) Bromodichloromethane	11.20	83	111177	1.00	ppb		95
41) cis-1,3-dichloropropene	12.11	75	37434	1.00	ppb		98
42) trans-1,3-dichloropropene	12.91	75	27935	1.00	ppb		98
43) 1,1,2-trichloroethane	13.22	97	65504	1.00	ppb		99
45) Toluene	12.96	92	82649	1.00	ppb		99
46) Methyl Isobutyl Ketone	12.08	43	30696	1.00	ppb		96
47) Dibromochloromethane	13.90	129	120481	1.00	ppb		99
48) Methyl Butyl Ketone	13.46	43	21238	1.00	ppb		90
49) 1,2-dibromoethane	14.14	107	92903	1.00	ppb		98
50) Tetrachloroethylene	13.98	164	90047	1.00	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092805.D Vial: 4
Acq On : 28 Sep 2010 2:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:45:35 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

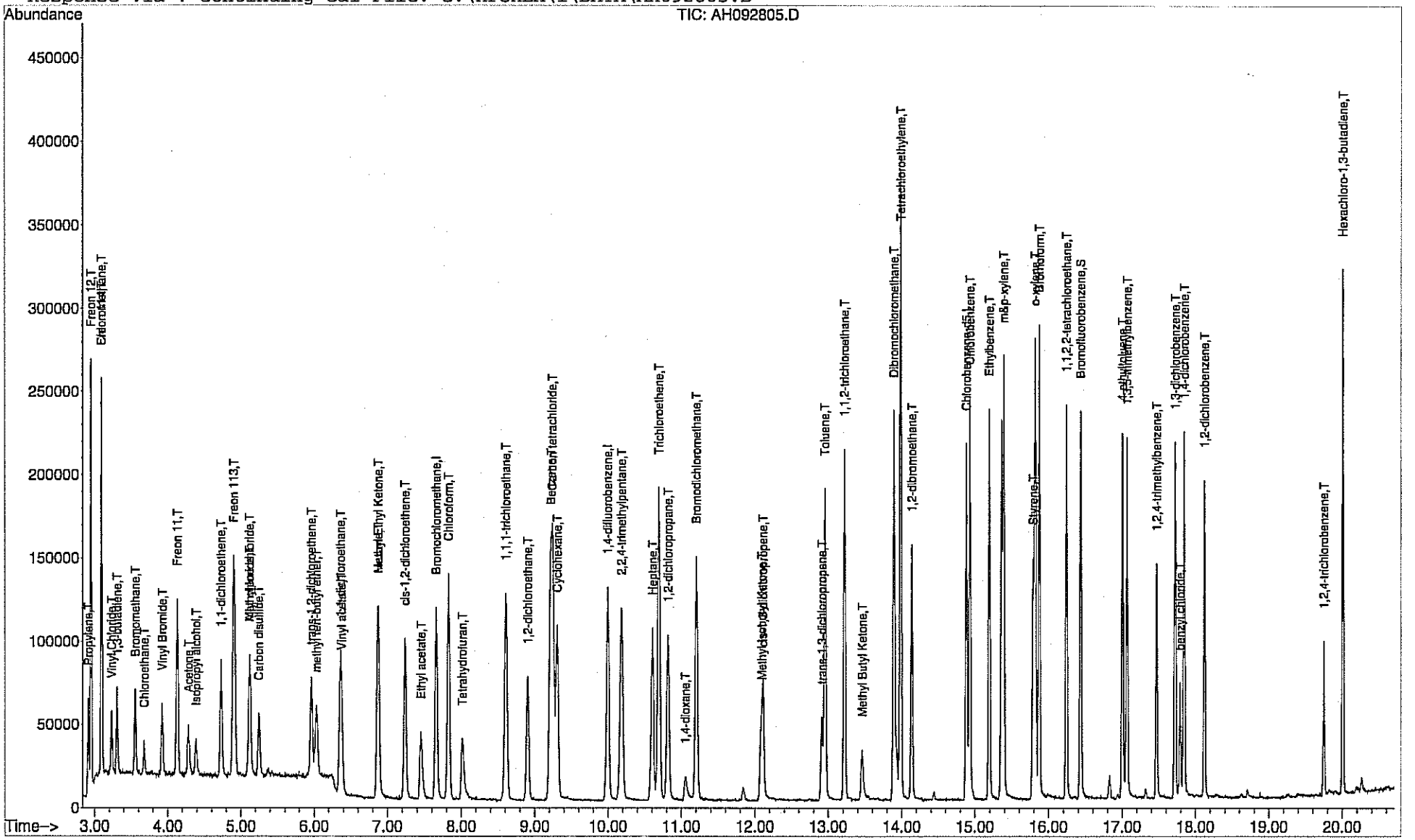
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.93	112	132474	1.00	ppb	98
52)	Ethylbenzene	15.19	91	152652	1.00	ppb	98
53)	m&p-xylene	15.39	91	264118	2.00	ppb	99
54)	Styrene	15.79	104	69922	1.00	ppb	97
55)	Bromoform	15.87	173	120083	1.00	ppb	98
56)	o-xylene	15.82	91	145013	1.00	ppb	99
58)	1,1,2,2-tetrachloroethane	16.24	83	97456	1.00	ppb	99
59)	4-ethyltoluene	17.00	105	115733	1.00	ppb	100
60)	1,3,5-trimethylbenzene	17.06	105	108518	1.00	ppb	98
61)	1,2,4-trimethylbenzene	17.47	105	69344	1.00	ppb	98
62)	1,3-dichlorobenzene	17.72	146	85000	1.00	ppb	99
63)	benzyl chloride	17.79	91	35195	1.00	ppb	99
64)	1,4-dichlorobenzene	17.84	146	82477	1.00	ppb	99
65)	1,2-dichlorobenzene	18.12	146	72401	1.00	ppb	98
66)	1,2,4-trichlorobenzene	19.75	180	22825	1.00	ppb	95
67)	Hexachloro-1,3-butadiene	20.01	225	49271	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092805.D Vial: 4
Acq On : 28 Sep 2010 2:10 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:45 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092806.D
Acq On : 28 Sep 2010 2:42 pm
Sample : A1UG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:47:39 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	40908	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.99	114	124956	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	106143	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	49299	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	16228	0.79	ppb		97
3) Freon 12	2.95	85	121712	0.76	ppb		100
4) Chloromethane	3.09	50	25610	0.84	ppb		97
5) Freon 114	3.09	85	62911	0.79	ppb		98
6) Vinyl Chloride	3.23	62	20307	0.78	ppb		100
7) 1,3-butadiene	3.30	39	13142	0.74	ppb		99
8) Bromomethane	3.55	94	21078	0.74	ppb		96
9) Chloroethane	3.67	64	8225	0.77	ppb		95
10) Vinyl Bromide	3.92	106	19985	0.76	ppb		98
11) Freon 11	4.13	101	60722	0.78	ppb		98
12) Acetone	4.28	58	7043	0.73	ppb	#	1
13) Isopropyl alcohol	4.38	45	13298	0.78	ppb	#	28
14) 1,1-dichloroethene	4.73	96	20405	0.79	ppb		99
15) Freon 113	4.90	101	44418	0.75	ppb		98
16) Methylene chloride	5.12	84	17754	0.78	ppb		91
17) Allyl chloride	5.11	41	13903	0.66	ppb		98
18) Carbon disulfide	5.25	76	40494	0.75	ppb		93
19) trans-1,2-dichloroethene	5.96	61	45259	1.28	ppb		100
20) methyl tert-butyl ether	6.02	73	29655	1.47	ppb		90
21) 1,1-dichloroethane	6.36	63	53805	0.74	ppb		99
22) Vinyl acetate	6.38	43	31503	0.67	ppb		100
23) Methyl Ethyl Ketone	6.87	43	54896	0.73	ppb		100
24) cis-1,2-dichloroethene	7.23	61	41539	0.73	ppb		99
25) Hexane	6.87	41	26175	0.74	ppb		100
26) Ethyl acetate	7.45	43	37447	0.71	ppb		98
27) Chloroform	7.82	83	86999	0.75	ppb		99
28) Tetrahydrofuran	8.01	42	16167	0.70	ppb		98
29) 1,2-dichloroethane	8.90	62	53803	0.74	ppb		99
31) 1,1,1-trichloroethane	8.60	97	58876	0.74	ppb		97
32) Cyclohexane	9.30	56	32544	0.78	ppb		95
33) Carbon tetrachloride	9.24	117	83984	0.78	ppb		99
34) Benzene	9.21	78	95347	0.74	ppb		94
35) 1,4-dioxane	11.06	88	8711	0.63	ppb		96
36) 2,2,4-trimethylpentane	10.19	57	90531	0.79	ppb		98
37) Heptane	10.60	43	26564	0.73	ppb		97
38) Trichloroethene	10.69	130	57656	0.77	ppb		98
39) 1,2-dichloropropane	10.82	63	28626	0.75	ppb		99
40) Bromodichloromethane	11.21	83	76106	0.75	ppb		96
41) cis-1,3-dichloropropene	12.11	75	24464	0.71	ppb		98
42) trans-1,3-dichloropropene	12.91	75	17814	0.70	ppb		97
43) 1,1,2-trichloroethane	13.22	97	46095	0.77	ppb		100
45) Toluene	12.95	92	54719	0.75	ppb		99
46) Methyl Isobutyl Ketone	12.08	43	18836	0.70	ppb		99
47) Dibromochloromethane	13.89	129	82265	0.78	ppb		98
48) Methyl Butyl Ketone	13.46	43	15700	0.84	ppb		96
49) 1,2-dibromoethane	14.13	107	62605	0.77	ppb		98
50) Tetrachloroethylene	13.98	164	63475	0.80	ppb		100

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092806.D Vial: 5
Acq On : 28 Sep 2010 2:42 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:47:39 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

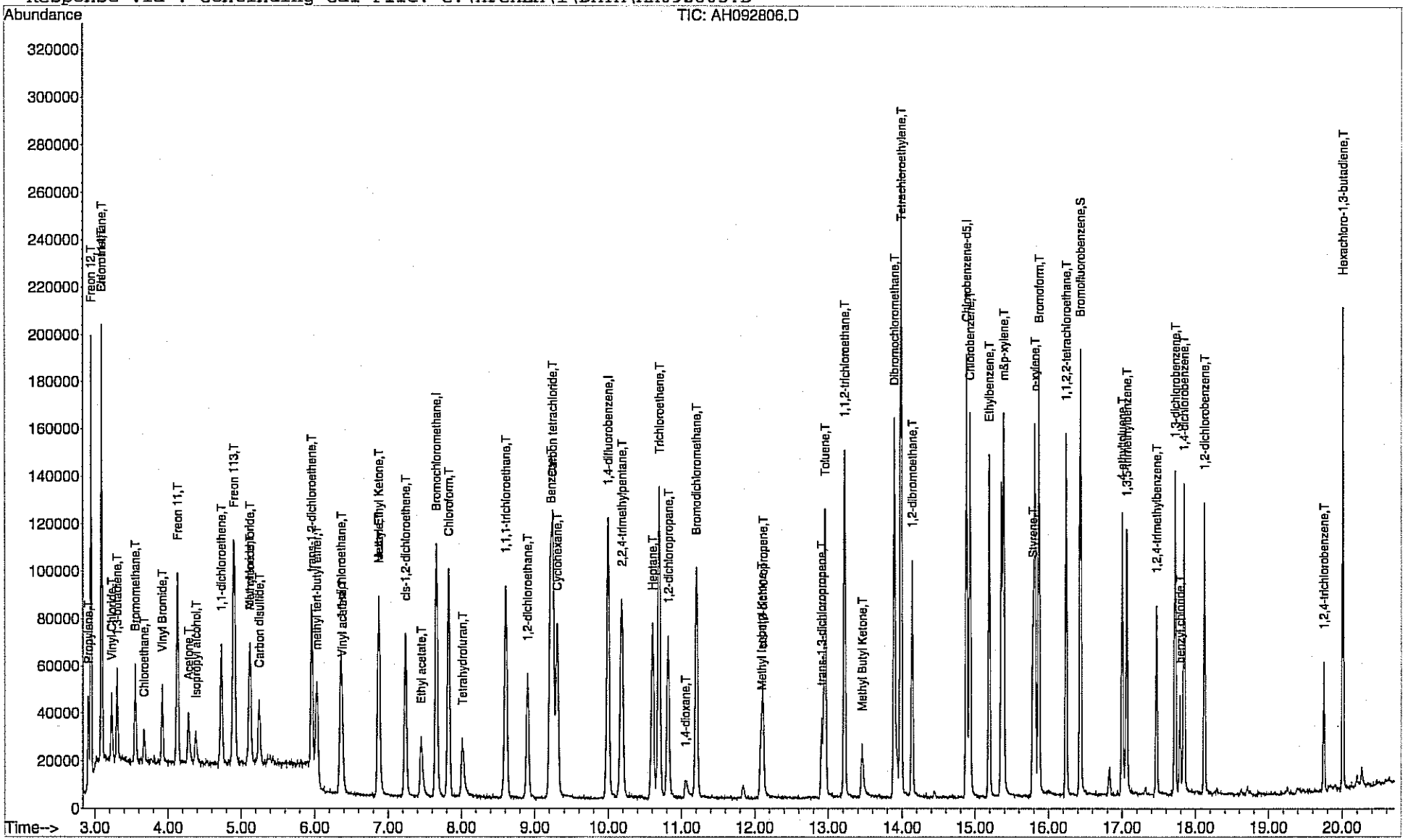
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.93	112	89128	0.77	ppb	98
52)	Ethylbenzene	15.19	91	91492	0.68	ppb	98
53)	m&p-xylene	15.39	91	159444	1.38	ppb	100
54)	Styrene	15.79	104	40741	0.66	ppb	98
55)	Bromoform	15.87	173	79002	0.75	ppb	97
56)	o-xylene	15.82	91	85252	0.67	ppb	100
58)	1,1,2,2-tetrachloroethane	16.24	83	60918	0.71	ppb	99
59)	4-ethyltoluene	17.00	105	63927	0.63	ppb	100
60)	1,3,5-trimethylbenzene	17.06	105	56525	0.59	ppb	99
61)	1,2,4-trimethylbenzene	17.47	105	38090	0.63	ppb	95
62)	1,3-dichlorobenzene	17.72	146	52606	0.70	ppb	100
63)	benzyl chloride	17.79	91	23307	0.75	ppb	96
64)	1,4-dichlorobenzene	17.84	146	50376	0.70	ppb	99
65)	1,2-dichlorobenzene	18.12	146	44820	0.70	ppb	100
66)	1,2,4-trichlorobenzene	19.75	180	14020	0.70	ppb	96
67)	Hexachloro-1,3-butadiene	20.01	225	33277	0.77	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092806.D A928_1UT.M Tue Oct 19 11:27:59 2010 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092806.D Vial: 5
Acq On : 28 Sep 2010 2:42 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:47 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092807.D Vial: 6
Acq On : 28 Sep 2010 3:13 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:48:05 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	40655	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.99	114	119127	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	100934	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	48551	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	10635	0.52	ppb		91
3) Freon 12	2.95	85	82450	0.51	ppb		99
4) Chloromethane	3.09	50	16190	0.53	ppb		98
5) Freon 114	3.09	85	40870	0.52	ppb		100
6) Vinyl Chloride	3.23	62	12749	0.49	ppb		99
7) 1,3-butadiene	3.31	39	10118	0.58	ppb		80
8) Bromomethane	3.55	94	14479	0.51	ppb		99
9) Chloroethane	3.67	64	5444	0.51	ppb		88
10) Vinyl Bromide	3.92	106	13105	0.50	ppb		100
11) Freon 11	4.13	101	38619	0.50	ppb		97
12) Acetone	4.29	58	4983	0.52	ppb	#	1
13) Isopropyl alcohol	4.39	45	6949	0.41	ppb		81
14) 1,1-dichloroethene	4.73	96	12874	0.50	ppb		97
15) Freon 113	4.91	101	56228	0.96	ppb		95
16) Methylene chloride	5.13	84	22325	0.98	ppb	#	83
17) Allyl chloride	5.11	41	11432	0.55	ppb		88
18) Carbon disulfide	5.25	76	46141m	0.86	ppb		
19) trans-1,2-dichloroethene	5.96	61	27259	0.77	ppb		99
20) methyl tert-butyl ether	6.04	73	19312	0.97	ppb		95
21) 1,1-dichloroethane	6.36	63	33428	0.46	ppb		100
22) Vinyl acetate	6.39	43	16677	0.36	ppb		100
23) Methyl Ethyl Ketone	6.87	43	25566	0.34	ppb		91
24) cis-1,2-dichloroethene	7.23	61	24827	0.44	ppb		98
25) Hexane	6.87	41	14785	0.42	ppb	#	83
26) Ethyl acetate	7.47	43	15766	0.30	ppb		93
27) Chloroform	7.82	83	54986	0.48	ppb		97
28) Tetrahydrofuran	8.03	42	8297	0.36	ppb		98
29) 1,2-dichloroethane	8.90	62	34444	0.48	ppb		99
31) 1,1,1-trichloroethane	8.60	97	34596	0.46	ppb		96
32) Cyclohexane	9.31	56	17624	0.44	ppb		96
33) Carbon tetrachloride	9.25	117	51924	0.51	ppb		98
34) Benzene	9.21	78	56319	0.46	ppb		99
35) 1,4-dioxane	11.08	88	3955	0.30	ppb		93
36) 2,2,4-trimethylpentane	10.19	57	51777	0.47	ppb		97
37) Heptane	10.60	43	14968	0.43	ppb		97
38) Trichloroethene	10.70	130	35472	0.50	ppb		97
39) 1,2-dichloropropane	10.82	63	16685	0.46	ppb		93
40) Bromodichloromethane	11.20	83	46623	0.48	ppb		97
41) cis-1,3-dichloropropene	12.11	75	13157	0.40	ppb		97
42) trans-1,3-dichloropropene	12.91	75	9659	0.40	ppb		97
43) 1,1,2-trichloroethane	13.22	97	27602	0.48	ppb		98
45) Toluene	12.95	92	29477	0.43	ppb		97
46) Methyl Isobutyl Ketone	12.09	43	9626	0.38	ppb		94
47) Dibromochloromethane	13.90	129	49378	0.49	ppb		100
48) Methyl Butyl Ketone	13.46	43	7537	0.42	ppb		96
49) 1,2-dibromoethane	14.14	107	36300	0.47	ppb		99
50) Tetrachloroethylene	13.98	164	38073	0.51	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092807.D Vial: 6
Acq On : 28 Sep 2010 3:13 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 15:48:05 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

	Compound	R.T.	QIon	Response	Conc Unit	Qvalue
51)	Chlorobenzene	14.93	112	49384	0.45 ppb	99
52)	Ethylbenzene	15.19	91	45971	0.36 ppb	97
53)	m&p-xylene	15.39	91	71069	0.64 ppb	100
54)	Styrene	15.79	104	19006	0.33 ppb	98
55)	Bromoform	15.87	173	42213	0.42 ppb	97
56)	o-xylene	15.82	91	37387	0.31 ppb	97
58)	1,1,2,2-tetrachloroethane	16.24	83	33619	0.41 ppb	100
59)	4-ethyltoluene	17.00	105	35376	0.37 ppb	100
60)	1,3,5-trimethylbenzene	17.06	105	29058	0.32 ppb	97
61)	1,2,4-trimethylbenzene	17.47	105	22466	0.39 ppb	99
62)	1,3-dichlorobenzene	17.72	146	29142	0.41 ppb	98
63)	benzyl chloride	17.79	91	12366	0.42 ppb	100
64)	1,4-dichlorobenzene	17.84	146	28044	0.41 ppb	98
65)	1,2-dichlorobenzene	18.12	146	25468	0.42 ppb	98
66)	1,2,4-trichlorobenzene	19.75	180	7238	0.38 ppb	94
67)	Hexachloro-1,3-butadiene	20.01	225	19374	0.47 ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

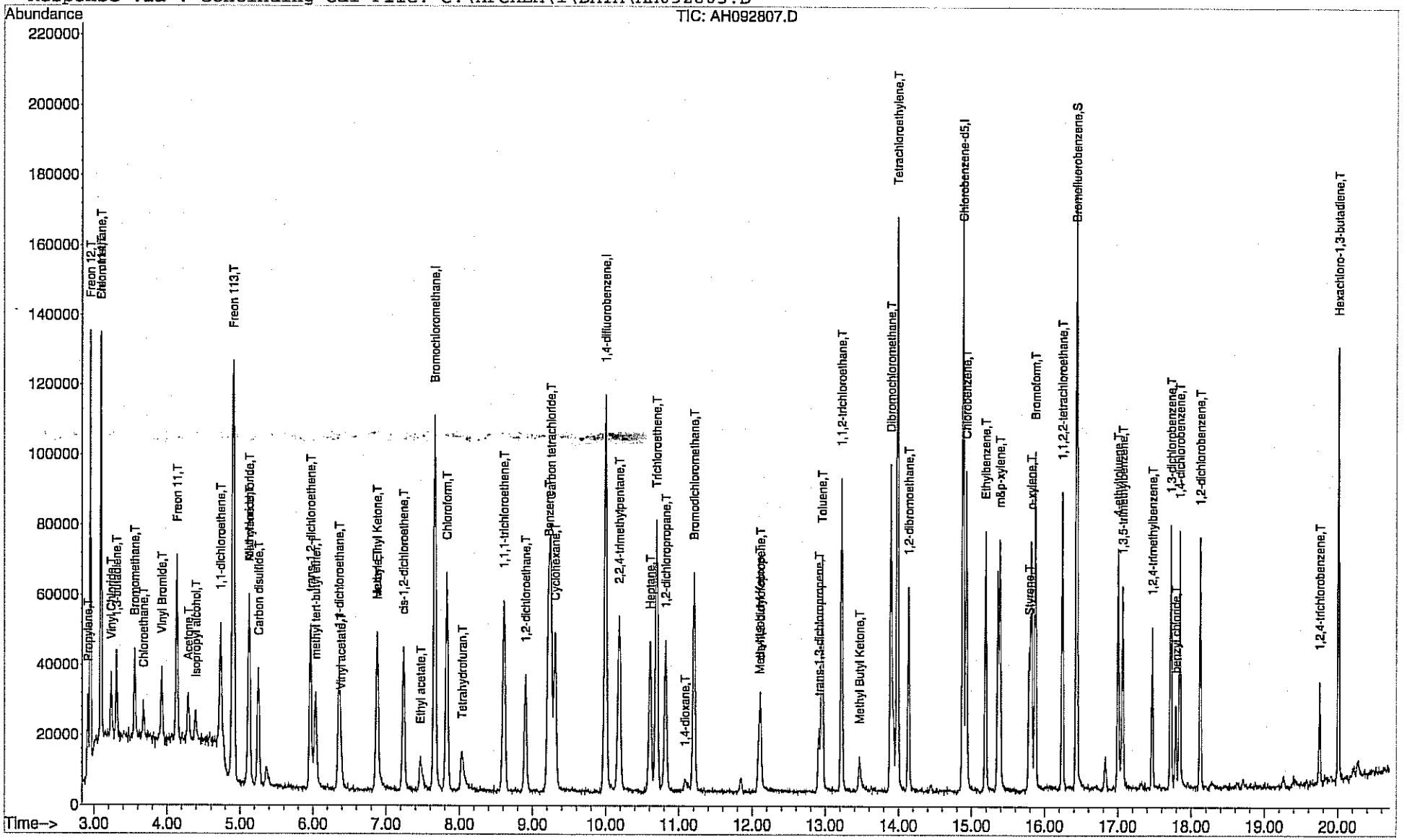
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092807.D
Acq On : 28 Sep 2010 3:13 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 29 10:54 2010

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092808.D Vial: 7
Acq On : 28 Sep 2010 3:44 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 16:08:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	42702	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.00	114	124720	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	107560	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	50203	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	2.91	41	6294	0.29	ppb		97
3) Freon 12	2.95	85	51829	0.31	ppb		99
4) Chloromethane	3.09	50	10498	0.33	ppb		98
5) Freon 114	3.09	85	26328	0.32	ppb		99
6) Vinyl Chloride	3.23	62	8394	0.31	ppb		97
7) 1,3-butadiene	3.30	39	7048	0.38	ppb		85
8) Bromomethane	3.55	94	9231	0.31	ppb		98
9) Chloroethane	3.68	64	3715	0.33	ppb		81
10) Vinyl Bromide	3.92	106	8473	0.31	ppb		100
11) Freon 11	4.13	101	24805	0.31	ppb		99
12) Acetone	4.29	58	3528	0.35	ppb	#	1
13) Isopropyl alcohol	4.38	45	4812	0.27	ppb		80
14) 1,1-dichloroethene	4.73	96	8672	0.32	ppb		96
15) Freon 113	4.90	101	18416	0.30	ppb		99
16) Methylene chloride	5.13	84	7089	0.30	ppb		85
17) Allyl chloride	5.11	41	6024	0.28	ppb		92
18) Carbon disulfide	5.25	76	16956	0.30	ppb		97
19) trans-1,2-dichloroethene	5.96	61	18521	0.50	ppb		97
20) methyl tert-butyl ether	6.04	73	12082	0.58	ppb		95
21) 1,1-dichloroethane	6.35	63	20887	0.28	ppb		100
22) Vinyl acetate	6.38	43	12460	0.25	ppb		98
23) Methyl Ethyl Ketone	6.87	43	22462	0.28	ppb		91
24) cis-1,2-dichloroethene	7.23	61	17229	0.29	ppb		96
25) Hexane	6.87	41	10512	0.29	ppb		94
26) Ethyl acetate	7.46	43	14781	0.27	ppb		95
27) Chloroform	7.82	83	34564	0.29	ppb		95
28) Tetrahydrofuran	8.02	42	6873	0.28	ppb		96
29) 1,2-dichloroethane	8.90	62	21845	0.29	ppb		97
31) 1,1,1-trichloroethane	8.61	97	21823	0.28	ppb		99
32) Cyclohexane	9.30	56	10871	0.26	ppb	#	72
33) Carbon tetrachloride	9.25	117	32175	0.30	ppb		99
34) Benzene	9.21	78	37029	0.29	ppb		97
35) 1,4-dioxane	11.09	88	3489	0.25	ppb		95
36) 2,2,4-trimethylpentane	10.18	57	32881	0.29	ppb		95
37) Heptane	10.60	43	10264	0.28	ppb		99
38) Trichloroethene	10.69	130	23052	0.31	ppb		98
39) 1,2-dichloropropane	10.81	63	10634	0.28	ppb		95
40) Bromodichloromethane	11.20	83	29447	0.29	ppb		98
41) cis-1,3-dichloropropene	12.12	75	8370	0.24	ppb		95
42) trans-1,3-dichloropropene	12.91	75	6526	0.26	ppb		98
43) 1,1,2-trichloroethane	13.22	97	18844	0.32	ppb		99
45) Toluene	12.95	92	19941	0.27	ppb		96
46) Methyl Isobutyl Ketone	12.09	43	7613	0.28	ppb		99
47) Dibromochloromethane	13.89	129	31462	0.29	ppb		99
48) Methyl Butyl Ketone	13.47	43	6696	0.35	ppb		93
49) 1,2-dibromoethane	14.14	107	24091	0.29	ppb		98
50) Tetrachloroethylene	13.98	164	25086	0.31	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092808.D Vial: 7
Acq On : 28 Sep 2010 3:44 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 16:08:11 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 15:45:28 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.93	112	33577	0.28	ppb	98
52)	Ethylbenzene	15.19	91	32550	0.24	ppb	100
53)	m&p-xylene	15.39	91	49097	0.42	ppb	99
54)	Styrene	15.79	104	13490	0.22	ppb	98
55)	Bromoform	15.87	173	28313	0.26	ppb	98
56)	o-xylene	15.82	91	26119	0.20	ppb	99
58)	1,1,2,2-tetrachloroethane	16.24	83	24409	0.28	ppb	99
59)	4-ethyltoluene	17.00	105	24147	0.23	ppb	99
60)	1,3,5-trimethylbenzene	17.06	105	18794	0.19	ppb	98
61)	1,2,4-trimethylbenzene	17.47	105	14934	0.24	ppb	96
62)	1,3-dichlorobenzene	17.72	146	19138	0.25	ppb	99
63)	benzyl chloride	17.79	91	9984	0.32	ppb	97
64)	1,4-dichlorobenzene	17.84	146	17223	0.23	ppb	98
65)	1,2-dichlorobenzene	18.12	146	16921	0.26	ppb	99
66)	1,2,4-trichlorobenzene	19.75	180	6026	0.30	ppb	90
67)	Hexachloro-1,3-butadiene	20.01	225	15762	0.36	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

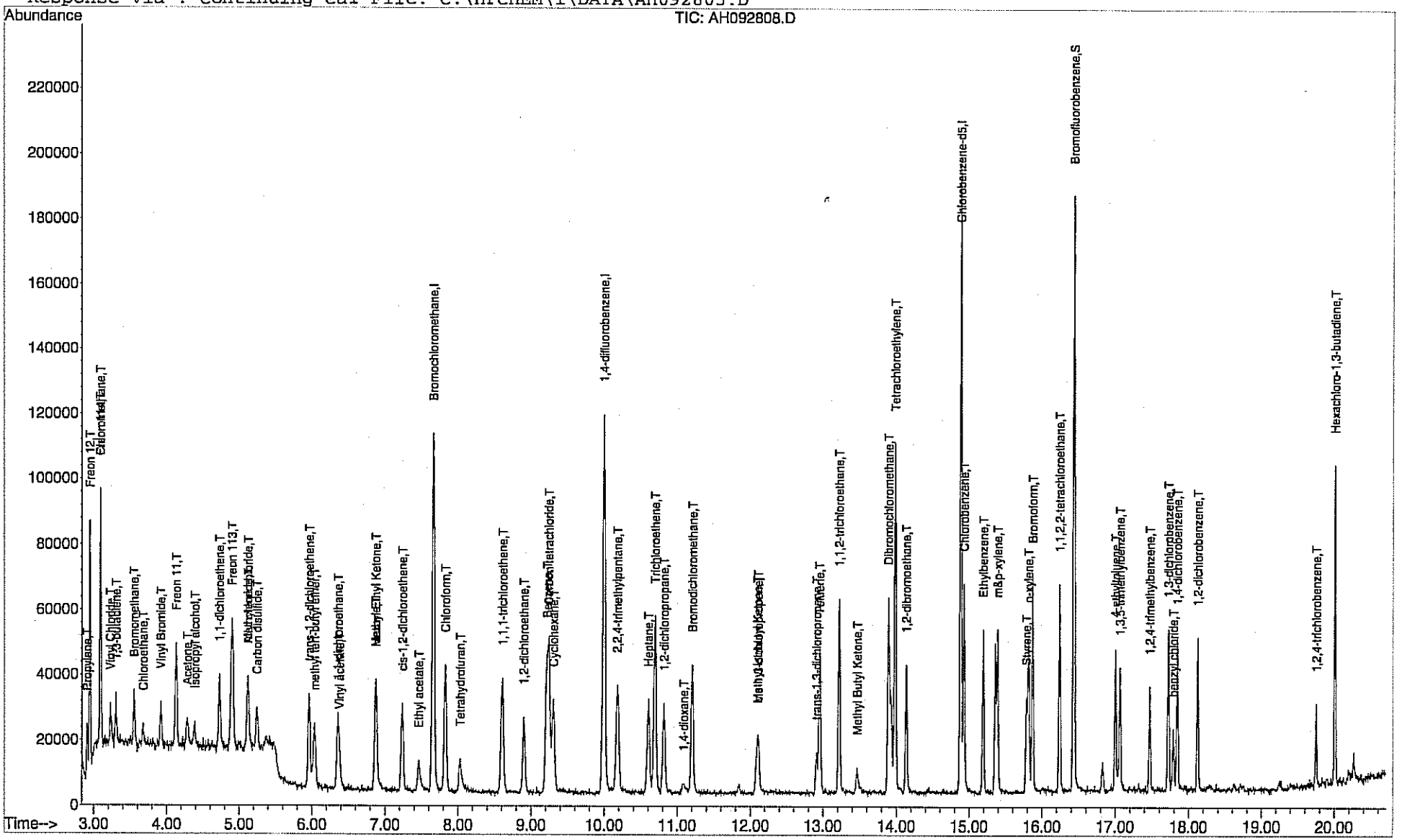
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092808.D
Acq On : 28 Sep 2010 3:44 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 28 16:08 2010

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092811.D Vial: 10
Acq On : 28 Sep 2010 5:19 pm Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 17:40:32 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 11:40:16 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	39839	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.99	114	114855	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	91402	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	39639	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.23	62	2695	0.10	ppb	92
33) Carbon tetrachloride	9.24	117	8968	0.08	ppb	97
38) Trichloroethene	10.70	130	6795	0.09	ppb	97

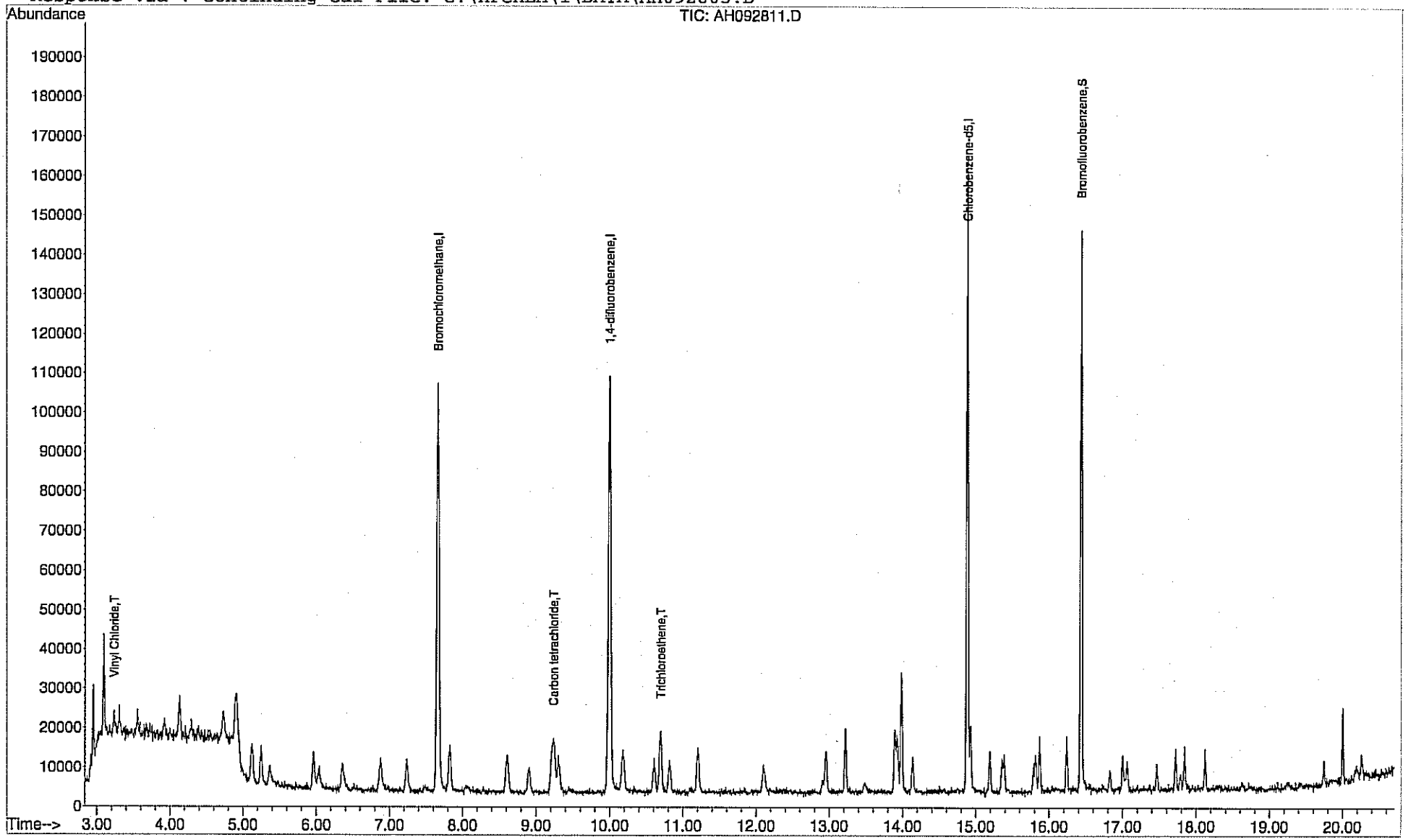
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092811.D A928_1UT.M Tue Oct 19 11:28:05 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092811.D
Acq On : 28 Sep 2010 5:19 pm
Sample : A1UG_0.10
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 29 8:35 2010

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092817.D Vial: 16
Acq On : 28 Sep 2010 8:55 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 21:16:10 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 11:40:16 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.66	128	41472	1.00	ppb		0.00
30) 1,4-difluorobenzene	10.00	114	122391	1.00	ppb		0.00
44) Chlorobenzene-d5	14.88	117	87800	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.43	95	27600	0.64	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 64.00%#				
Target Compounds							Qvalue
2) Propylene	2.91	41	4810	0.21	ppb		98
3) Freon 12	2.95	85	32022	0.19	ppb		100
4) Chloromethane	3.09	50	6299	0.19	ppb		90
5) Freon 114	3.09	85	15647	0.18	ppb		97
6) Vinyl Chloride	3.23	62	5141	0.19	ppb		93
7) 1,3-butadiene	3.31	39	3660	0.18	ppb		96
8) Bromomethane	3.56	94	5786	0.20	ppb		97
9) Chloroethane	3.69	64	2472	0.22	ppb		86
10) Vinyl Bromide	3.93	106	5068	0.18	ppb		95
11) Freon 11	4.13	101	14720	0.18	ppb		95
12) Acetone	4.29	58	1796	0.17	ppb	#	1
13) Isopropyl alcohol	4.39	45	3051	0.15	ppb	#	52
14) 1,1-dichloroethene	4.73	96	5138	0.19	ppb		98
15) Freon 113	4.91	101	10965	0.18	ppb		95
16) Methylene chloride	5.13	84	4795	0.19	ppb		92
17) Allyl chloride	5.12	41	3869	0.18	ppb		95
18) Carbon disulfide	5.25	76	12696	0.20	ppb		94
19) trans-1,2-dichloroethene	5.97	61	9731m	0.25	ppb		
20) methyl tert-butyl ether	6.05	73	4661	0.17	ppb		79
21) 1,1-dichloroethane	6.37	63	11549	0.15	ppb		96
22) Vinyl acetate	6.39	43	5857	0.12	ppb		95
24) cis-1,2-dichloroethene	7.24	61	10082	0.17	ppb		99
25) Hexane	6.88	41	6182	0.17	ppb	#	58
27) Chloroform	7.83	83	20689	0.17	ppb		97
29) 1,2-dichloroethane	8.91	62	13421	0.18	ppb		96
31) 1,1,1-trichloroethane	8.62	97	11495	0.12	ppb		100
32) Cyclohexane	9.31	56	6369	0.14	ppb	#	65
33) Carbon tetrachloride	9.26	117	18883	0.16	ppb		99
34) Benzene	9.22	78	21441	0.16	ppb		98
36) 2,2,4-trimethylpentane	10.19	57	18980	0.15	ppb		94
37) Heptane	10.61	43	5792	0.15	ppb		95
38) Trichloroethene	10.70	130	13897	0.17	ppb		96
39) 1,2-dichloropropane	10.83	63	5906	0.14	ppb		92
40) Bromodichloromethane	11.21	83	17329	0.16	ppb		96
41) cis-1,3-dichloropropene	12.12	75	4522	0.11	ppb		98
42) trans-1,3-dichloropropene	12.92	75	3672m	0.12	ppb		
43) 1,1,2-trichloroethane	13.23	97	10336	0.16	ppb		99
45) Toluene	12.96	92	10766	0.17	ppb		99
47) Dibromochloromethane	13.90	129	17477	0.17	ppb		99
48) Methyl Butyl Ketone	13.47	43	4609	0.13	ppb		98
49) 1,2-dibromoethane	14.14	107	12611	0.17	ppb		97
50) Tetrachloroethylene	13.99	164	15043	0.22	ppb		99
51) Chlorobenzene	14.93	112	18981	0.19	ppb		97
52) Ethylbenzene	15.20	91	16521	0.15	ppb		98
53) m&p-xylene	15.36	91	21511	0.21	ppb		96
54) Styrene	15.79	104	5676	0.11	ppb		99
55) Bromoform	15.87	173	14002	0.15	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092817.D Vial: 16
Acq On : 28 Sep 2010 8:55 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multip1r: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 21:16:10 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 11:40:16 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
56)	o-xylene	15.82	91	14124m	0.13	ppb	
58)	1,1,2,2-tetrachloroethane	16.25	83	9633	0.12	ppb	98
59)	4-ethyltoluene	17.00	105	8863m	0.10	ppb	
61)	1,2,4-trimethylbenzene	17.47	105	6842m	0.13	ppb	
62)	1,3-dichlorobenzene	17.72	146	7808	0.12	ppb	95
63)	benzyl chloride	17.79	91	4088m	0.13	ppb	
64)	1,4-dichlorobenzene	17.85	146	7002	0.11	ppb	97
65)	1,2-dichlorobenzene	18.13	146	5865m	0.11	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

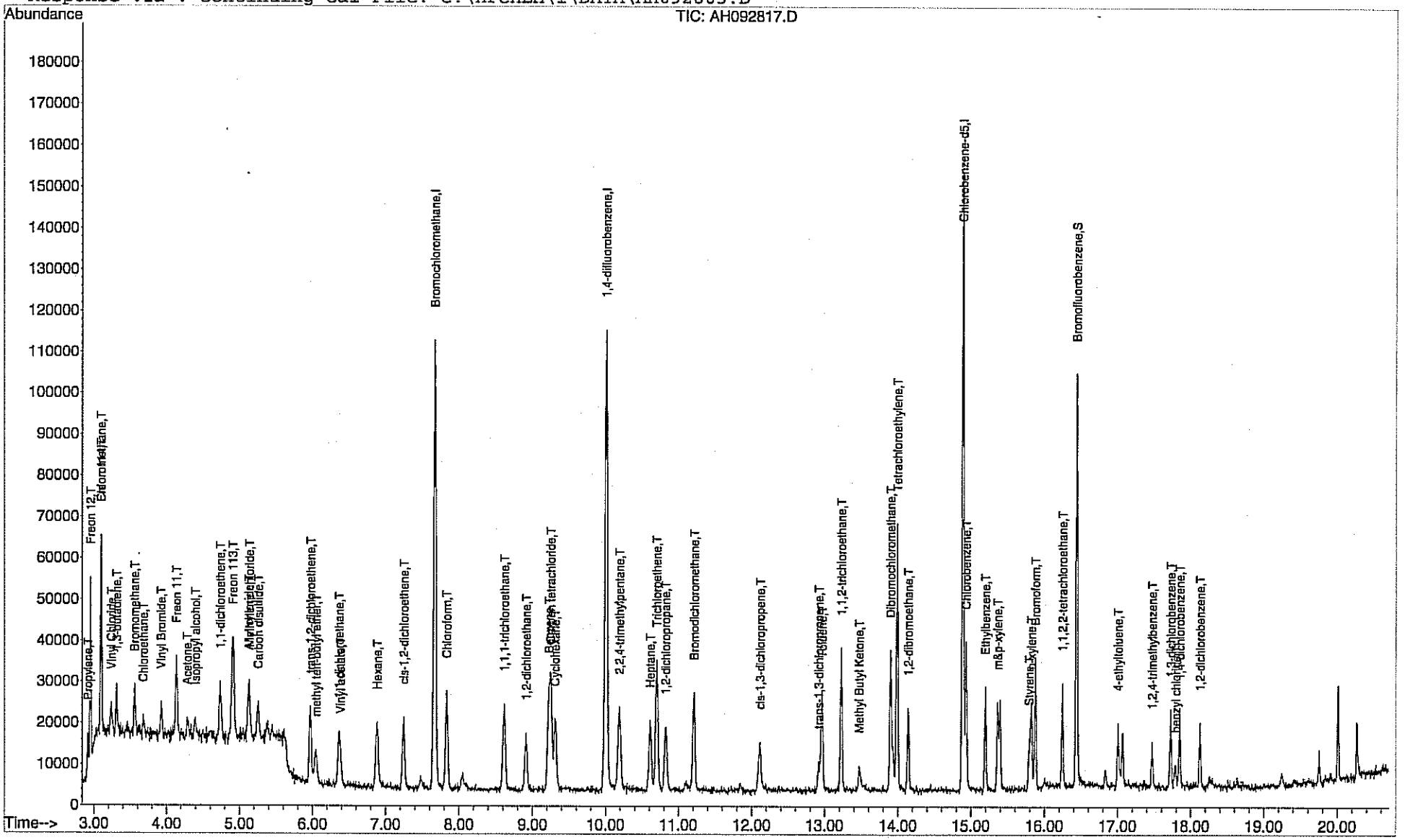
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092817.D
Acq On : 28 Sep 2010 8:55 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 29 9:57 2010

Via1: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092820.D Vial: 19
Acq On : 28 Sep 2010 10:29 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 22:50:39 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 11:40:16 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.67	128	41402	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	114289	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	88089	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	31926	0.74	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 74.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.23	62	1630	0.06	ppb	80
33) Carbon tetrachloride	9.25	117	4914	0.04	ppb	94
38) Trichloroethene	10.71	130	4096	0.06	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

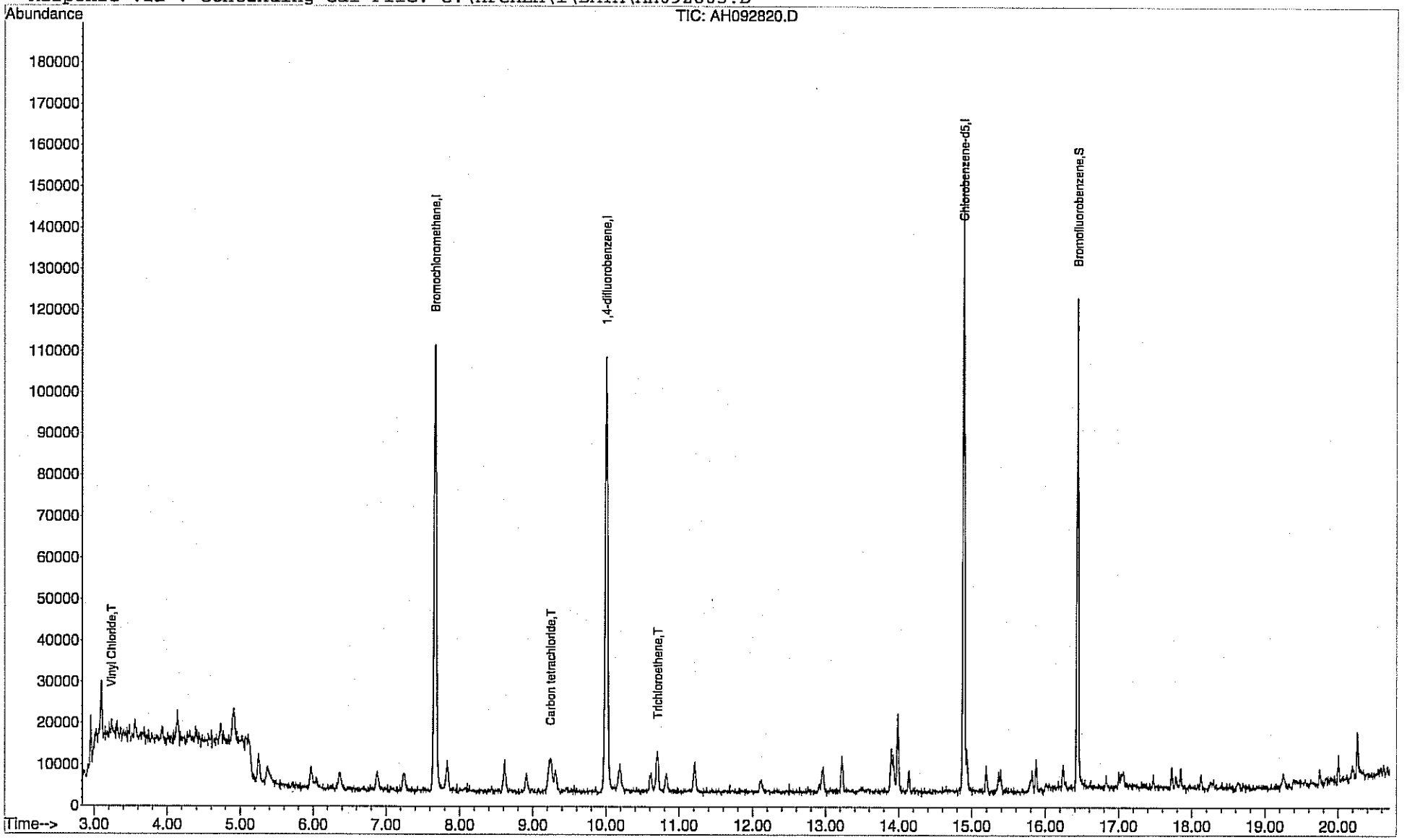
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092820.D
Acq On : 28 Sep 2010 10:29 pm
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 29 8:39 2010

Vial: 19
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092821.D Vial: 20
Acq On : 28 Sep 2010 11:01 pm Operator: RJP
Sample : A1UG_0.02 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 28 23:21:58 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Sep 28 11:40:16 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.67	128	41112	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	111943	1.00	ppb	0.00
44) Chlorobenzene-d5	14.89	117	81656	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.44	95	30022	0.75	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 75.00%			
Target Compounds						Qvalue

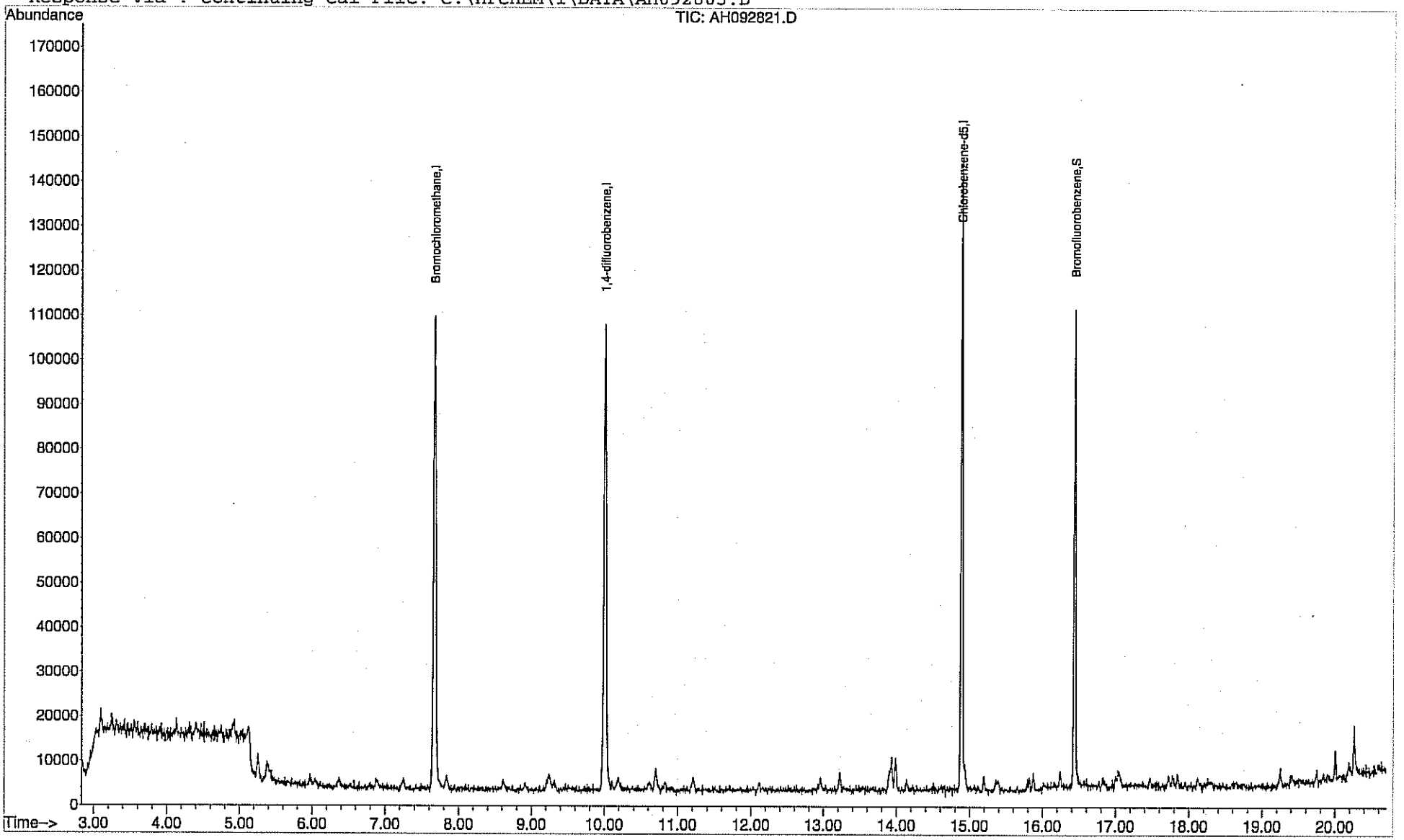
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092821.D A928_1UT.M Tue Oct 19 11:28:11 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH092821.D
Acq On : 28 Sep 2010 11:01 pm
Sample : A1UG_0.02
Misc :
MS Integration Params: RTEINT.P
Quant Time: Sep 29 8:40 2010

Vial: 20
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

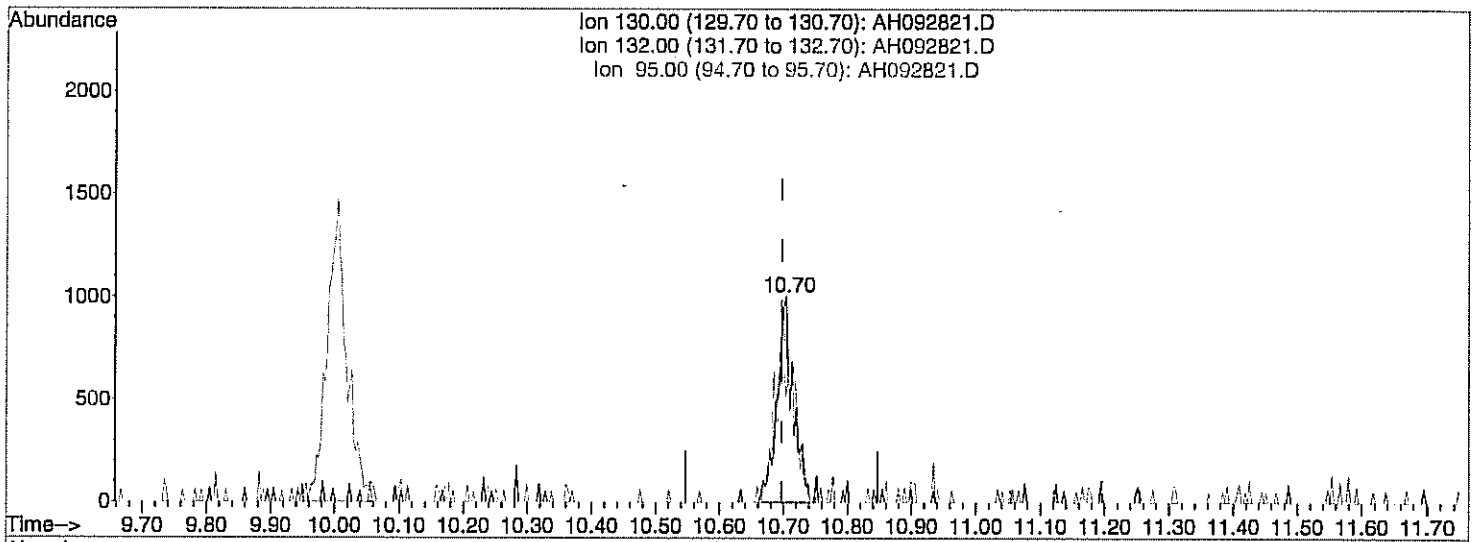
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH092805.D

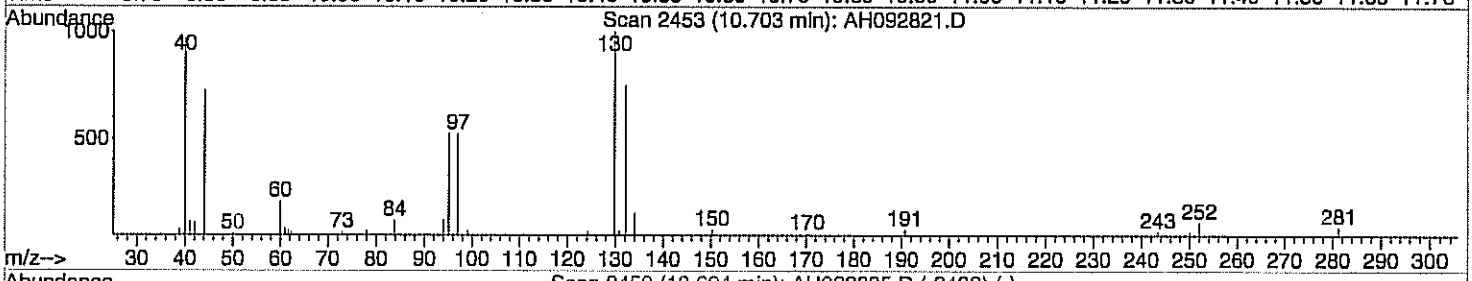


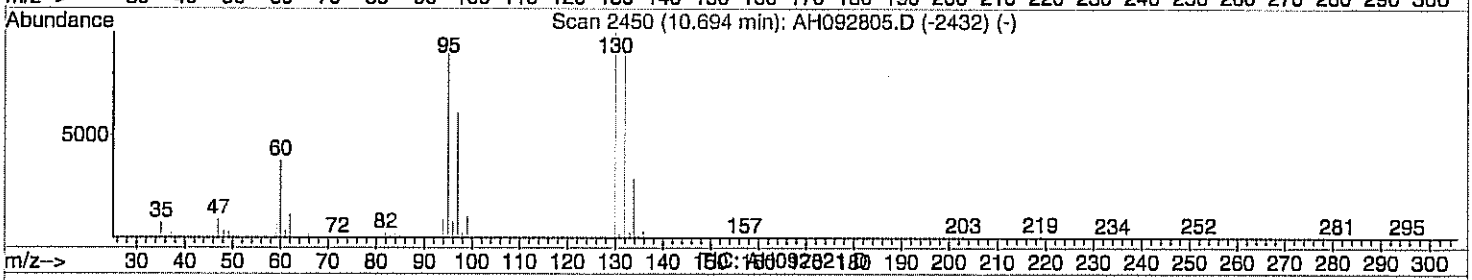
Centek laboratories, LLC

Data File : C:\HPCHEM\1\DATA\AH092821.D Vial: 20
Acq On : 28 Sep 2010 11:01 pm Operator: RJP
Sample : A1UG_0.02 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 29 8:40 2010 Quant Results File: temp.res

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Oct 19 11:29:58 2010
Response via : Single Level Calibration







(38) Trichloroethene (T)

10.70min (+0.006) 0.02ppb

response 1738

Ion	Exp%	Act%
130.00	100	100
132.00	98.80	99.94
95.00	95.30	92.46
0.00	0.00	0.00

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH101203.D Vial: 3
Acq On : 12 Oct 2010 10:19 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	61	0.00
2	T	Propylene	0.554	0.494	10.8	60	0.00
3	T	Freon 12	4.152	3.561	14.2	55	0.00
4	T	Chloromethane	0.821	0.646	21.3	53	0.00
5	T	Freon 114	2.082	1.888	9.3	59	0.00
6	T	Vinyl Chloride	0.707	0.567	19.8	54	0.00
7	T	1,3-butadiene	0.474	0.356	24.9	50	0.00
8	T	Bromomethane	0.723	0.661	8.6	58	0.00
9	T	Chloroethane	0.290	0.228	21.4	53	0.00
10	T	Vinyl Bromide	0.673	0.768	-14.1	73	0.00
11	T	Freon 11	1.982	2.113	-6.6	68	0.00
12	T	Acetone	0.254	0.254	0.0	66	0.00
13	T	Isopropyl alcohol	0.412	0.490	-18.9	71	0.00
14	T	1,1-dichloroethene	0.677	0.691	-2.1	67	0.00
15	T	Freon 113	1.643	1.407	14.4	60	0.00
16	T	Methylene chloride	0.658	0.532	19.1	58	0.00
17	T	Allyl chloride	0.517	0.554	-7.2	66	0.00
18	T	Carbon disulfide	1.553	2.820	-81.6#	130	0.00
19	T	trans-1,2-dichloroethene	1.347	1.495	-11.0	105	0.00
20	T	methyl tert-butyl ether	0.979	2.555	-161.0#	317#	0.00
21	T	1,1-dichloroethane	1.795	1.873	-4.3	64	0.00
22	T	Vinyl acetate	1.077	1.299	-20.6	69	0.00
23	T	Methyl Ethyl Ketone	1.787	1.768	1.1	58	0.00
24	T	cis-1,2-dichloroethene	1.395	1.466	-5.1	64	0.00
25	T	Hexane	0.867	0.830	4.3	59	0.00
26	T	Ethyl acetate	1.201	1.225	-2.0	58	0.00
27	T	Chloroform	2.897	2.760	4.7	60	0.00
28	T	Tetrahydrofuran	0.557	0.643	-15.4	69	0.00
29	T	1,2-dichloroethane	1.814	1.667	8.1	58	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	69	0.00
31	T	1,1,1-trichloroethane	0.641	0.724	-12.9	79	0.00
32	T	Cyclohexane	0.340	0.356	-4.7	73	0.00
33	T	Carbon tetrachloride	0.911	0.671	26.3	54	0.00
34	T	Benzene	1.040	0.876	15.8	59	0.00
35	T	1,4-dioxane	0.105	0.081	22.9	50	0.00
36	T	2,2,4-trimethylpentane	0.952	0.916	3.8	69	0.00
37	T	Heptane	0.292	0.307	-5.1	73	0.00
38	T	Trichloroethene	0.659	0.515	21.9	60	0.00
39	T	1,2-dichloropropane	0.309	0.298	3.6	67	0.00
40	T	Bromodichloromethane	0.840	0.748	11.0	63	0.00
41	T	cis-1,3-dichloropropene	0.275	0.338	-22.9	85	0.00
42	T	trans-1,3-dichloropropene	0.204	0.253	-24.0	85	0.00
43	T	1,1,2-trichloroethane	0.501	0.399	20.4	57	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	61	0.00
45	T	Toluene	0.710	0.751	-5.8	67	0.00
46	T	Methyl Isobutyl Ketone	0.257	0.238	7.4	57	0.00
47	T	Dibromochloromethane	1.068	1.086	-1.7	67	0.00
48	T	Methyl Butyl Ketone	0.228	0.187	18.0	65	0.00
49	T	1,2-dibromoethane	0.797	0.779	2.3	62	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH101203.D Vial: 3
Acq On : 12 Oct 2010 10:19 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.804	0.694	13.7	57	0.00
51	T	Chlorobenzene	1.131	1.069	5.5	60	0.00
52	T	Ethylbenzene	1.226	1.435	-17.0	70	0.00
53	T	m&p-xylene	0.999	1.106	-10.7	62	0.00
54	T	Styrene	0.533	0.684	-28.3	72	0.00
55	T	Bromoform	0.994	0.945	4.9	58	0.00
56	T	o-xylene	1.105	1.129	-2.2	58	0.00
57	S	Bromofluorobenzene	0.448	0.534	-19.2	63	0.00
58	T	1,1,2,2-tetrachloroethane	0.758	0.702	7.4	53	0.00
59	T	4-ethyltoluene	0.917	1.167	-27.3	75	0.00
60	T	1,3,5-trimethylbenzene	0.789	1.003	-27.1	68	0.00
61	T	1,2,4-trimethylbenzene	0.569	0.696	-22.3	74	0.00
62	T	1,3-dichlorobenzene	0.665	0.717	-7.8	63	0.00
63	T	benzyl chloride	0.302	0.359	-18.9	76	0.00
64	T	1,4-dichlorobenzene	0.641	0.716	-11.7	64	0.00
65	T	1,2-dichlorobenzene	0.564	0.643	-14.0	66	0.00
66	T	1,2,4-trichlorobenzene	0.174	0.290	-66.7#	94	0.00
67	T	Hexachloro-1,3-butadiene	0.395	0.415	-5.1	62	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101203.D Vial: 3
Acq On : 12 Oct 2010 10:19 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:39:53 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	26250	1.00	ppb		-0.07
30) 1,4-difluorobenzene	9.92	114	94270	1.00	ppb		-0.07
44) Chlorobenzene-d5	14.83	117	74090	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	39594	1.19	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 119.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	12979	0.89	ppb		98
3) Freon 12	2.92	85	93488	0.86	ppb		100
4) Chloromethane	3.06	50	16969	0.79	ppb		99
5) Freon 114	3.06	85	49573	0.91	ppb		93
6) Vinyl Chloride	3.19	62	14892	0.80	ppb		100
7) 1,3-butadiene	3.27	39	9358	0.75	ppb		92
8) Bromomethane	3.51	94	17353	0.91	ppb		95
9) Chloroethane	3.63	64	5998	0.79	ppb		90
10) Vinyl Bromide	3.87	106	20154	1.14	ppb		99
11) Freon 11	4.08	101	55463	1.07	ppb		98
12) Acetone	4.23	58	6656	1.00	ppb	#	1
13) Isopropyl alcohol	4.33	45	12863m	1.19	ppb		
14) 1,1-dichloroethene	4.67	96	18148	1.02	ppb		88
15) Freon 113	4.84	101	36938	0.86	ppb		98
16) Methylene chloride	5.06	84	13969	0.81	ppb		97
17) Allyl chloride	5.05	41	14544	1.07	ppb		87
18) Carbon disulfide	5.19	76	74035	1.82	ppb		100
19) trans-1,2-dichloroethene	5.90	61	39241	1.11	ppb		98
20) methyl tert-butyl ether	5.97	73	67064	2.61	ppb	#	45
21) 1,1-dichloroethane	6.29	63	49170	1.04	ppb		99
22) Vinyl acetate	6.31	43	34087	1.21	ppb		99
23) Methyl Ethyl Ketone	6.79	43	46402	0.99	ppb		93
24) cis-1,2-dichloroethene	7.17	61	38476	1.05	ppb		99
25) Hexane	6.80	41	21783	0.96	ppb		94
26) Ethyl acetate	7.38	43	32151	1.02	ppb		97
27) Chloroform	7.75	83	72438	0.95	ppb		99
28) Tetrahydrofuran	7.95	42	16866	1.15	ppb		95
29) 1,2-dichloroethane	8.83	62	43765	0.92	ppb		99
31) 1,1,1-trichloroethane	8.54	97	68289	1.13	ppb		98
32) Cyclohexane	9.23	56	33519	1.05	ppb		88
33) Carbon tetrachloride	9.17	117	63264	0.74	ppb		98
34) Benzene	9.13	78	82600	0.84	ppb		97
35) 1,4-dioxane	10.99	88	7655m	0.78	ppb		
36) 2,2,4-trimethylpentane	10.11	57	86333	0.96	ppb		95
37) Heptane	10.53	43	28923	1.05	ppb		93
38) Trichloroethene	10.62	130	48508	0.78	ppb		99
39) 1,2-dichloropropane	10.74	63	28113	0.96	ppb		97
40) Bromodichloromethane	11.13	83	70529	0.89	ppb		97
41) cis-1,3-dichloropropene	12.04	75	31874m	1.23	ppb		
42) trans-1,3-dichloropropene	12.85	75	23821m	1.24	ppb		
43) 1,1,2-trichloroethane	13.16	97	37622	0.80	ppb		99
45) Toluene	12.90	92	55622	1.06	ppb		94
46) Methyl Isobutyl Ketone	12.02	43	17629m	0.93	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101203.D Vial: 3
Acq On : 12 Oct 2010 10:19 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:39:53 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	80445	1.02	ppb	99
48)	Methyl Butyl Ketone	13.40	43	13827m	0.82	ppb	
49)	1,2-dibromoethane	14.08	107	57689	0.98	ppb	97
50)	Tetrachloroethylene	13.93	164	51415	0.86	ppb	100
51)	Chlorobenzene	14.87	112	79190	0.94	ppb	97
52)	Ethylbenzene	15.14	91	106311	1.17	ppb	96
53)	m&p-xylene	15.34	91	163817	2.21	ppb	96
54)	Styrene	15.74	104	50681m	1.28	ppb	
55)	Bromoform	15.82	173	70047	0.95	ppb	98
56)	o-xylene	15.76	91	83643	1.02	ppb	95
58)	1,1,2,2-tetrachloroethane	16.19	83	51979	0.93	ppb	99
59)	4-ethyltoluene	16.95	105	86475m	1.27	ppb	
60)	1,3,5-trimethylbenzene	17.01	105	74303	1.27	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	51592m	1.22	ppb	
62)	1,3-dichlorobenzene	17.67	146	53154	1.08	ppb	99
63)	benzyl chloride	17.74	91	26635	1.19	ppb	93
64)	1,4-dichlorobenzene	17.80	146	53046	1.12	ppb	99
65)	1,2-dichlorobenzene	18.08	146	47672	1.14	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	21511	1.67	ppb	99
67)	Hexachloro-1,3-butadiene	19.96	225	30739	1.05	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

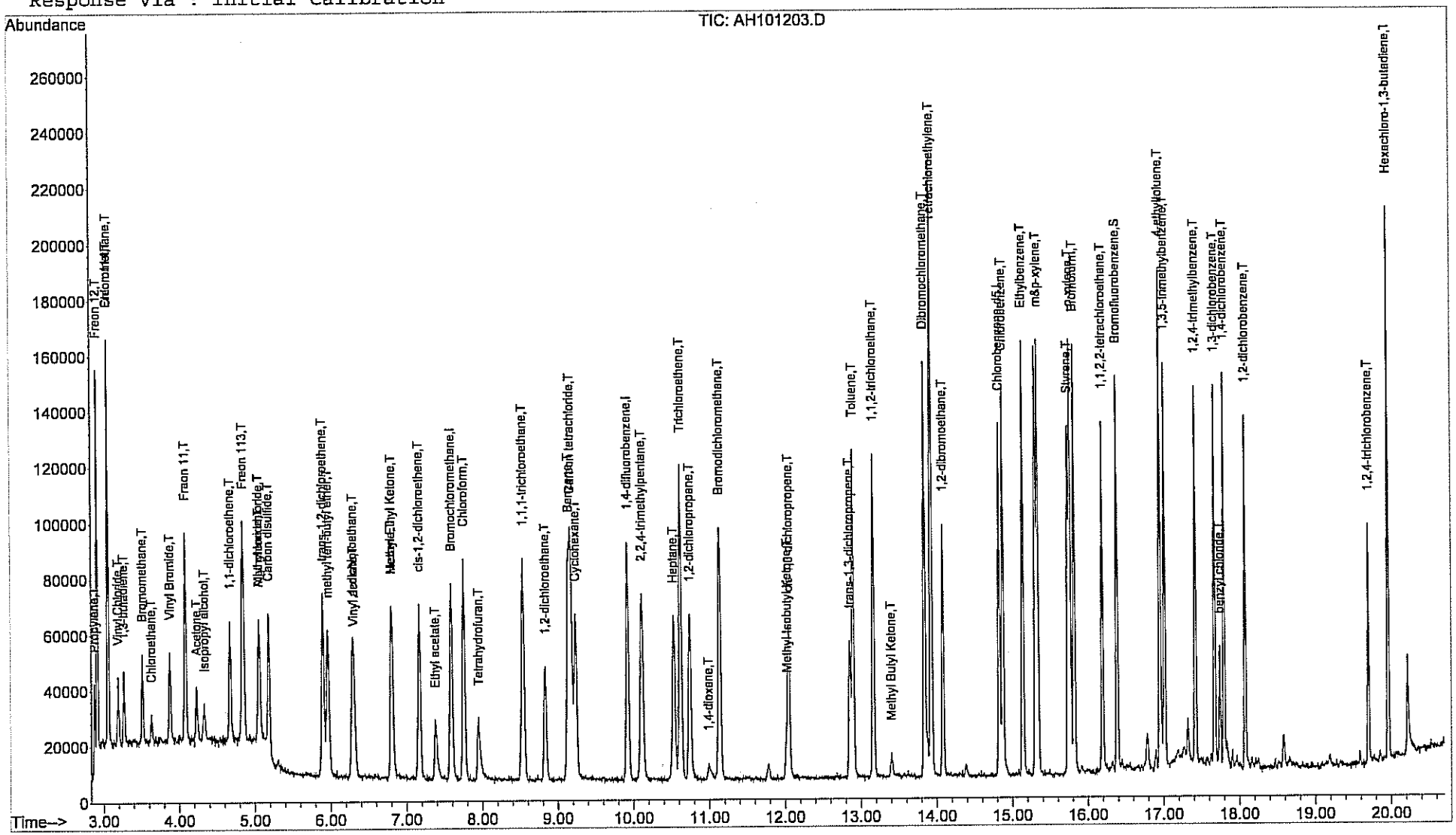
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101203.D
Acq On : 12 Oct 2010 10:19 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 12 10:01 2010

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH101302.D Vial: 2
Acq On : 13 Oct 2010 12:00 pm Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	53	0.00
2	T	Propylene	0.554	0.464	16.2	49#	0.00
3	T	Freon 12	4.152	3.503	15.6	47#	0.00
4	T	Chloromethane	0.821	0.667	18.8	47#	0.00
5	T	Freon 114	2.082	1.908	8.4	52	0.00
6	T	Vinyl Chloride	0.707	0.563	20.4	47#	0.00
7	T	1,3-butadiene	0.474	0.356	24.9	44#	0.00
8	T	Bromomethane	0.723	0.649	10.2	49#	0.00
9	T	Chloroethane	0.290	0.231	20.3	47#	0.00
10	T	Vinyl Bromide	0.673	0.746	-10.8	62	0.00
11	T	Freon 11	1.982	2.178	-9.9	61	0.00
12	T	Acetone	0.254	0.229	9.8	51	0.00
13	T	Isopropyl alcohol	0.412	0.659	-60.0#	83	0.00
14	T	1,1-dichloroethene	0.677	0.664	1.9	56	0.00
15	T	Freon 113	1.643	1.409	14.2	52	0.00
16	T	Methylene chloride	0.658	0.523	20.5	50#	0.00
17	T	Allyl chloride	0.517	0.509	1.5	52	0.00
18	T	Carbon disulfide	1.553	1.767	-13.8	71	0.00
19	T	trans-1,2-dichloroethene	1.347	0.974	27.7	59	0.00
20	T	methyl tert-butyl ether	0.979	1.239	-26.6	133	0.00
21	T	1,1-dichloroethane	1.795	1.395	22.3	42#	0.00
22	T	Vinyl acetate	1.077	0.887	17.6	41#	0.00
23	T	Methyl Ethyl Ketone	1.787	1.508	15.6	43#	0.00
24	T	cis-1,2-dichloroethene	1.395	1.217	12.8	46#	0.00
25	T	Hexane	0.867	0.757	12.7	46#	0.00
26	T	Ethyl acetate	1.201	1.155	3.8	48#	0.00
27	T	Chloroform	2.897	2.533	12.6	48#	0.00
28	T	Tetrahydrofuran	0.557	0.556	0.2	52	0.00
29	T	1,2-dichloroethane	1.814	1.511	16.7	45#	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	60	0.00
31	T	1,1,1-trichloroethane	0.641	0.682	-6.4	64	0.00
32	T	Cyclohexane	0.340	0.281	17.4	50	0.00
33	T	Carbon tetrachloride	0.911	0.719	21.1	50#	0.00
34	T	Benzene	1.040	0.729	29.9	43#	0.00
35	T	1,4-dioxane	0.105	0.084	20.0	45#	0.00
36	T	2,2,4-trimethylpentane	0.952	0.743	22.0	48#	0.00
37	T	Heptane	0.292	0.248	15.1	51	0.00
38	T	Trichloroethene	0.659	0.460	30.2#	46#	0.00
39	T	1,2-dichloropropane	0.309	0.255	17.5	50#	0.00
40	T	Bromodichloromethane	0.840	0.700	16.7	51	0.00
41	T	cis-1,3-dichloropropene	0.275	0.333	-21.1	73	0.00
42	T	trans-1,3-dichloropropene	0.204	0.247	-21.1	72	0.00
43	T	1,1,2-trichloroethane	0.501	0.356	28.9	44#	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	60	0.00
45	T	Toluene	0.710	0.558	21.4	49#	0.00
46	T	Methyl Isobutyl Ketone	0.257	0.215	16.3	51	0.00
47	T	Dibromochloromethane	1.068	0.970	9.2	58	0.00
48	T	Methyl Butyl Ketone	0.228	0.210	7.9	72	0.00
49	T	1,2-dibromoethane	0.797	0.642	19.4	50	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH101302.D Vial: 2
Acq On : 13 Oct 2010 12:00 pm Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.804	0.539	33.0#	43#	0.00
51	T	Chlorobenzene	1.131	0.812	28.2	44#	0.00
52	T	Ethylbenzene	1.226	1.051	14.3	50#	0.00
53	T	m&p-xylene	0.999	0.831	16.8	46#	0.00
54	T	Styrene	0.533	0.577	-8.3	60	0.00
55	T	Bromoform	0.994	0.929	6.5	56	0.00
56	T	o-xylene	1.105	0.859	22.3	43#	0.00
57	S	Bromofluorobenzene	0.448	0.611	-36.4#	71	0.00
58	T	1,1,2,2-tetrachloroethane	0.758	0.618	18.5	46#	0.00
59	T	4-ethyltoluene	0.917	1.154	-25.8	72	0.00
60	T	1,3,5-trimethylbenzene	0.789	0.835	-5.8	56	0.00
61	T	1,2,4-trimethylbenzene	0.569	0.748	-31.5#	78	0.00
62	T	1,3-dichlorobenzene	0.665	0.620	6.8	53	0.00
63	T	benzyl chloride	0.302	0.346	-14.6	71	0.00
64	T	1,4-dichlorobenzene	0.641	0.616	3.9	54	0.00
65	T	1,2-dichlorobenzene	0.564	0.548	2.8	55	0.00
66	T	1,2,4-trichlorobenzene	0.174	0.246	-41.4#	78	0.00
67	T	Hexachloro-1,3-butadiene	0.395	0.365	7.6	54	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101302.D Vial: 2
Acq On : 13 Oct 2010 12:00 pm Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 12:21:30 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	22735	1.00	ppb	-0.07
30) 1,4-difluorobenzene	9.92	114	81601	1.00	ppb	-0.07
44) Chlorobenzene-d5	14.83	117	72506	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	44294	1.36	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 136.00%#			
Target Compounds						Qvalue
2) Propylene	2.88	41	10559	0.84	ppb	94
3) Freon 12	2.92	85	79647	0.84	ppb	100
4) Chloromethane	3.06	50	15164	0.81	ppb	99
5) Freon 114	3.06	85	43376	0.92	ppb	92
6) Vinyl Chloride	3.19	62	12805	0.80	ppb	97
7) 1,3-butadiene	3.27	39	8099	0.75	ppb	96
8) Bromomethane	3.51	94	14754	0.90	ppb	93
9) Chloroethane	3.63	64	5261	0.80	ppb	86
10) Vinyl Bromide	3.87	106	16954	1.11	ppb	98
11) Freon 11	4.08	101	49518	1.10	ppb	98
12) Acetone	4.23	58	5203	0.90	ppb #	1
13) Isopropyl alcohol	4.33	45	14977m	1.60	ppb	
14) 1,1-dichloroethene	4.67	96	15103	0.98	ppb	94
15) Freon 113	4.84	101	32027	0.86	ppb	94
16) Methylene chloride	5.07	84	11898	0.80	ppb	98
17) Allyl chloride	5.05	41	11568	0.98	ppb	86
18) Carbon disulfide	5.18	76	40163	1.14	ppb	99
19) trans-1,2-dichloroethene	5.90	61	22155m	0.72	ppb	
20) methyl tert-butyl ether	5.97	73	28158m	1.26	ppb	
21) 1,1-dichloroethane	6.29	63	31726m	0.78	ppb	
22) Vinyl acetate	6.31	43	20168	0.82	ppb	93
23) Methyl Ethyl Ketone	6.79	43	34293m	0.84	ppb	
24) cis-1,2-dichloroethene	7.17	61	27679	0.87	ppb	99
25) Hexane	6.81	41	17211m	0.87	ppb	
26) Ethyl acetate	7.38	43	26256	0.96	ppb	100
27) Chloroform	7.76	83	57582	0.87	ppb	100
28) Tetrahydrofuran	7.94	42	12650	1.00	ppb	96
29) 1,2-dichloroethane	8.83	62	34359	0.83	ppb	99
31) 1,1,1-trichloroethane	8.54	97	55669	1.06	ppb	99
32) Cyclohexane	9.22	56	22947	0.83	ppb	94
33) Carbon tetrachloride	9.17	117	58668	0.79	ppb	98
34) Benzene	9.14	78	59523	0.70	ppb	98
35) 1,4-dioxane	10.98	88	6853	0.80	ppb	97
36) 2,2,4-trimethylpentane	10.11	57	60667	0.78	ppb	98
37) Heptane	10.53	43	20210	0.85	ppb	97
38) Trichloroethene	10.62	130	37520m	0.70	ppb	
39) 1,2-dichloropropane	10.74	63	20775	0.82	ppb	99
40) Bromodichloromethane	11.13	83	57156	0.83	ppb	100
41) cis-1,3-dichloropropene	12.05	75	27151	1.21	ppb	96
42) trans-1,3-dichloropropene	12.85	75	20171m	1.21	ppb	
43) 1,1,2-trichloroethane	13.16	97	29033	0.71	ppb	98
45) Toluene	12.90	92	40460	0.79	ppb	94
46) Methyl Isobutyl Ketone	12.02	43	15621	0.84	ppb	96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101302.D Vial: 2
Acq On : 13 Oct 2010 12:00 pm Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 12:21:30 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

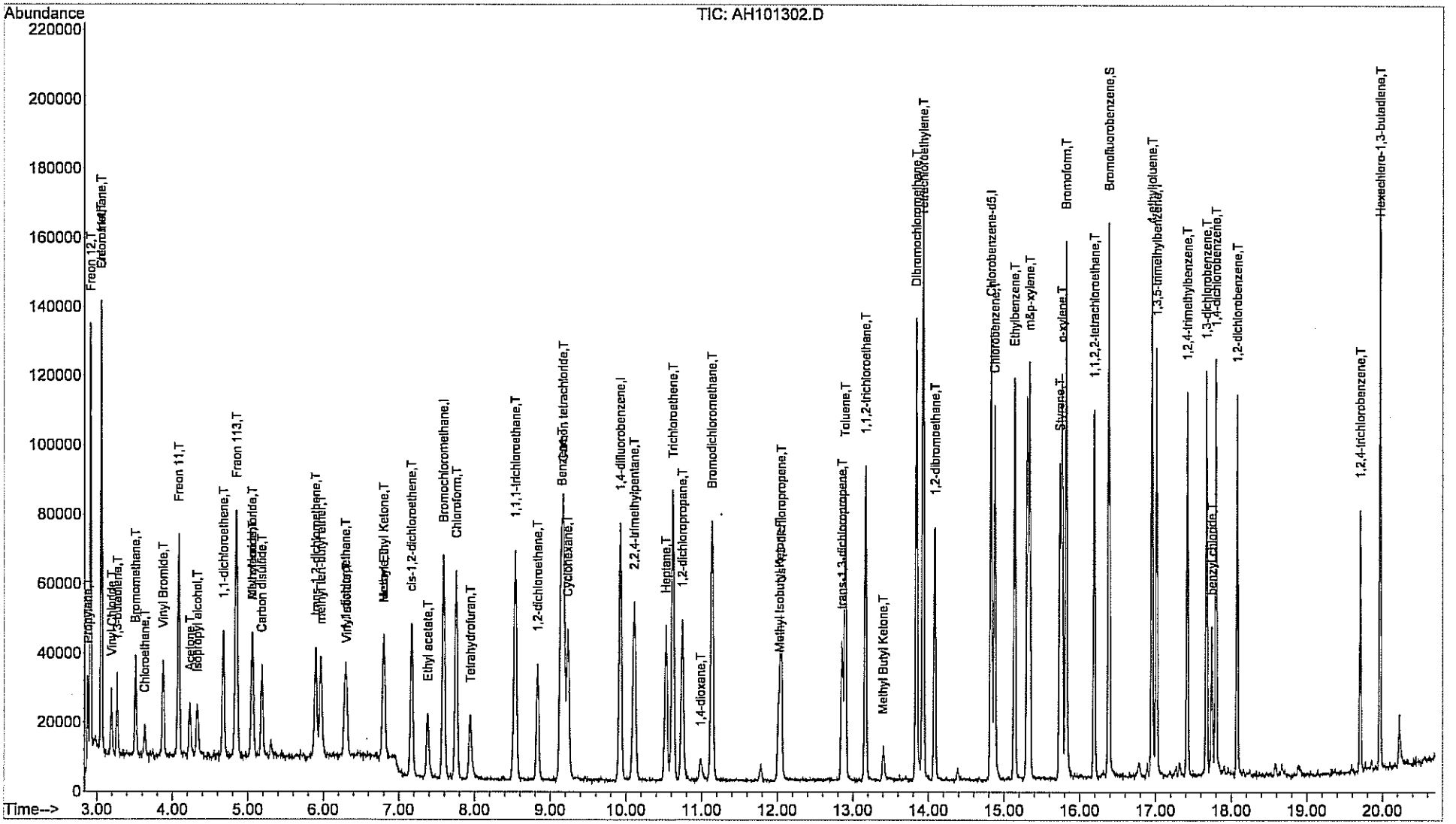
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	70305	0.91	ppb	100
48)	Methyl Butyl Ketone	13.40	43	15243m	0.92	ppb	
49)	1,2-dibromoethane	14.08	107	46527	0.81	ppb	96
50)	Tetrachloroethylene	13.93	164	39067	0.67	ppb	99
51)	Chlorobenzene	14.88	112	58907	0.72	ppb	99
52)	Ethylbenzene	15.14	91	76230	0.86	ppb	97
53)	m&p-xylene	15.34	91	120462	1.66	ppb	96
54)	Styrene	15.73	104	41846	1.08	ppb	93
55)	Bromoform	15.82	173	67383	0.93	ppb	97
56)	o-xylene	15.76	91	62293	0.78	ppb	99
58)	1,1,2,2-tetrachloroethane	16.19	83	44798	0.82	ppb	99
59)	4-ethyltoluene	16.95	105	83676	1.26	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	60566	1.06	ppb	98
61)	1,2,4-trimethylbenzene	17.42	105	54220	1.31	ppb	96
62)	1,3-dichlorobenzene	17.67	146	44984	0.93	ppb	100
63)	benzyl chloride	17.74	91	25118	1.15	ppb	91
64)	1,4-dichlorobenzene	17.80	146	44633	0.96	ppb	99
65)	1,2-dichlorobenzene	18.08	146	39709	0.97	ppb	100
66)	1,2,4-trichlorobenzene	19.70	180	17861	1.42	ppb	96
67)	Hexachloro-1,3-butadiene	19.96	225	26457	0.92	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101302.D Vial: 2
Acq On : 13 Oct 2010 12:00 pm Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 9 14:03 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

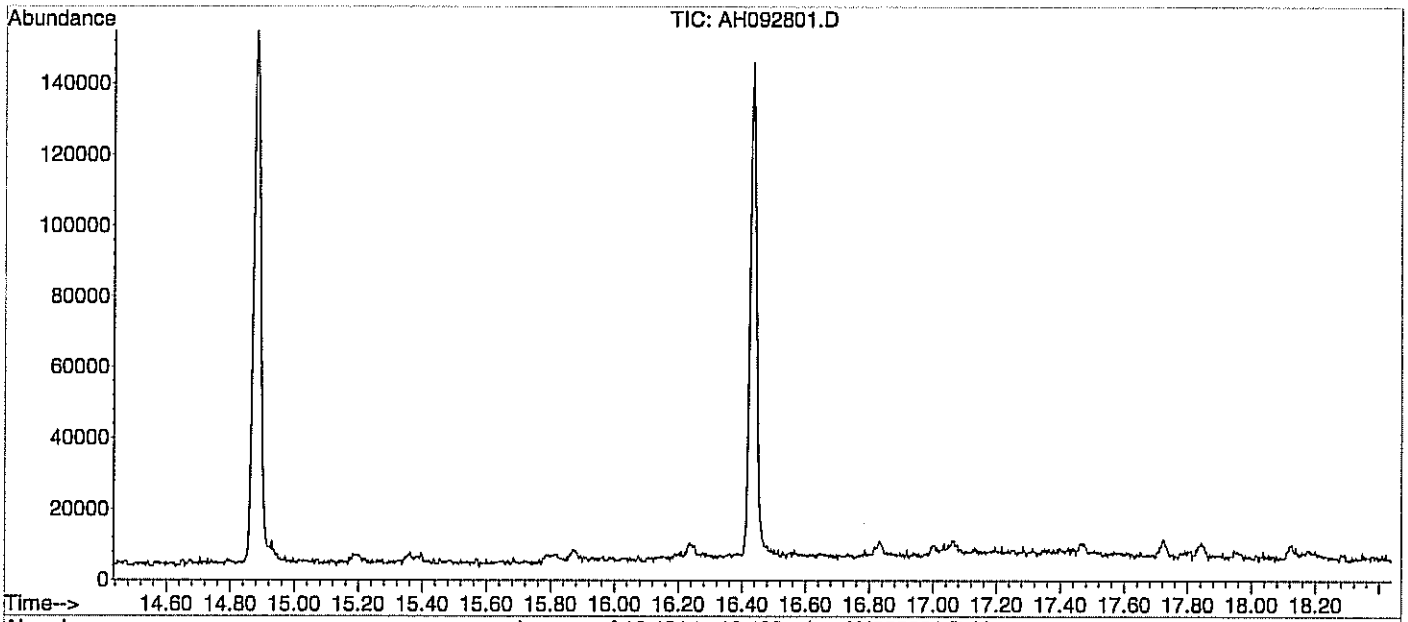
METHOD TO-15

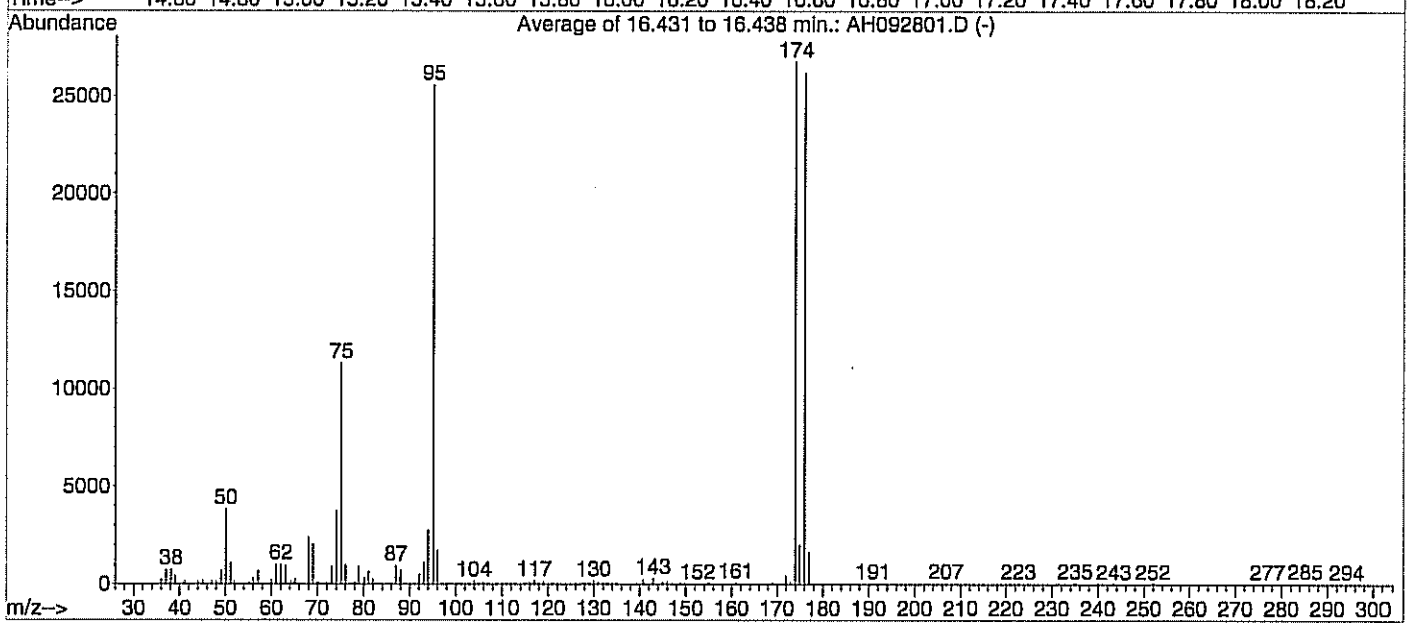
RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AH092801.D
Acq On : 28 Sep 2010 11:59 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.431 to 16.438 min.

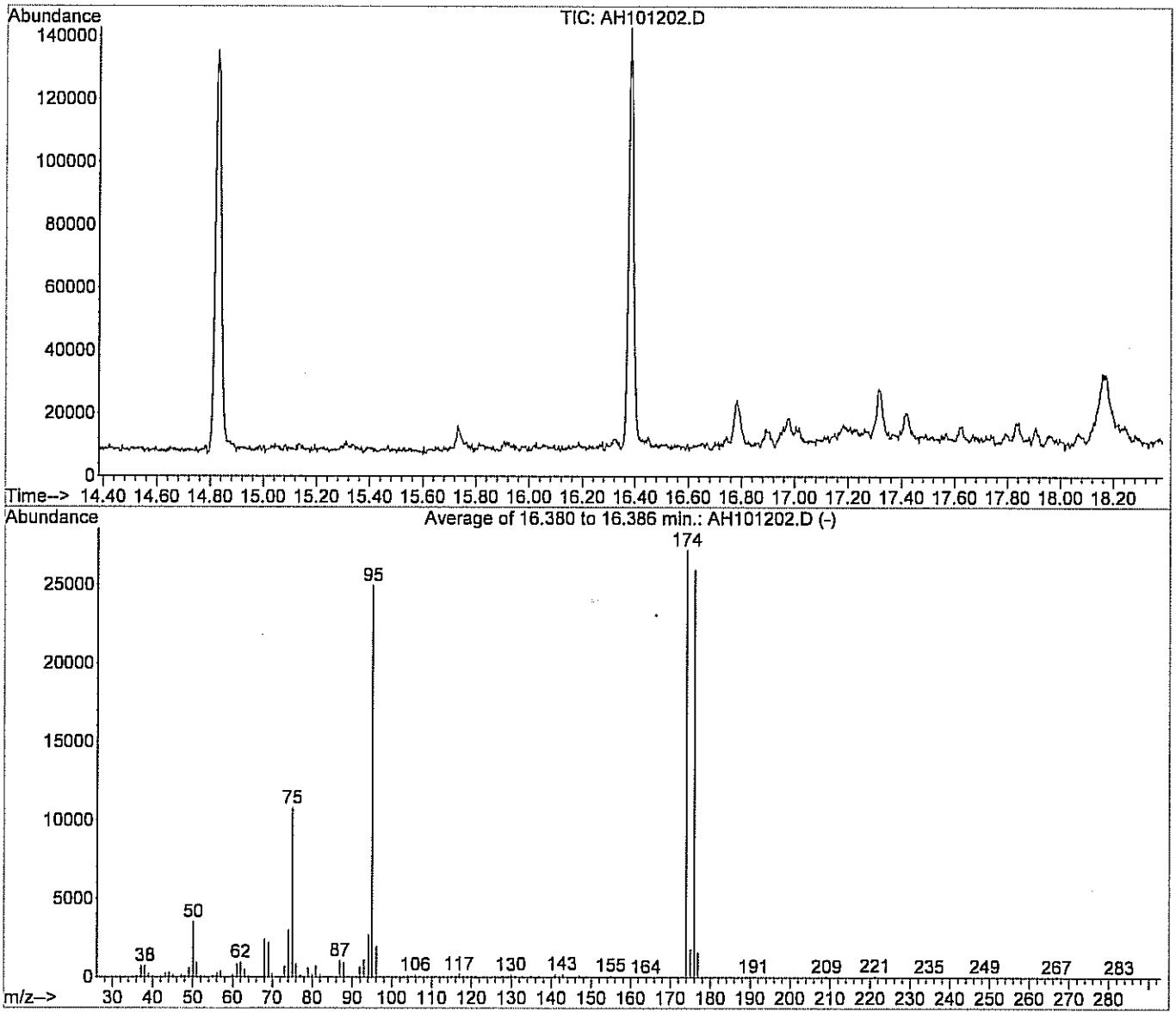
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.9	3819	PASS
75	95	30	66	44.2	11320	PASS
95	95	100	100	100.0	25594	PASS
96	95	5	9	6.8	1730	PASS
173	174	0.00	2	0.4	99	PASS
174	95	50	120	104.7	26808	PASS
175	174	4	9	7.5	2007	PASS
176	174	95	101	97.8	26221	PASS
177	176	5	9	6.2	1635	PASS

AH092801.D A928_1UT.M Tue Oct 19 11:26:41 2010 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AH101202.D
Acq On : 12 Oct 2010 9:40 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.380 to 16.386 min.

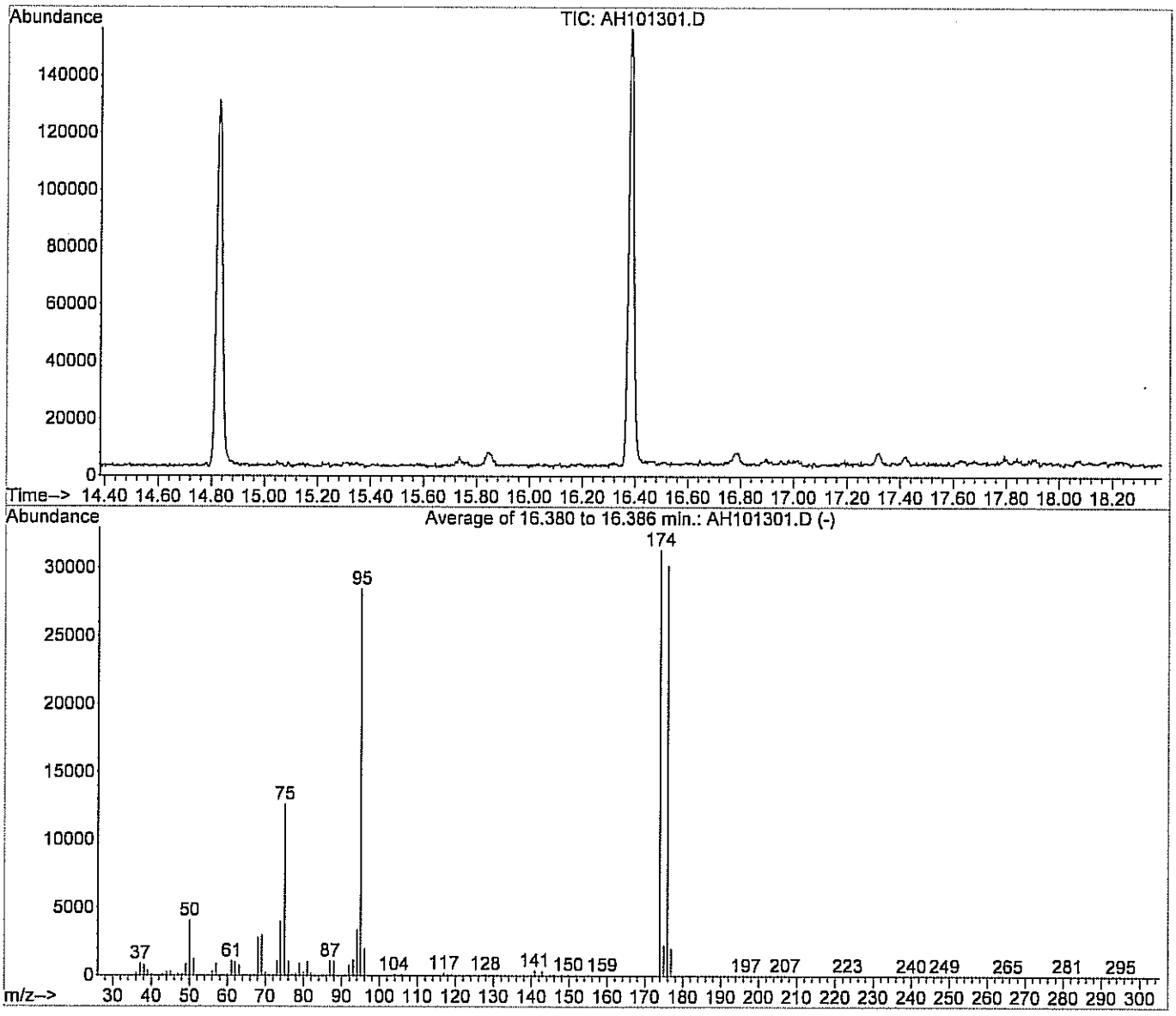
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.2	3537	PASS
75	95	30	66	43.2	10802	PASS
95	95	100	100	100.0	24984	PASS
96	95	5	9	7.8	1960	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	109.0	27242	PASS
175	174	4	9	6.6	1804	PASS
176	174	95	101	95.5	26008	PASS
177	176	5	9	6.1	1593	PASS

AH101202.D A928_1UT.M Tue Nov 09 13:59:35 2010 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AH101301.D
Acq On : 13 Oct 2010 10:58 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.380 to 16.386 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	14.3	4074	PASS
75	95	30	66	44.4	12650	PASS
95	95	100	100	100.0	28485	PASS
96	95	5	9	7.0	1990	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	110.2	31400	PASS
175	174	4	9	7.3	2280	PASS
176	174	95	101	96.3	30232	PASS
177	176	5	9	6.7	2036	PASS

AH101301.D A928_1UT.M Tue Nov 09 14:01:58 2010 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101210	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3963
Client ID:	ZZZZZ	Batch ID:	R3963	TestNo:	TO-15			Analysis Date:	10/12/2010	SeqNo:	48355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101210	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3963
Client ID:	ZZZZZ	Batch ID:	R3963	TestNo:	TO-15			Analysis Date:	10/12/2010	SeqNo:	48355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID AMB1UG-101210	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48355

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-101310	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101310	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-101310	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48365

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101205.D Vial: 5
Acq On : 12 Oct 2010 11:48 am Operator: RJP
Sample : AMB1UG-101210 Inst : MSD #1
Misc : AMB1UG-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 12:09:45 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

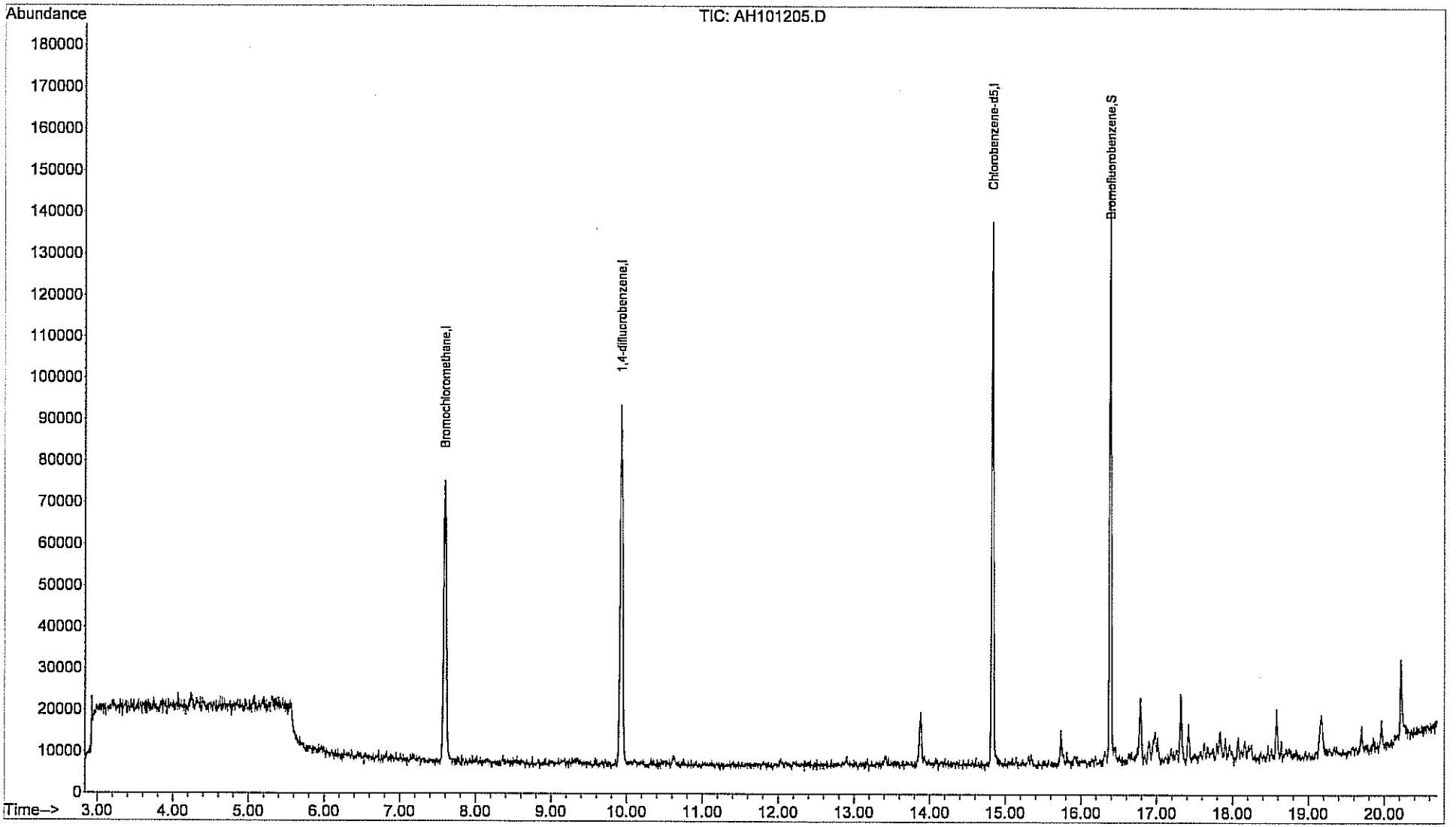
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	26517	1.00	ppb	-0.06
30) 1,4-difluorobenzene	9.93	114	98672	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	76866	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	39685	1.15	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101205.D Vial: 5
Acq On : 12 Oct 2010 11:48 am Operator: RJP
Sample : AMB1UG-101210 Inst : MSD #1
Misc : AMB1UG-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 11:07 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101304.D Vial: 4
Acq On : 13 Oct 2010 1:04 pm Operator: RJP
Sample : AMB1UG-101310 Inst : MSD #1
Misc : AMB1UG-101310 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 13:24:53 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	21775	1.00	ppb	-0.07
30) 1,4-difluorobenzene	9.93	114	80004	1.00	ppb	-0.06
44) Chlorobenzene-d5	14.83	117	71710	1.00	ppb	-0.05
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	40989	1.28	ppb	-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 128.00%			
Target Compounds						Qvalue

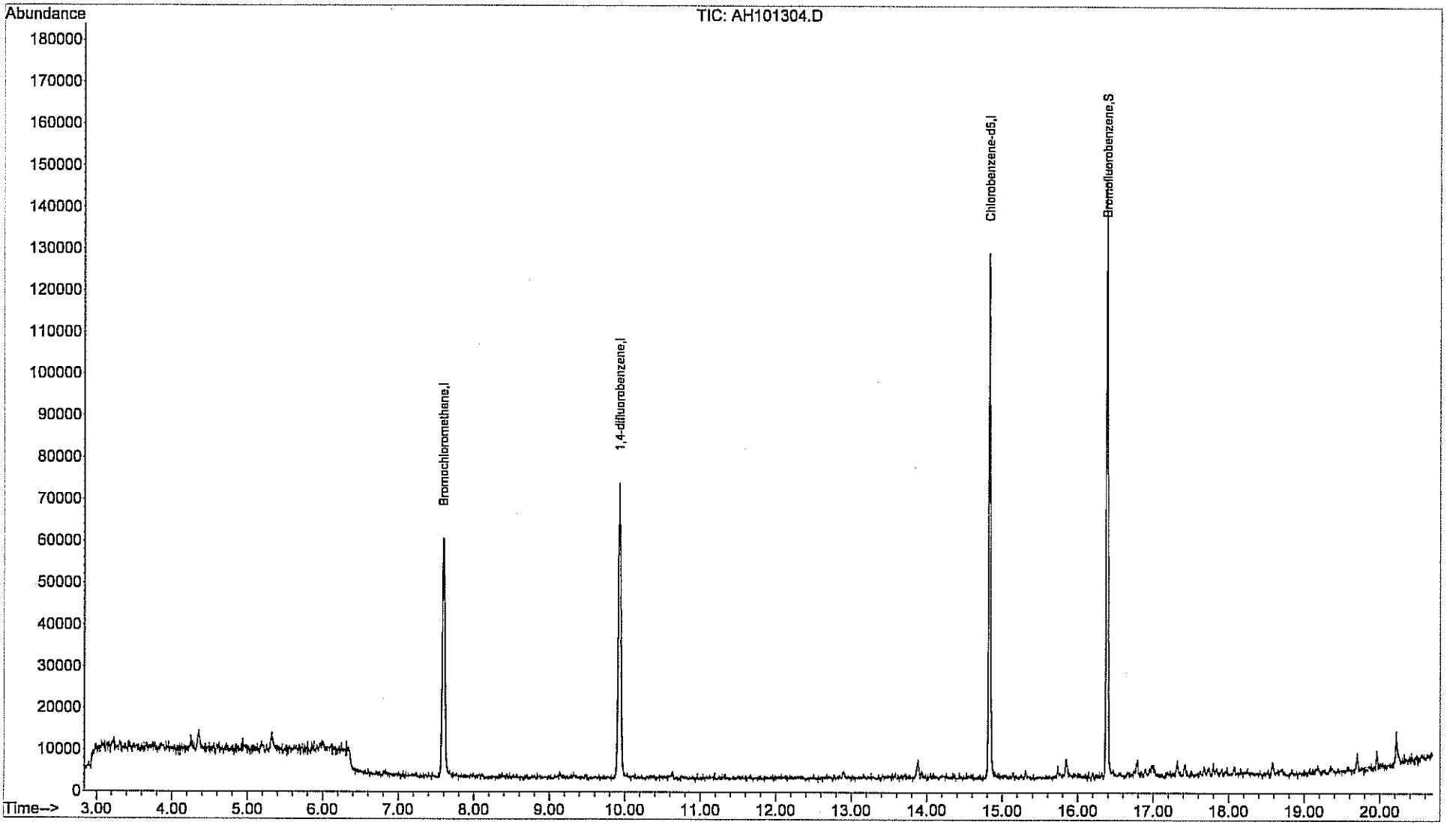
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH101304.D A928_1UT.M Tue Nov 09 13:58:43 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101304.D
Acq On : 13 Oct 2010 1:04 pm
Sample : AMB1UG-101310
Misc : AMB1UG-101310
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:34 2010

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101210	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1,2,2-Tetrachloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1,2-Trichloroethane	0.8200	0.15	1	0	82.0	70	130				
1,1-Dichloroethane	1.050	0.15	1	0	105	70	130				
1,1-Dichloroethene	1.010	0.15	1	0	101	70	130				
1,2,4-Trichlorobenzene	1.930	0.15	1	0	193	70	130				S
1,2,4-Trimethylbenzene	1.700	0.15	1	0	170	70	130				S
1,2-Dibromoethane	1.000	0.15	1	0	100	70	130				
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,2-Dichloroethane	0.8900	0.15	1	0	89.0	70	130				
1,2-Dichloropropane	0.9800	0.15	1	0	98.0	70	130				
1,3,5-Trimethylbenzene	1.260	0.15	1	0	126	70	130				
1,3-butadiene	0.7700	0.15	1	0	77.0	70	130				
1,3-Dichlorobenzene	1.190	0.15	1	0	119	70	130				
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130				
1,4-Dioxane	1.140	0.30	1	0	114	70	130				
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130				
4-ethyltoluene	1.380	0.15	1	0	138	70	130				S
Acetone	0.9800	0.30	1	0	98.0	70	130				
Allyl chloride	1.100	0.15	1	0	110	70	130				
Benzene	0.8600	0.15	1	0	86.0	70	130				
Benzyl chloride	1.240	0.15	1	0	124	70	130				
Bromodichloromethane	0.9300	0.15	1	0	93.0	70	130				
Bromoform	0.9400	0.15	1	0	94.0	70	130				
Bromomethane	0.8800	0.15	1	0	88.0	70	130				
Carbon disulfide	1.200	0.15	1	0	120	70	130				
Carbon tetrachloride	0.7400	0.15	1	0	74.0	70	130				
Chlorobenzene	0.9600	0.15	1	0	96.0	70	130				
Chloroethane	0.8000	0.15	1	0	80.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-101210	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3963
Client ID:	ZZZZZ	Batch ID:	R3963	TestNo:	TO-15			Analysis Date:	10/12/2010	SeqNo:	48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.9600	0.15	1	0	96.0	70	130				
Chloromethane	0.7800	0.15	1	0	78.0	70	130				
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.060	0.15	1	0	106	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	1.180	0.25	1	0	118	70	130				
Ethylbenzene	1.220	0.15	1	0	122	70	130				
Freon 11	1.060	0.15	1	0	106	70	130				
Freon 113	0.8600	0.15	1	0	86.0	70	130				
Freon 114	0.9000	0.15	1	0	90.0	70	130				
Freon 12	0.8500	0.15	1	0	85.0	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	0.9700	0.15	1	0	97.0	70	130				
Isopropyl alcohol	1.310	0.15	1	0	131	70	130				S
m&p-Xylene	2.290	0.30	2	0	114	70	130				
Methyl Butyl Ketone	1.060	0.30	1	0	106	70	130				
Methyl Ethyl Ketone	1.100	0.30	1	0	110	70	130				
Methyl Isobutyl Ketone	0.8700	0.30	1	0	87.0	70	130				
Methyl tert-butyl ether	2.040	0.15	1	0	204	70	130				S
Methylene chloride	0.8300	0.15	1	0	83.0	70	130				
o-Xylene	1.050	0.15	1	0	105	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	1.540	0.15	1	0	154	70	130				S
Tetrachloroethylene	0.8500	0.15	1	0	85.0	70	130				
Tetrahydrofuran	1.290	0.15	1	0	129	70	130				
Toluene	1.070	0.15	1	0	107	70	130				
trans-1,2-Dichloroethene	0.7800	0.15	1	0	78.0	70	130				
trans-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130				
Trichloroethene	0.8300	0.15	1	0	83.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101210	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48356

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.100	0.15	1	0	110	70	130				
Vinyl Bromide	1.140	0.15	1	0	114	70	130				
Vinyl chloride	0.8100	0.15	1	0	81.0	70	130				

Sample ID ALCS1UG-101310	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.090	0.15	1	0	109	70	130				
1,1,2,2-Tetrachloroethane	0.8700	0.15	1	0	87.0	70	130				
1,1,2-Trichloroethane	0.7500	0.15	1	0	75.0	70	130				
1,1-Dichloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1-Dichloroethene	0.9800	0.15	1	0	98.0	70	130				
1,2,4-Trichlorobenzene	1.730	0.15	1	0	173	70	130				S
1,2,4-Trimethylbenzene	1.520	0.15	1	0	152	70	130				S
1,2-Dibromoethane	0.8100	0.15	1	0	81.0	70	130				
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2-Dichloroethane	0.8500	0.15	1	0	85.0	70	130				
1,2-Dichloropropane	0.8500	0.15	1	0	85.0	70	130				
1,3,5-Trimethylbenzene	1.190	0.15	1	0	119	70	130				
1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.080	0.15	1	0	108	70	130				
1,4-Dioxane	0.9800	0.30	1	0	98.0	70	130				
2,2,4-trimethylpentane	0.8300	0.15	1	0	83.0	70	130				
4-ethyltoluene	1.440	0.15	1	0	144	70	130				S
Acetone	1.040	0.30	1	0	104	70	130				
Allyl chloride	1.010	0.15	1	0	101	70	130				
Benzene	0.7100	0.15	1	0	71.0	70	130				
Benzyl chloride	1.480	0.15	1	0	148	70	130				S

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-101310	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3964
Client ID:	ZZZZZ	Batch ID:	R3964	TestNo:	TO-15			Analysis Date:	10/13/2010	SeqNo:	48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	0.8900	0.15	1	0	89.0	70	130				
Carbon disulfide	1.160	0.15	1	0	116	70	130				
Carbon tetrachloride	0.8300	0.15	1	0	83.0	70	130				
Chlorobenzene	0.7300	0.15	1	0	73.0	70	130				
Chloroethane	0.7600	0.15	1	0	76.0	70	130				
Chloroform	0.8800	0.15	1	0	88.0	70	130				
Chloromethane	0.8000	0.15	1	0	80.0	70	130				
cis-1,2-Dichloroethene	0.8800	0.15	1	0	88.0	70	130				
cis-1,3-Dichloropropene	1.250	0.15	1	0	125	70	130				
Cyclohexane	0.8300	0.15	1	0	83.0	70	130				
Dibromochloromethane	0.9300	0.15	1	0	93.0	70	130				
Ethyl acetate	1.020	0.25	1	0	102	70	130				
Ethylbenzene	0.9100	0.15	1	0	91.0	70	130				
Freon 11	1.100	0.15	1	0	110	70	130				
Freon 113	0.8600	0.15	1	0	86.0	70	130				
Freon 114	0.9300	0.15	1	0	93.0	70	130				
Freon 12	0.8500	0.15	1	0	85.0	70	130				
Heptane	0.8900	0.15	1	0	89.0	70	130				
Hexachloro-1,3-butadiene	1.070	0.15	1	0	107	70	130				
Hexane	0.8400	0.15	1	0	84.0	70	130				
Isopropyl alcohol	1.610	0.15	1	0	161	70	130				S
m&p-Xylene	1.760	0.30	2	0	88.0	70	130				
Methyl Butyl Ketone	0.9800	0.30	1	0	98.0	70	130				
Methyl Ethyl Ketone	0.9500	0.30	1	0	95.0	70	130				
Methyl Isobutyl Ketone	0.8800	0.30	1	0	88.0	70	130				
Methyl tert-butyl ether	2.200	0.15	1	0	220	70	130				S
Methylene chloride	0.8100	0.15	1	0	81.0	70	130				
o-Xylene	0.8200	0.15	1	0	82.0	70	130				
Propylene	0.9000	0.15	1	0	90.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-101310	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3964
Client ID: ZZZZZ	Batch ID: R3964	TestNo: TO-15		Analysis Date: 10/13/2010	SeqNo: 48366

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	1.150	0.15	1	0	115	70	130				
Tetrachloroethylene	0.6600	0.15	1	0	66.0	70	130				S
Tetrahydrofuran	1.020	0.15	1	0	102	70	130				
Toluene	0.7800	0.15	1	0	78.0	70	130				
trans-1,2-Dichloroethene	0.9700	0.15	1	0	97.0	70	130				
trans-1,3-Dichloropropene	1.460	0.15	1	0	146	70	130				S
Trichloroethene	0.7200	0.15	1	0	72.0	70	130				
Vinyl acetate	1.050	0.15	1	0	105	70	130				
Vinyl Bromide	1.140	0.15	1	0	114	70	130				
Vinyl chloride	0.8100	0.15	1	0	81.0	70	130				

Sample ID ALCS1UGD-101210	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130	1.16	0.858	30	
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130	0.99	2.04	30	
1,1,2-Trichloroethane	0.8000	0.15	1	0	80.0	70	130	0.82	2.47	30	
1,1-Dichloroethane	1.050	0.15	1	0	105	70	130	1.05	0	30	
1,1-Dichloroethene	1.020	0.15	1	0	102	70	130	1.01	0.985	30	
1,2,4-Trichlorobenzene	1.650	0.15	1	0	165	70	130	1.93	15.6	30	S
1,2,4-Trimethylbenzene	1.730	0.15	1	0	173	70	130	1.7	1.75	30	S
1,2-Dibromoethane	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
1,2-Dichlorobenzene	1.190	0.15	1	0	119	70	130	1.19	0	30	
1,2-Dichloroethane	0.9200	0.15	1	0	92.0	70	130	0.89	3.31	30	
1,2-Dichloropropane	0.9400	0.15	1	0	94.0	70	130	0.98	4.17	30	
1,3,5-Trimethylbenzene	1.360	0.15	1	0	136	70	130	1.26	7.63	30	S
1,3-butadiene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,3-Dichlorobenzene	1.150	0.15	1	0	115	70	130	1.19	3.42	30	
1,4-Dichlorobenzene	1.170	0.15	1	0	117	70	130	1.17	0	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-101210	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 3963
Client ID: ZZZZZ	Batch ID: R3963	TestNo: TO-15		Analysis Date: 10/12/2010	SeqNo: 48357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,4-Dioxane	0.8300	0.30	1	0	83.0	70	130	1.14	31.5	30	R
2,2,4-trimethylpentane	0.8900	0.15	1	0	89.0	70	130	1	11.6	30	
4-ethyltoluene	1.660	0.15	1	0	166	70	130	1.38	18.4	30	S
Acetone	1.150	0.30	1	0	115	70	130	0.98	16.0	30	
Allyl chloride	1.070	0.15	1	0	107	70	130	1.1	2.76	30	
Benzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
Benzyl chloride	1.490	0.15	1	0	149	70	130	1.24	18.3	30	S
Bromodichloromethane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Bromoform	1.100	0.15	1	0	110	70	130	0.94	15.7	30	
Bromomethane	0.9300	0.15	1	0	93.0	70	130	0.88	5.52	30	
Carbon disulfide	1.990	0.15	1	0	199	70	130	1.2	49.5	30	SR
Carbon tetrachloride	0.8600	0.15	1	0	86.0	70	130	0.74	15.0	30	
Chlorobenzene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Chloroethane	0.8400	0.15	1	0	84.0	70	130	0.8	4.88	30	
Chloroform	0.9700	0.15	1	0	97.0	70	130	0.96	1.04	30	
Chloromethane	0.8300	0.15	1	0	83.0	70	130	0.78	6.21	30	
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	1.03	0	30	
cis-1,3-Dichloropropene	1.390	0.15	1	0	139	70	130	1.22	13.0	30	S
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.06	13.1	30	
Dibromochloromethane	1.050	0.15	1	0	105	70	130	1.01	3.88	30	
Ethyl acetate	1.120	0.25	1	0	112	70	130	1.18	5.22	30	
Ethylbenzene	1.130	0.15	1	0	113	70	130	1.22	7.66	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.06	5.50	30	
Freon 113	0.9200	0.15	1	0	92.0	70	130	0.86	6.74	30	
Freon 114	0.9300	0.15	1	0	93.0	70	130	0.9	3.28	30	
Freon 12	0.8700	0.15	1	0	87.0	70	130	0.85	2.33	30	
Heptane	1.000	0.15	1	0	100	70	130	1.1	9.52	30	
Hexachloro-1,3-butadiene	1.080	0.15	1	0	108	70	130	1.09	0.922	30	
Hexane	0.9700	0.15	1	0	97.0	70	130	0.97	0	30	
Isopropyl alcohol	1.050	0.15	1	0	105	70	130	1.31	22.0	30	
m&p-Xylene	2.120	0.30	2	0	106	70	130	2.29	7.71	30	

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1010018
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-101210	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3963
Client ID:	ZZZZZ	Batch ID:	R3963	TestNo:	TO-15			Analysis Date:	10/12/2010	SeqNo:	48357

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl Butyl Ketone	0.8400	0.30	1	0	84.0	70	130	1.06	23.2	30	
Methyl Ethyl Ketone	0.9800	0.30	1	0	98.0	70	130	1.1	11.5	30	
Methyl Isobutyl Ketone	0.7800	0.30	1	0	78.0	70	130	0.87	10.9	30	
Methyl tert-butyl ether	2.650	0.15	1	0	265	70	130	2.04	26.0	30	S
Methylene chloride	1.590	0.15	1	0	159	70	130	0.83	62.8	30	SR
o-Xylene	1.010	0.15	1	0	101	70	130	1.05	3.88	30	
Propylene	0.8600	0.15	1	0	86.0	70	130	0.95	9.94	30	
Styrene	1.440	0.15	1	0	144	70	130	1.54	6.71	30	S
Tetrachloroethylene	0.7800	0.15	1	0	78.0	70	130	0.85	8.59	30	
Tetrahydrofuran	1.200	0.15	1	0	120	70	130	1.29	7.23	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.07	9.80	30	
trans-1,2-Dichloroethene	1.080	0.15	1	0	108	70	130	0.78	32.3	30	R
trans-1,3-Dichloropropene	1.700	0.15	1	0	170	70	130	1.25	30.5	30	SR
Trichloroethene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
Vinyl acetate	1.330	0.15	1	0	133	70	130	1.1	18.9	30	S
Vinyl Bromide	1.130	0.15	1	0	113	70	130	1.14	0.881	30	
Vinyl chloride	0.8300	0.15	1	0	83.0	70	130	0.81	2.44	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101204.D Vial: 4
Acq On : 12 Oct 2010 11:17 am Operator: RJP
Sample : ALCS1UG-101210 Inst : MSD #1
Misc : ALCS1UG-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:38:21 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	26840	1.00	ppb		-0.07
30) 1,4-difluorobenzene	9.92	114	94330	1.00	ppb		-0.07
44) Chlorobenzene-d5	14.83	117	76180	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41382	1.21	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 121.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	14152	0.95	ppb		96
3) Freon 12	2.92	85	94895	0.85	ppb		100
4) Chloromethane	3.06	50	17103	0.78	ppb		92
5) Freon 114	3.06	85	50467	0.90	ppb		93
6) Vinyl Chloride	3.19	62	15385	0.81	ppb		97
7) 1,3-butadiene	3.27	39	9744	0.77	ppb		94
8) Bromomethane	3.51	94	17153	0.88	ppb		96
9) Chloroethane	3.63	64	6254	0.80	ppb		78
10) Vinyl Bromide	3.87	106	20564	1.14	ppb		99
11) Freon 11	4.08	101	56454	1.06	ppb		99
12) Acetone	4.23	58	6664	0.98	ppb	#	1
13) Isopropyl alcohol	4.33	45	14465m	1.31	ppb		
14) 1,1-dichloroethene	4.67	96	18370	1.01	ppb		89
15) Freon 113	4.85	101	37848	0.86	ppb		93
16) Methylene chloride	5.06	84	14563	0.83	ppb		95
17) Allyl chloride	5.05	41	15317	1.10	ppb		93
18) Carbon disulfide	5.18	76	49976	1.20	ppb		99
19) trans-1,2-dichloroethene	5.89	61	28132m	0.78	ppb		
20) methyl tert-butyl ether	5.97	73	53540	2.04	ppb	#	46
21) 1,1-dichloroethane	6.29	63	50686	1.05	ppb		100
22) Vinyl acetate	6.31	43	31686m	1.10	ppb		
23) Methyl Ethyl Ketone	6.79	43	52738	1.10	ppb		97
24) cis-1,2-dichloroethene	7.17	61	38706	1.03	ppb		98
25) Hexane	6.81	41	22518	0.97	ppb	#	83
26) Ethyl acetate	7.38	43	38022	1.18	ppb		97
27) Chloroform	7.76	83	74360	0.96	ppb		99
28) Tetrahydrofuran	7.94	42	19243	1.29	ppb		94
29) 1,2-dichloroethane	8.83	62	43168	0.89	ppb		99
31) 1,1,1-trichloroethane	8.54	97	70354	1.16	ppb		99
32) Cyclohexane	9.23	56	34024	1.06	ppb		87
33) Carbon tetrachloride	9.18	117	63893	0.74	ppb		98
34) Benzene	9.14	78	84402	0.86	ppb		98
35) 1,4-dioxane	10.98	88	11215	1.14	ppb		99
36) 2,2,4-trimethylpentane	10.11	57	90230	1.00	ppb		96
37) Heptane	10.53	43	30324	1.10	ppb		96
38) Trichloroethene	10.62	130	51357	0.83	ppb		97
39) 1,2-dichloropropane	10.74	63	28657	0.98	ppb		96
40) Bromodichloromethane	11.13	83	74052	0.93	ppb		96
41) cis-1,3-dichloropropene	12.05	75	31758m	1.22	ppb		
42) trans-1,3-dichloropropene	12.86	75	24030m	1.25	ppb		
43) 1,1,2-trichloroethane	13.16	97	38511	0.82	ppb		100
45) Toluene	12.90	92	57616	1.07	ppb		94
46) Methyl Isobutyl Ketone	12.02	43	17094	0.87	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101204.D Vial: 4
Acq On : 12 Oct 2010 11:17 am Operator: RJP
Sample : ALCS1UG-101210 Inst : MSD #1
Misc : ALCS1UG-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 11:38:21 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

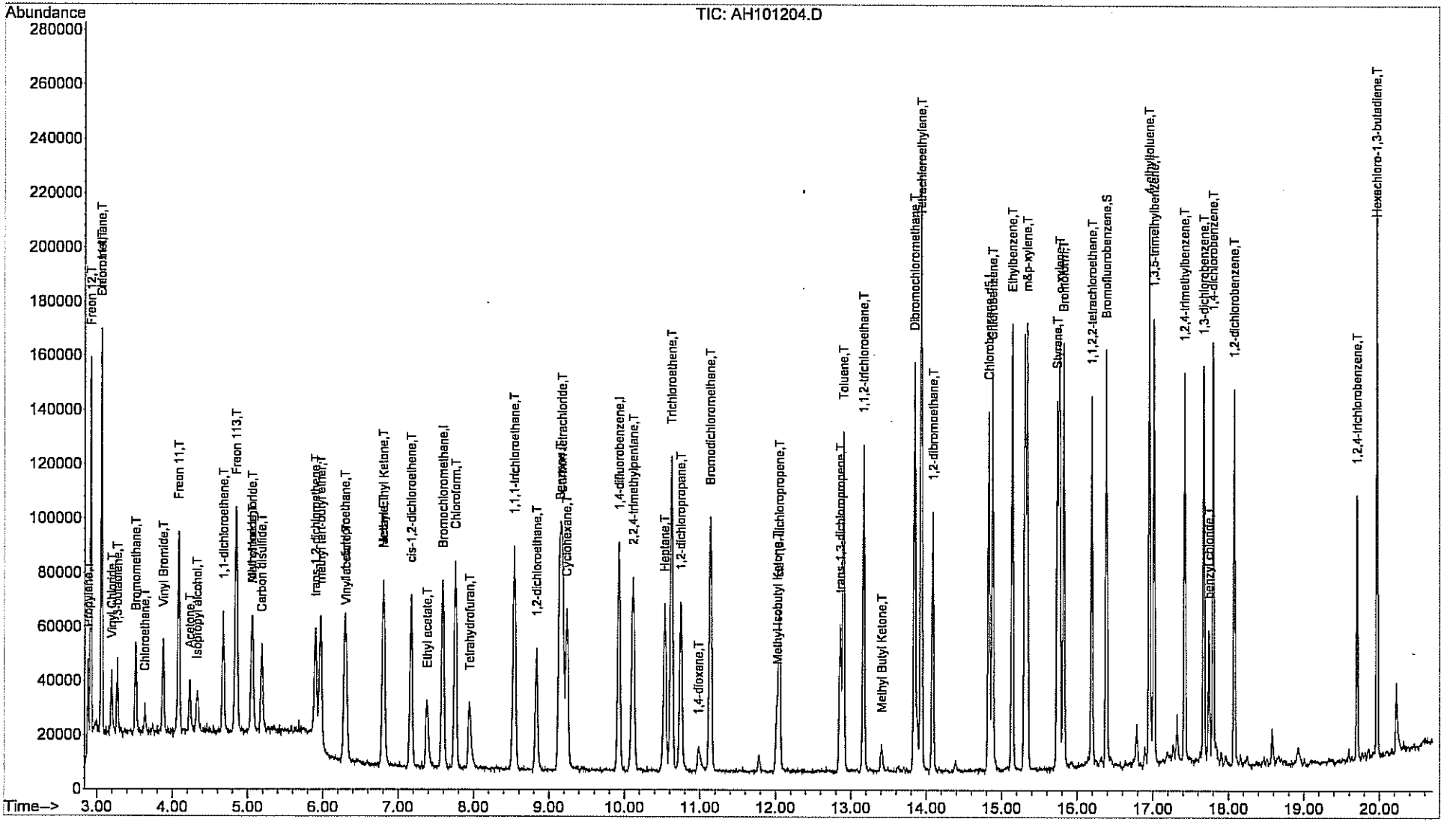
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	82409	1.01	ppb	100
48)	Methyl Butyl Ketone	13.41	43	18324m	1.06	ppb	
49)	1,2-dibromoethane	14.09	107	60760	1.00	ppb	97
50)	Tetrachloroethylene	13.93	164	52124	0.85	ppb	98
51)	Chlorobenzene	14.88	112	82507	0.96	ppb	97
52)	Ethylbenzene	15.14	91	113728	1.22	ppb	96
53)	m&p-xylene	15.34	91	174241	2.29	ppb	97
54)	Styrene	15.73	104	62620	1.54	ppb	92
55)	Bromoform	15.82	173	71494	0.94	ppb	98
56)	o-xylene	15.77	91	88573	1.05	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	57025	0.99	ppb	98
59)	4-ethyltoluene	16.95	105	96725m	1.38	ppb	
60)	1,3,5-trimethylbenzene	17.01	105	75634m	1.26	ppb	
61)	1,2,4-trimethylbenzene	17.42	105	73631	1.70	ppb	96
62)	1,3-dichlorobenzene	17.67	146	60296	1.19	ppb	99
63)	benzyl chloride	17.74	91	28484m	1.24	ppb	
64)	1,4-dichlorobenzene	17.79	146	56949	1.17	ppb	99
65)	1,2-dichlorobenzene	18.08	146	51011	1.19	ppb	100
66)	1,2,4-trichlorobenzene	19.71	180	25589	1.93	ppb	99
67)	Hexachloro-1,3-butadiene	19.97	225	32856	1.09	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101204.D Vial: 4
Acq On : 12 Oct 2010 11:17 am Operator: RJP
Sample : ALCS1UG-101210 Inst : MSD #1
Misc : ALCS1UG-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 11:07 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101303.D Vial: 3
Acq On : 13 Oct 2010 12:32 pm Operator: RJP
Sample : ALCS1UG-101310 Inst : MSD #1
Misc : ALCS1UG-101310 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 12:53:46 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	22118	1.00	ppb		-0.07
30) 1,4-difluorobenzene	9.92	114	79989	1.00	ppb		-0.07
44) Chlorobenzene-d5	14.83	117	74328	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41478m	1.25	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	11009	0.90	ppb		90
3) Freon 12	2.92	85	78172	0.85	ppb		100
4) Chloromethane	3.05	50	14518	0.80	ppb		100
5) Freon 114	3.06	85	42947	0.93	ppb		94
6) Vinyl Chloride	3.19	62	12658	0.81	ppb		96
7) 1,3-butadiene	3.27	39	9012m	0.86	ppb		
8) Bromomethane	3.51	94	14233	0.89	ppb		97
9) Chloroethane	3.64	64	4893	0.76	ppb		81
10) Vinyl Bromide	3.87	106	16904	1.14	ppb		98
11) Freon 11	4.08	101	48377	1.10	ppb		98
12) Acetone	4.23	58	5844	1.04	ppb	#	1
13) Isopropyl alcohol	4.33	45	14678m	1.61	ppb		
14) 1,1-dichloroethene	4.68	96	14673	0.98	ppb		95
15) Freon 113	4.84	101	31155	0.86	ppb		93
16) Methylene chloride	5.07	84	11809	0.81	ppb		98
17) Allyl chloride	5.05	41	11534	1.01	ppb		89
18) Carbon disulfide	5.18	76	39856	1.16	ppb		100
19) trans-1,2-dichloroethene	5.90	61	28882	0.97	ppb		98
20) methyl tert-butyl ether	5.96	73	47589	2.20	ppb	#	49
21) 1,1-dichloroethane	6.29	63	37215	0.94	ppb		99
22) Vinyl acetate	6.31	43	25094	1.05	ppb		100
23) Methyl Ethyl Ketone	6.79	43	37573	0.95	ppb		98
24) cis-1,2-dichloroethene	7.16	61	27038	0.88	ppb		99
25) Hexane	6.80	41	16018	0.84	ppb	#	86
26) Ethyl acetate	7.38	43	27096	1.02	ppb		97
27) Chloroform	7.75	83	56609	0.88	ppb		99
28) Tetrahydrofuran	7.94	42	12557	1.02	ppb		98
29) 1,2-dichloroethane	8.83	62	34086	0.85	ppb		100
31) 1,1,1-trichloroethane	8.53	97	55974	1.09	ppb		98
32) Cyclohexane	9.23	56	22449	0.83	ppb		97
33) Carbon tetrachloride	9.17	117	60747	0.83	ppb		99
34) Benzene	9.14	78	58745	0.71	ppb		98
35) 1,4-dioxane	10.99	88	8189	0.98	ppb		96
36) 2,2,4-trimethylpentane	10.11	57	63495	0.83	ppb		97
37) Heptane	10.53	43	20893	0.89	ppb		96
38) Trichloroethene	10.62	130	37875	0.72	ppb		97
39) 1,2-dichloropropane	10.74	63	21022	0.85	ppb		99
40) Bromodichloromethane	11.13	83	59803	0.89	ppb		97
41) cis-1,3-dichloropropene	12.04	75	27426	1.25	ppb		97
42) trans-1,3-dichloropropene	12.85	75	23845	1.46	ppb		92
43) 1,1,2-trichloroethane	13.16	97	29961	0.75	ppb		99
45) Toluene	12.89	92	40930	0.78	ppb		98
46) Methyl Isobutyl Ketone	12.01	43	16853	0.88	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101303.D Vial: 3
Acq On : 13 Oct 2010 12:32 pm Operator: RJP
Sample : ALCS1UG-101310 Inst : MSD #1
Misc : ALCS1UG-101310 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 12:53:46 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

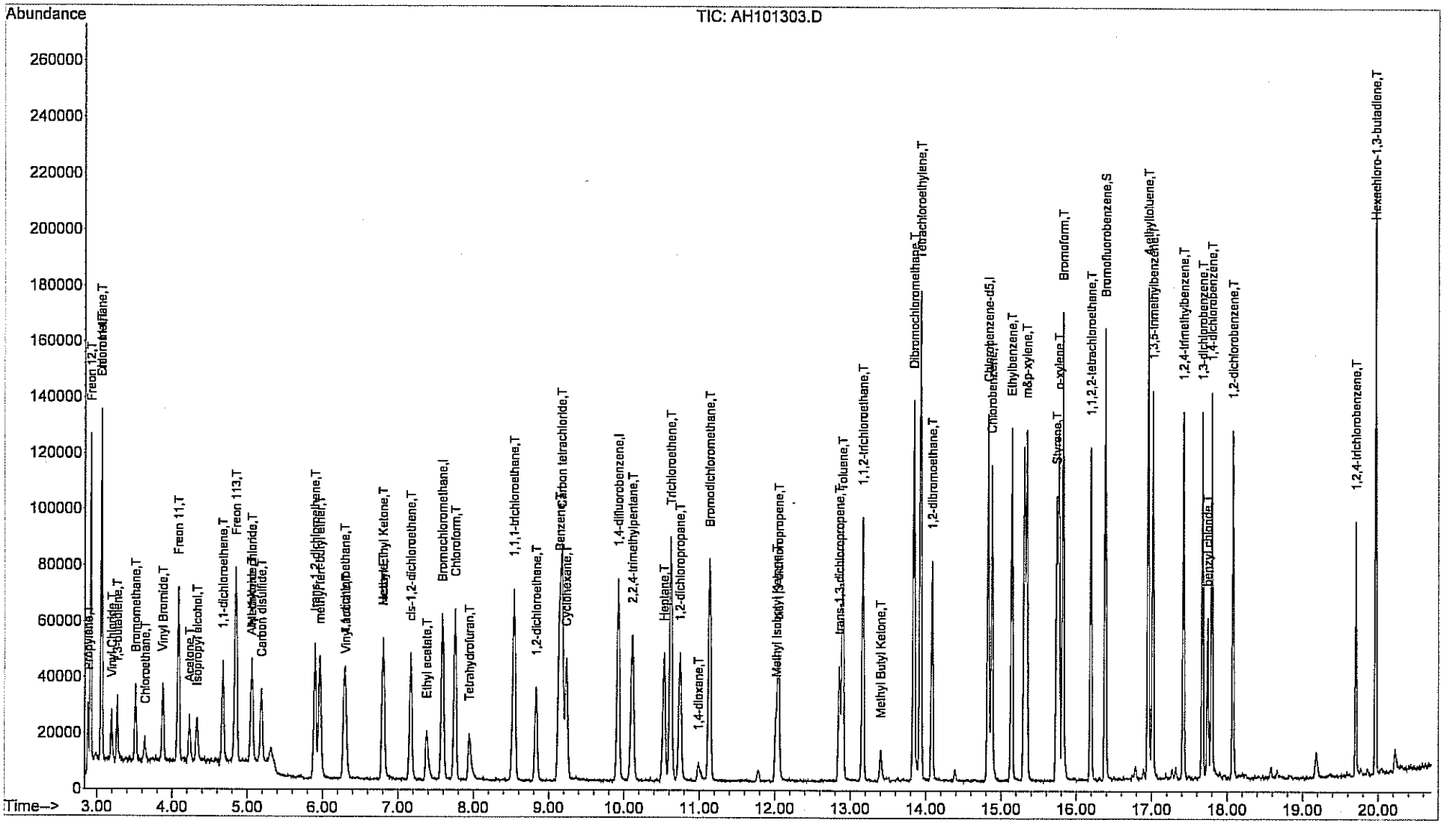
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	73890 h	0.93	ppb	100
48)	Methyl Butyl Ketone	13.40	43	16654m	0.98	ppb	
49)	1,2-dibromoethane	14.08	107	48189	0.81	ppb	97
50)	Tetrachloroethylene	13.93	164	39562	0.66	ppb	97
51)	Chlorobenzene	14.87	112	61374	0.73	ppb	99
52)	Ethylbenzene	15.14	91	83312	0.91	ppb	97
53)	m&p-xylene	15.34	91	130291	1.76	ppb	98
54)	Styrene	15.74	104	45481	1.15	ppb	94
55)	Bromoform	15.82	173	73052	0.99	ppb	99
56)	o-xylene	15.77	91	67185	0.82	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	49080	0.87	ppb	100
59)	4-ethyltoluene	16.95	105	97941	1.44	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	69675	1.19	ppb	96
61)	1,2,4-trimethylbenzene	17.42	105	64407	1.52	ppb	98
62)	1,3-dichlorobenzene	17.67	146	50075	1.01	ppb	99
63)	benzyl chloride	17.74	91	33312	1.48	ppb	91
64)	1,4-dichlorobenzene	17.80	146	51503	1.08	ppb	100
65)	1,2-dichlorobenzene	18.07	146	44853	1.07	ppb	98
66)	1,2,4-trichlorobenzene	19.71	180	22379	1.73	ppb	97
67)	Hexachloro-1,3-butadiene	19.96	225	31452	1.07	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101303.D Vial: 3
Acq On : 13 Oct 2010 12:32 pm Operator: RJP
Sample : ALCS1UG-101310 Inst : MSD #1
Misc : ALCS1UG-101310 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 18 12:33 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



AH101303.D A928_1UT.M Tue Nov 09 13:58:41 2010 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101219.D Vial: 5
Acq On : 12 Oct 2010 7:57 pm Operator: RJP
Sample : ALCS1UGD-101210 Inst : MSD #1
Misc : ALCS1UGD-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 20:18:33 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	23725	1.00	ppb		-0.06
30) 1,4-difluorobenzene	9.92	114	88519	1.00	ppb		-0.07
44) Chlorobenzene-d5	14.83	117	74321	1.00	ppb		-0.05
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41667m	1.25	ppb		-0.05
Spiked Amount 1.000	Range 70 - 130		Recovery = 125.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	11307	0.86	ppb		99
3) Freon 12	2.92	85	85969	0.87	ppb		99
4) Chloromethane	3.06	50	16259	0.83	ppb		97
5) Freon 114	3.06	85	45993	0.93	ppb		94
6) Vinyl Chloride	3.19	62	13833	0.83	ppb		98
7) 1,3-butadiene	3.27	39	10251	0.91	ppb		96
8) Bromomethane	3.51	94	15969	0.93	ppb		94
9) Chloroethane	3.63	64	5765	0.84	ppb		98
10) Vinyl Bromide	3.88	106	18118	1.13	ppb		97
11) Freon 11	4.08	101	52642	1.12	ppb		100
12) Acetone	4.23	58	6894	1.15	ppb	#	1
13) Isopropyl alcohol	4.33	45	10244m	1.05	ppb		
14) 1,1-dichloroethene	4.68	96	16373	1.02	ppb		93
15) Freon 113	4.85	101	35809	0.92	ppb		95
16) Methylene chloride	5.07	84	24762	1.59	ppb	#	85
17) Allyl chloride	5.05	41	13178m	1.07	ppb		
18) Carbon disulfide	5.19	76	73467	1.99	ppb		100
19) trans-1,2-dichloroethene	5.90	61	34619	1.08	ppb		97
20) methyl tert-butyl ether	5.96	73	61602	2.65	ppb	#	46
21) 1,1-dichloroethane	6.29	63	44894	1.05	ppb		99
22) Vinyl acetate	6.31	43	34036	1.33	ppb		98
23) Methyl Ethyl Ketone	6.80	43	41708	0.98	ppb		97
24) cis-1,2-dichloroethene	7.17	61	34165	1.03	ppb		99
25) Hexane	6.81	41	19925	0.97	ppb		98
26) Ethyl acetate	7.38	43	31912	1.12	ppb		99
27) Chloroform	7.75	83	66844	0.97	ppb		99
28) Tetrahydrofuran	7.95	42	15806	1.20	ppb		97
29) 1,2-dichloroethane	8.84	62	39466	0.92	ppb		99
31) 1,1,1-trichloroethane	8.53	97	66545	1.17	ppb		98
32) Cyclohexane	9.24	56	27896	0.93	ppb		93
33) Carbon tetrachloride	9.18	117	69376	0.86	ppb		99
34) Benzene	9.14	78	73731	0.80	ppb		98
35) 1,4-dioxane	11.00	88	7671	0.83	ppb		90
36) 2,2,4-trimethylpentane	10.12	57	75181	0.89	ppb		96
37) Heptane	10.53	43	25751	1.00	ppb		96
38) Trichloroethene	10.62	130	46181	0.79	ppb		99
39) 1,2-dichloropropane	10.75	63	25644	0.94	ppb		97
40) Bromodichloromethane	11.14	83	70214	0.94	ppb		96
41) cis-1,3-dichloropropene	12.05	75	33740	1.39	ppb		97
42) trans-1,3-dichloropropene	12.86	75	30671	1.70	ppb		90
43) 1,1,2-trichloroethane	13.17	97	35587	0.80	ppb		100
45) Toluene	12.90	92	51119	0.97	ppb		95
46) Methyl Isobutyl Ketone	12.02	43	14974	0.78	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101219.D Vial: 5
Acq On : 12 Oct 2010 7:57 pm Operator: RJP
Sample : ALCS1UGD-101210 Inst : MSD #1
Misc : ALCS1UGD-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 12 20:18:33 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

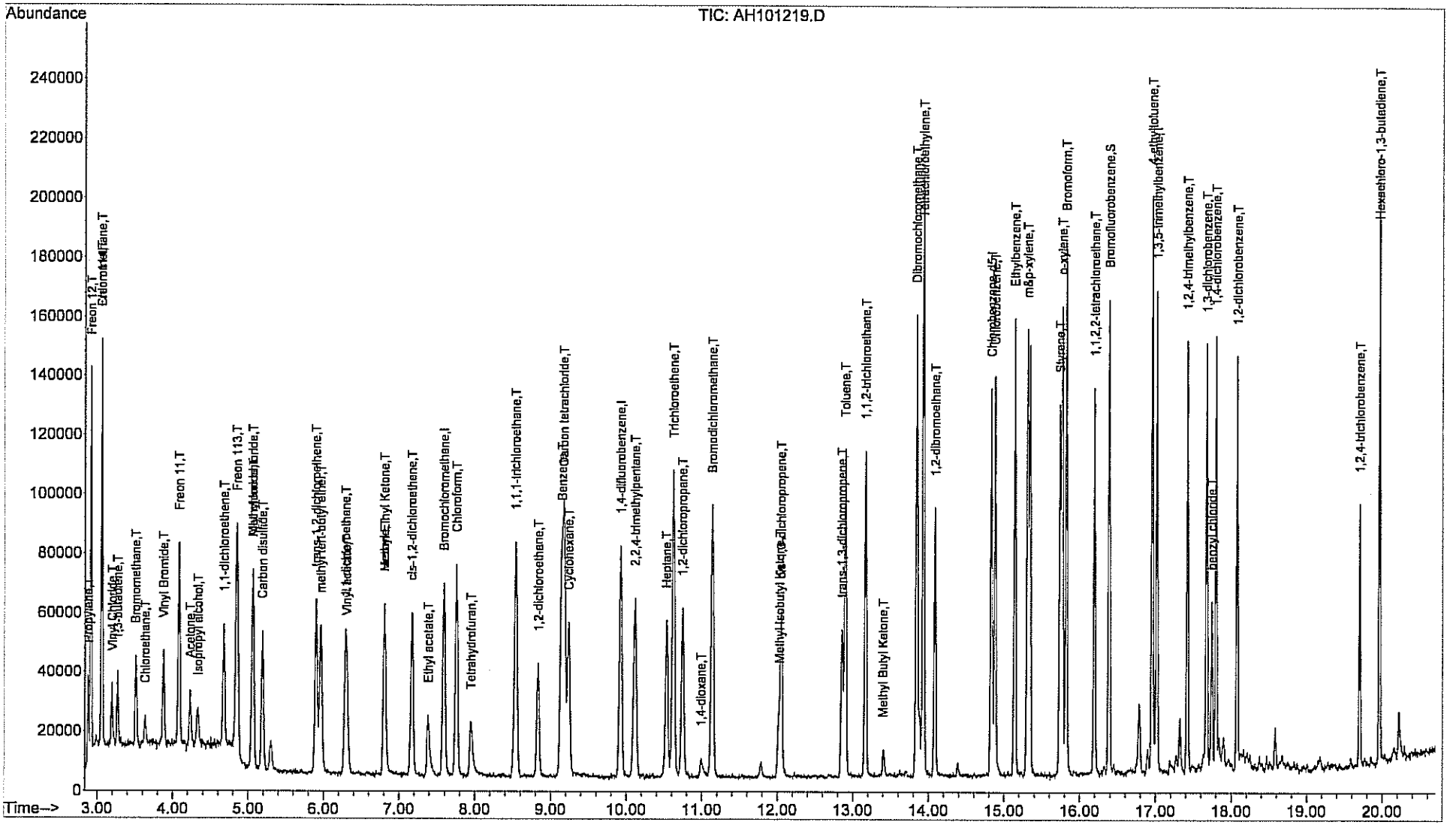
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	83686	1.05	ppb	100
48)	Methyl Butyl Ketone	13.41	43	14189m	0.84	ppb	
49)	1,2-dibromoethane	14.09	107	57167	0.97	ppb	97
50)	Tetrachloroethylene	13.93	164	46548	0.78	ppb	96
51)	Chlorobenzene	14.88	112	74119	0.88	ppb	97
52)	Ethylbenzene	15.14	91	102701	1.13	ppb	95
53)	m&p-xylene	15.31	91	157208	2.12	ppb	96
54)	Styrene	15.74	104	57058	1.44	ppb	91
55)	Bromoform	15.82	173	81121	1.10	ppb	100
56)	o-xylene	15.77	91	83056	1.01	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	54877	0.97	ppb	100
59)	4-ethyltoluene	16.95	105	113373	1.66	ppb	99
60)	1,3,5-trimethylbenzene	17.02	105	79638	1.36	ppb	96
61)	1,2,4-trimethylbenzene	17.42	105	73088	1.73	ppb	94
62)	1,3-dichlorobenzene	17.67	146	56808	1.15	ppb	100
63)	benzyl chloride	17.74	91	33437	1.49	ppb	88
64)	1,4-dichlorobenzene	17.80	146	55730	1.17	ppb	99
65)	1,2-dichlorobenzene	18.08	146	49983	1.19	ppb	100
66)	1,2,4-trichlorobenzene	19.70	180	21387	1.65	ppb	97
67)	Hexachloro-1,3-butadiene	19.96	225	31779	1.08	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101219.D Vial: 5
Acq On : 12 Oct 2010 7:57 pm Operator: RJP
Sample : ALCS1UGD-101210 Inst : MSD #1
Misc : ALCS1UGD-101210 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 13 11:09 2010 Quant Results File: A928_1UT.RES

Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 13:47:37 2010
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8073
Standard Stock #(s) 8074
LCS Stock #(s) 8075
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	DFBLUG	AH 052801	-	-	A 928.mw		9/28/10	1159		
	ALUG=2.0	02	-	200						
	1.5	03	-							
	1.25	04	-							
	1.0	05	-	200						
	0.75	06	-							
	0.50	07	-							
	0.30	08	-							
	0.10	11	-							
	0.15	17	-							
	0.04	20	-							
	0.02	21	-							
	BLK	22	-							
	WALO528/10A	W1 23	-	200			9/29/10	0004		
	B	24	-							
	C	25	-							
	RP		-	"				0346		

Analyzed by: [signature]

Page No: 322

Centek laboratories, LLC

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8099
Standard Stock #(s) 8100
LCS Stock #(s) 8101
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1016	AH101202	-	-	A928.1016		10/12/10	0540		
	A1016-1.0	03	-	200						
	ALCS1016-101210	04	-							
	ANB1016 ↓	05	-							
	C10100010-012	06	-							
	001	07	-							
	002	08	-							
	003	09	-							
	004	10	-							
	005	11	-							
	006	12	-							
	007	13	-	↓						
	008DL	14	5	40						
	009	15	-	200						
	010	16	-							
	011	17	-							
	ALCS1016-101210	19	-							
	C10100018-001	20	-							
	002	21	-							
	003	22	-							
	004	23	-							
	005	24	-	↓						
	006 DL	25	40	5			↓			
	WAC101210A	27	-	200			10/13/10	0041		
	B	28	-							
	C	29	-							
	D	30	-							
	E	31	-							
	F	32	-	↓	↓		↓	0828		

Analyzed by: mg

Page No: 327

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8059
Standard Stock #(s) 8100
LCS Stock #(s) 8101
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C10100 10-002 DL	AH101233	5	4	AG28IUG		10/13/10	0351		
	↓	34	50	20 (9) *						
	004	35	10	20						
	005	36	5	40						
	010	37	10	20						
	↓	38	40	5						
	C1010018-001	39	5	40						
	002	40	↓	↓						
	C1010010-004	41	810	20 (8) *						
	810 ↓	42	7250	10 ↓						
	C1010018-006	43	-	200				0915		
	BLK	44	-	-						
	BFB10UG	AH101301	-	-			10/13/10	1058		
	A10UG-10	02	-	200	AG28IUG					
	ALCS10UG-101310	03	-							
	AMB10UG ↓	04	-							
	C1010018-007	05	-	↓						
	003 DL	06	5	40						
	002	08	90	20 (9) *						
	003	09	270	1 (27) *						
	001 ↓	11	90	6 (9) *						
	RTP BLK.	12	-	200						
	↓	13	-	↓			↓	0953		

Analyzed by: [signature]

Page No: 328

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15IUT IS^A	6112	50ppb	0.5psig	30psia	1 ppb	AD	
6118	11/12/08	11/09	TO15 IS	AB-2153	1 ppm	SPECTRA GASES			mp	
6119	↓	↓	TO15 SUBSET	AB-2274	↓	↓	↓	↓	↓	} REGEAT 3/11/10 7740A+B
6120	↓	↓	TO14 MIX	AB-2238	↓	↓	↓	↓	↓	↓
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psig	30psia	50 ppb	mp	
6122	↓	↓	↓ STD	4152/4153	↓	↓	↓	↓	↓	↓
6123	↓	↓	↓ LCS	2056/2057	↓	↓	↓	↓	↓	↓
6124	↓	↓	TO15IUT IS^A	6121	50ppb	0.5psig	45psia	1ppb	↓	↓
6125	↓	↓	↓ STD^A	6122	↓	↓	↓	↓	↓	↓
6126	↓	↓	↓ LCS	6123	↓	↓	↓	↓	↓	↓
6127	11/15/08	↓	TO15IUT IS^A	6121	50 ppb	0.5psig	45psia	1ppb	↓	↓
6128	11/17/08	11/21/08	TO15IUT IS^B	6121	↓	↓	↓	↓	↓	↓
6129	↓	↓	↓ STD^B	6122	↓	↓	↓	↓	↓	↓
6130	↓	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	↓
6131	11/18/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	↓
6132	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	↓
6133	11/19/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	↓
6134	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	↓

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	TO15IVT IS[A]	7352	50ppb	0.9psig	45psia	1ppb	MP	
7366	8/31/09	9/10	TO15 IS	06503 003	1ppm	SCOTT GASES		1ppm	MP	
7367	8/31/09	9/6/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	MP	
7368	↓	↓	STD	6119/20	↓	↓	↓	↓		
7369			LCS	6192/93						
7370			SIL/SUL	6194						
7371			TO15IVT IS[A]	7367	50ppb	0.9psig	45psia	1ppb		
7372			STD[A]	7368	↓	↓	↓	↓		
7373			LCS	7369						
7374	9/1/09		TO15IVT IS[A]	7367						
7375	9/2/09	↓	↓	↓	↓	↓	↓	↓		
7376	9/1/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	I.L.	
7377	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	
7378	9/2/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	I.L.	
7379	9/2/09	9/6/09	↓ IS[A]	7367	↓	↓	↓	↓	I.L.	
7380	9/3/09	9/10/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
7381	9/3/09	9/10/09	TO15IVT IS[A]	7380	50ppb	0.9psig	45psia	1ppb	I.L.	
7382	9/3/09	9/10/09	↓ IS[B]	7380	↓	↓	↓	↓	↓	
7382A	8/31/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	I.L.	
7382B	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb	↓	
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	%VARIES	10L	MATHESON TRI-GAS		M	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621	↓	↓	↓ STD(A)	7617/7618 7384/	↓	↓	↓	↓	↓	
7622	↓	↓	↓ LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624	↓	↓	↓ STD(A)	7621	↓	↓	↓	↓	↓	
7625	↓	↓	↓ LCS	7622	↓	↓	↓	↓	↓	
7626	↓	↓	↓ IS(B)	7620	↓	↓	↓	↓	↓	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7789	3/31/10	4/5/10	TO15 IVGIS (A)	7779	50ppb	0.9psig	45psia	1ppb	L.L.	
7740A	3/11/10	11/11/10	LCS TO15 SUBSET	AB-2244 6119	1ppm	SPECTRA	GASES	*RECERTIFIED	L.L.	
7740B	3/11/10	11/11/10	LCS TO14 MIX	AB-2236 6120	↓	↓		*LCS*	↓	
7790	3/31/10	4/5/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7791	3/31/10	4/5/10	FORM 10ppm	7068	36.5%	1.1ml	50psia	10ppm		
7792	↓	↓	FORM 50ppb	7791	10ppm	0.23psig	45psia	50ppb	↓	
7793	4/5/10	4/12/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7794	↓	↓	↓ STD	7617/7618	↓	↓	↓	↓	↓	
7795	↓	↓	↓ LCS	7740A/7740B	↓	↓	↓	↓	↓	
7796	4/5/10	4/12/10	TO15 IVGIS (A)	7793	50ppb	0.9psig	45psia	1ppb	↓	
7797	↓	↓	↓ STD (A)	7794	↓	↓	↓	↓		
7798	↓	↓	↓ LCS	7795	↓	↓	↓	↓		
7799	4/5/10	4/12/10	TO15 IVG IS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	
7800	↓	↓	↓ STD (B)	7794	↓	↓	↓	↓	↓	
7801	4/6/10	4/12/10	TO15 IVGIS (A)	7793	50ppb	0.9psig	45psia	1ppb		
7802	4/6/10	4/12/10	TO15 IVGIS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	
7803	4/7/10	4/12/10	TO15 IVGIS (A)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	
7804	4/7/10	4/12/10	TO15 IVGIS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	

Centek laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7840	4/26/10	5/3/10	TO15 FORM	7068	36.5%	1.1uL	30psiA	10ppm	LL	
7841	↓	↓	↓ FORM-SD	7822	10ppm	0.23psiG	50psiA	50ppb	↓	
7842	4/27/10		TO15/UG IS B	7837	50ppb	0.9psiG	45psiA	1ppb	LL	
7843	↓		STD B	7838	↓	↓	↓	↓	↓	
7844	↓		LCS	7835						
7845	4/28/10		IS A	7837					MM	
7846	↓	↓	↓ STD A	7836	↓	↓	↓	↓	↓	
7847	5/3/10	5/10/10	TO15 IS	7366	1ppm	1.5psiG	30psiA	50ppb	MM	
7848	↓	↓	STD	7617/18	↓	↓	↓	↓	↓	
7849			LCS	7740A/B						
7850			SIL/GUL	6194/7046	↓	↓	↓			
7851			FORM	7068	36.5%	1.1uL	30psiA	10ppm		
7852			↓ FORM-SD	7851	10ppm	0.23psiG	50psiA	50ppb	↓	
7853			TO15/UG IS A	7847	50ppb	0.5psiG	45psiA	1ppb	MM	
7854			↓ STD A	7848	↓	↓	↓	↓	↓	
7855	↓		↓ LCS	7849						
7856	5/6/10	↓	↓ IS	7847	↓	↓	↓	↓	↓	
7857	5/10/10	5/11	TO15 IS+BFB	AB 100102	1PPM	LINDE	GAS	1ppm	MM	

Page # 92

Centek laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8061	9/20/10	9/28/10	TO15/UG IS A	8054	50ppb	0.9psig	45psia	1ppb	MB	
8062	↓	↓	STD B	8055	↓	↓	↓	↓	↓	
8063			LCS	8056						
8064			IS B	8054						
8065	↓	↓	STD B	8055	↓	↓	↓	↓	↓	
8066	9/28/10	10/4/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	MB	
8067			STD	7617/18						
8068			LCS	7740/41						
8069			O,LX/SUL	6154/7046						
8070			~~FORM~~ HPCH	7384						
8071			FORM	7068	36.5%	1.1ul	50psig	10ppm		
8072			FORM B	8071	10ppm	0.25psig	45psia	50ppb		
8073			TO15/UG IS A	8066	50ppb	~~0.90~~ 0.90psig	45psia	1ppb		
8074			STD A	8067						
8075			LCS	8068						
8076			IS B	8066						
8077			STD B	8067						
8078	9/29/10	10/4/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.I	

Page # 104

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8079	9/29/10	10/4/10	TO15IUG IS(A)	8078	50ppb	0.9psig	45psia	1ppb	I.L.	
8080	10/1/10	10/4/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
8081	10/4/10	10/11/10	TO15 IS	7366	↓	↓	↓	↓	↓	
8082	↓	↓	↓ STD	7617/7618						
8083			↓ LCS	7740/7741	↓	↓	↓	↓		
8084			TO15 SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb		
8085			↓ 4PCH	7384	↓	↓	↓	↓		
8086			↓ FORM	7068	36.5%	1.141	50psig	10ppm		
8087	↓	↓	FORM 50	8086	10ppm	0.23psig	45psia	50ppb	↓	
8088	10/4/10	10/11/10	TO15IUG IS(A)	8081	50ppb	0.9psig	45psia	↓	AD	
8089	↓	↓	↓ STD(A)	8082	↓	↓	↓		↓	
8090			↓ LCS	8083						
8091	10/6/10	10/11/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
8092	10/11/10	10/18/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	MP	
8093	↓	↓	↓ STD	7617/7618	↓	↓	↓	↓	↓	
8094			↓ LCS	7740/7741						
8095			SILX/SULF	6194/7046						
8096	↓	↓	↓ 4PCH	7384	↓	↓	↓	↓	↓	
8096A	10/6/10	10/11/10	TO15IBGIS(B)	8091	50ppb	0.9psig	45psia	1ppb	I.L.	
8096B	↓	↓	↓ STD(B)	8082	↓	↓	↓	↓	↓	

Page # 105

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8097	10/11/10	10/18/10	TO15 FORM	7068	36.5%	1.1ul	50psig	10ppm	L.L.	
8098	↓	↓	↓ FORM 50	8097	10ppm	0.23psig	45psia	50ppb	↓	
8099	10/11/10	10/18/10	TO15 IUG IS (A)	8092	50ppb	0.9psig	45psia	1ppb	M	
8100	↓	↓	↓ STD (A)	8093	↓	↓	↓	↓	↓	
8101	↓	↓	↓ LCS	8094	↓	↓	↓	↓	↓	
8102	10/12/10	10/18/10	TO15 IUG IS (B)	8092	50ppb	0.9psig	45psia	1ppb	L.L.	
8103	↓	↓	↓ STD (B)	8093	↓	↓	↓	↓	↓	
8104	10/13/10	10/18/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
8105	10/13/10	10/18/10	TO15 IUG IS (B)	8104	50ppb	0.9psig	45psia	1ppb	L.L.	
8106	10/18/10	10/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
8107	↓	↓	↓ STD	7617/7618	↓	↓	↓	↓	↓	
8108	↓	↓	↓ LCS	7740/7741	↓	↓	↓	↓	↓	
8109	10/12/10	10/25/10	TO15 4PCH	7384	1ppm	1.5psig	30psia	50ppb	L.L.	
8110	↓	↓	↓ FORM	7068	36.5%	1.1ul	50psig	10ppm	↓	
8111	↓	↓	↓ FORM 50	8110	10ppm	0.23psig	45psia	50ppb	↓	
8112	10/18/10	10/25/10	TO15 IUG IS (A)	8106	50ppb	0.9psig	45psia	1ppb	M	
8113	↓	↓	↓ STD (A)	8107	↓	↓	↓	↓	↓	
8114	↓	↓	↓ LCS	8108	↓	↓	↓	↓	A	

Page # 106

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
283	198	20	09/20/10	WAC092010A	1 ug/m³ to 0.25	+ 30	+ 30
142					TCE, CT, VNCL	+	+
162						+	+
476						+	+
198	↓			↓		+	+
205	554			WAC092010B		+	+
129						+	+
358						+	+
496						+	+
554	↓			↓		+	+
431	465			WAC092010C		+	+
101						+	+
202						+	+
540						+	+
465	↓			↓		+	+
128	561			WAC092010D		+	+
92						+	+
568						+	+
363						+	+
561	↓			↓		+	+
467	199			WAC092010E		+	+
493						+	+
223						+	+
553						+	+
199	↓	↓	↓	↓	↓	+	+

Cleaned by: L. I.

Page # 78

Centek laboratories, LLC

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
248	468	20	09/20/10	WAC092010F	1ug/m³+0.25	+ 30	+ 30
552	↓	↓	↓	↓	TCE, CT, VCL	+ ↓	+ ↓
243	↓	↓	↓	↓	↓	+ ↓	+ ↓
364	↓	↓	↓	↓	↓	+ ↓	+ ↓
468	↓	↓	↓	↓	↓	+ ↓	+ ↓
312	322	↓	↓	WAC092010G	↓	+ ↓	+ ↓
106	↓	↓	↓	↓	↓	+ ↓	+ ↓
107	↓	↓	↓	↓	↓	+ ↓	+ ↓
220	↓	↓	↓	↓	↓	+ ↓	+ ↓
322	↓	↓	↓	↓	↓	+ ↓	+ ↓
93	88	↓	↓	WAC092010H	↓	+ ↓	+ ↓
189	↓	↓	↓	↓	↓	+ ↓	+ ↓
98	↓	↓	↓	↓	↓	+ ↓	+ ↓
539	↓	↓	↓	↓	↓	+ ↓	+ ↓
88	↓	↓	↓	↓	↓	+ ↓	+ ↓
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: R.L.

Page # 79

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092006.D Vial: 1
Acq On : 20 Sep 2010 2:38 pm Operator: RJP
Sample : WAC092010A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 14:59:23 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

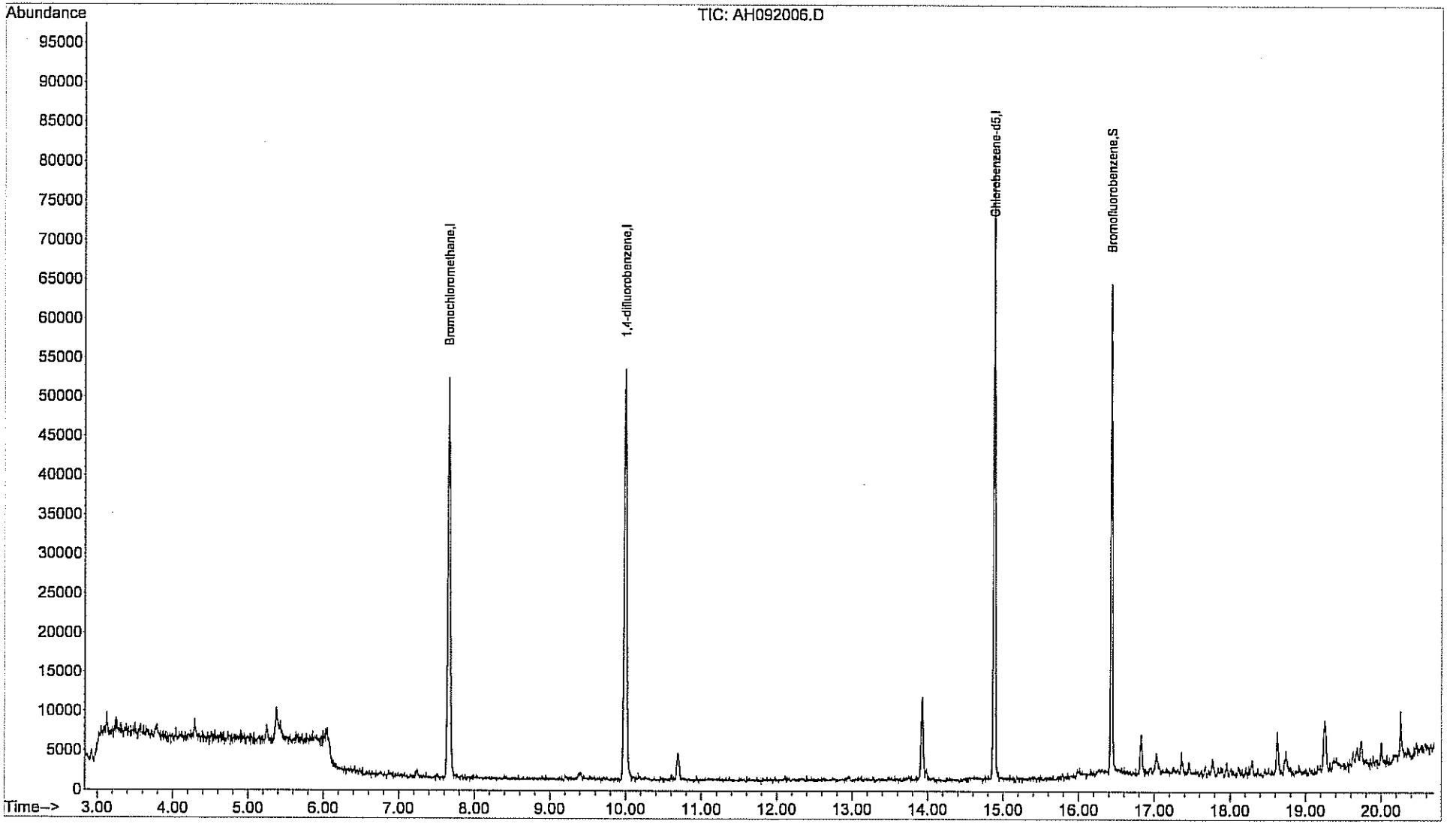
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18936	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	55781	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	44528	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	17418	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092006.D A914_1UT.M Tue Nov 16 15:48:44 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092006.D Vial: 1
Acq On : 20 Sep 2010 2:38 pm Operator: RJP
Sample : WAC092010A Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:36 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092007.D Vial: 2
Acq On : 20 Sep 2010 3:11 pm Operator: RJP
Sample : WAC092010B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 15:32:04 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

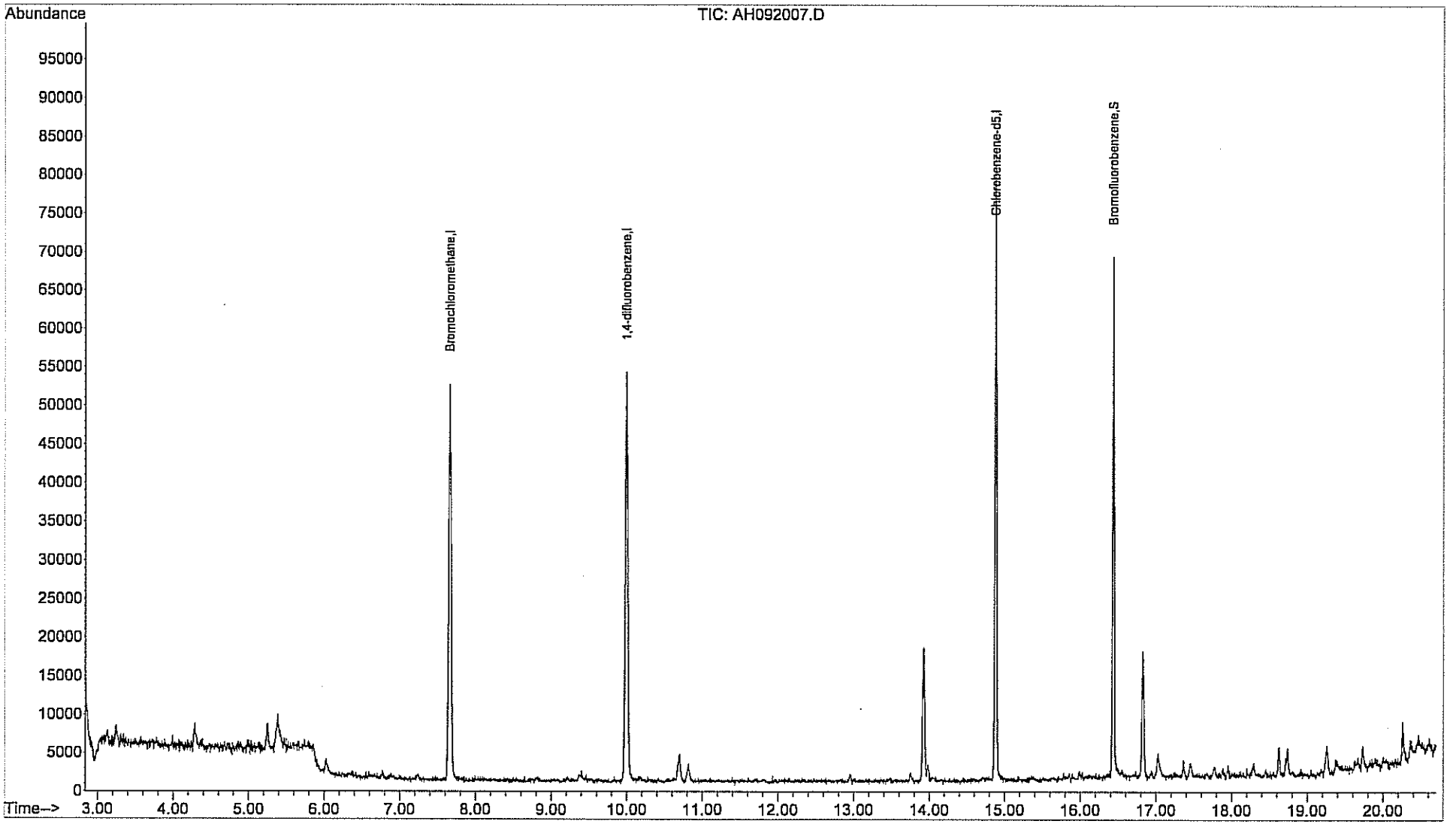
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	19051	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.99	114	55488	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	45685	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	19007	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092007.D Vial: 2
Acq On : 20 Sep 2010 3:11 pm Operator: RJP
Sample : WAC092010B Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:37 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092008.D Vial: 3
Acq On : 20 Sep 2010 3:44 pm Operator: RJP
Sample : WAC092010C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 16:05:09 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

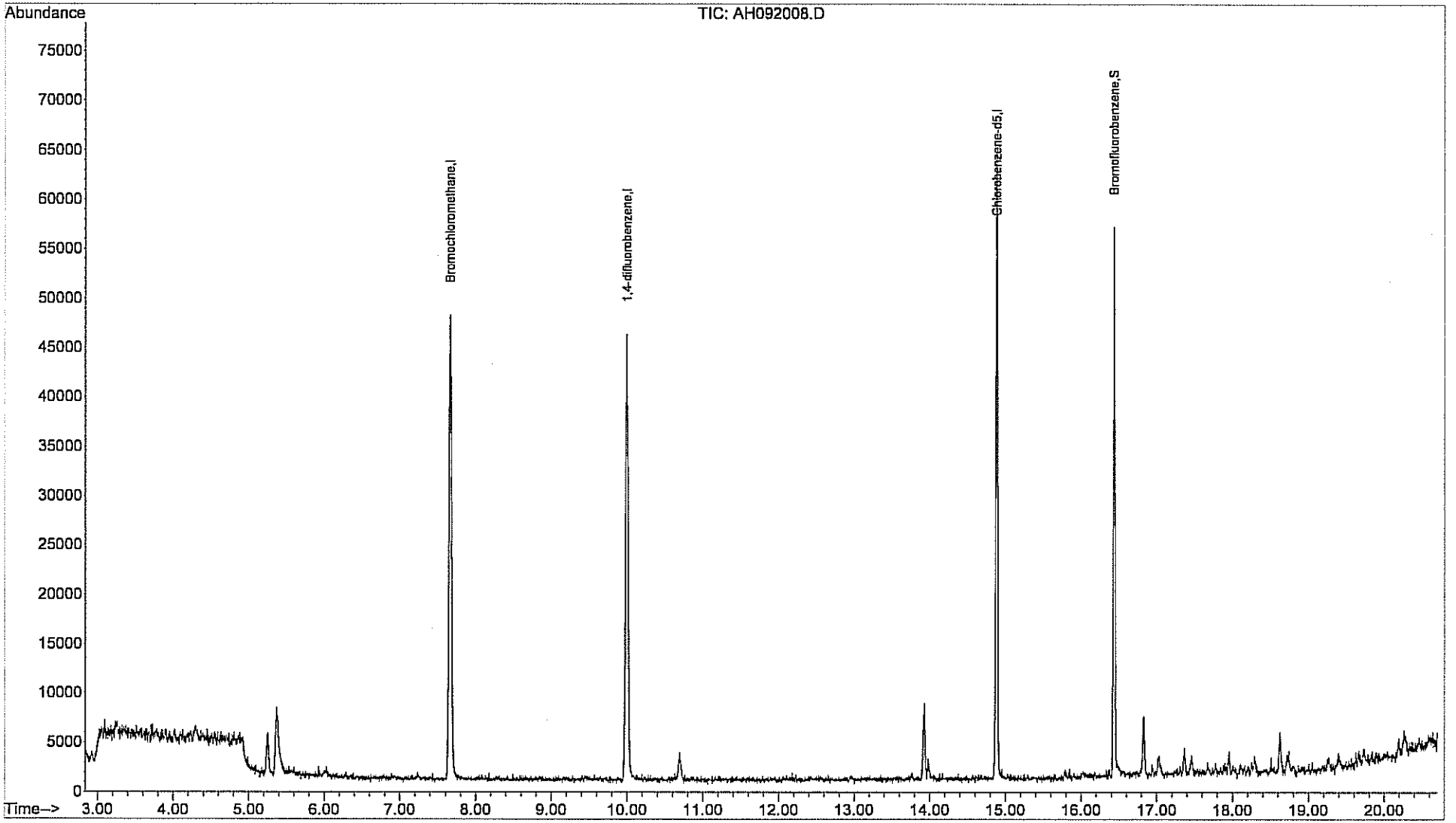
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18065	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	47874	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	36146	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	15859	0.93	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092008.D A914_1UT.M Tue Nov 16 15:48:48 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092008.D Vial: 3
Acq On : 20 Sep 2010 3:44 pm Operator: RJP
Sample : WAC092010C Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:37 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092009.D Vial: 4
Acq On : 20 Sep 2010 4:17 pm Operator: RJP
Sample : WAC092010D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 16:37:59 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

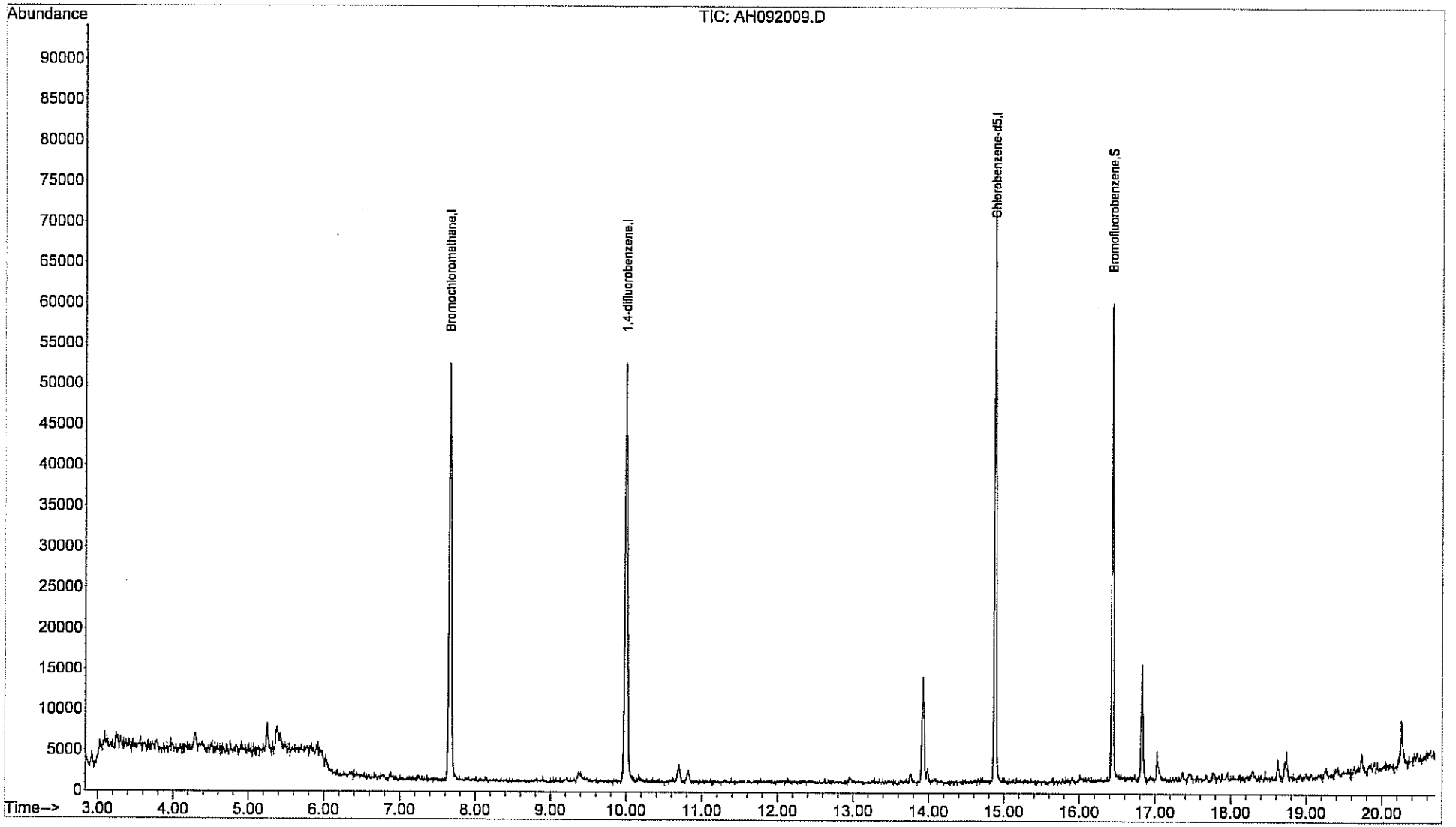
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18970	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	53705	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	43390	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	16758	0.82	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 82.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092009.D Vial: 4
Acq On : 20 Sep 2010 4:17 pm Operator: RJP
Sample : WAC092010D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:37 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092010.D Vial: 5
Acq On : 20 Sep 2010 4:49 pm Operator: RJP
Sample : WAC092010E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 17:09:53 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

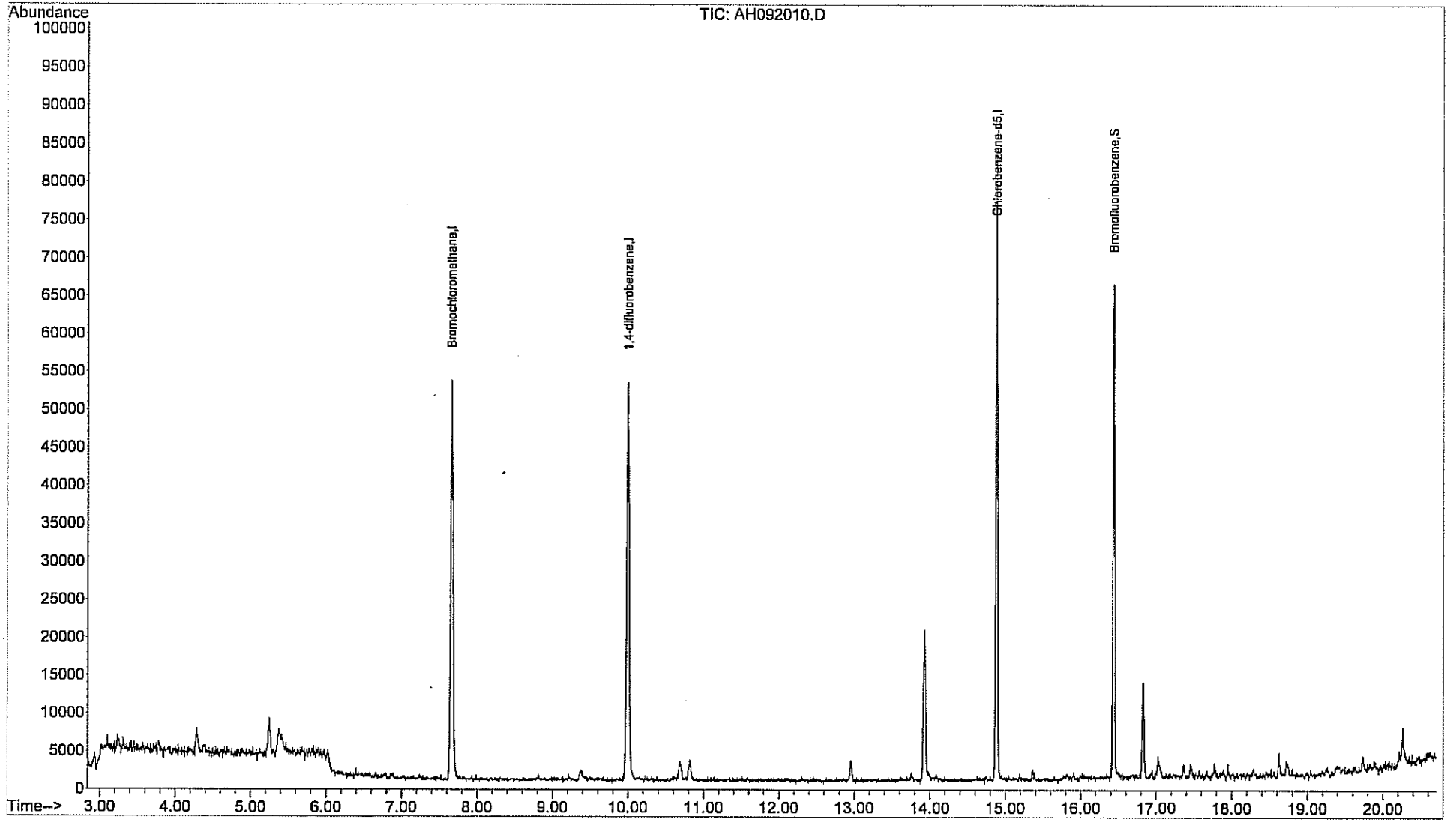
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	19773	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.99	114	55654	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	44782	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	17976	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092010.D A914_1UT.M Tue Nov 16 15:48:52 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092010.D Vial: 5
Acq On : 20 Sep 2010 4:49 pm Operator: RJP
Sample : WAC092010E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:37 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092011.D Vial: 6
Acq On : 20 Sep 2010 5:21 pm Operator: RJP
Sample : WAC092010F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 17:42:09 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

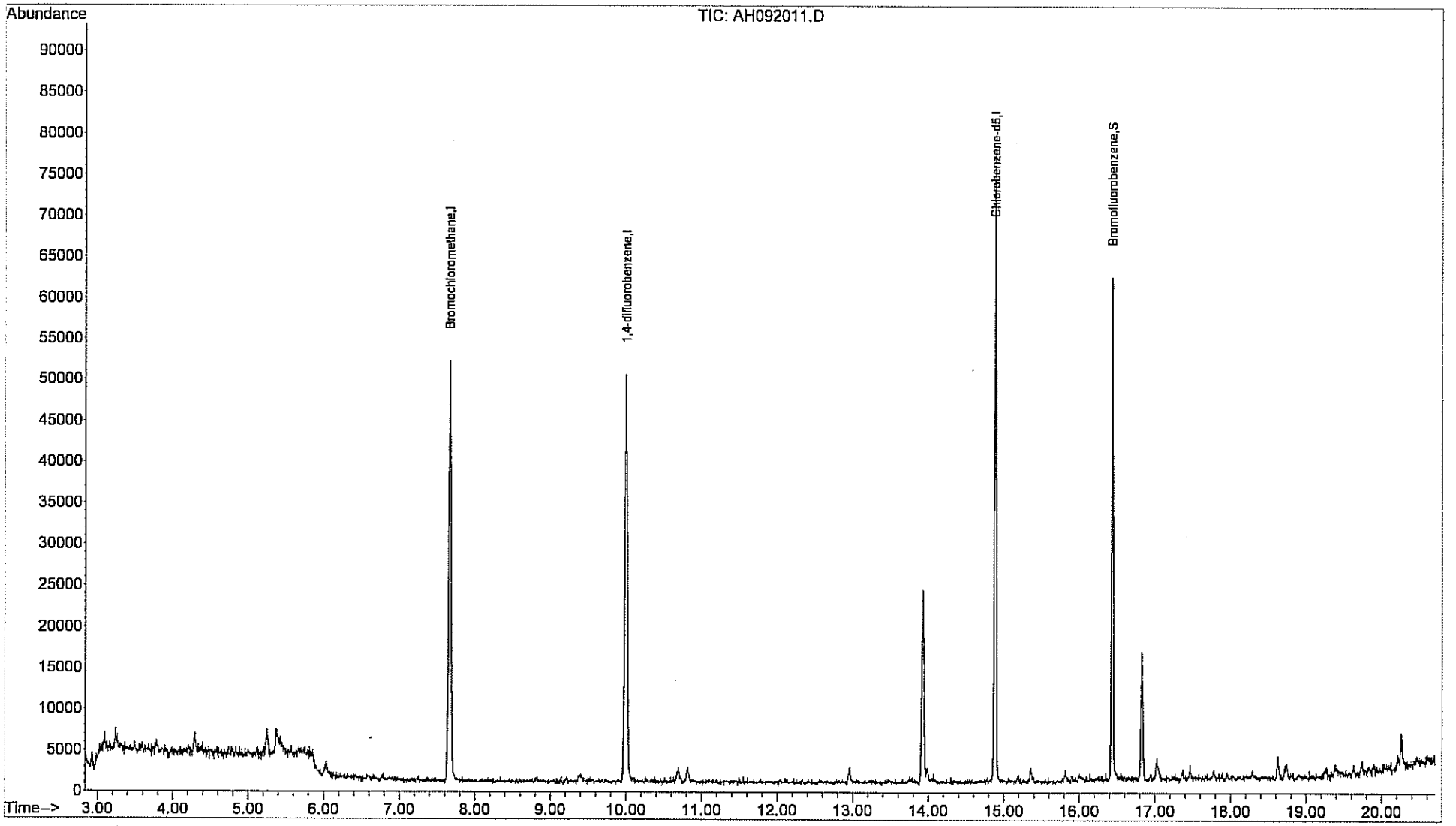
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18994	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	52570	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	42446	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	17494	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092011.D A914_1UT.M Tue Nov 16 15:48:54 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092011.D Vial: 6
Acq On : 20 Sep 2010 5:21 pm Operator: RJP
Sample : WAC092010F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:38 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092012.D Vial: 7
Acq On : 20 Sep 2010 5:53 pm Operator: RJP
Sample : WAC092010G Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 18:14:22 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

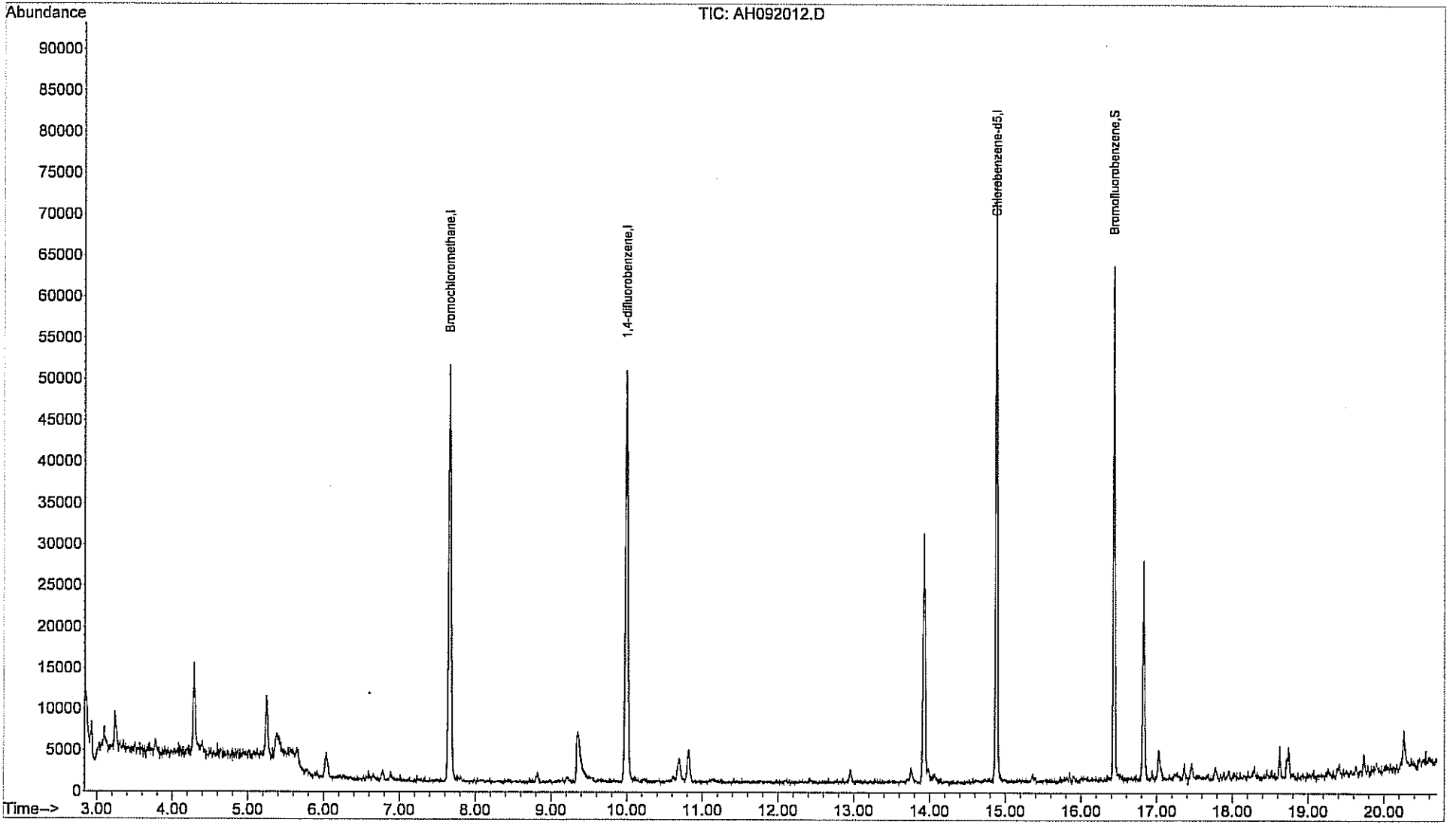
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18575	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.99	114	52896	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	42373	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	17679	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092012.D A914_1UT.M Tue Nov 16 15:48:56 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092012.D Vial: 7
Acq On : 20 Sep 2010 5:53 pm Operator: RJP
Sample : WAC092010G Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:38 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092013.D Vial: 8
Acq On : 20 Sep 2010 6:25 pm Operator: RJP
Sample : WAC092010H Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 20 18:46:30 2010 Quant Results File: A914_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration
DataAcq Meth : A914_1UT

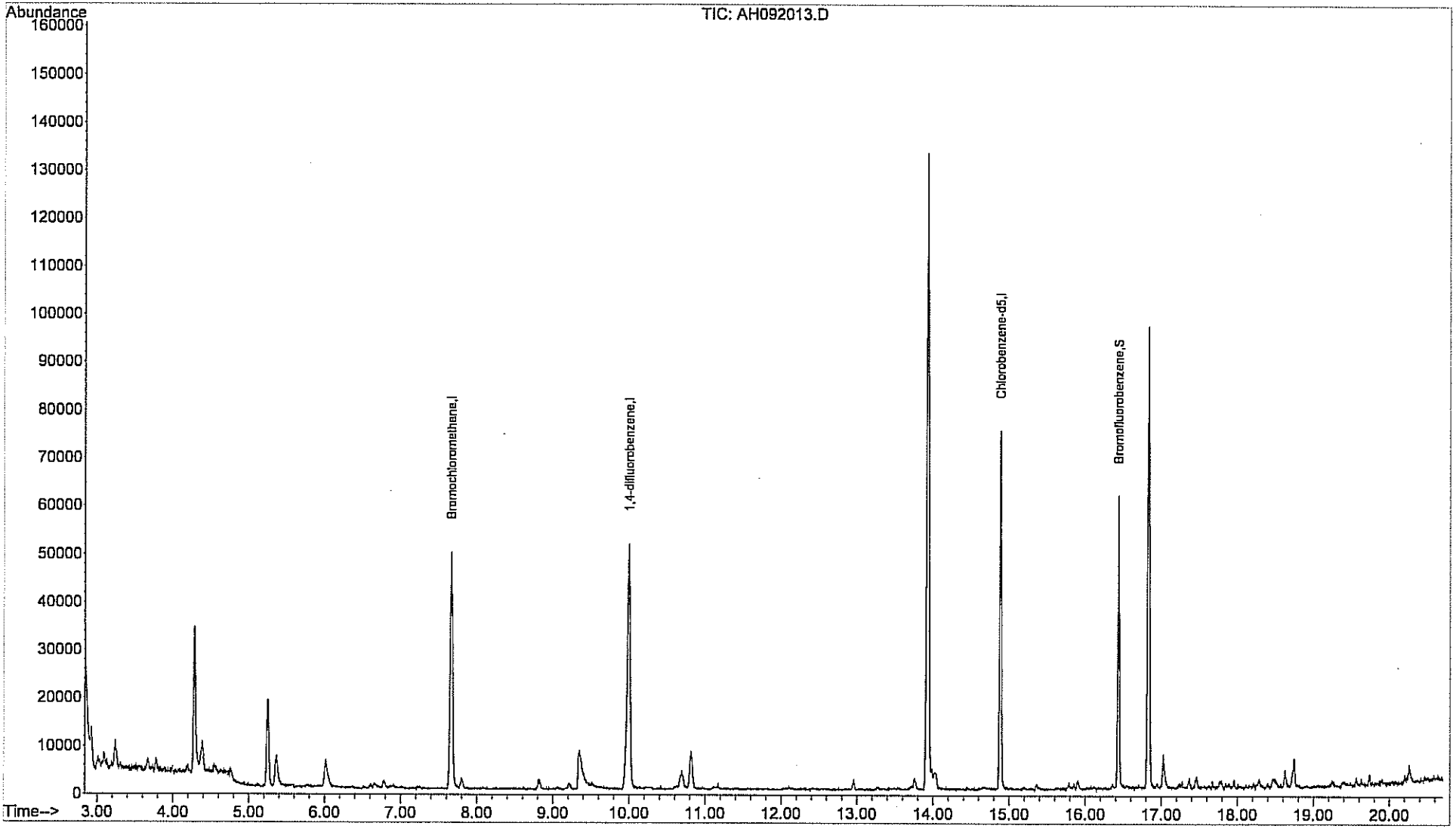
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	18355	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	52833	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	40025	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	17346	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH092013.D A914_1UT.M Tue Nov 16 15:48:58 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH092013.D Vial: 8
Acq On : 20 Sep 2010 6:25 pm Operator: RJP
Sample : WAC092010H Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Sep 23 8:39 2010 Quant Results File: A914_1UT.RES

Method : C:\HPCHEM\1\METHODS\A914_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 15 08:29:34 2010
Response via : Initial Calibration



TO-15 Package Review Checklist

Client: FPM Group Project: B785 SSVM SDG: C1010037

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete			
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓

Comments:

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits	✓		
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: NO MS/MSD

Sample Raw Data	Present and Complete	✓		
	Spectra present for all samples	✓		

Comments:

TO-15 Package Review Checklist

Client: EPM Group Project: B785 SSUM SDG: C1010237

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

SEE CASE NARRATIVE

Section Supervisor: _____ Date: 12/15/10

QC Supervisor: _____ Date: 12/16/10

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206

Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

www.CentekLabs.com

Analytical Report

NYSDOH ELAP
Certificate No. 11830

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Wednesday, October 27, 2010
Order No.: C1010037

RE: B785 SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 5 sample(s) on 10/20/2010 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

Centek Laboratories

Date: *07-Dec-10*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1010037

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Added Trip Blank to COC per Katrina

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina J Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2010	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
785VMP0102AB	785VMP-01	10/18	1401	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 558, PID = 0 ppm
785VMP0202AB	785VMP-02	10/18	1410	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 467, PID = 0 ppm
785VMP0302AB	785VMP-03	10/18	1419	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 231, PID = 0 ppm
785IA04	785IA-4	10/18	1428	GS	AC	0/0	N	-	Unf.	1	1	1	Can # 367, Reg # 436, PID = 0 ppm

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) Katrina J. Mattice	Date: 10/19/10	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Group Ltd	Time: 1100	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 10/15/10	#2 Received by: (Sig)	Date: 10/20/10	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1100	Company Name:	Time: 10:00	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

C1010037

Centek Laboratories,LLC

Centek Laboratories, LLC

Date: *07-Dec-10*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1010037

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1010037-001A	785VMP0102AB	558	10/18/2010	10/20/2010
C1010037-002A	785VMP0202AB	467	10/18/2010	10/20/2010
C1010037-003A	785VMP0302AB	231	10/18/2010	10/20/2010
C1010037-004A	785IA04	367,436	10/18/2010	10/20/2010
C1010037-005A	Trip Blank	463	10/18/2010	10/20/2010

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name FPM-ROME | Date and Time Receive 10/20/2010

Work Order Numbe C1010037 | Received by JDS

Checklist completed by [signature] Signature 10/20/10 Date | Reviewed by [initials] Initials 10/20/10 Date

Matrix: | Carrier name FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: added Trip Blank to COC per Katerina

Corrective Action _____

Lab Order: C1010037
Client: FPM Group
Project: B785 SSVM Sampling

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1010037-001A	785VMP0102AB	10/18/2010	Air	1ug/M3 by Method TO15			10/20/2010
C1010037-002A	785VMP0202AB			1ug/M3 by Method TO15			10/20/2010
C1010037-003A	785VMP0302AB			1ug/M3 by Method TO15			10/21/2010
				1ug/M3 by Method TO15			10/21/2010
				1ug/M3 by Method TO15			10/20/2010
C1010037-004A	785IA04			1ug/M3 by Method TO15			10/20/2010
				1ug/M3 by Method TO15			10/20/2010
C1010037-005A	Trip Blank			1ug/M3 by Method TO15			10/20/2010

Centek Laboratories,LLC

SampleTrackingHistory 12/7/2010

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1010037-001A	Login	10/20/2010 11:11:37 AM	jans	Sample Log In
C1010037-005A	Login	10/20/2010 11:14:49 AM	jans	Sample Log In
C1010037-004A	Login	10/20/2010 11:14:49 AM	jans	Sample Log In
C1010037-003A	Login	10/20/2010 11:14:49 AM	jans	Sample Log In
C1010037-002A	Login	10/20/2010 11:14:49 AM	jans	Sample Log In
C1010037-001A	Transfer	10/20/2010 11:47:55 AM	ADM	GC/MS Lab
C1010037-002A	Transfer	10/20/2010 11:47:55 AM	ADM	GC/MS Lab
C1010037-003A	Transfer	10/20/2010 11:47:55 AM	ADM	GC/MS Lab
C1010037-004A	Transfer	10/20/2010 11:47:55 AM	ADM	GC/MS Lab
C1010037-005A	Transfer	10/20/2010 11:47:55 AM	ADM	GC/MS Lab
C1010037-001A	Mark as Consumed	10/25/2010 10:22:05 AM	ADM	Consumed
C1010037-002A	Mark as Consumed	10/25/2010 10:22:05 AM	ADM	Consumed
C1010037-003A	Mark as Consumed	10/25/2010 10:22:05 AM	ADM	Consumed
C1010037-004A	Mark as Consumed	10/25/2010 10:22:05 AM	ADM	Consumed
C1010037-005A	Mark as Consumed	10/25/2010 10:22:05 AM	ADM	Consumed

Centek Laboratories, LLC
143 Midler Park Drive
Syracuse, NY 13206
TEL: *3154319730* FAX: *3154319731*

BOTTLE ORDER

2019

07-Dec-10

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 10/13/2010
VIA: FedEx
Due Date: 10/14/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	3

Can / Reg ID	Description
95	1L Mini-Can - 1087
186	Time-Set Reg - 657
231	1L Mini-Can - 1193
249	Time-Set Reg - 687
367	1L Mini-Can - 1316
436	Time-Set Reg - 815
463	1L Mini-Can - 1366

Comments: 3 1L @ 24 hrs. Incl. Trip blank. WAC 100410

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Acetone	1.1	0.30		ppbV	1	10/20/2010 8:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloromethane	0.47	0.15		ppbV	1	10/20/2010 8:54:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 8:54:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 11	0.30	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 113	0.11	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 12	0.60	0.15		ppbV	1	10/20/2010 8:54:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
m&p-Xylene	0.20	0.30	J	ppbV	1	10/20/2010 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Toluene	0.36	0.15		ppbV	1	10/20/2010 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Trichloroethene	0.26	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 8:54:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 8:54:00 PM
Acetone	2.8	0.72		ug/m3	1	10/20/2010 8:54:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 8:54:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 8:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 8:54:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/20/2010 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 8:54:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 8:54:00 PM
Chloromethane	0.99	0.31		ug/m3	1	10/20/2010 8:54:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 8:54:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	0.86	1.2	J	ug/m3	1	10/20/2010 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 8:54:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 8:54:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 8:54:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 8:54:00 PM
m&p-Xylene	0.88	1.3	J	ug/m3	1	10/20/2010 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 8:54:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 8:54:00 PM
Toluene	1.4	0.57		ug/m3	1	10/20/2010 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:54:00 PM
Trichloroethene	1.4	0.82		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2,4-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/20/2010 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloromethane	0.43	0.15		ppbV	1	10/20/2010 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 9:26:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 113	0.13	0.15	J	ppbV	1	10/20/2010 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 12	0.59	0.15		ppbV	1	10/20/2010 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	10/20/2010 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Toluene	0.25	0.15		ppbV	1	10/20/2010 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
1,2,4-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 9:26:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/20/2010 9:26:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/20/2010 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 9:26:00 PM
Chloromethane	0.90	0.31		ug/m3	1	10/20/2010 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 9:26:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	1.0	1.2	J	ug/m3	1	10/20/2010 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	10/20/2010 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 9:26:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 9:26:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 9:26:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 9:26:00 PM
Toluene	0.96	0.57		ug/m3	1	10/20/2010 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:26:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2,4-Trimethylbenzene	0.14	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Acetone	8.4	3.0		ppbV	10	10/21/2010 12:04:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Benzene	0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Carbon disulfide	1.1	0.15		ppbV	1	10/20/2010 9:58:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloroform	0.31	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
cis-1,2-Dichloroethene	0.28	0.15		ppbV	1	10/20/2010 9:58:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 113	1.1	1.2	J	ug/m3	1	10/20/2010 9:58:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 9:58:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 9:58:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 9:58:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 9:58:00 PM
m&p-Xylene	0.84	1.3	J	ug/m3	1	10/20/2010 9:58:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
Methyl Ethyl Ketone	0.99	0.90		ug/m3	1	10/20/2010 9:58:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 9:58:00 PM
Methylene chloride	1.5	0.53		ug/m3	1	10/20/2010 9:58:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 9:58:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 9:58:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 9:58:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
Tetrahydrofuran	5.8	0.45		ug/m3	1	10/20/2010 9:58:00 PM
Toluene	1.2	0.57		ug/m3	1	10/20/2010 9:58:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:58:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:58:00 PM
Trichloroethene	940	150		ug/m3	180	10/21/2010 10:55:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 9:58:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 9:58:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:58:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:58:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:58:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
1,2,4-Trimethylbenzene	0.70	0.75	J	ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 9:58:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 9:58:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 9:58:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 9:58:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 9:58:00 PM
Acetone	20	7.2		ug/m3	10	10/21/2010 12:04:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 9:58:00 PM
Benzene	0.49	0.49		ug/m3	1	10/20/2010 9:58:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 9:58:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 9:58:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 9:58:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	10/20/2010 9:58:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/20/2010 9:58:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 9:58:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 9:58:00 PM
Chloroform	1.5	0.74		ug/m3	1	10/20/2010 9:58:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 9:58:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	10/20/2010 9:58:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:58:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 9:58:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 9:58:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 9:58:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.1	1.2	J	ug/m3	1	10/20/2010 9:58:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 9:58:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 9:58:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 9:58:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 9:58:00 PM
m&p-Xylene	0.84	1.3	J	ug/m3	1	10/20/2010 9:58:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
Methyl Ethyl Ketone	0.99	0.90		ug/m3	1	10/20/2010 9:58:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 9:58:00 PM
Methylene chloride	1.5	0.53		ug/m3	1	10/20/2010 9:58:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 9:58:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 9:58:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 9:58:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
Tetrahydrofuran	5.8	0.45		ug/m3	1	10/20/2010 9:58:00 PM
Toluene	1.2	0.57		ug/m3	1	10/20/2010 9:58:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:58:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:58:00 PM
Trichloroethene	940	150		ug/m3	180	10/21/2010 10:55:00 AM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 9:58:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 9:58:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2,4-Trimethylbenzene	0.20	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Acetone	12	3.0		ppbV	10	10/20/2010 10:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Benzene	0.17	0.15		ppbV	1	10/20/2010 8:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	10/20/2010 8:23:00 PM
Carbon tetrachloride	0.10	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report
Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 8:23:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 113	0.11	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 12	0.57	0.15		ppbV	1	10/20/2010 8:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	10/20/2010 8:23:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	10/20/2010 8:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Methylene chloride	0.38	0.15		ppbV	1	10/20/2010 8:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Toluene	0.37	0.15		ppbV	1	10/20/2010 8:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Trichloroethene	0.12	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
1,2,4-Trimethylbenzene	1.0	0.75		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 8:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 8:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 8:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 8:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 8:23:00 PM
Acetone	28	7.2		ug/m3	10	10/20/2010 10:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 8:23:00 PM
Benzene	0.55	0.49		ug/m3	1	10/20/2010 8:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 8:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 8:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 8:23:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	10/20/2010 8:23:00 PM
Carbon tetrachloride	0.64	0.96	J	ug/m3	1	10/20/2010 8:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 8:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 8:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 8:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 8:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 8:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 8:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 8:23:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	0.86	1.2	J	ug/m3	1	10/20/2010 8:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
Freon 12	2.9	0.75		ug/m3	1	10/20/2010 8:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 8:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 8:23:00 PM
Isopropyl alcohol	5.0	0.37		ug/m3	1	10/20/2010 8:23:00 PM
m&p-Xylene	0.71	1.3	J	ug/m3	1	10/20/2010 8:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
Methyl Ethyl Ketone	0.99	0.90		ug/m3	1	10/20/2010 8:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 8:23:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	10/20/2010 8:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 8:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 8:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 8:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 8:23:00 PM
Toluene	1.4	0.57		ug/m3	1	10/20/2010 8:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:23:00 PM
Trichloroethene	0.66	0.82	J	ug/m3	1	10/20/2010 8:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 8:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 8:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 7:51:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 7:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 7:51:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 7:51:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 7:51:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 7:51:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/20/2010 7:51:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 7:51:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 7:51:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 7:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 7:51:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 7:51:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 7:51:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/20/2010 7:51:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 7:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 7:51:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 7:51:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 7:51:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 7:51:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 7:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 7:51:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 7:51:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 7:51:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 7:51:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 7:51:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 7:51:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 7:51:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 7:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 7:51:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 7:51:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 7:51:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/20/2010 7:51:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 7:51:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek Laboratories, LLC

Date: 09-Nov-10

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling
Test No: TO-15 **Matrix:** A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ							
ALCS1UG-102010	99.0							
AMB1UG-102010	95.0							
C1010037-001A	97.0							
C1010037-002A	104							
C1010037-003A	103							
C1010037-004A	101							
C1010037-005A	100							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\HPCHEM\1\DATA\AH102002.D
Tune Time : 20 Oct 2010 1:19 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AH102002.D

		(BFB)		(IS1)	(IS2)	(IS3)
				19318	65670	54472
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AH102003.D	ALCS1UG-10201	99		19444	65143	54669
AH102004.D	AMB1UG-102010	95		19029	65121	54966
AH102011.D	C1010037-005A	100		18818	64100	52615
AH102012.D	C1010037-004A	101		18755	63640	54313
AH102013.D	C1010037-001A	97		18128	60118	48424
AH102014.D	C1010037-002A	104		18435	61302	54077
AH102015.D	C1010037-003A	103		18225	61997	52474
AH102016.D	C1010037-004A	103	DL10X	20038	64829	53972
AH102019.D	C1010037-003A	96	DL10X	18194	61954	52292
AH102021.D	C1010037-003A	97	DL10X	18843	62859	49853

t - fails 24hr time check * - fails criteria

Created: Tue Nov 09 15:05:13 2010 MSD #1/

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102010	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	1.150	0.15	1	0	115	70	130				
1,1,2-Trichloroethane	1.140	0.15	1	0	114	70	130				
1,1-Dichloroethane	1.140	0.15	1	0	114	70	130				
1,1-Dichloroethene	1.210	0.15	1	0	121	70	130				
1,2,4-Trichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2,4-Trimethylbenzene	1.070	0.15	1	0	107	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2-Dichloroethane	1.140	0.15	1	0	114	70	130				
1,2-Dichloropropane	1.170	0.15	1	0	117	70	130				
1,3,5-Trimethylbenzene	1.090	0.15	1	0	109	70	130				
1,3-butadiene	1.100	0.15	1	0	110	70	130				
1,3-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130				
1,4-Dioxane	0.8500	0.30	1	0	85.0	70	130				
2,2,4-trimethylpentane	1.140	0.15	1	0	114	70	130				
4-ethyltoluene	1.050	0.15	1	0	105	70	130				
Acetone	1.260	0.30	1	0	126	70	130				
Allyl chloride	1.180	0.15	1	0	118	70	130				
Benzene	1.120	0.15	1	0	112	70	130				
Benzyl chloride	1.120	0.15	1	0	112	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.200	0.15	1	0	120	70	130				
Bromomethane	1.160	0.15	1	0	116	70	130				
Carbon disulfide	1.160	0.15	1	0	116	70	130				
Carbon tetrachloride	1.170	0.15	1	0	117	70	130				
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102010	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.110	0.15	1	0	111	70	130				
Chloromethane	1.270	0.15	1	0	127	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	1.150	0.15	1	0	115	70	130				
Dibromochloromethane	1.210	0.15	1	0	121	70	130				
Ethyl acetate	1.060	0.25	1	0	106	70	130				
Ethylbenzene	1.140	0.15	1	0	114	70	130				
Freon 11	1.190	0.15	1	0	119	70	130				
Freon 113	1.230	0.15	1	0	123	70	130				
Freon 114	1.220	0.15	1	0	122	70	130				
Freon 12	1.100	0.15	1	0	110	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	1.100	0.15	1	0	110	70	130				
Isopropyl alcohol	1.000	0.15	1	0	100	70	130				
m&p-Xylene	2.330	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.020	0.30	1	0	102	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl tert-butyl ether	1.130	0.15	1	0	113	70	130				
Methylene chloride	1.250	0.15	1	0	125	70	130				
o-Xylene	1.180	0.15	1	0	118	70	130				
Propylene	1.130	0.15	1	0	113	70	130				
Styrene	1.110	0.15	1	0	111	70	130				
Tetrachloroethylene	1.100	0.15	1	0	110	70	130				
Tetrahydrofuran	1.080	0.15	1	0	108	70	130				
Toluene	1.140	0.15	1	0	114	70	130				
trans-1,2-Dichloroethene	1.220	0.15	1	0	122	70	130				
trans-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130				
Trichloroethene	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102010	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.100	0.15	1	0	110	70	130				
Vinyl Bromide	1.220	0.15	1	0	122	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-102010** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **3988**
Client ID: **ZZZZZ** Batch ID: **R3988** TestNo: **TO-15** Analysis Date: **10/20/2010** SeqNo: **48524**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Page 40 of 172
Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-102010** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **3988**
Client ID: **ZZZZZ** Batch ID: **R3988** TestNo: **TO-15** Analysis Date: **10/20/2010** SeqNo: **48524**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102010	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48524

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

10/20/2010 1:16 PM

C:\HPChem\Custrpt\IDLUGO11.CRT

Centek Laboratories,LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek Laboratories,LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\%D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2,4-Trimethylbenzene	0.13	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Acetone	1.1	0.30		ppbV	1	10/20/2010 8:54:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Chloromethane	0.47	0.15		ppbV	1	10/20/2010 8:54:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 8:54:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 11	0.30	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 113	0.11	0.15	J	ppbV	1	10/20/2010 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Freon 12	0.60	0.15		ppbV	1	10/20/2010 8:54:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
m&p-Xylene	0.20	0.30	J	ppbV	1	10/20/2010 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Toluene	0.36	0.15		ppbV	1	10/20/2010 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Trichloroethene	0.26	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:54:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:54:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
1,2,4-Trimethylbenzene	0.65	0.75	J	ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 8:54:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 8:54:00 PM
Acetone	2.8	0.72		ug/m3	1	10/20/2010 8:54:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 8:54:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 8:54:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 8:54:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/20/2010 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 8:54:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 8:54:00 PM
Chloromethane	0.99	0.31		ug/m3	1	10/20/2010 8:54:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 8:54:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 8:54:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AB
Lab Order:	C1010037	**Tag Number:**	558
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	0.86	1.2	J	ug/m3	1	10/20/2010 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 8:54:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 8:54:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 8:54:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 8:54:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 8:54:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 8:54:00 PM
m&p-Xylene	0.88	1.3	J	ug/m3	1	10/20/2010 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 8:54:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 8:54:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 8:54:00 PM
Toluene	1.4	0.57		ug/m3	1	10/20/2010 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:54:00 PM
Trichloroethene	1.4	0.82		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 8:54:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102013.D Vial: 3
Acq On : 20 Oct 2010 8:54 pm Operator: RJP
Sample : C1010037-001A Inst : MSD #1
Misc : C1010037-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 21:15:32 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

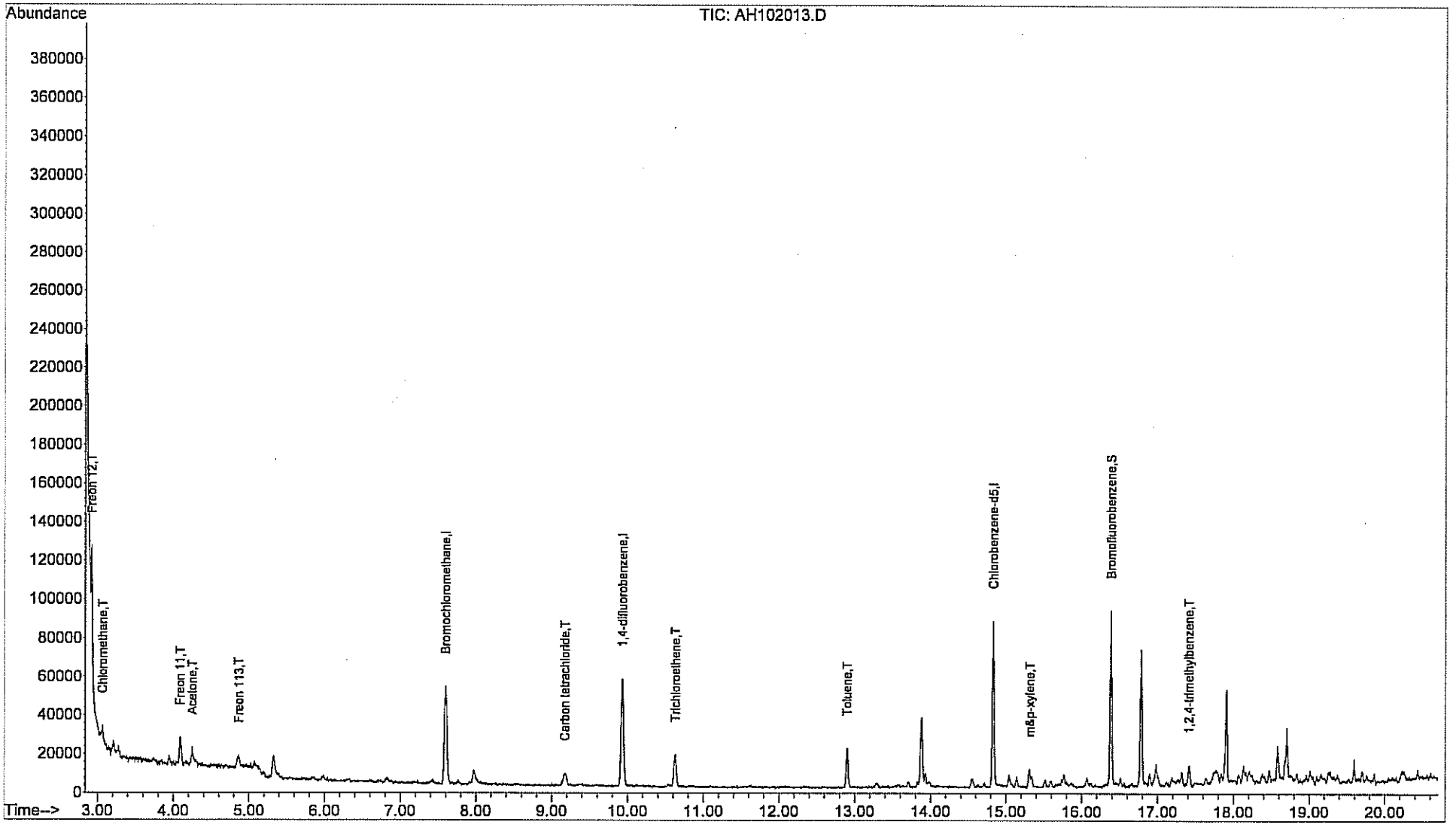
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	18128	1.00	ppb	0.02
30) 1,4-difluorobenzene	9.93	114	60118	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	48424	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.39	95	25832	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
3) Freon 12	2.92	85	33925	0.60	ppb	98
4) Chloromethane	3.06	50	5158	0.47	ppb	88
11) Freon 11	4.09	101	10952	0.30	ppb	98
12) Acetone	4.25	58	3460	1.14	ppb	92
15) Freon 113	4.86	101	2582	0.11	ppb	96
33) Carbon tetrachloride	9.18	117	4951	0.11	ppb	97
38) Trichloroethene	10.62	130	6655	0.26	ppb	95
45) Toluene	12.90	92	8879	0.36	ppb	98
53) m&p-xylene	15.31	91	7725	0.20	ppb	98
61) 1,2,4-trimethylbenzene	17.42	105	3832	0.13	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102013.D AO14_1UG.M Tue Nov 09 15:02:49 2010 MSD1 Page 1

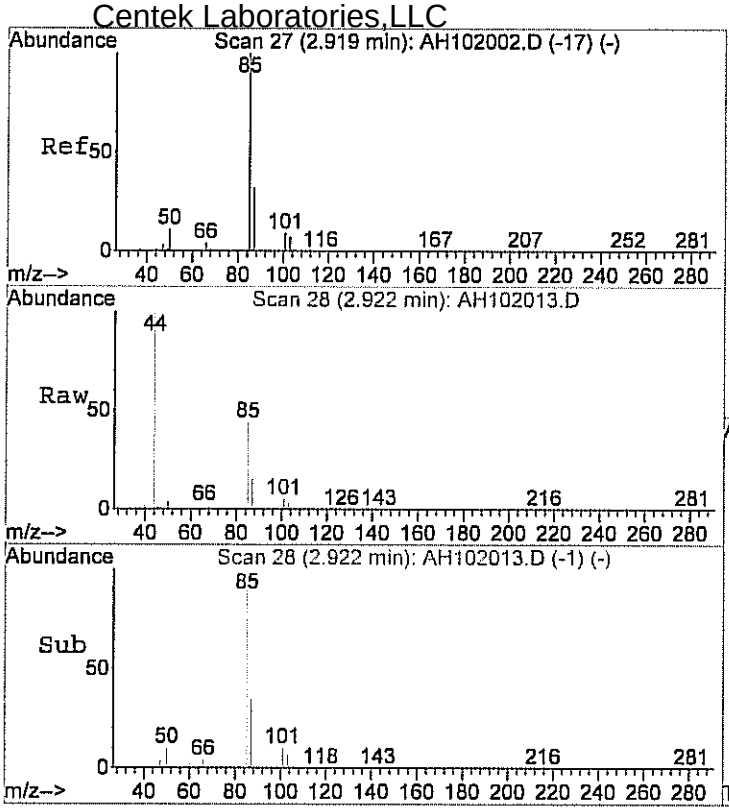
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102013.D Vial: 3
Acq On : 20 Oct 2010 8:54 pm Operator: RJP
Sample : C1010037-001A Inst : MSD #1
Misc : C1010037-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:59 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



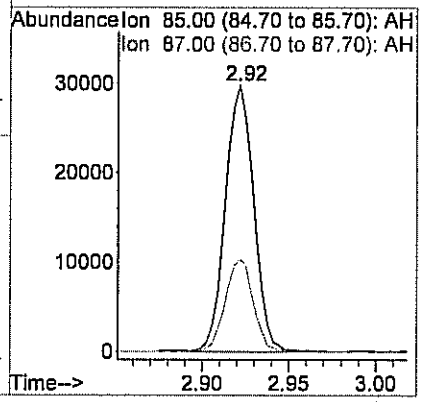
Centek Laboratories,LLC

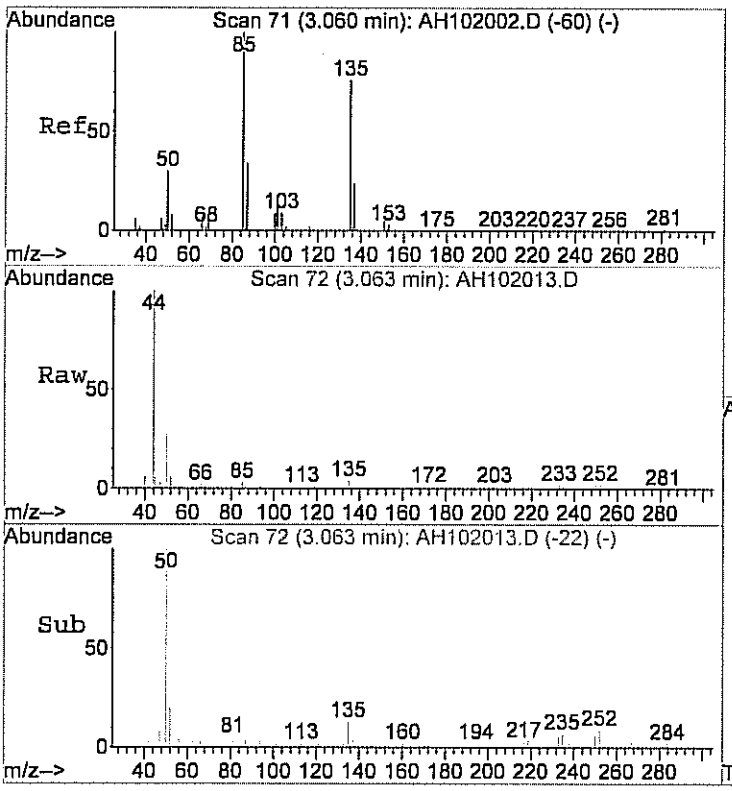


#3
Freon 12
Concen: 0.60 ppb
RT: 2.92 min Scan# 28
Delta R.T. 0.01 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion: 85 Resp: 33925

Ion	Ratio	Lower	Upper
85	100		
87	34.1	13.2	53.2

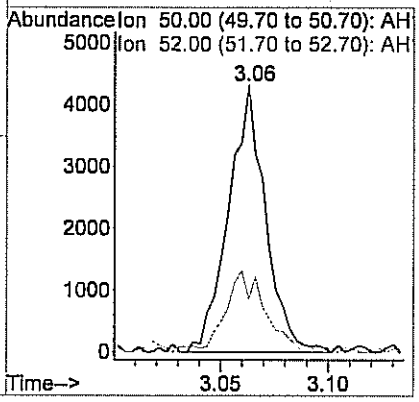


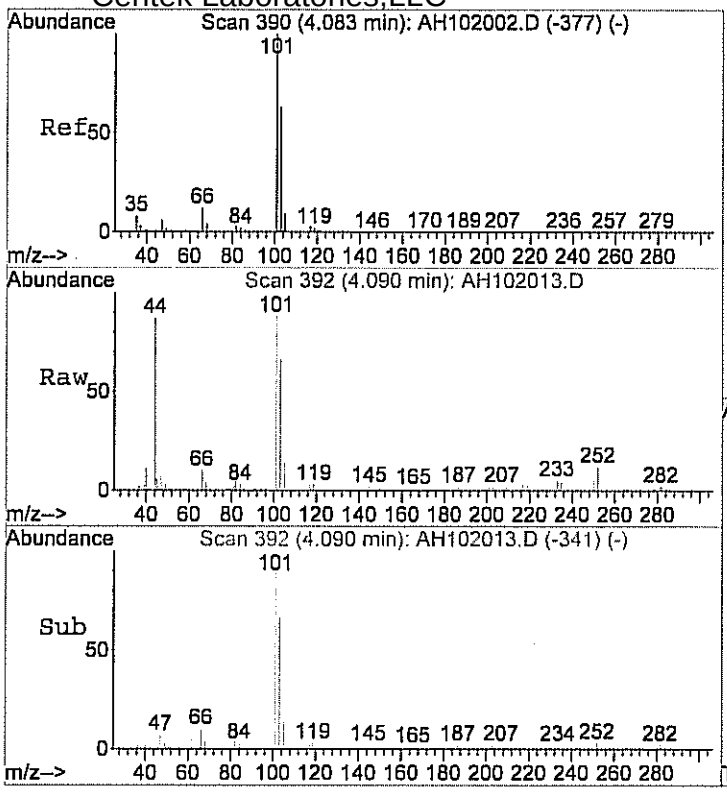


#4
Chloromethane
Concen: 0.47 ppb
RT: 3.06 min Scan# 72
Delta R.T. 0.01 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion: 50 Resp: 5158

Ion	Ratio	Lower	Upper
50	100		
52	31.5	5.3	45.3

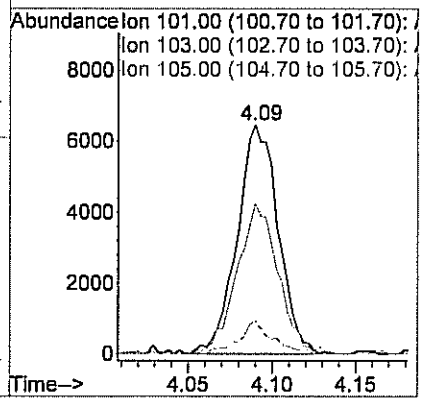


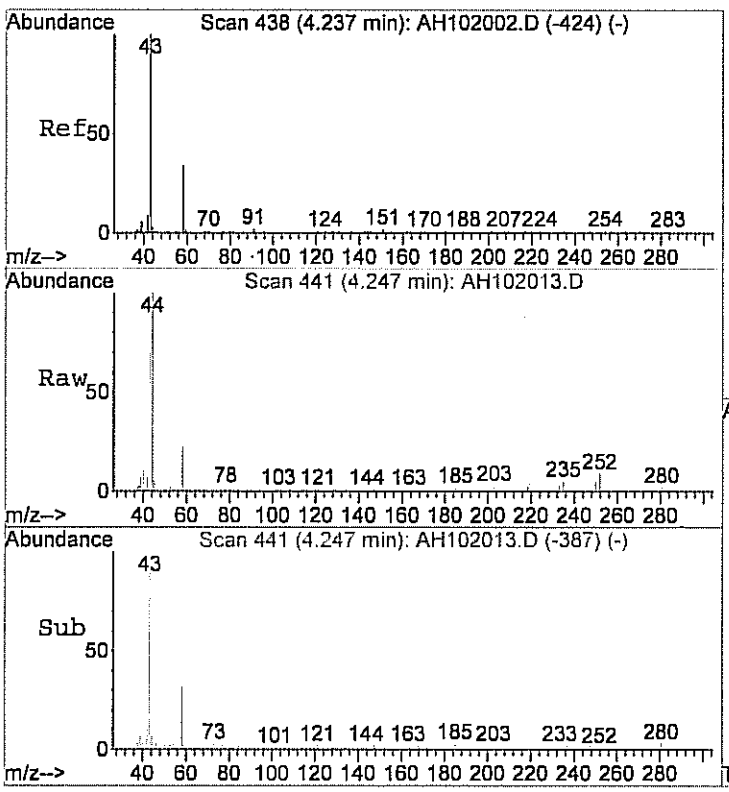


#11
Freon 11
Concen: 0.30 ppb
RT: 4.09 min Scan# 392
Delta R.T. 0.01 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion:101 Resp: 10952

Ion	Ratio	Lower	Upper
101	100		
103	66.1	47.5	87.5
105	11.7	0.0	31.3

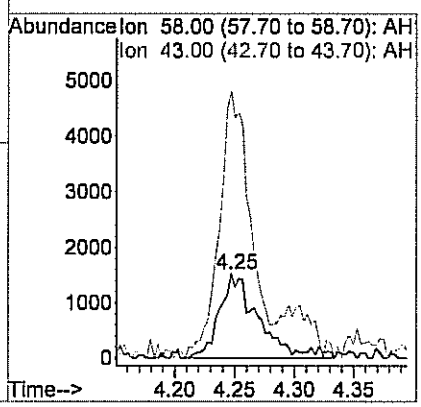


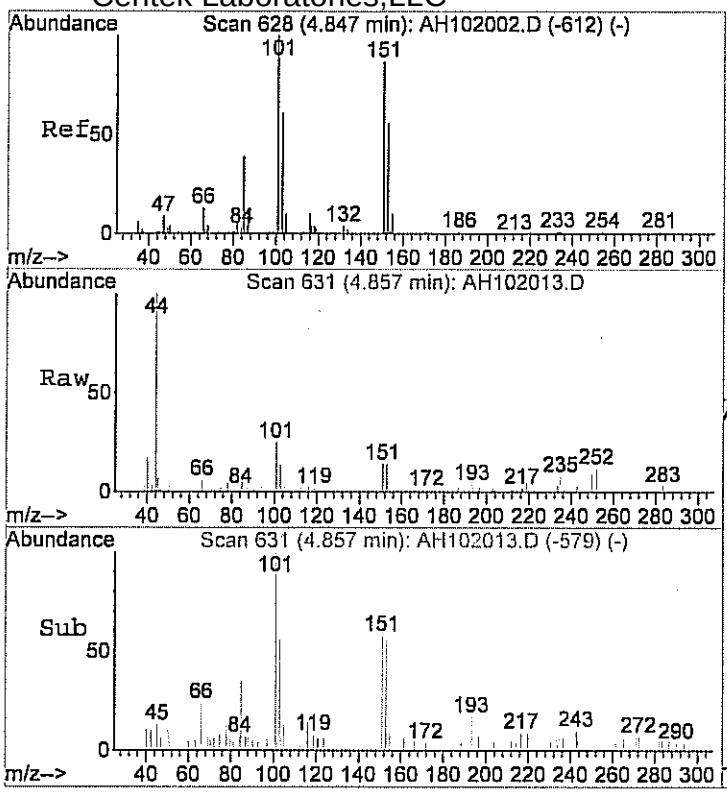


#12
Acetone
Concen: 1.14 ppb
RT: 4.25 min Scan# 441
Delta R.T. 0.02 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion: 58 Resp: 3460

Ion	Ratio	Lower	Upper
58	100		
43	300.1	285.5	345.5

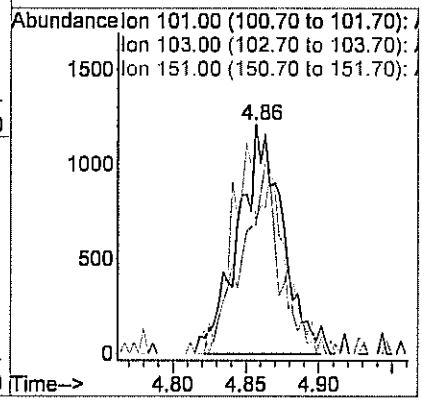


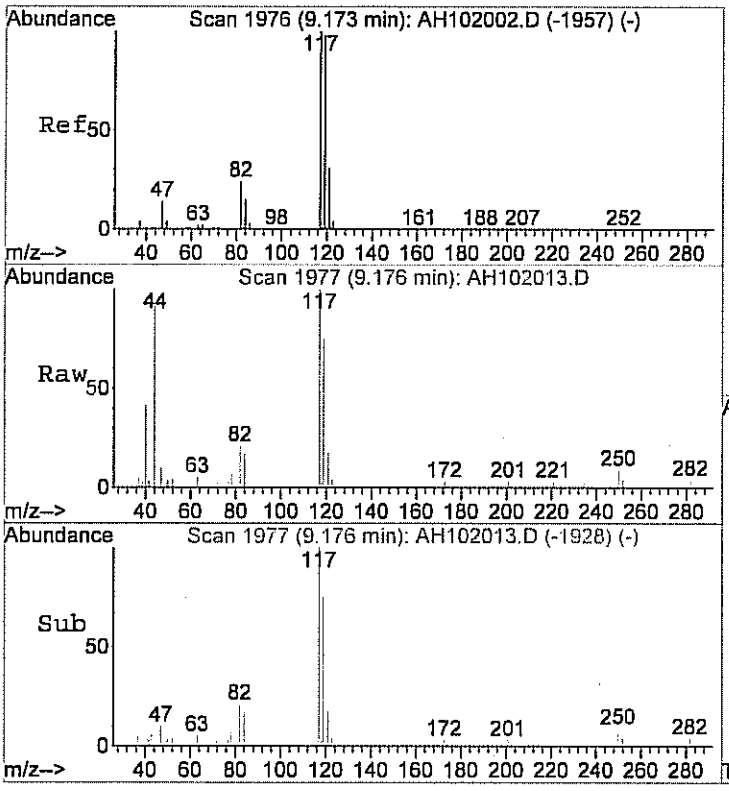


#15
Freon 113
Concen: 0.11 ppb
RT: 4.86 min Scan# 631
Delta R.T. 0.02 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion:101 Resp: 2582

Ion	Ratio	Lower	Upper
101	100		
103	72.5	45.6	85.6
151	90.5	70.4	110.4

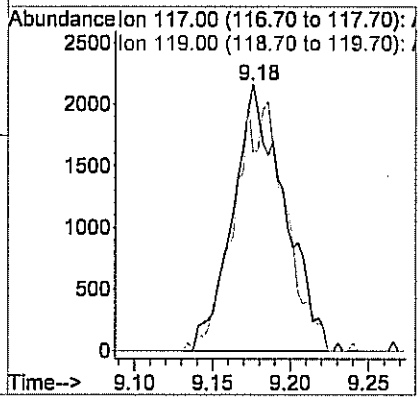


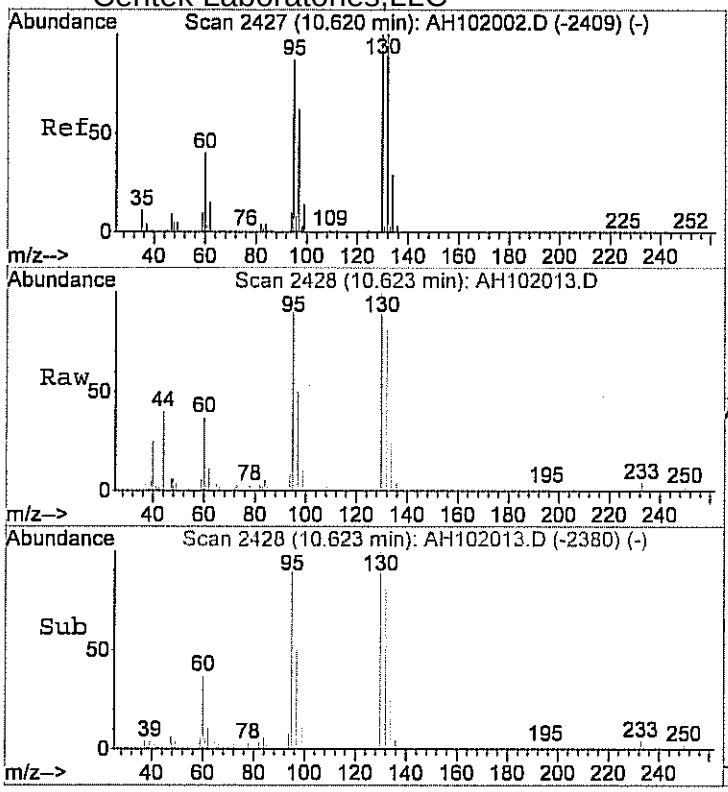


#33
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.18 min Scan# 1977
Delta R.T. 0.01 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion:117 Resp: 4951

Ion	Ratio	Lower	Upper
117	100		
119	94.0	77.3	117.3

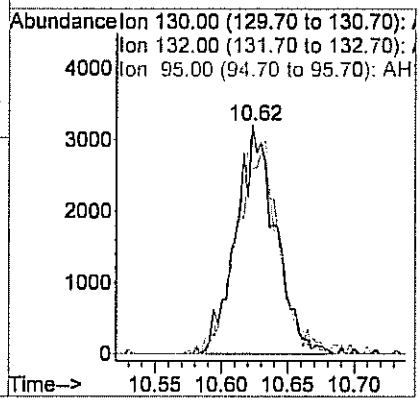


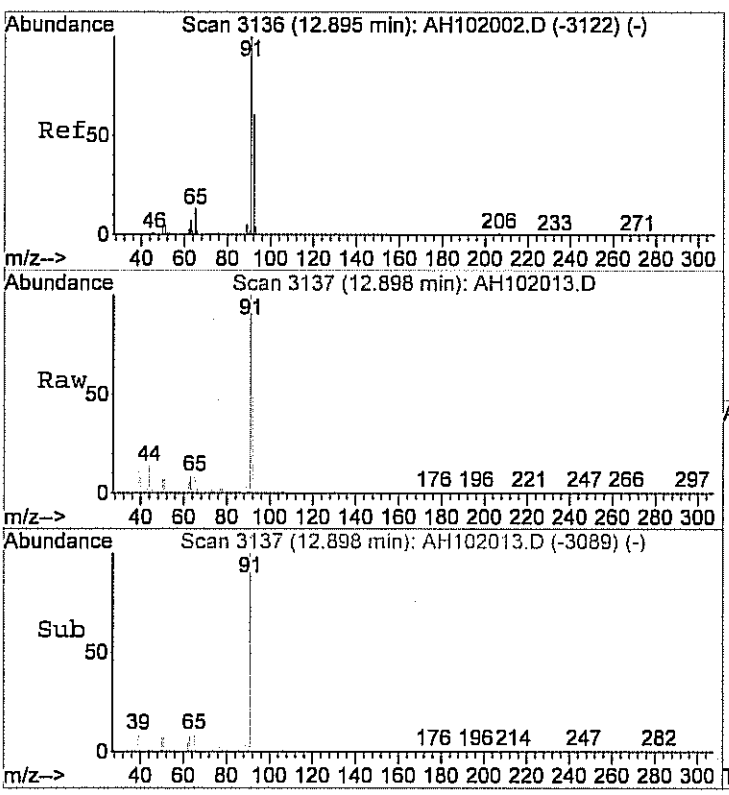


#38
Trichloroethene
Concen: 0.26 ppb
RT: 10.62 min Scan# 2428
Delta R.T. 0.00 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion:130 Resp: 6655

Ion	Ratio	Lower	Upper
130	100		
132	95.2	76.6	116.6
95	102.3	73.4	113.4

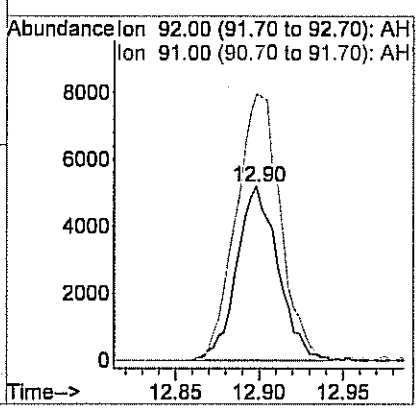


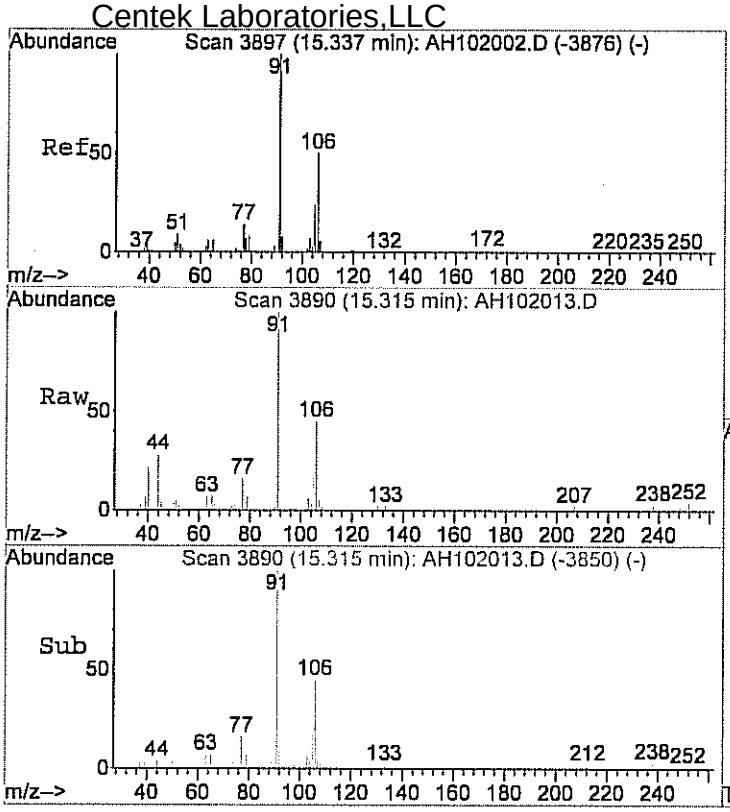


#45
Toluene
Concen: 0.36 ppb
RT: 12.90 min Scan# 3137
Delta R.T. 0.00 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion: 92 Resp: 8879

Ion	Ratio	Lower	Upper
92	100		
91	164.5	147.6	187.6

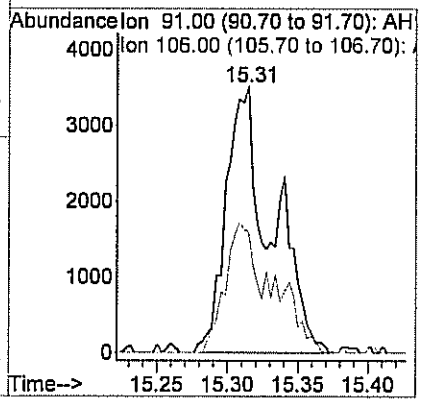


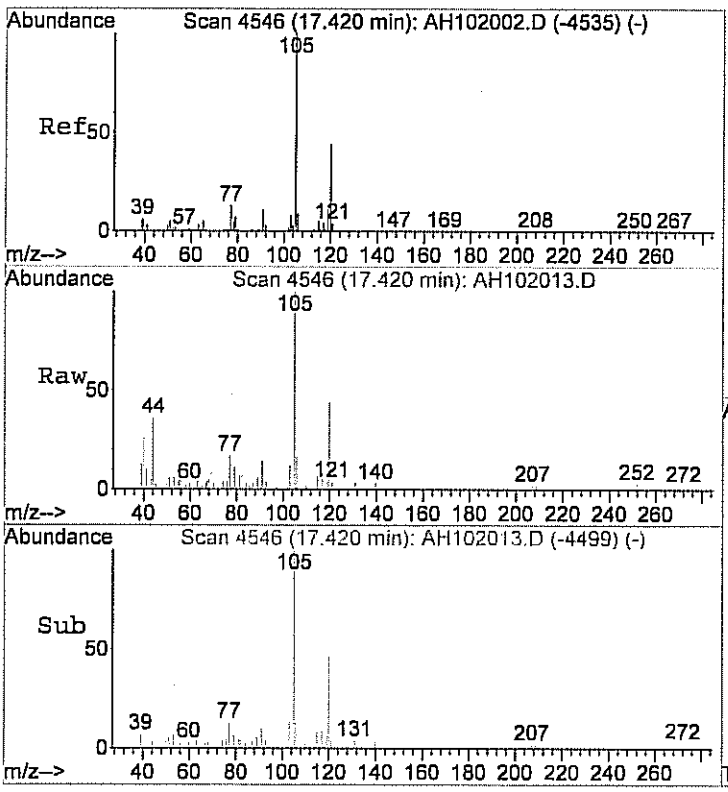


#53
m&p-xylene
Concen: 0.20 ppb
RT: 15.31 min Scan# 3890
Delta R.T. -0.02 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion: 91 Resp: 7725

Ion	Ratio	Lower	Upper
91	100		
106	50.8	29.4	69.4

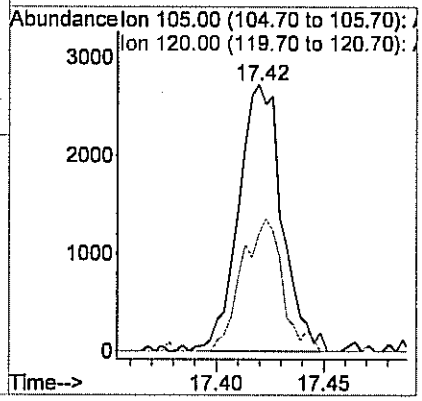




#61
1,2,4-trimethylbenzene
Concen: 0.13 ppb
RT: 17.42 min Scan# 4546
Delta R.T. -0.00 min
Lab File: AH102013.D
Acq: 20 Oct 2010 8:54 pm

Tgt Ion:105 Resp: 3832

Ion	Ratio	Lower	Upper
105	100		
120	46.5	26.8	66.8



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2,4-Trimethylbenzene	0.10	0.15	J	ppbV	1	10/20/2010 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Chloromethane	0.43	0.15		ppbV	1	10/20/2010 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 9:26:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 113	0.13	0.15	J	ppbV	1	10/20/2010 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Freon 12	0.59	0.15		ppbV	1	10/20/2010 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	10/20/2010 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Toluene	0.25	0.15		ppbV	1	10/20/2010 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:26:00 PM
Surr: Bromofluorobenzene	104	70-130		%REC	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
1,2,4-Trimethylbenzene	0.50	0.75	J	ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 9:26:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/20/2010 9:26:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/20/2010 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 9:26:00 PM
Chloromethane	0.90	0.31		ug/m3	1	10/20/2010 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 9:26:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AB
Lab Order:	C1010037	**Tag Number:**	467
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	1.0	1.2	J	ug/m3	1	10/20/2010 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 9:26:00 PM
Freon 12	3.0	0.75		ug/m3	1	10/20/2010 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	10/20/2010 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 9:26:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 9:26:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 9:26:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 9:26:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 9:26:00 PM
Toluene	0.96	0.57		ug/m3	1	10/20/2010 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:26:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 9:26:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102014.D Vial: 4
Acq On : 20 Oct 2010 9:26 pm Operator: RJP
Sample : C1010037-002A Inst : MSD #1
Misc : C1010037-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 21:47:00 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

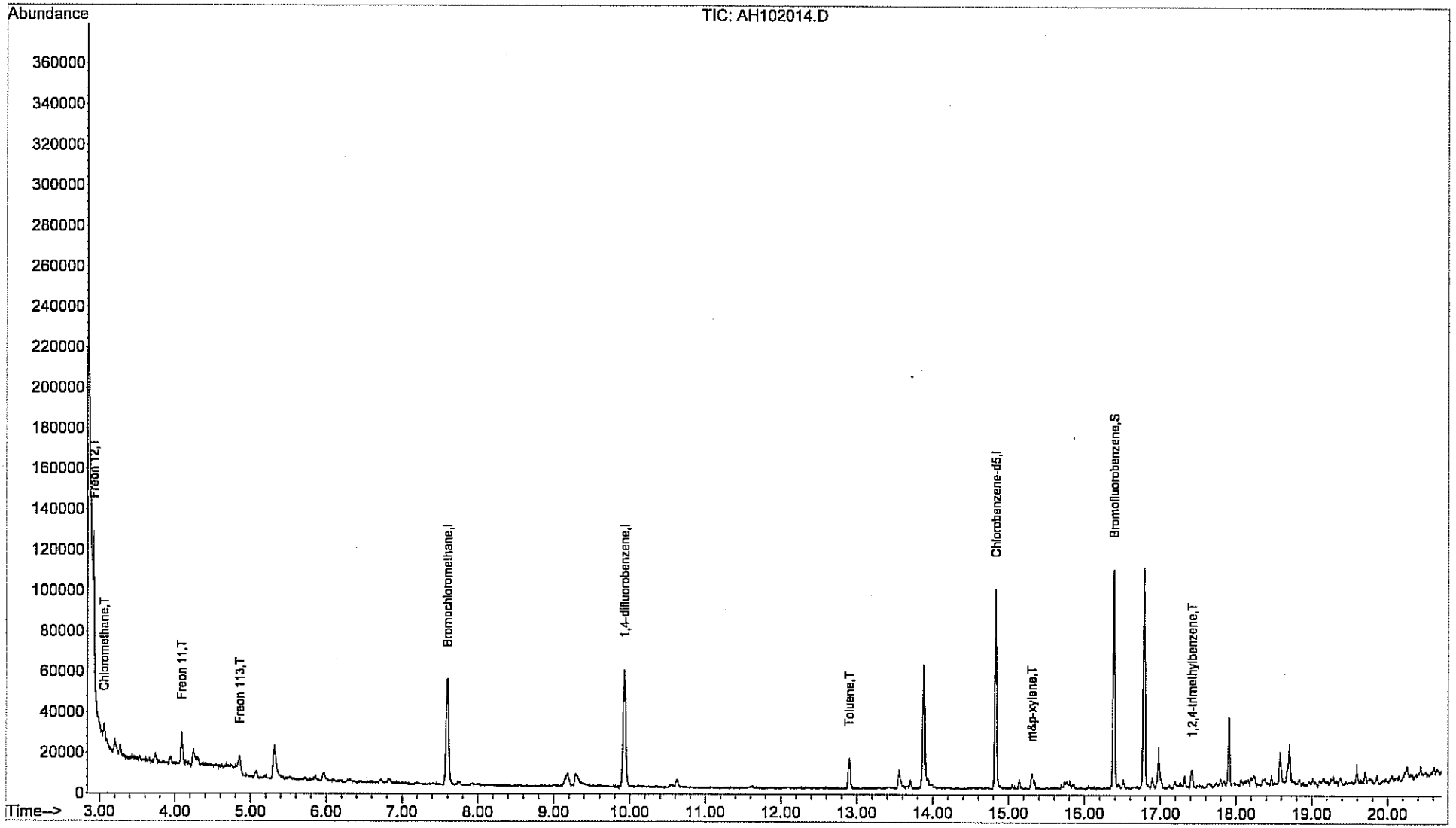
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	18435	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.93	114	61302	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	54077	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.39	95	30816	1.04	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 104.00%			
Target Compounds						Qvalue
3) Freon 12	2.92	85	33873	0.59	ppb	99
4) Chloromethane	3.06	50	4805	0.43	ppb	83
11) Freon 11	4.09	101	10844	0.29	ppb	99
15) Freon 113	4.85	101	3225	0.13	ppb	96
45) Toluene	12.90	92	6818	0.25	ppb	100
53) m&p-xylene	15.31	91	5724	0.13	ppb	100
61) 1,2,4-trimethylbenzene	17.42	105	3548	0.10	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102014.D AO14_1UG.M Tue Nov 09 15:02:55 2010 MSD1 Page 1

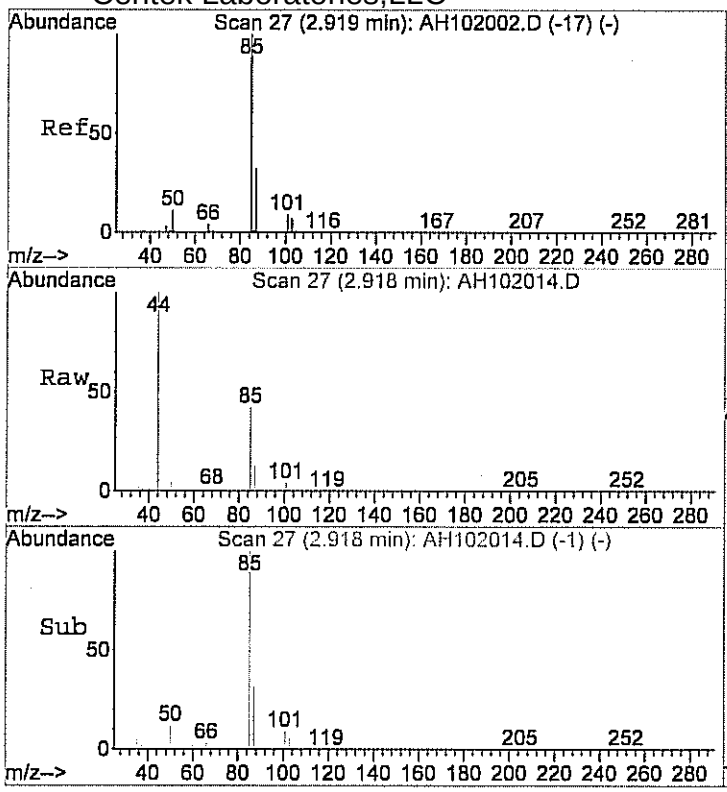
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102014.D Vial: 4
Acq On : 20 Oct 2010 9:26 pm Operator: RJP
Sample : C1010037-002A Inst : MSD #1
Misc : C1010037-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:00 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



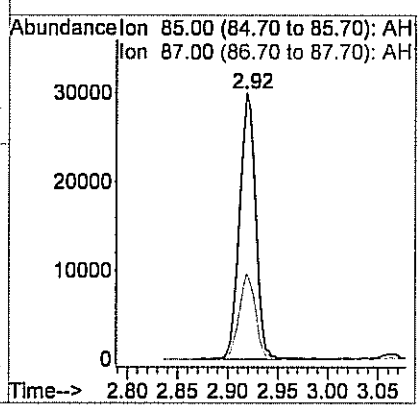
Centek Laboratories,LLC

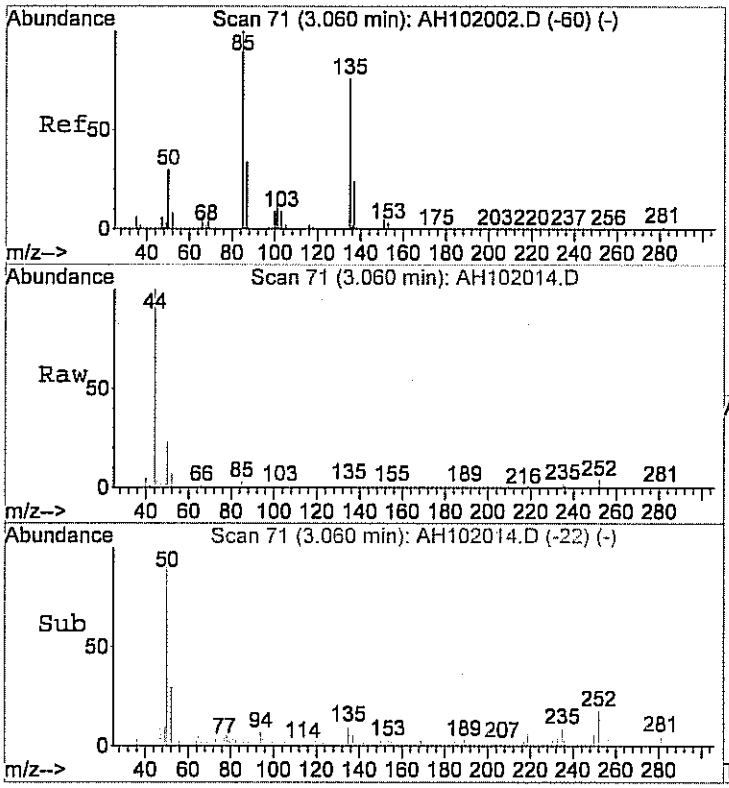


#3
Freon 12
Concen: 0.59 ppb
RT: 2.92 min Scan# 27
Delta R.T. 0.00 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion: 85 Resp: 33873

Ion	Ratio	Lower	Upper
85	100		
87	32.4	13.2	53.2

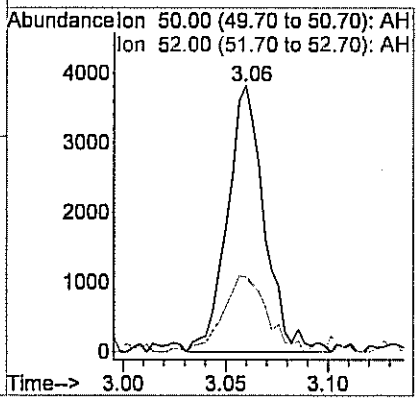


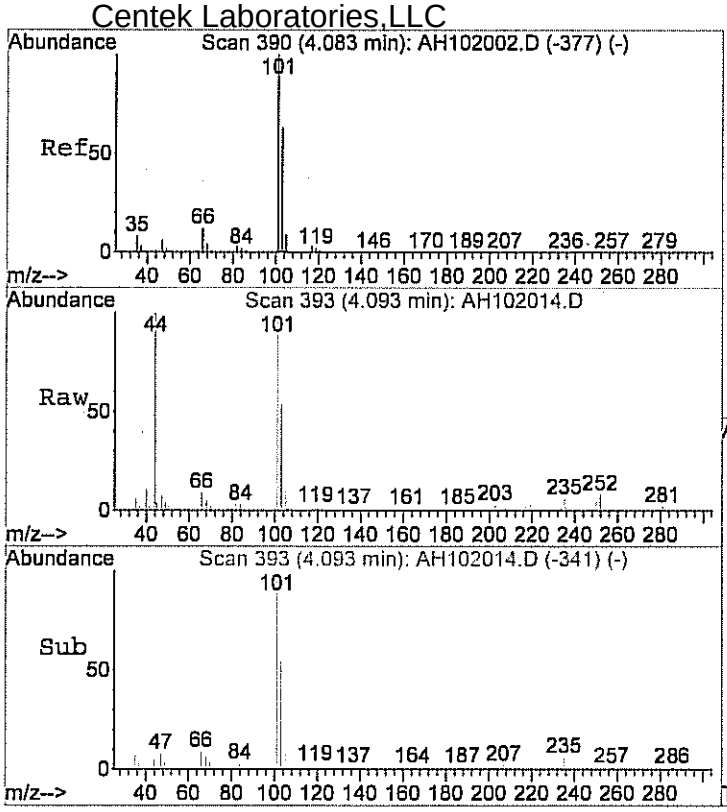


#4
Chloromethane
Concen: 0.43 ppb
RT: 3.06 min Scan# 71
Delta R.T. 0.01 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion: 50 Resp: 4805

Ion	Ratio	Lower	Upper
50	100		
52	34.0	5.3	45.3

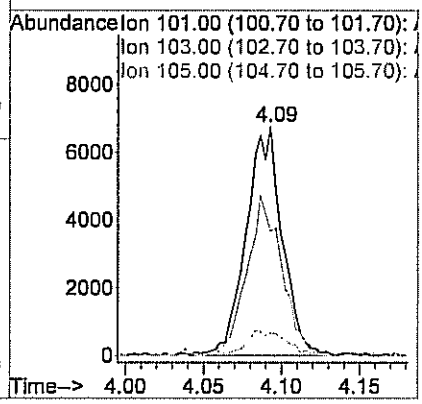


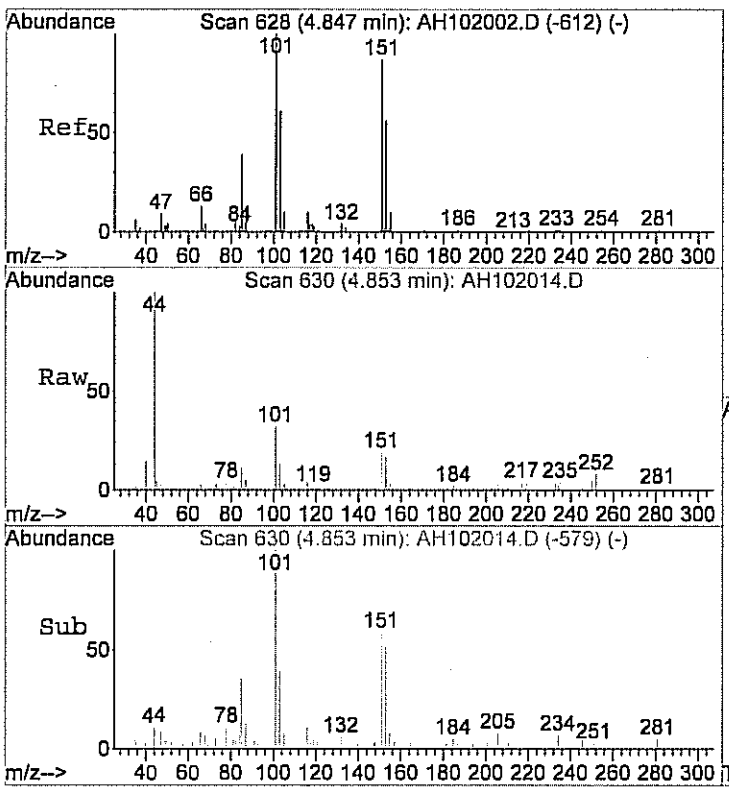


#11
Freon 11
Concen: 0.29 ppb
RT: 4.09 min Scan# 393
Delta R.T. 0.02 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion:101 Resp: 10844

Ion	Ratio	Lower	Upper
101	100		
103	68.4	47.5	87.5
105	11.9	0.0	31.3

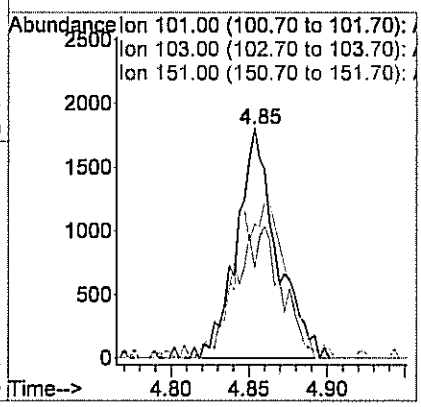


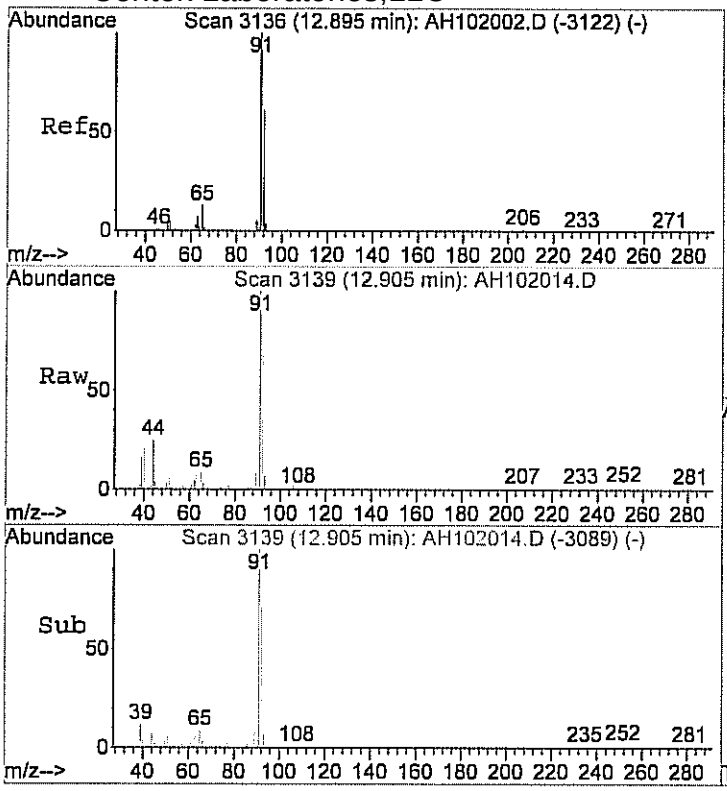


#15
Freon 113
Concen: 0.13 ppb
RT: 4.85 min Scan# 630
Delta R.T. 0.01 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion:101 Resp: 3225

Ion	Ratio	Lower	Upper
101	100		
103	67.3	45.6	85.6
151	85.1	70.4	110.4

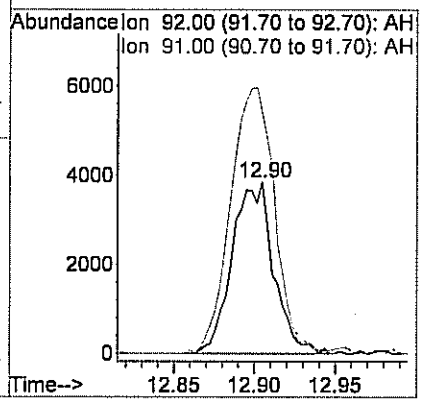


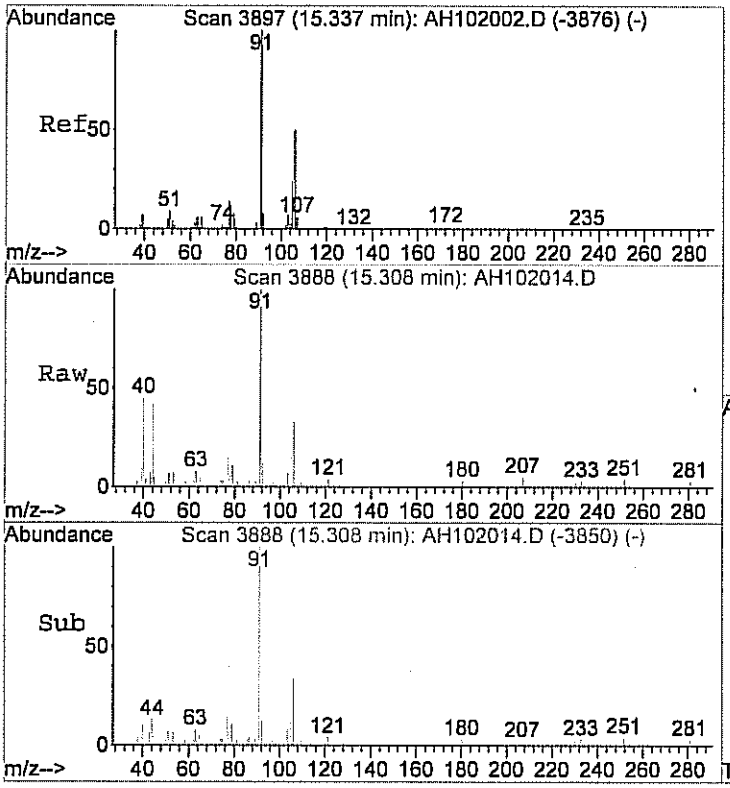


#45
Toluene
Concen: 0.25 ppb
RT: 12.90 min Scan# 3139
Delta R.T. 0.01 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion: 92 Resp: 6818

Ion	Ratio	Lower	Upper
92	100		
91	167.5	147.6	187.6

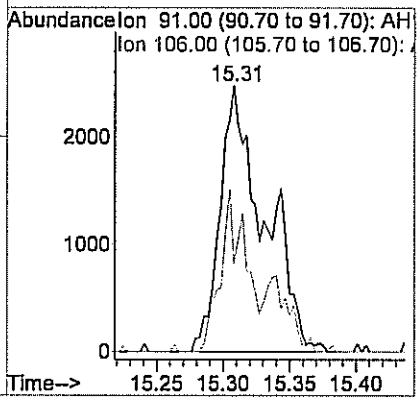


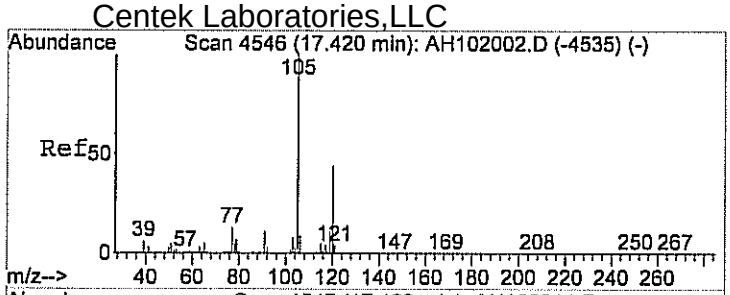


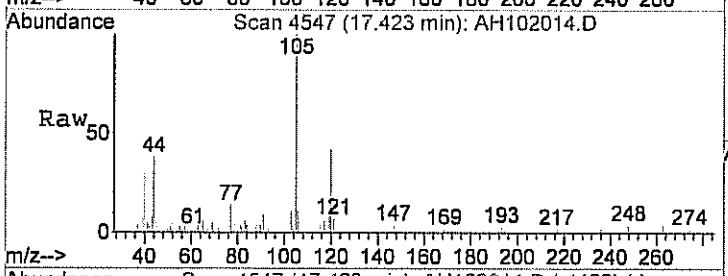
#53
m&p-xylene
Concen: 0.13 ppb
RT: 15.31 min Scan# 3888
Delta R.T. -0.03 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

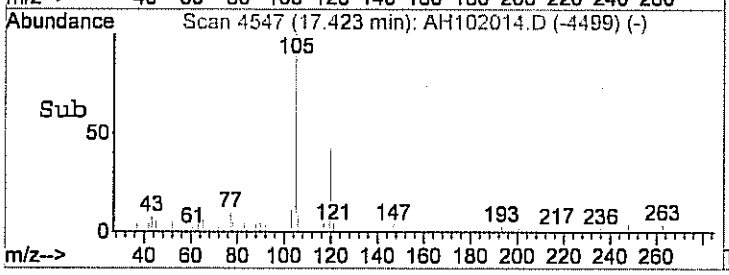
Tgt Ion: 91 Resp: 5724

Ion	Ratio	Lower	Upper
91	100		
106	49.6	29.4	69.4





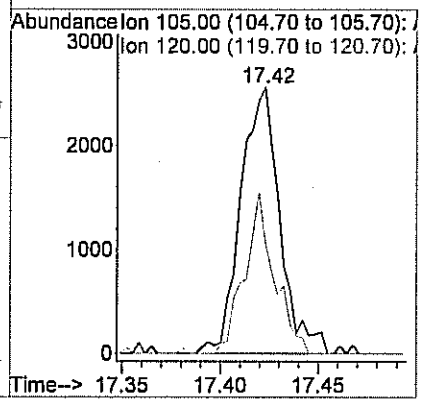




#61
1,2,4-trimethylbenzene
Concen: 0.10 ppb
RT: 17.42 min Scan# 4547
Delta R.T. 0.00 min
Lab File: AH102014.D
Acq: 20 Oct 2010 9:26 pm

Tgt Ion:105 Resp: 3548

Ion	Ratio	Lower	Upper
105	100		
120	46.0	26.8	66.8



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2,4-Trimethylbenzene	0.14	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Acetone	8.4	3.0		ppbV	10	10/21/2010 12:04:00 AM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Benzene	0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Carbon disulfide	1.1	0.15		ppbV	1	10/20/2010 9:58:00 PM
Carbon tetrachloride	0.11	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloroform	0.31	0.15		ppbV	1	10/20/2010 9:58:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
cis-1,2-Dichloroethene	0.28	0.15		ppbV	1	10/20/2010 9:58:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 9:58:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 113	0.14	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 12	0.59	0.15		ppbV	1	10/20/2010 9:58:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	10/20/2010 9:58:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Methylene chloride	0.42	0.15		ppbV	1	10/20/2010 9:58:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Tetrahydrofuran	1.9	0.15		ppbV	1	10/20/2010 9:58:00 PM
Toluene	0.32	0.15		ppbV	1	10/20/2010 9:58:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Trichloroethene	170	27		ppbV	180	10/21/2010 10:55:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:58:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 9:58:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 9:58:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
1,2,4-Trimethylbenzene	0.70	0.75	J	ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 9:58:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 9:58:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 9:58:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 9:58:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 9:58:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 9:58:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 9:58:00 PM
Acetone	20	7.2		ug/m3	10	10/21/2010 12:04:00 AM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 9:58:00 PM
Benzene	0.49	0.49		ug/m3	1	10/20/2010 9:58:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 9:58:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 9:58:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 9:58:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 9:58:00 PM
Carbon disulfide	3.4	0.47		ug/m3	1	10/20/2010 9:58:00 PM
Carbon tetrachloride	0.70	0.96	J	ug/m3	1	10/20/2010 9:58:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 9:58:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 9:58:00 PM
Chloroform	1.5	0.74		ug/m3	1	10/20/2010 9:58:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 9:58:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	10/20/2010 9:58:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 9:58:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 9:58:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 9:58:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 9:58:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 9:58:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AB
Lab Order:	C1010037	**Tag Number:**	231
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 9:58:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 113	0.14	0.15	J	ppbV	1	10/20/2010 9:58:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Freon 12	0.59	0.15		ppbV	1	10/20/2010 9:58:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
m&p-Xylene	0.19	0.30	J	ppbV	1	10/20/2010 9:58:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 9:58:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Methylene chloride	0.42	0.15		ppbV	1	10/20/2010 9:58:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Tetrahydrofuran	1.9	0.15		ppbV	1	10/20/2010 9:58:00 PM
Toluene	0.32	0.15		ppbV	1	10/20/2010 9:58:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Trichloroethene	170	27		ppbV	180	10/21/2010 10:55:00 AM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 9:58:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	10/20/2010 9:58:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102015.D Vial: 5
Acq On : 20 Oct 2010 9:58 pm Operator: RJP
Sample : C1010037-003A Inst : MSD #1
Misc : C1010037-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 22:19:02 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	18225	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	61997	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	52474	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.39	95	29649	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	33433	0.59	ppb		100
11) Freon 11	4.09	101	10921	0.29	ppb		99
12) Acetone	4.23	58	17868	5.88	ppb	#	82
15) Freon 113	4.86	101	3463	0.14	ppb		94
16) Methylene chloride	5.07	84	3811	0.42	ppb		88
18) Carbon disulfide	5.19	76	30171	1.06	ppb		97
23) Methyl Ethyl Ketone	6.82	43	7190	0.33	ppb	#	77
24) cis-1,2-dichloroethene	7.18	61	5489	0.28	ppb		91
27) Chloroform	7.76	83	12811	0.31	ppb		98
28) Tetrahydrofuran	7.95	42	14748	1.94	ppb		92
33) Carbon tetrachloride	9.18	117	4916	0.11	ppb		92
34) Benzene	9.14	78	5984	0.15	ppb		96
38) Trichloroethene	10.62	130	3523897	132.94	ppb		98
45) Toluene	12.90	92	8514	0.32	ppb		94
53) m&p-xylene	15.31	91	7958	0.19	ppb		97
61) 1,2,4-trimethylbenzene	17.42	105	4612	0.14	ppb		90

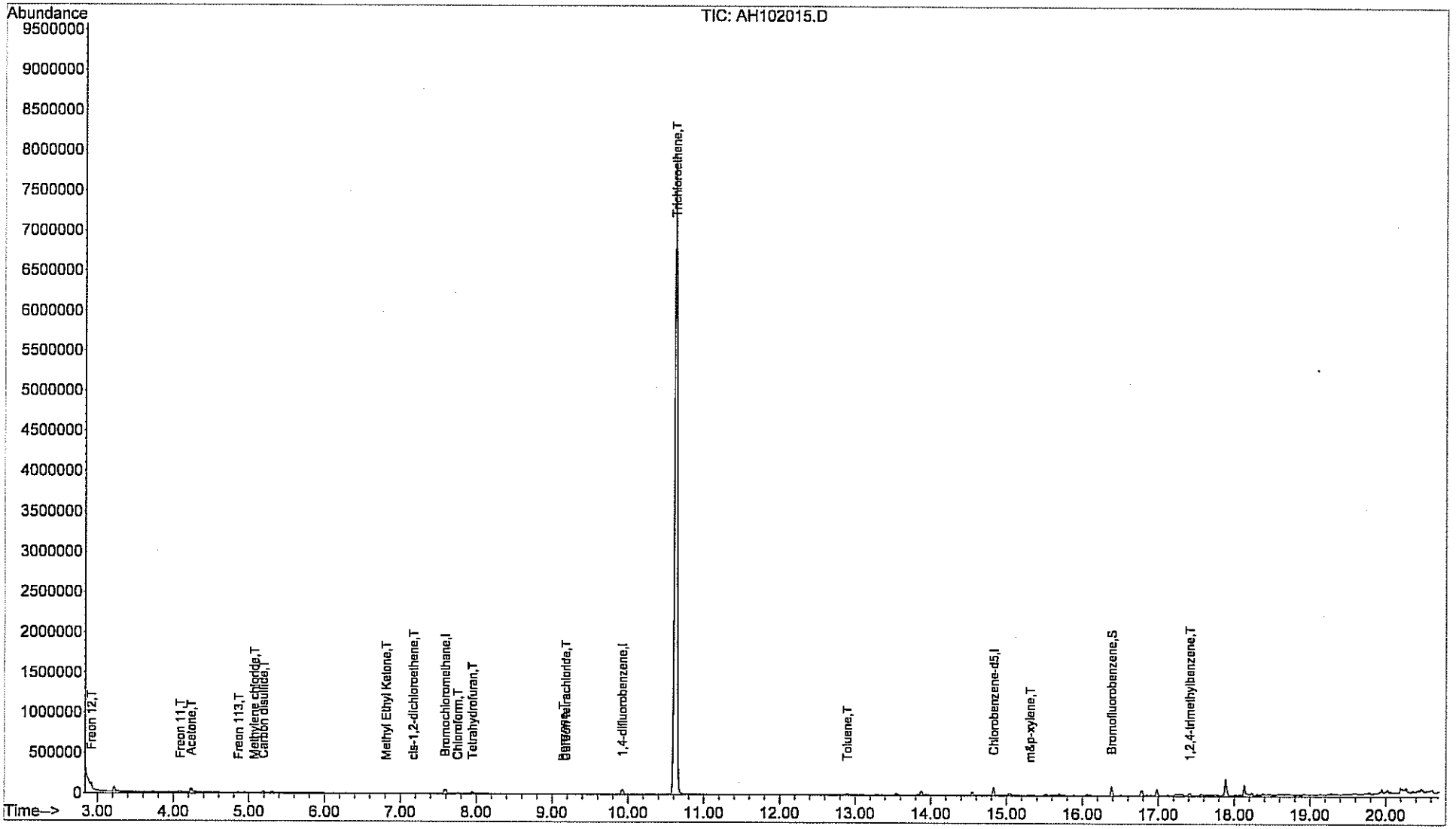
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102015.D AO14_1UG.M Tue Nov 09 15:03:00 2010 MSD1 Page 1

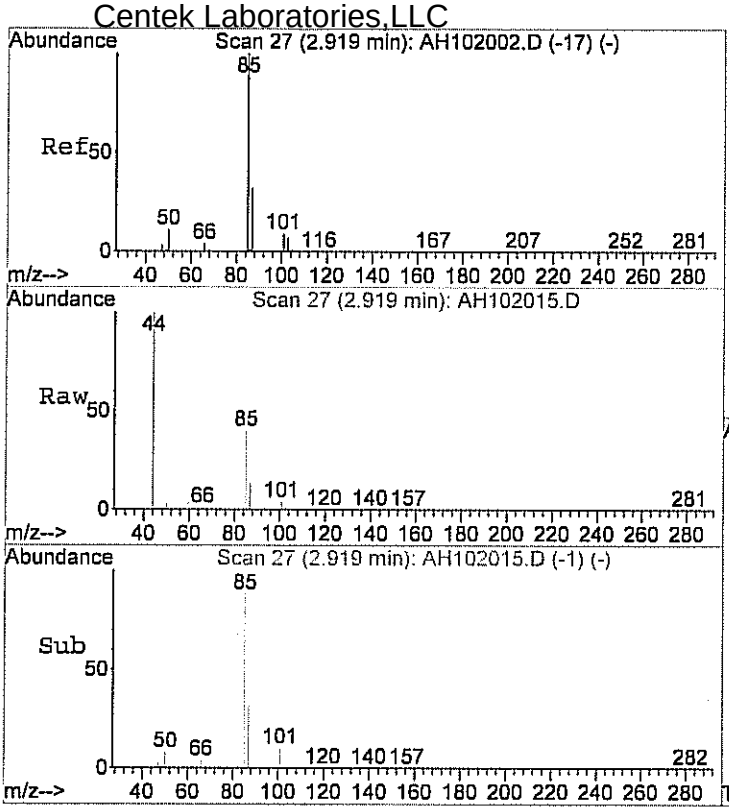
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102015.D
Acq On : 20 Oct 2010 9:58 pm
Sample : C1010037-003A
Misc : C1010037-003A
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:05 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration

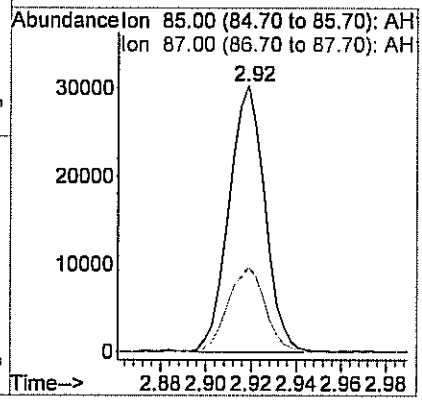


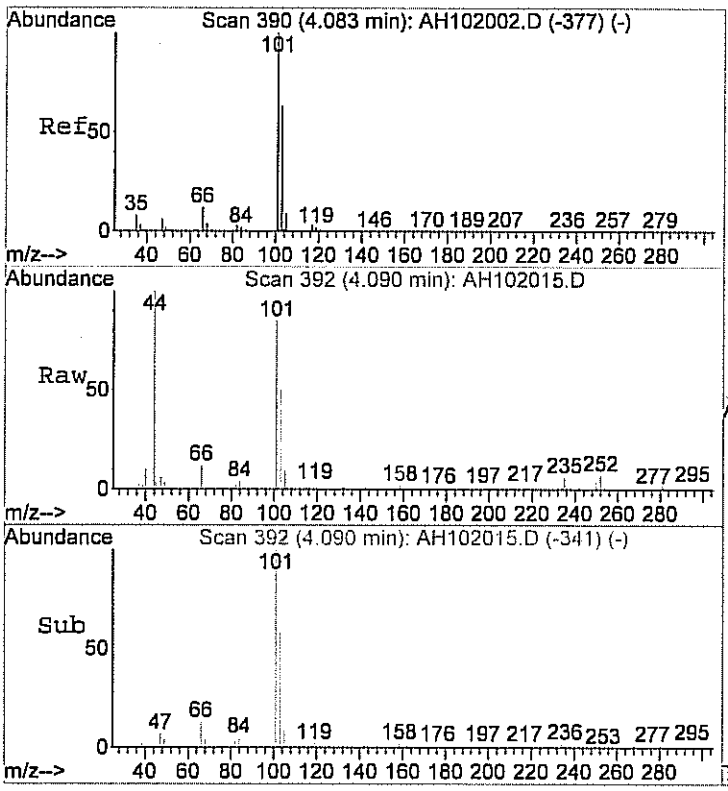


#3
Freon 12
Concen: 0.59 ppb
RT: 2.92 min Scan# 27
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 85 Resp: 33433

Ion	Ratio	Lower	Upper
85	100		
87	33.1	13.2	53.2

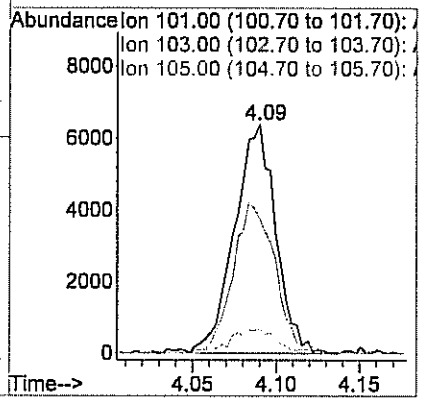


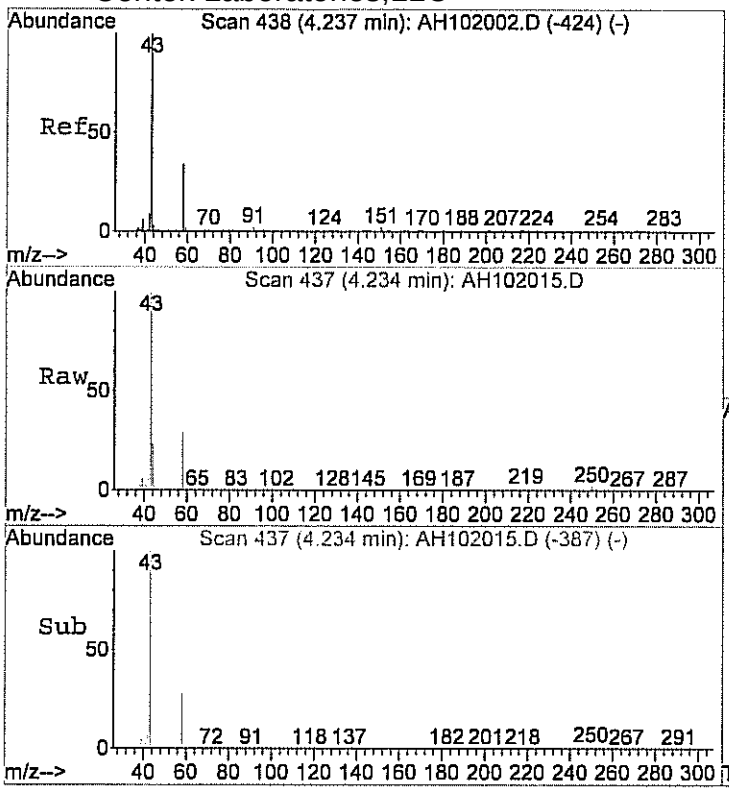


#11
Freon 11
Concen: 0.29 ppb
RT: 4.09 min Scan# 392
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion:101 Resp: 10921

Ion	Ratio	Lower	Upper
101	100		
103	67.0	47.5	87.5
105	11.7	0.0	31.3

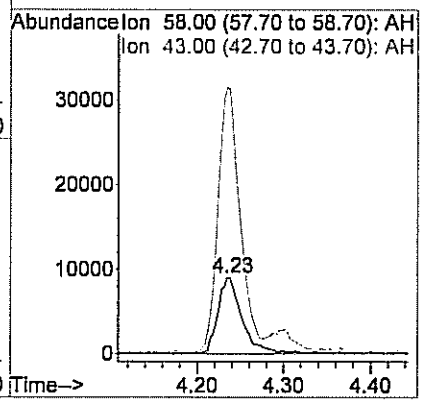


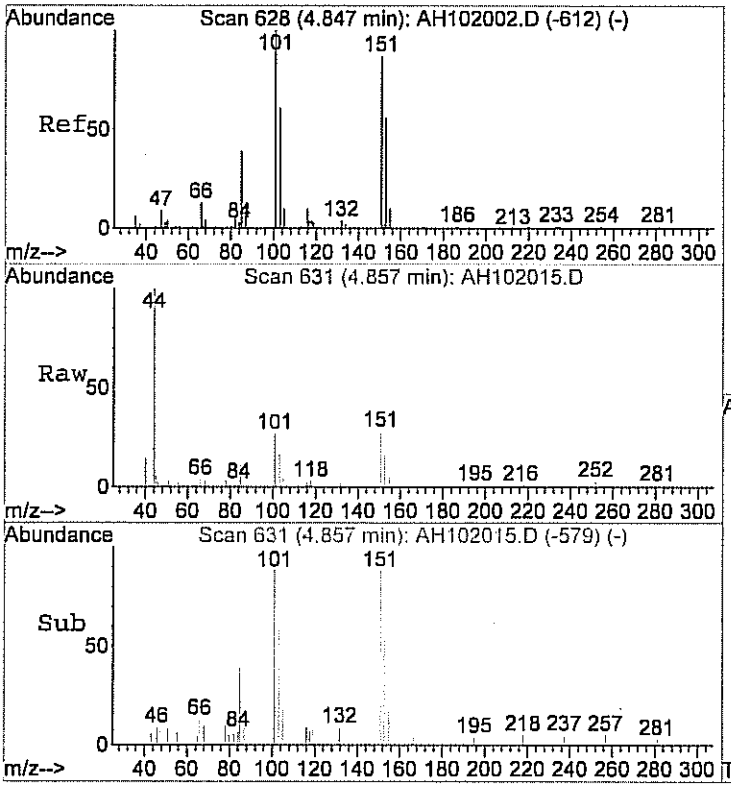


#12
Acetone
Concen: 5.88 ppb
RT: 4.23 min Scan# 437
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 58 Resp: 17868

Ion	Ratio	Lower	Upper
58	100		
43	352.2	285.5	345.5#

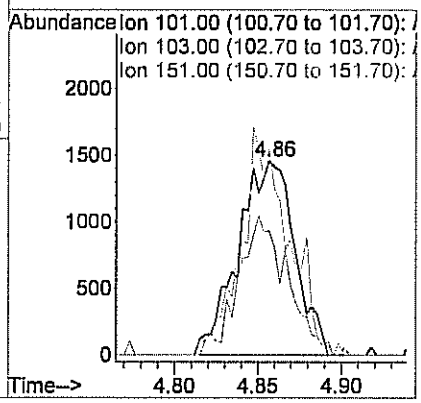


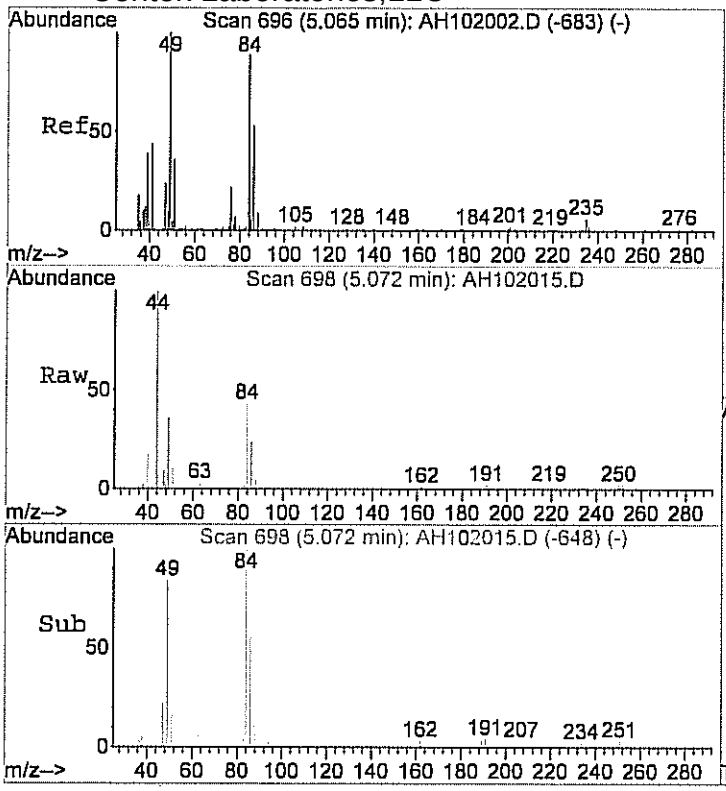


#15
Freon 113
Concen: 0.14 ppb
RT: 4.86 min Scan# 631
Delta R.T. 0.02 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion:101 Resp: 3463

Ion	Ratio	Lower	Upper
101	100		
103	61.9	45.6	85.6
151	96.3	70.4	110.4

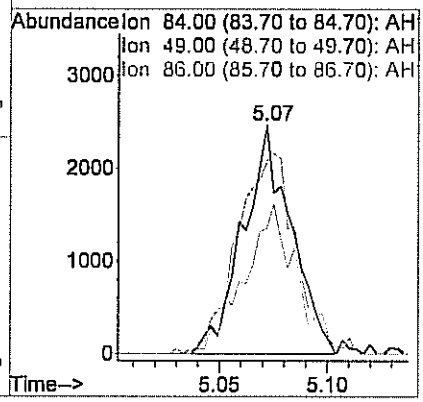


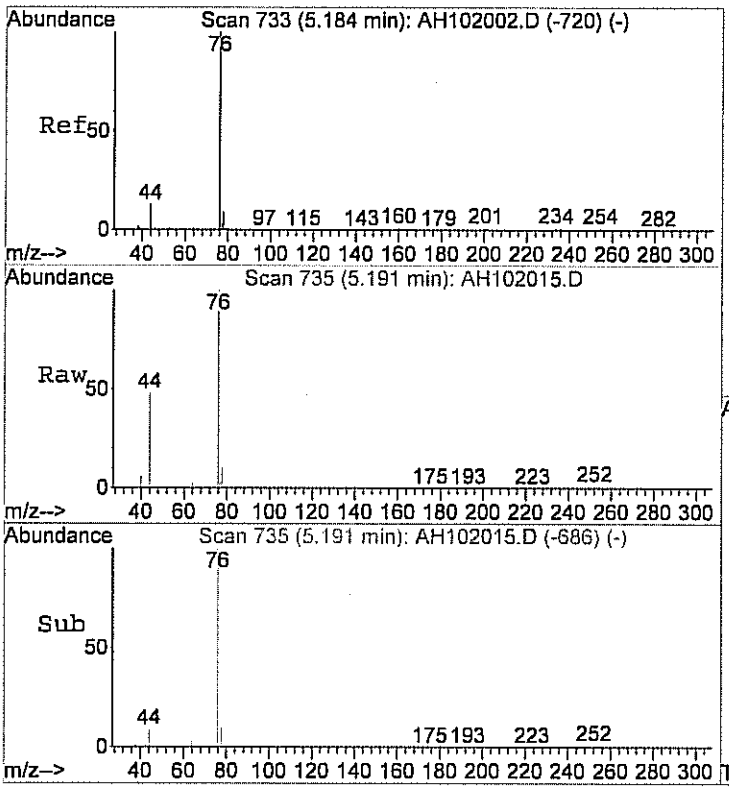


#16
Methylene chloride
Concen: 0.42 ppb
RT: 5.07 min Scan# 698
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 84 Resp: 3811

Ion	Ratio	Lower	Upper
84	100		
49	107.5	104.8	144.8
86	70.7	46.6	86.6

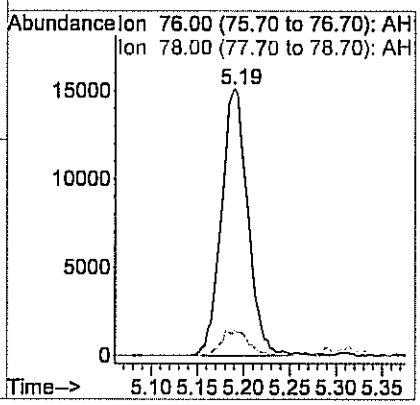


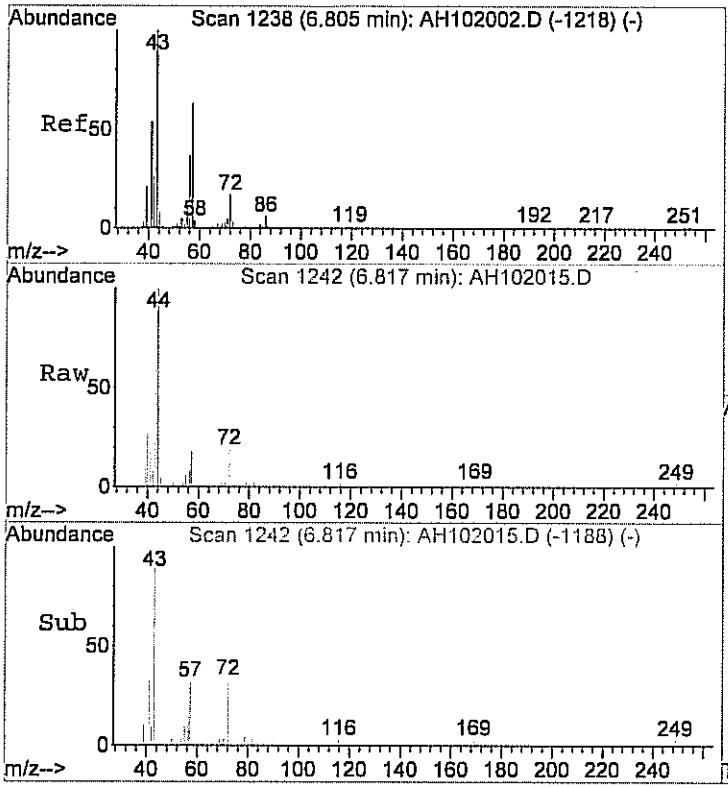


#18
Carbon disulfide
Concen: 1.06 ppb
RT: 5.19 min Scan# 735
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 76 Resp: 30171

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	31.0

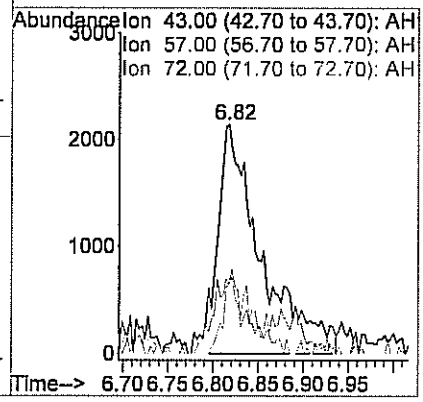


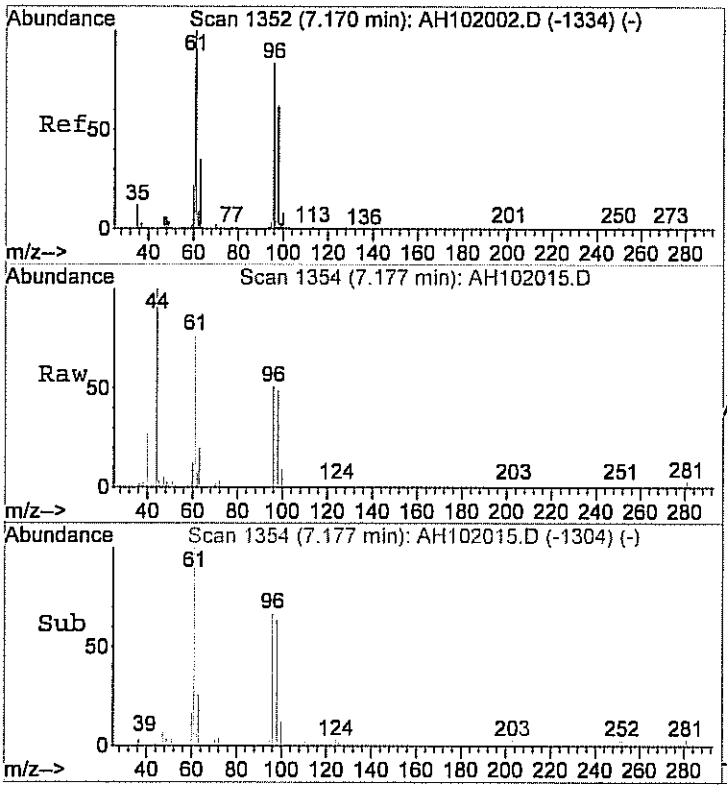


#23
Methyl Ethyl Ketone
Concen: 0.33 ppb
RT: 6.82 min Scan# 1242
Delta R.T. 0.02 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 43 Resp: 7190

Ion	Ratio	Lower	Upper
43	100		
57	36.4	38.3	78.3#
72	21.7	0.1	40.1

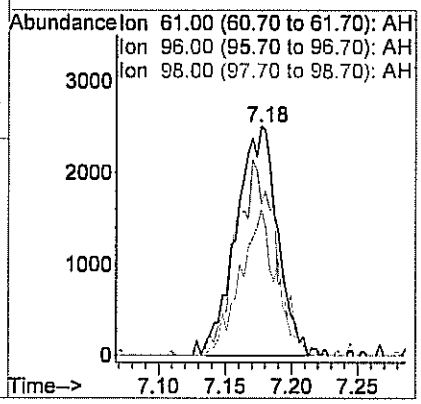


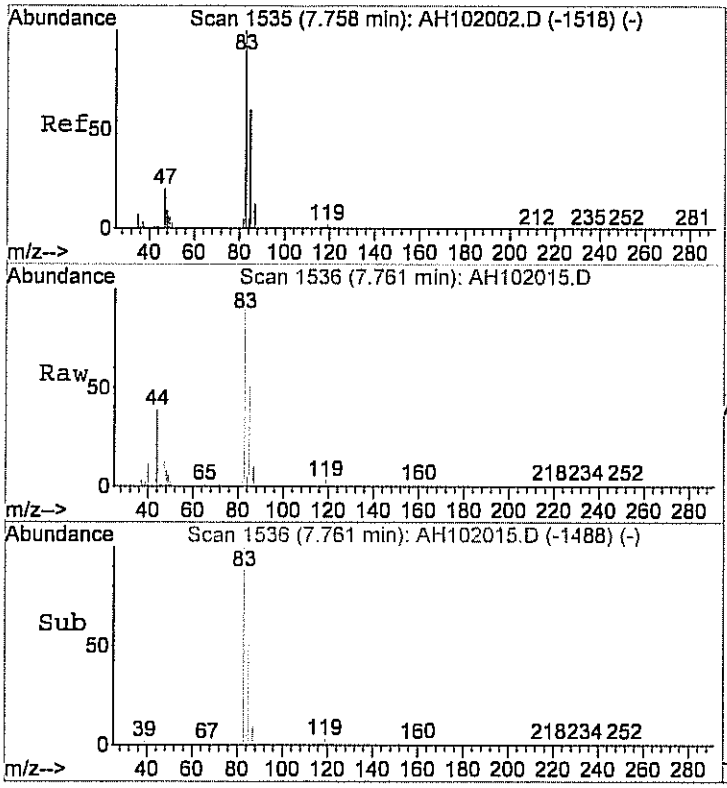


#24
cis-1,2-dichloroethene
Concen: 0.28 ppb
RT: 7.18 min Scan# 1354
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 61 Resp: 5489

Ion	Ratio	Lower	Upper
61	100		
96	82.3	72.5	112.5
98	54.6	39.0	79.0

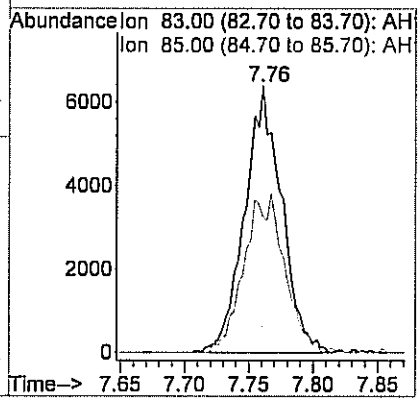


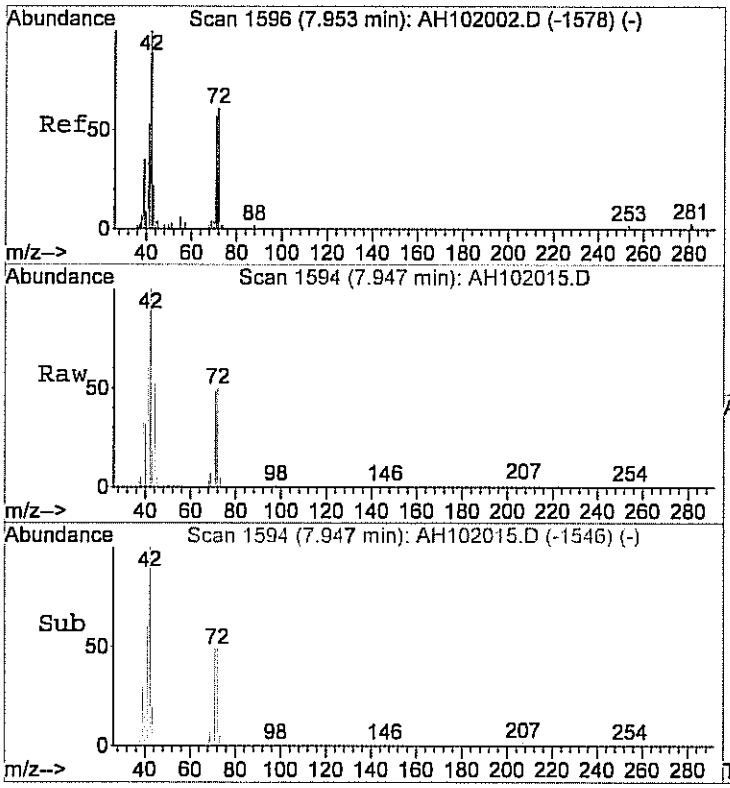


#27
Chloroform
Concen: 0.31 ppb
RT: 7.76 min Scan# 1536
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 83 Resp: 12811

Ion	Ratio	Lower	Upper
83	100		
85	64.8	46.3	86.3

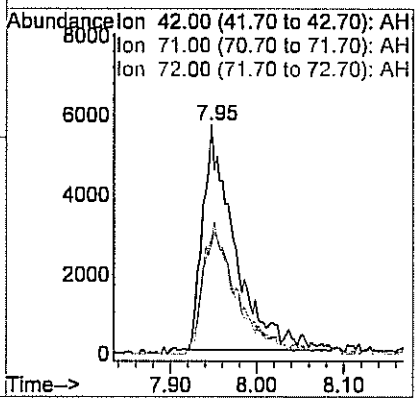


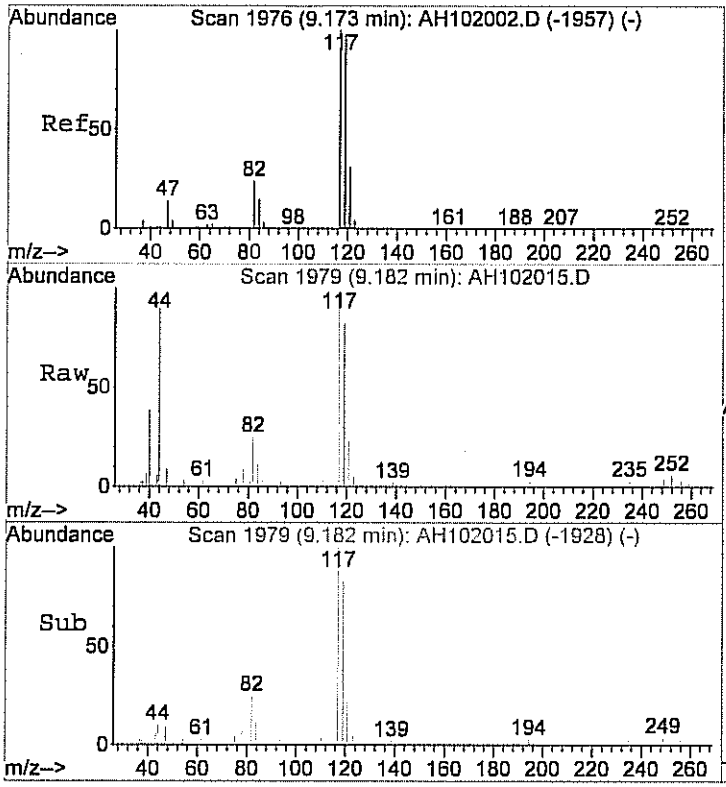


#28
Tetrahydrofuran
Concen: 1.94 ppb
RT: 7.95 min Scan# 1594
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 42 Resp: 14748

Ion	Ratio	Lower	Upper
42	100		
71	60.1	33.1	73.1
72	59.6	35.0	75.0

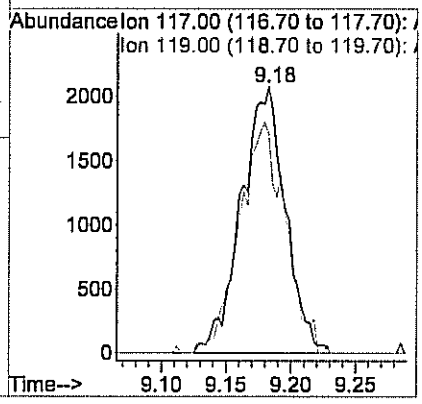


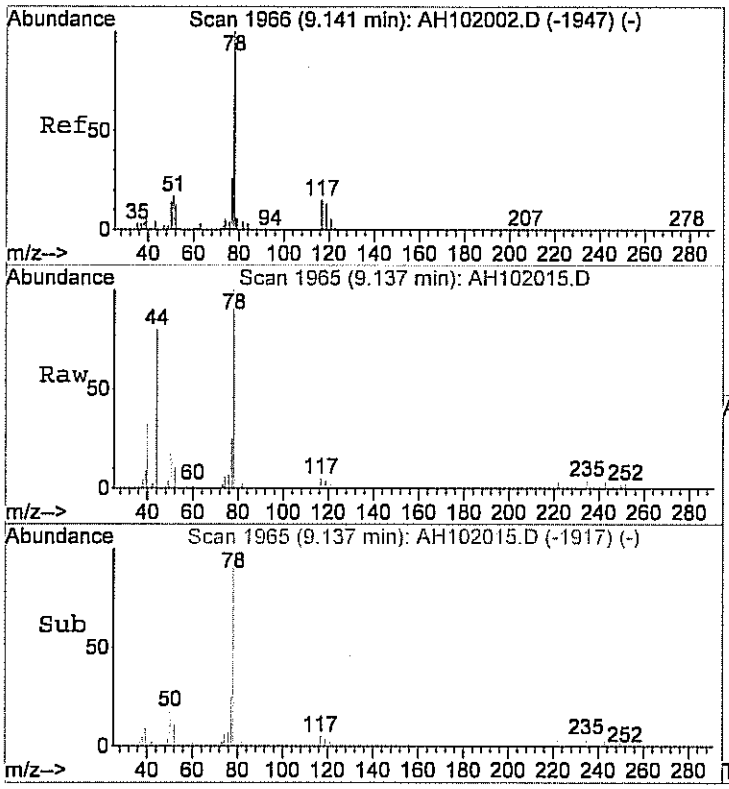


#33
Carbon tetrachloride
Concen: 0.11 ppb
RT: 9.18 min Scan# 1979
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion:117 Resp: 4916

Ion	Ratio	Lower	Upper
117	100		
119	89.5	77.3	117.3

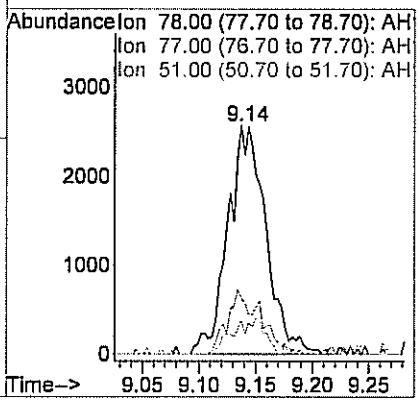


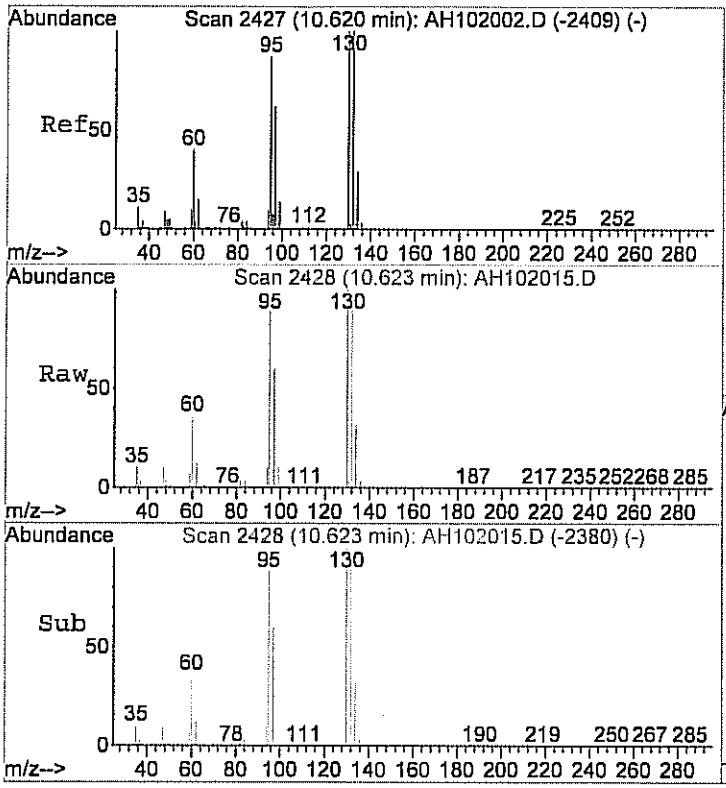


#34
Benzene
Concen: 0.15 ppb
RT: 9.14 min Scan# 1965
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 78 Resp: 5984

Ion	Ratio	Lower	Upper
78	100		
77	24.4	2.8	42.8
51	13.1	0.0	34.6

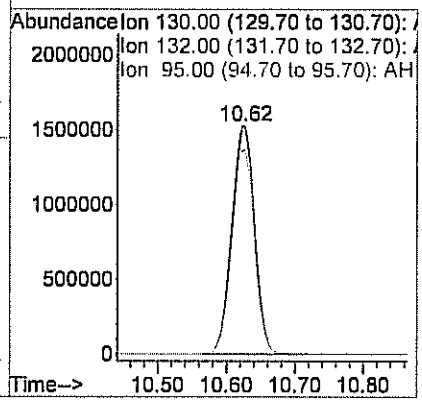


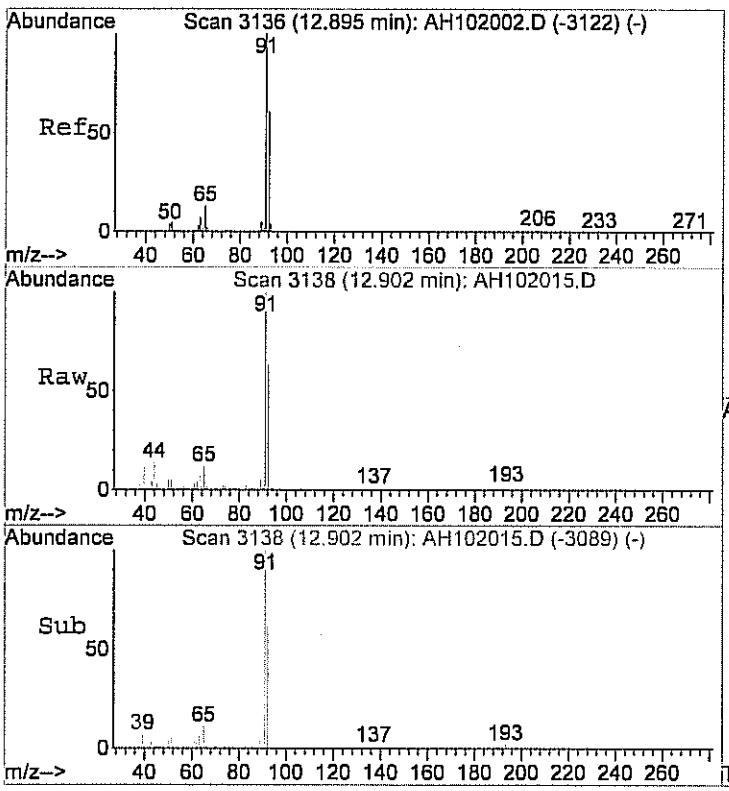


#38
Trichloroethene
Concen: 132.94 ppb
RT: 10.62 min Scan# 2428
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion:130 Resp: 3523897

Ion	Ratio	Lower	Upper
130	100		
132	97.4	76.6	116.6
95	91.1	73.4	113.4

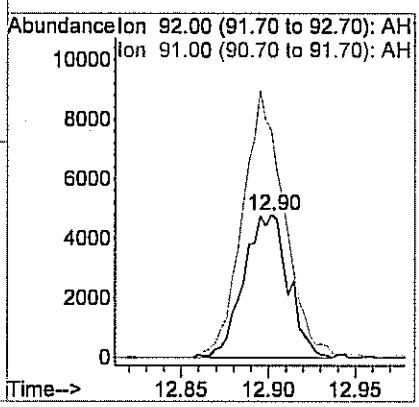


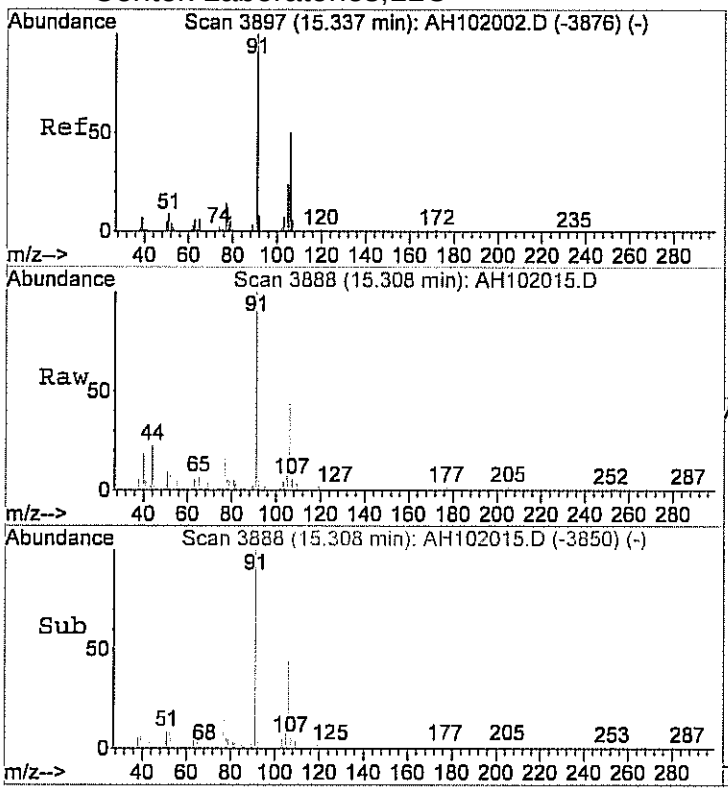


#45
Toluene
Concen: 0.32 ppb
RT: 12.90 min Scan# 3138
Delta R.T. 0.01 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 92 Resp: 8514

Ion	Ratio	Lower	Upper
92	100		
91	176.1	147.6	187.6

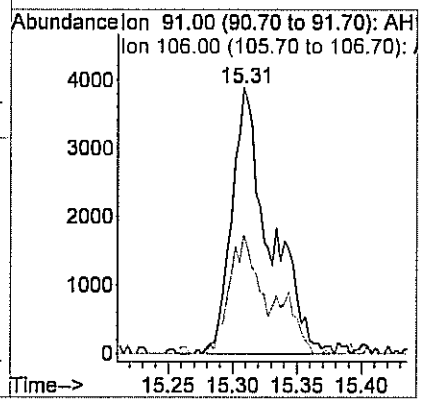


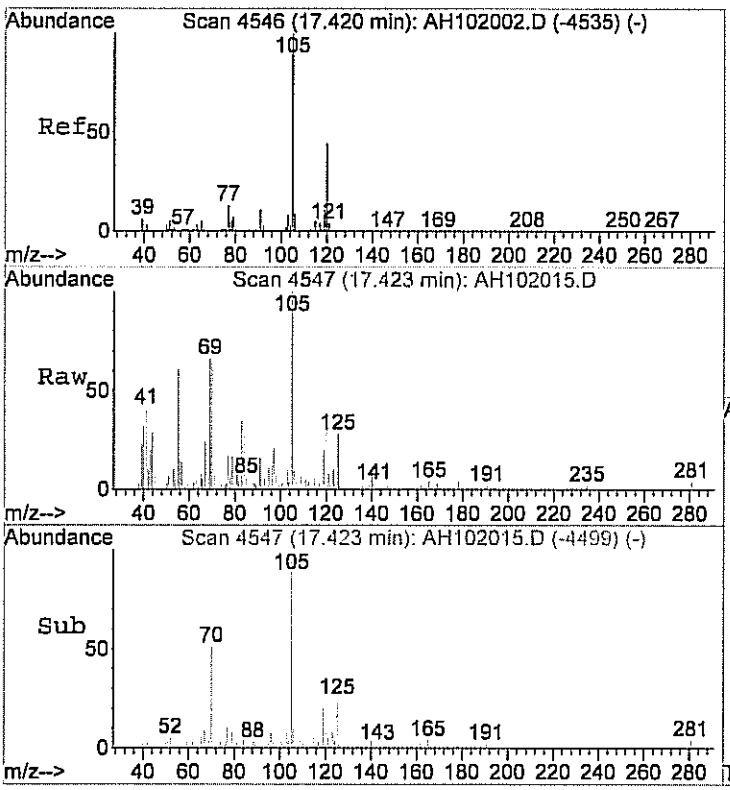


#53
m&p-xylene
Concen: 0.19 ppb
RT: 15.31 min Scan# 3888
Delta R.T. -0.03 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion: 91 Resp: 7958

Ion	Ratio	Lower	Upper
91	100		
106	47.1	29.4	69.4

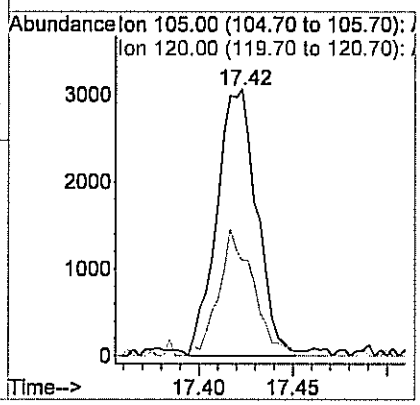




#61
1,2,4-trimethylbenzene
Concen: 0.14 ppb
RT: 17.42 min Scan# 4547
Delta R.T. 0.00 min
Lab File: AH102015.D
Acq: 20 Oct 2010 9:58 pm

Tgt Ion:105 Resp: 4612

Ion	Ratio	Lower	Upper
105	100		
120	40.4	26.8	66.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102019.D Vial: 9
Acq On : 21 Oct 2010 12:04 am Operator: RJP
Sample : C1010037-003A 10X Inst : MSD #1
Misc : C1010037-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 00:25:27 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

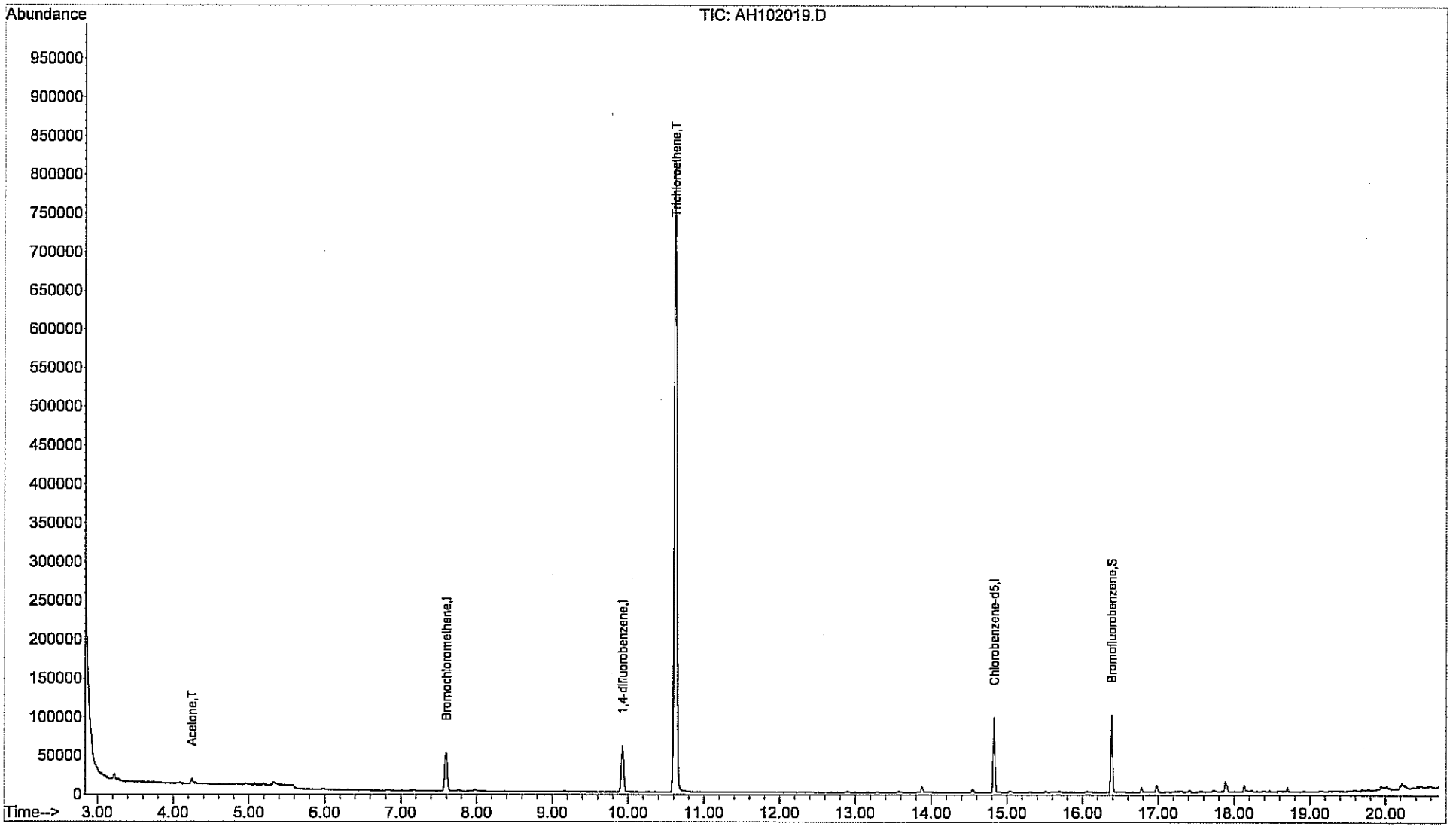
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	18194	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.93	114	61954	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	52292	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	27626	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
12) Acetone	4.25	58	2541	0.84	ppb	99
38) Trichloroethene	10.62	130	344514	13.01	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102019.D AO14_1UG.M Tue Nov 09 15:03:11 2010 MSD1 Page 1

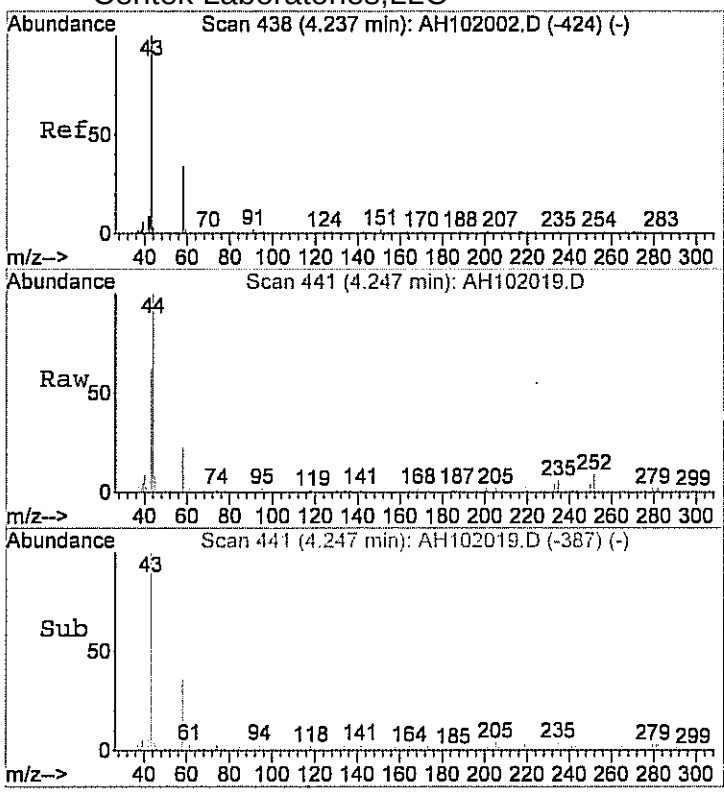
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102019.D Vial: 9
Acq On : 21 Oct 2010 12:04 am Operator: RJP
Sample : C1010037-003A 10X Inst : MSD #1
Misc : C1010037-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:08 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



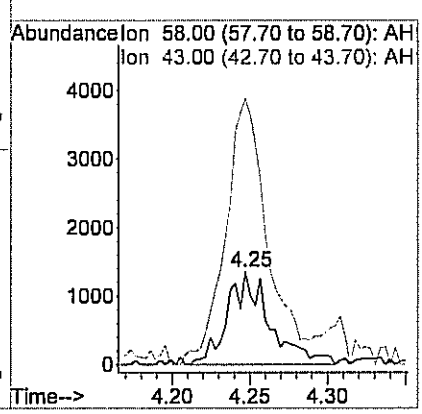
Centek Laboratories,LLC

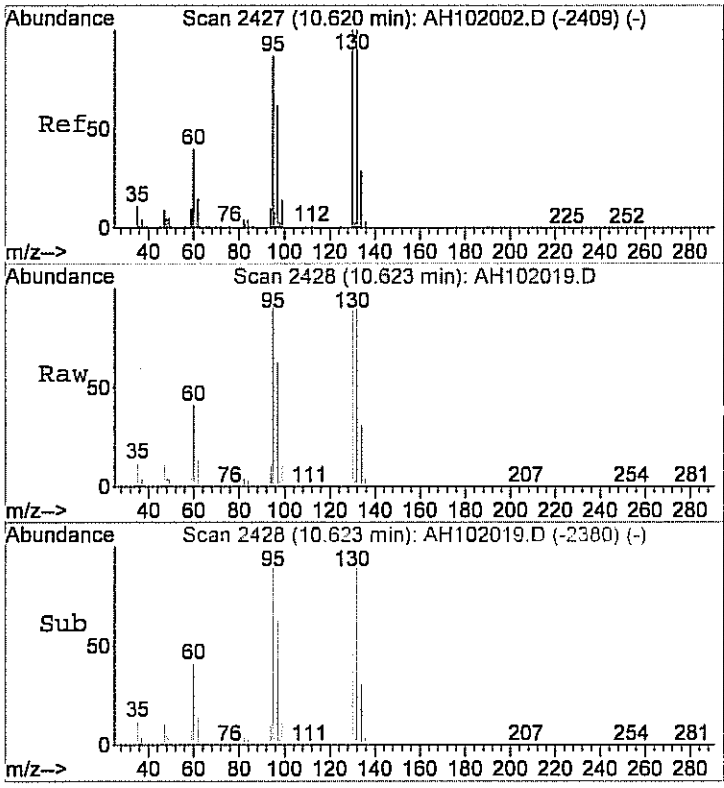


#12
Acetone
Concen: 0.84 ppb
RT: 4.25 min Scan# 441
Delta R.T. 0.02 min
Lab File: AH102019.D
Acq: 21 Oct 2010 12:04 am

Tgt Ion: 58 Resp: 2541

Ion	Ratio	Lower	Upper
58	100		
43	314.4	285.5	345.5

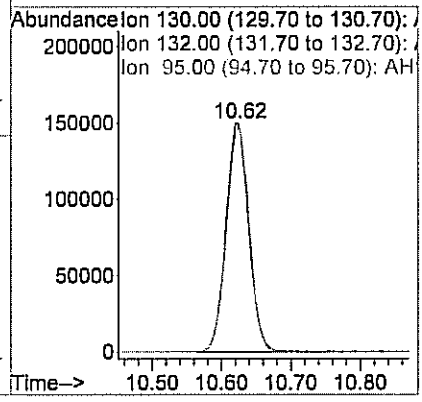




#38
Trichloroethene
Concen: 13.01 ppb
RT: 10.62 min Scan# 2428
Delta R.T. 0.00 min
Lab File: AH102019.D
Acq: 21 Oct 2010 12:04 am

Tgt Ion:130 Resp: 344514

Ion	Ratio	Lower	Upper
130	100		
132	97.7	76.6	116.6
95	97.0	73.4	113.4



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102021.D Vial: 11
Acq On : 21 Oct 2010 10:55 am Operator: RJP
Sample : C1010037-003A 180X Inst : MSD #1
Misc : C1010037-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 21 11:16:29 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

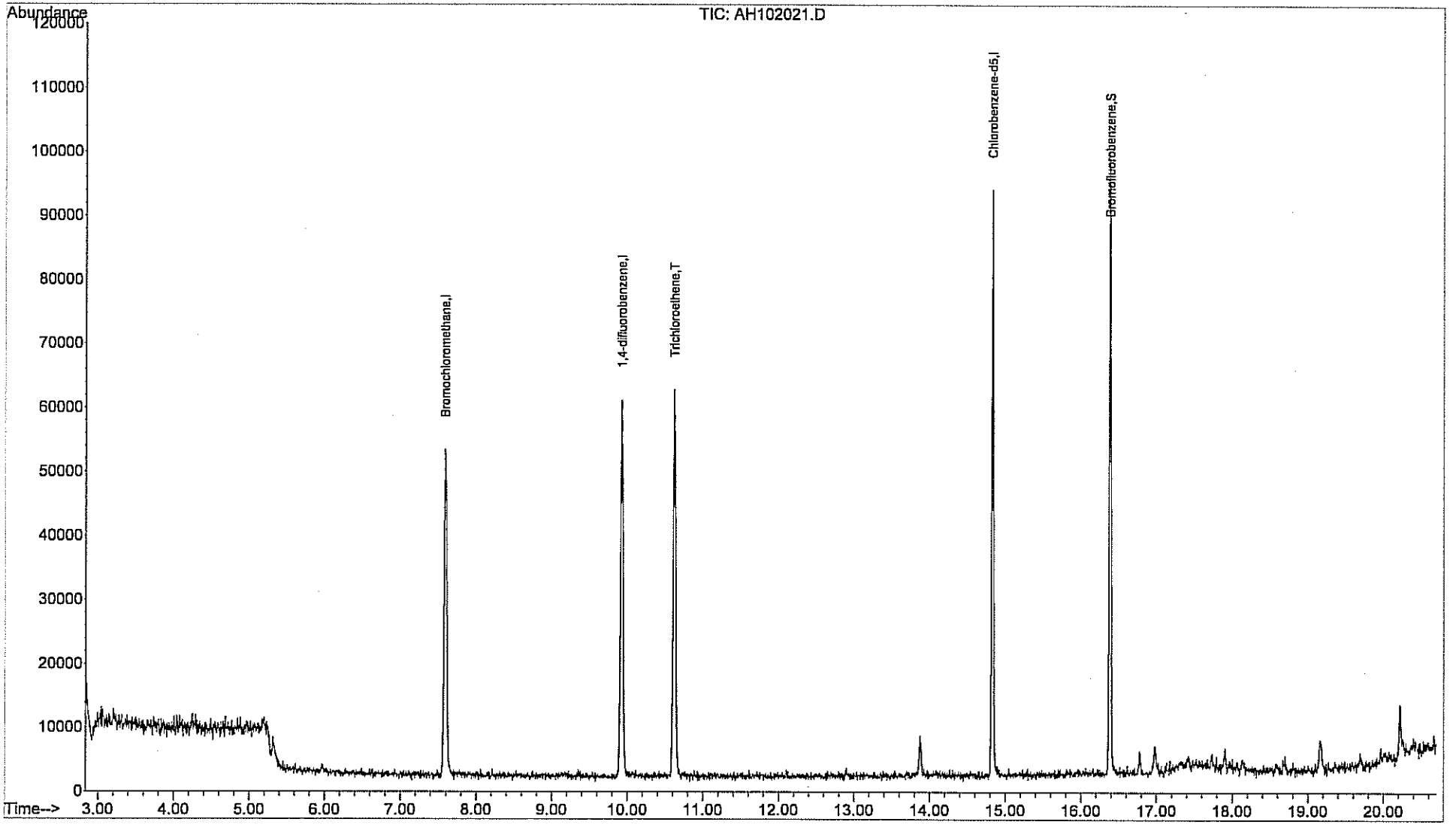
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	18843	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.92	114	62859	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	49853	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	26686	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.63	130	25668	0.96	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102021.D AO14_1UG.M Tue Nov 09 15:03:15 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

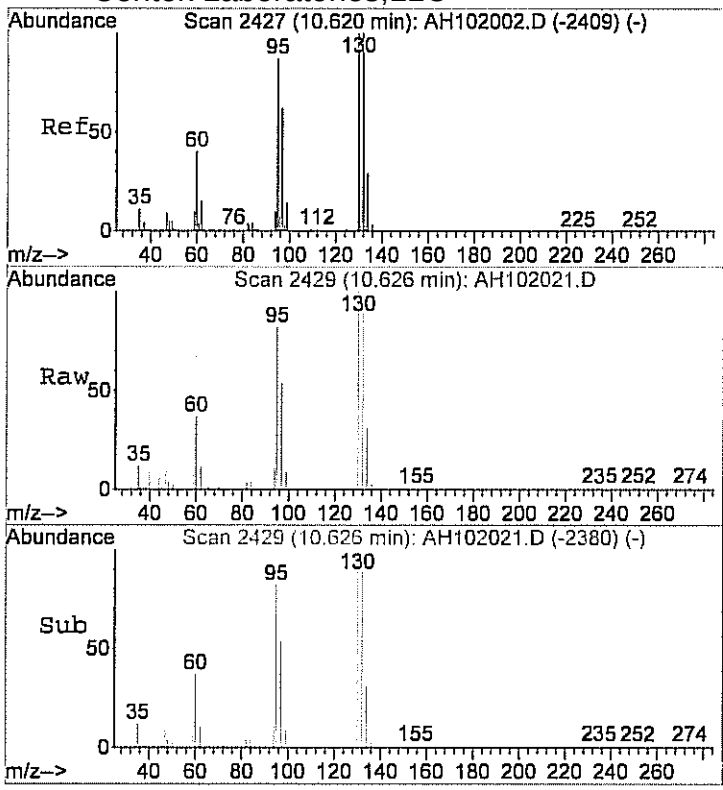
Data File : C:\HPCHEM\1\DATA\AH102021.D Vial: 11
Acq On : 21 Oct 2010 10:55 am Operator: RJP
Sample : C1010037-003A 180X Inst : MSD #1
Misc : C1010037-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:08 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



AH102021.D AO14_1UG.M Tue Nov 09 15:03:16 2010 MSD1 Page 2

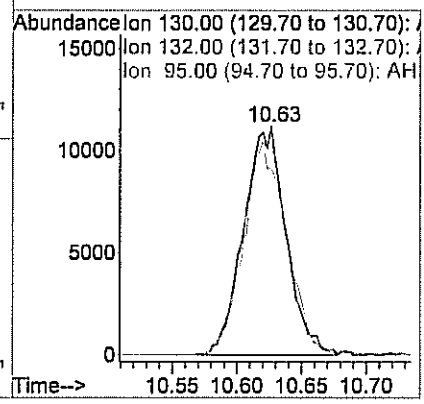
Centek Laboratories,LLC



#38
Trichloroethene
Concen: 0.96 ppb
RT: 10.63 min Scan# 2429
Delta R.T. 0.01 min
Lab File: AH102021.D
Acq: 21 Oct 2010 10:55 am

Tgt Ion:130 Resp: 25668

Ion	Ratio	Lower	Upper
130	100		
132	97.1	76.6	116.6
95	94.3	73.4	113.4



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2,4-Trimethylbenzene	0.20	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Acetone	12	3.0		ppbV	10	10/20/2010 10:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Benzene	0.17	0.15		ppbV	1	10/20/2010 8:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	10/20/2010 8:23:00 PM
Carbon tetrachloride	0.10	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 8:23:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 11	0.29	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 113	0.11	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Freon 12	0.57	0.15		ppbV	1	10/20/2010 8:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Isopropyl alcohol	2.0	0.15		ppbV	1	10/20/2010 8:23:00 PM
m&p-Xylene	0.16	0.30	J	ppbV	1	10/20/2010 8:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl Ethyl Ketone	0.33	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 8:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Methylene chloride	0.38	0.15		ppbV	1	10/20/2010 8:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Toluene	0.37	0.15		ppbV	1	10/20/2010 8:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Trichloroethene	0.12	0.15	J	ppbV	1	10/20/2010 8:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 8:23:00 PM
Surr: Bromofluorobenzene	101	70-130		%REC	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 8:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
1,2,4-Trimethylbenzene	1.0	0.75		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 8:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 8:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 8:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 8:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 8:23:00 PM
Acetone	28	7.2		ug/m3	10	10/20/2010 10:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 8:23:00 PM
Benzene	0.55	0.49		ug/m3	1	10/20/2010 8:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 8:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 8:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 8:23:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	10/20/2010 8:23:00 PM
Carbon tetrachloride	0.64	0.96	J	ug/m3	1	10/20/2010 8:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 8:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 8:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 8:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 8:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 8:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 8:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 8:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 8:23:00 PM
Freon 11	1.7	0.86		ug/m3	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	785IA04
Lab Order:	C1010037	**Tag Number:**	367,436
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 113	0.86	1.2	J	ug/m3	1	10/20/2010 8:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 8:23:00 PM
Freon 12	2.9	0.75		ug/m3	1	10/20/2010 8:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 8:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 8:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 8:23:00 PM
Isopropyl alcohol	5.0	0.37		ug/m3	1	10/20/2010 8:23:00 PM
m&p-Xylene	0.71	1.3	J	ug/m3	1	10/20/2010 8:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
Methyl Ethyl Ketone	0.99	0.90		ug/m3	1	10/20/2010 8:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 8:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 8:23:00 PM
Methylene chloride	1.3	0.53		ug/m3	1	10/20/2010 8:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 8:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 8:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 8:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 8:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 8:23:00 PM
Toluene	1.4	0.57		ug/m3	1	10/20/2010 8:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 8:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 8:23:00 PM
Trichloroethene	0.66	0.82	J	ug/m3	1	10/20/2010 8:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 8:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 8:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 8:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102012.D Vial: 2
Acq On : 20 Oct 2010 8:23 pm Operator: RJP
Sample : C1010037-004A Inst : MSD #1
Misc : C1010037-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 20:43:58 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

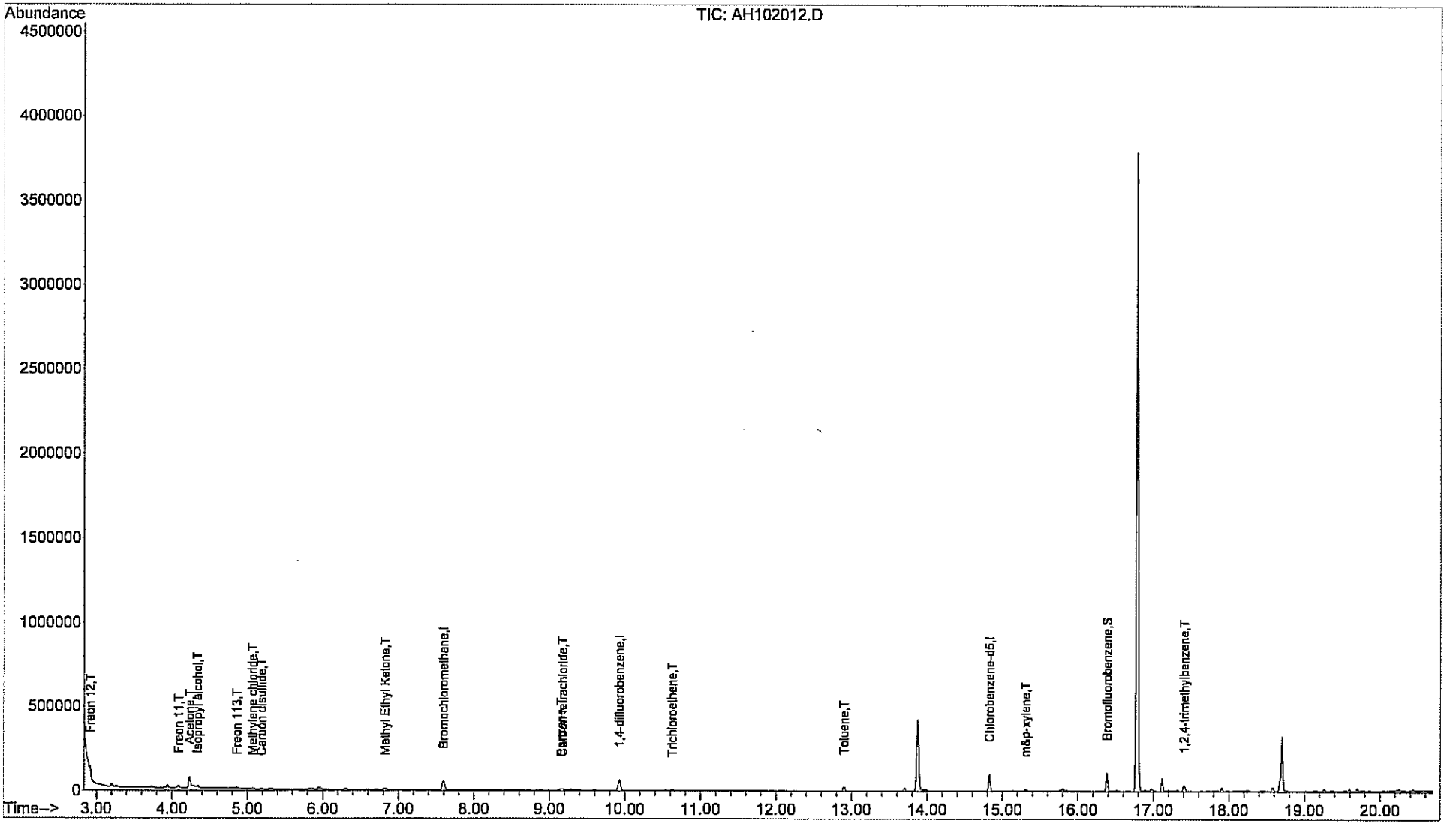
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.60	128	18755	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.93	114	63640	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	54313	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	30189	1.01	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%				
Target Compounds							Qvalue
3) Freon 12	2.92	85	33166	0.57	ppb		99
11) Freon 11	4.09	101	11027	0.29	ppb		96
12) Acetone	4.23	58	25854	8.27	ppb		90
13) Isopropyl alcohol	4.34	45	15813	2.00	ppb	#	38
15) Freon 113	4.85	101	2639	0.11	ppb		94
16) Methylene chloride	5.08	84	3521	0.38	ppb	#	82
18) Carbon disulfide	5.19	76	7387	0.25	ppb		98
23) Methyl Ethyl Ketone	6.82	43	7449	0.33	ppb		100
33) Carbon tetrachloride	9.18	117	4783	0.10	ppb		99
34) Benzene	9.14	78	6934	0.17	ppb		98
38) Trichloroethene	10.62	130	3315	0.12	ppb		96
45) Toluene	12.90	92	10315	0.37	ppb		97
53) m&p-xylene	15.31	91	7069	0.16	ppb		98
61) 1,2,4-trimethylbenzene	17.42	105	6952	0.20	ppb		95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

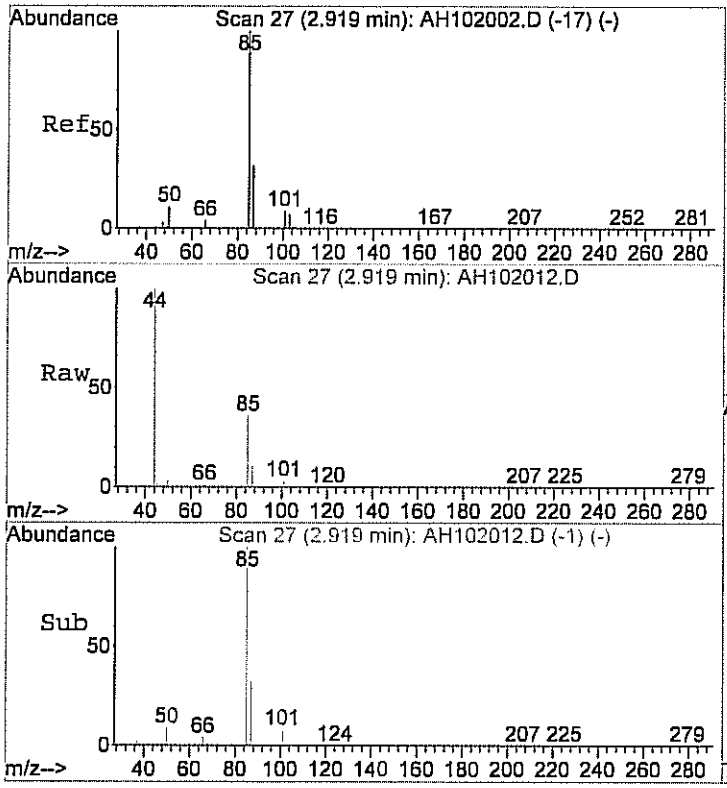
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102012.D Vial: 2
Acq On : 20 Oct 2010 8:23 pm Operator: RJP
Sample : C1010037-004A Inst : MSD #1
Misc : C1010037-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:58 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



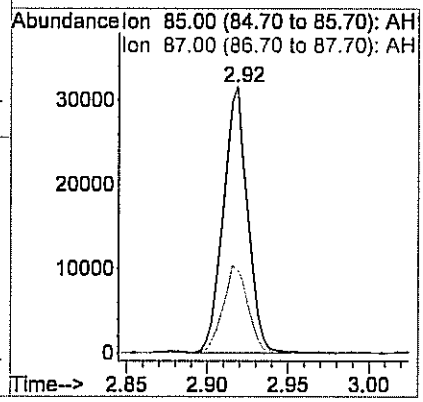
Centek Laboratories,LLC

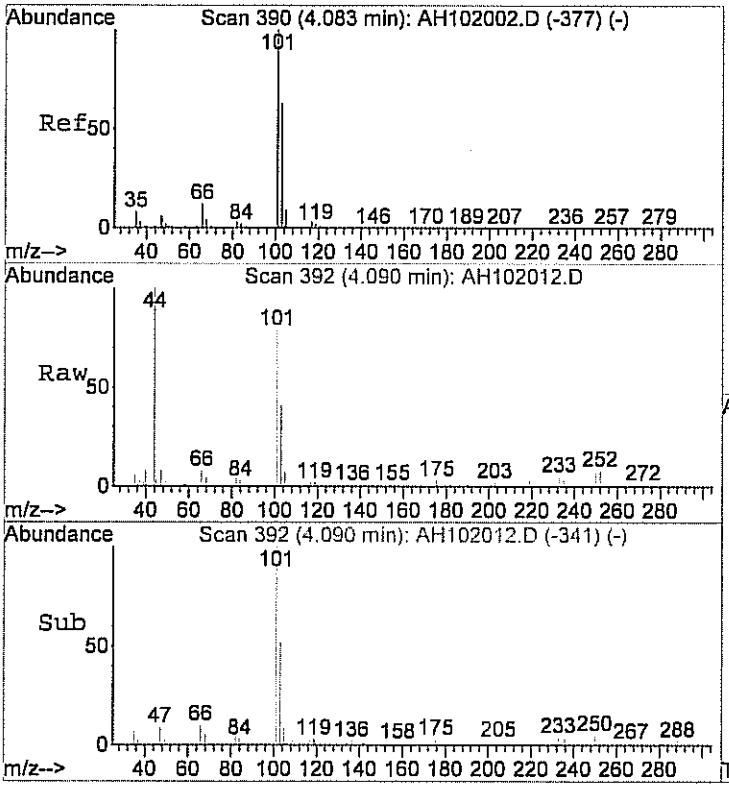


#3
Freon 12
Concen: 0.57 ppb
RT: 2.92 min Scan# 27
Delta R.T. 0.00 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 85 Resp: 33166

Ion	Ratio	Lower	Upper
85	100		
87	33.5	13.2	53.2

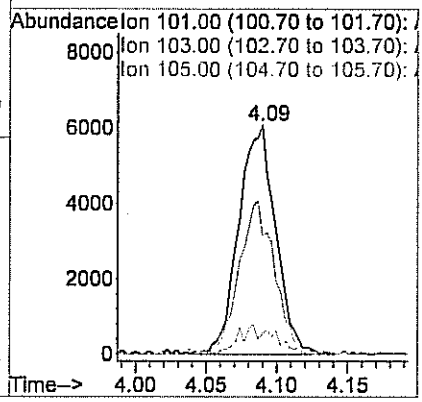


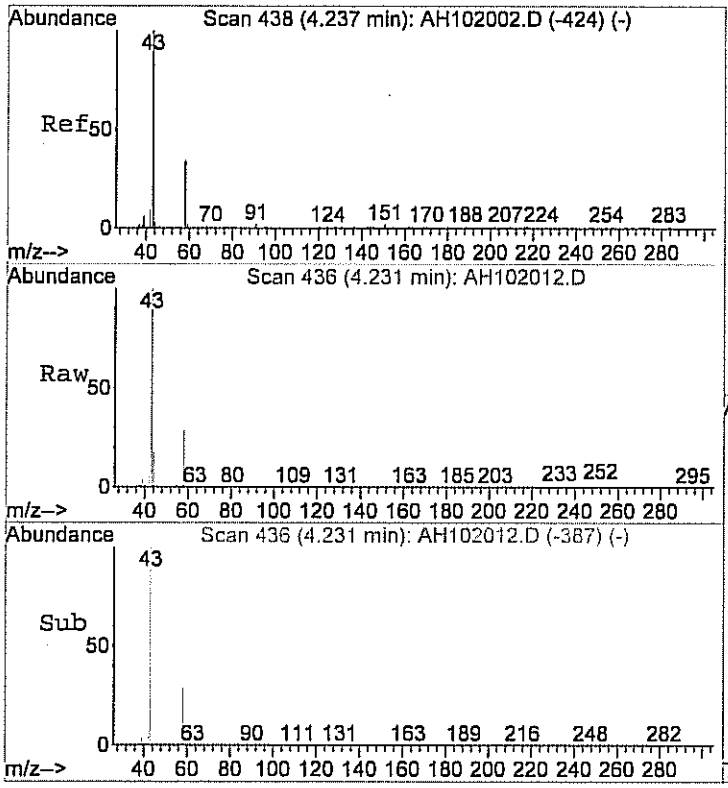


#11
Freon 11
Concen: 0.29 ppb
RT: 4.09 min Scan# 392
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion:101 Resp: 11027

Ion	Ratio	Lower	Upper
101	100		
103	64.5	47.5	87.5
105	12.4	0.0	31.3

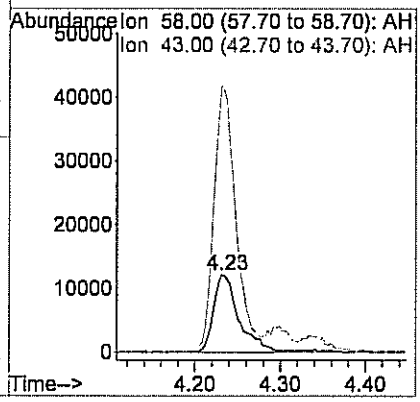


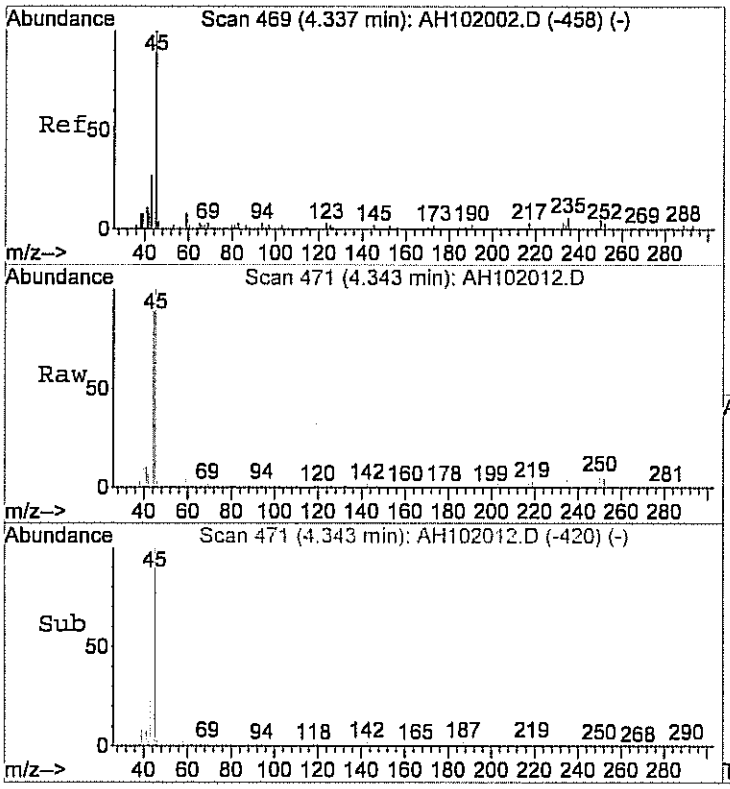


#12
Acetone
Concen: 8.27 ppb
RT: 4.23 min Scan# 436
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 58 Resp: 25854

Ion	Ratio	Lower	Upper
58	100		
43	336.7	285.5	345.5

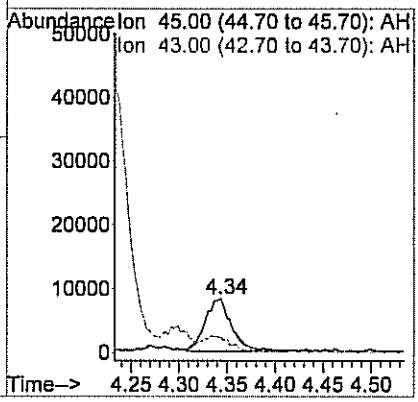


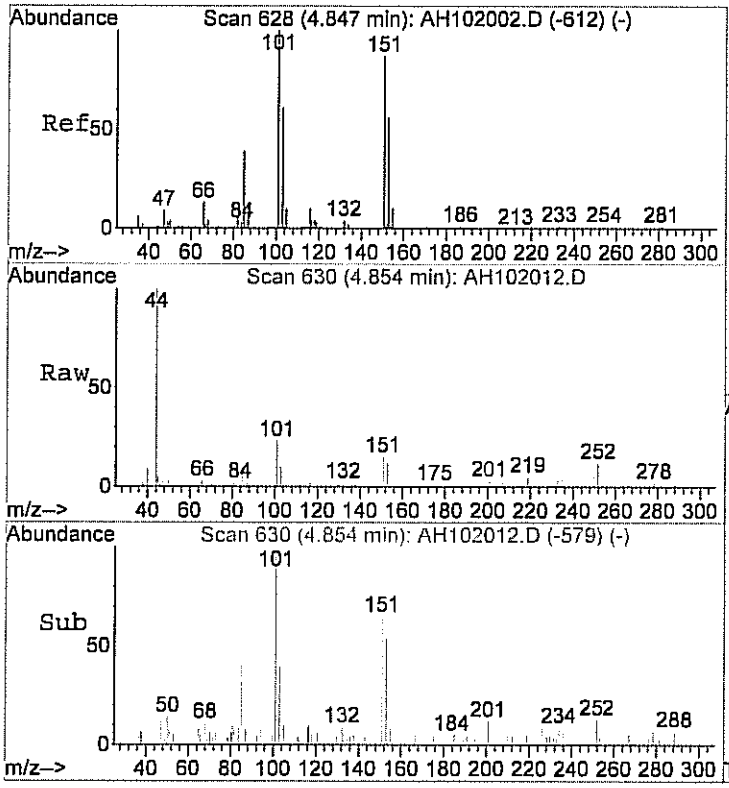


#13
Isopropyl alcohol
Concen: 2.00 ppb
RT: 4.34 min Scan# 471
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 45 Resp: 15813

Ion	Ratio	Lower	Upper
45	100		
43	0.0	17.2	57.2#

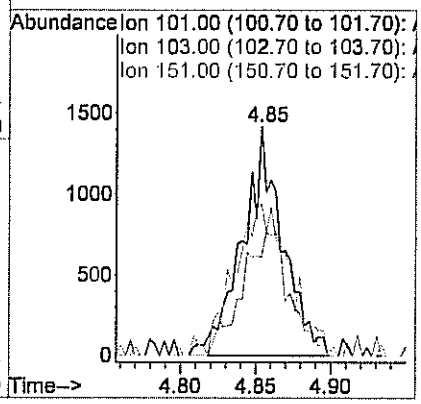


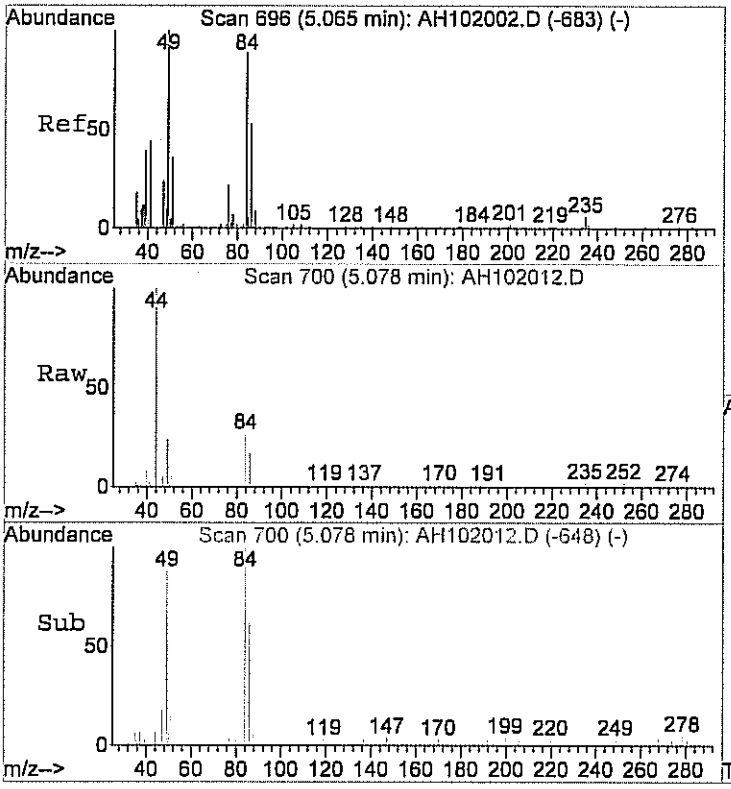


#15
Freon 113
Concen: 0.11 ppb
RT: 4.85 min Scan# 630
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion:101 Resp: 2639

Ion	Ratio	Lower	Upper
101	100		
103	58.3	45.6	85.6
151	87.3	70.4	110.4

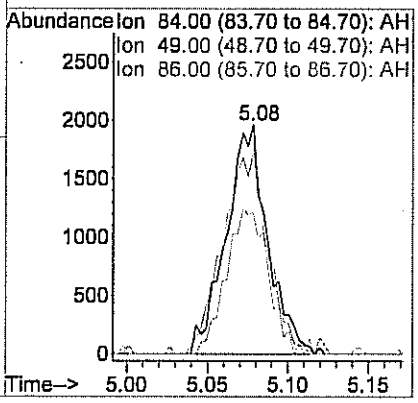


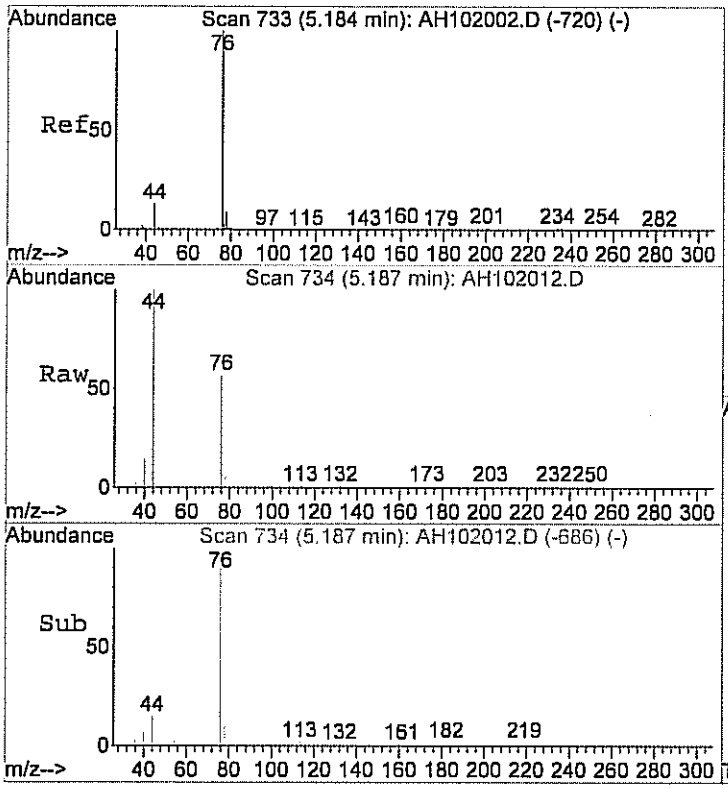


#16
Methylene chloride
Concen: 0.38 ppb
RT: 5.08 min Scan# 700
Delta R.T. 0.02 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 84 Resp: 3521

Ion	Ratio	Lower	Upper
84	100		
49	94.3	104.8	144.8#
86	64.5	46.6	86.6

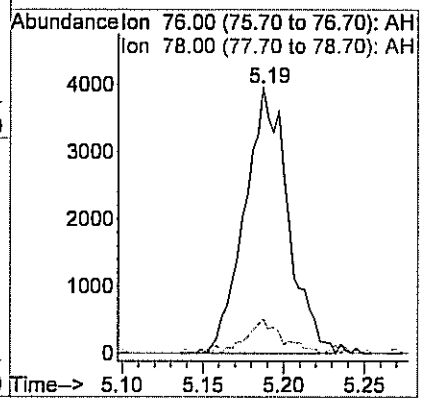


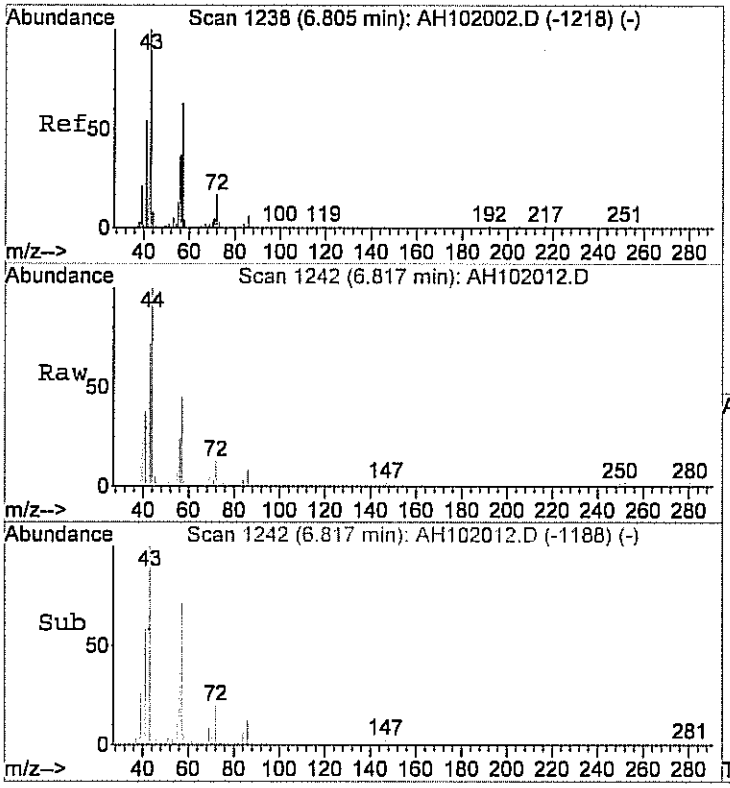


#18
Carbon disulfide
Concen: 0.25 ppb
RT: 5.19 min Scan# 734
Delta R.T. 0.00 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 76 Resp: 7387

Ion	Ratio	Lower	Upper
76	100		
78	10.2	0.0	31.0

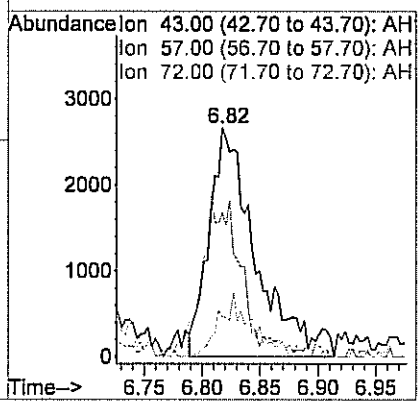


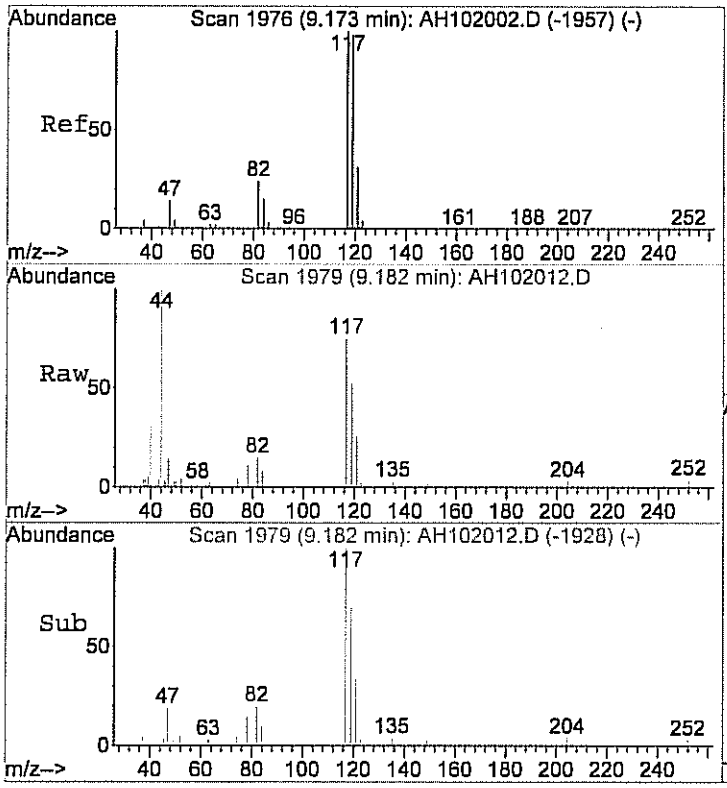


#23
Methyl Ethyl Ketone
Concen: 0.33 ppb
RT: 6.82 min Scan# 1242
Delta R.T. 0.02 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 43 Resp: 7449

Ion	Ratio	Lower	Upper
43	100		
57	58.5	38.3	78.3
72	19.8	0.1	40.1

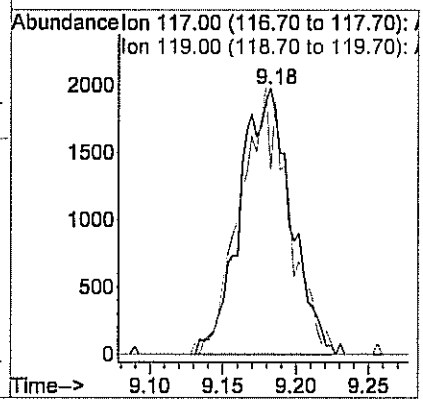


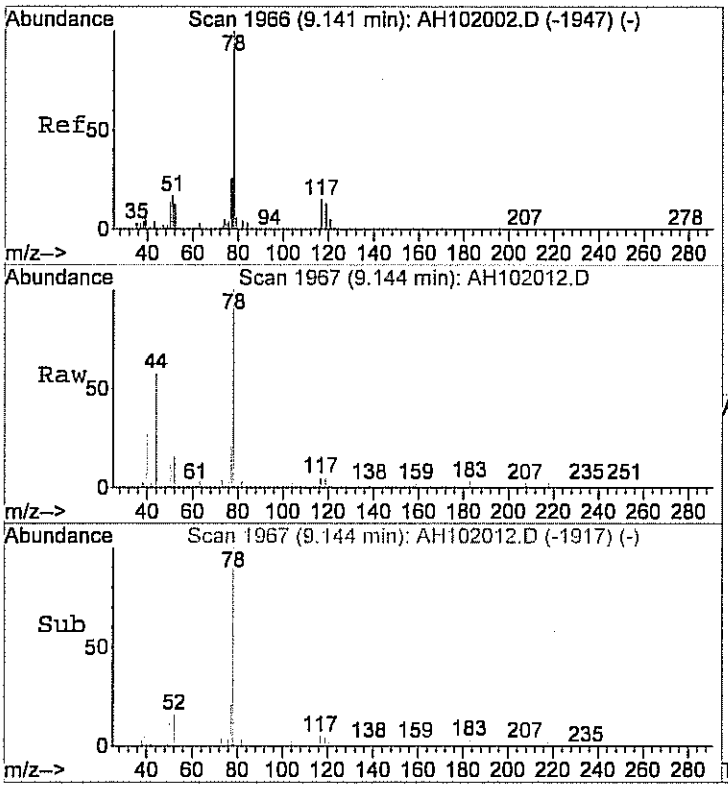


#33
Carbon tetrachloride
Concen: 0.10 ppb
RT: 9.18 min Scan# 1979
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion:117 Resp: 4783

Ion	Ratio	Lower	Upper
117	100		
119	96.1	77.3	117.3

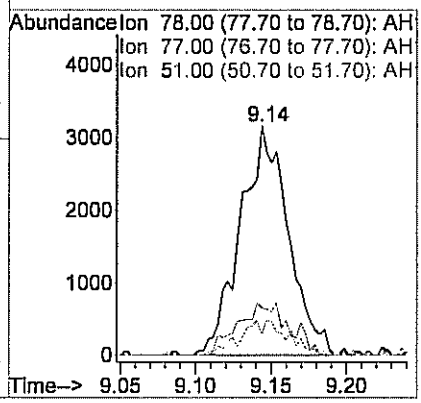


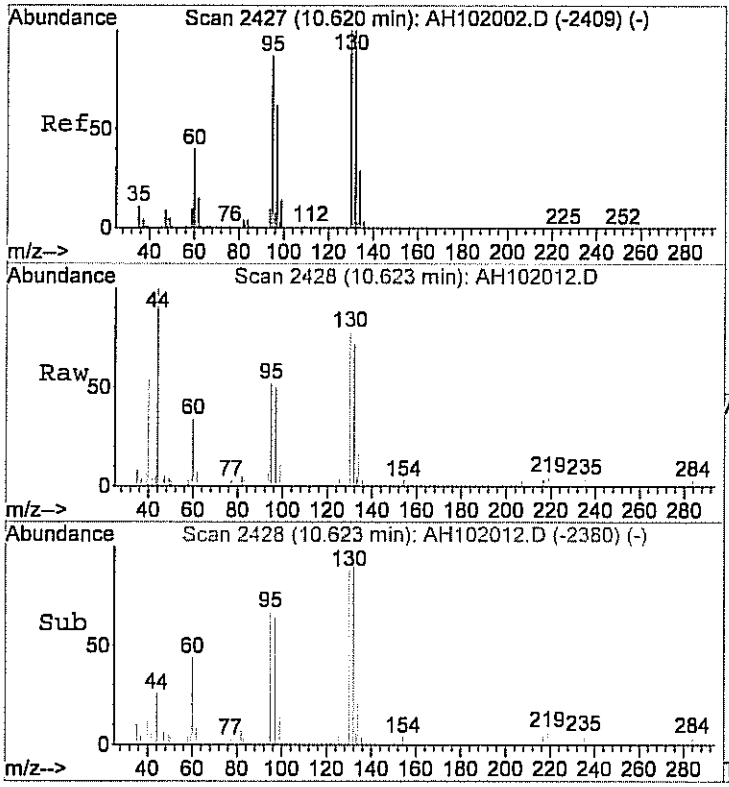


#34
Benzene
Concen: 0.17 ppb
RT: 9.14 min Scan# 1967
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 78 Resp: 6934

Ion	Ratio	Lower	Upper
78	100		
77	24.5	2.8	42.8
51	14.9	0.0	34.6

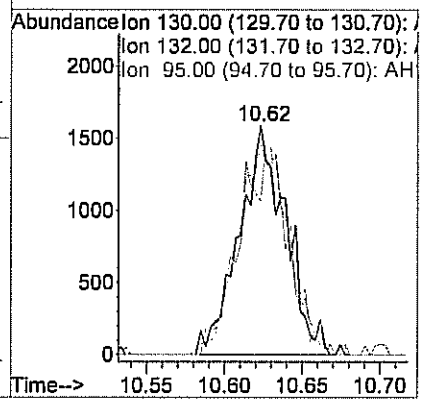


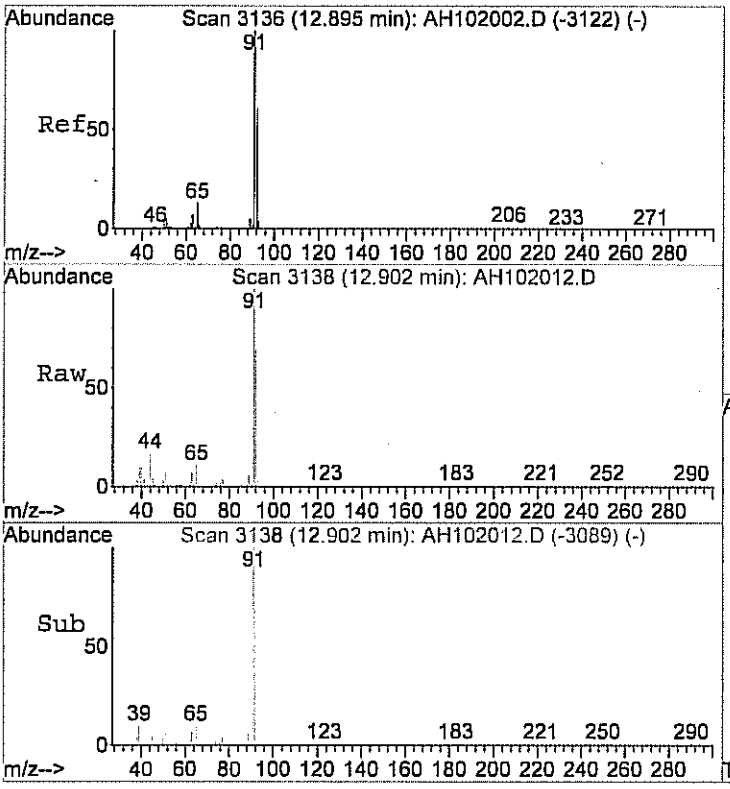


#38
Trichloroethene
Concen: 0.12 ppb
RT: 10.62 min Scan# 2428
Delta R.T. 0.00 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion:130 Resp: 3315

Ion	Ratio	Lower	Upper
130	100		
132	100.8	76.6	116.6
95	96.8	73.4	113.4

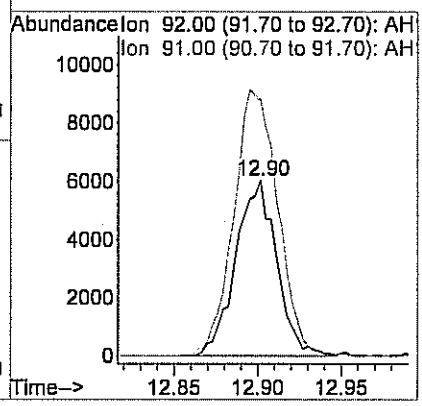


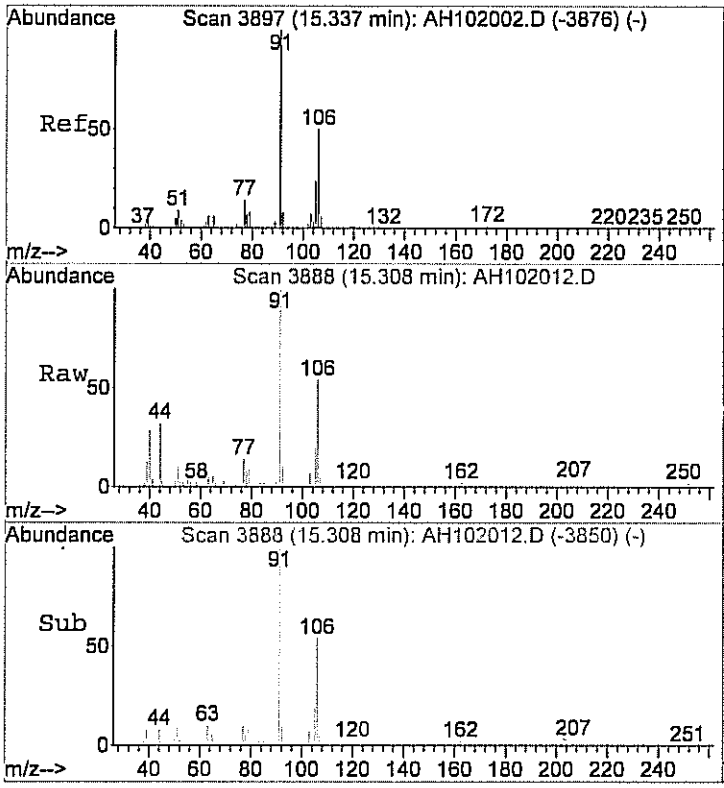


#45
Toluene
Concen: 0.37 ppb
RT: 12.90 min Scan# 3138
Delta R.T. 0.01 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 92 Resp: 10315

Ion	Ratio	Lower	Upper
92	100		
91	163.2	147.6	187.6

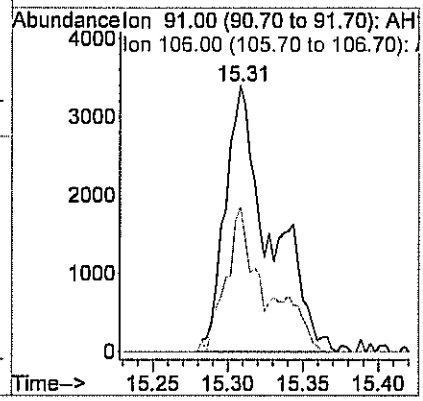


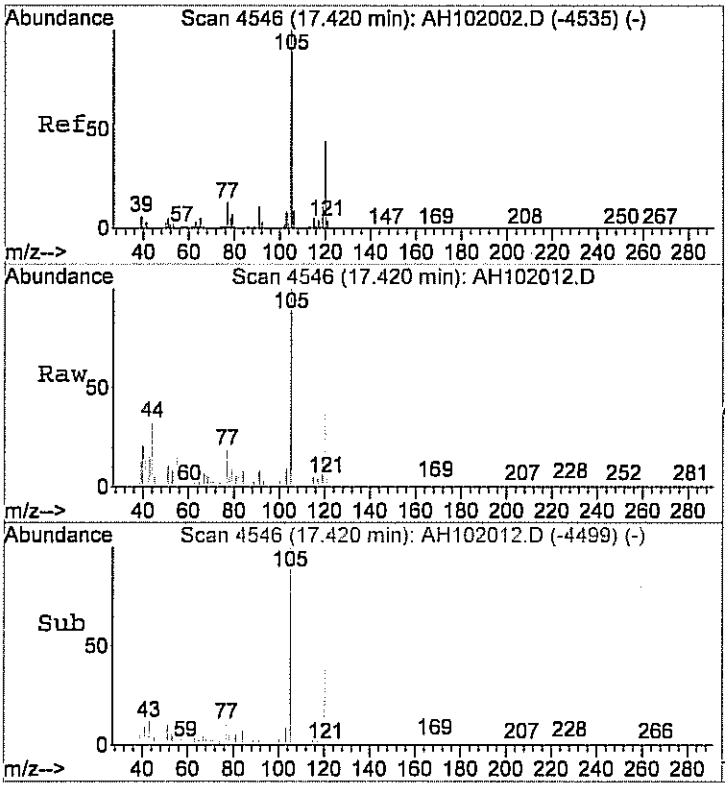


#53
m&p-xylene
Concen: 0.16 ppb
RT: 15.31 min Scan# 3888
Delta R.T. -0.03 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion: 91 Resp: 7069

Ion	Ratio	Lower	Upper
91	100		
106	48.2	29.4	69.4

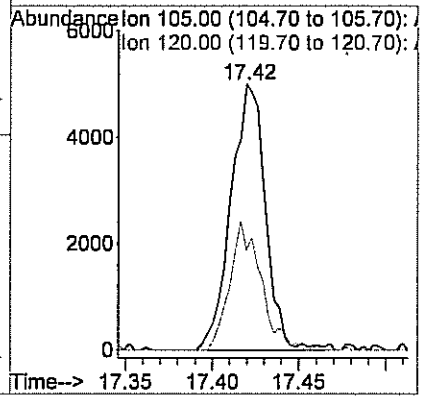




#61
1,2,4-trimethylbenzene
Concen: 0.20 ppb
RT: 17.42 min Scan# 4546
Delta R.T. -0.00 min
Lab File: AH102012.D
Acq: 20 Oct 2010 8:23 pm

Tgt Ion:105 Resp: 6952

Ion	Ratio	Lower	Upper
105	100		
120	43.5	26.8	66.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102016.D Vial: 6
Acq On : 20 Oct 2010 10:29 pm Operator: RJP
Sample : C1010037-004A 10X Inst : MSD #1
Misc : C1010037-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 22:50:41 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

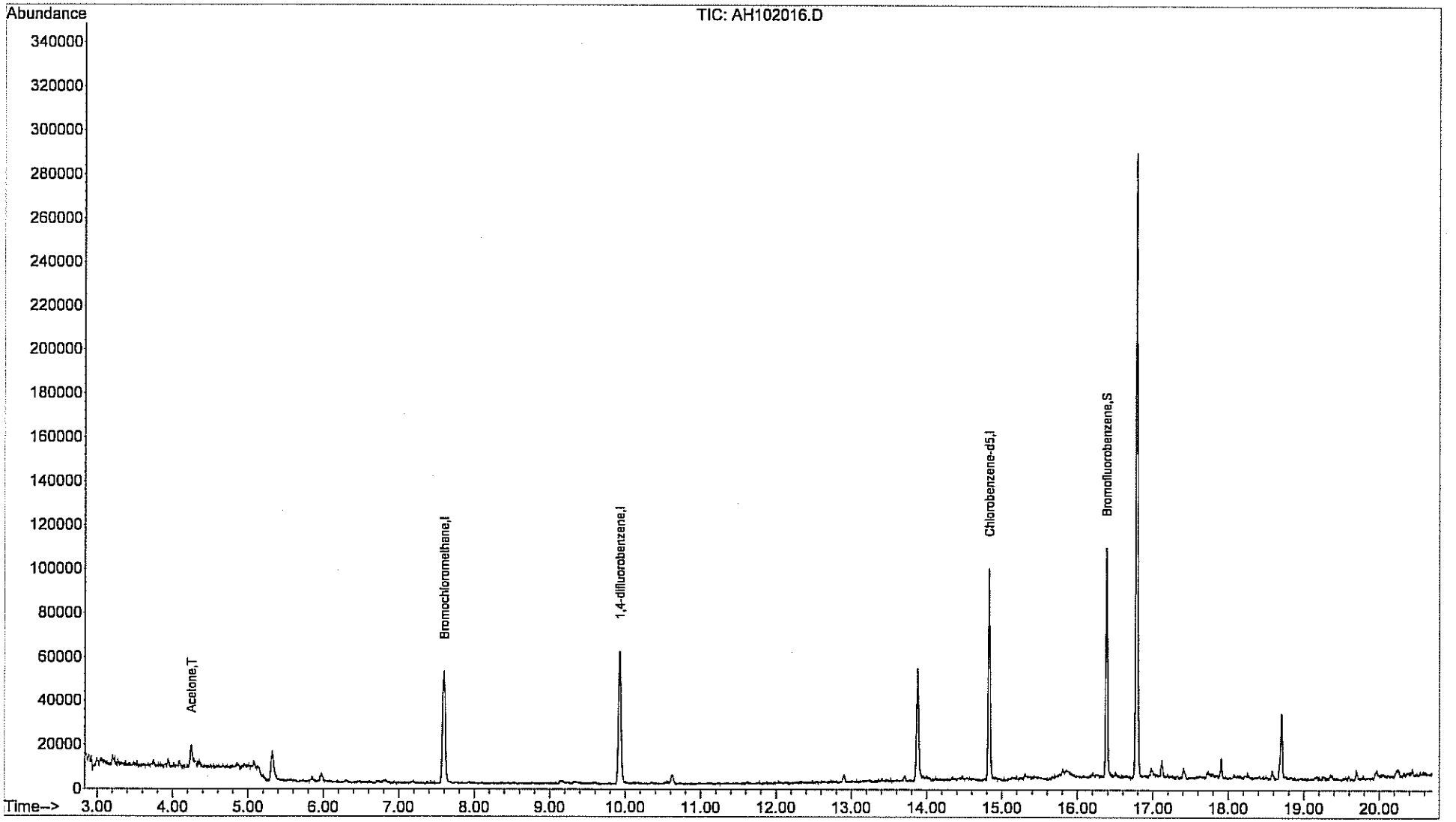
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	20038	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.93	114	64829	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	53972	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	30503	1.03	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%			
Target Compounds						Qvalue
12) Acetone	4.24	58	3902	1.17	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102016.D AO14_1UG.M Tue Nov 09 15:03:08 2010 MSD1 Page 1

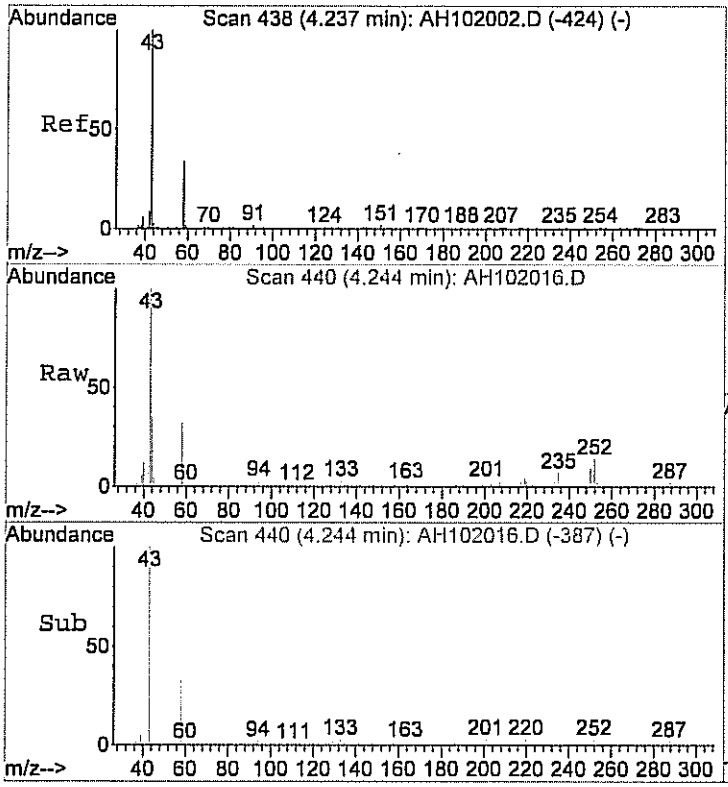
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102016.D Vial: 6
Acq On : 20 Oct 2010 10:29 pm Operator: RJP
Sample : C1010037-004A 10X Inst : MSD #1
Misc : C1010037-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:07 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



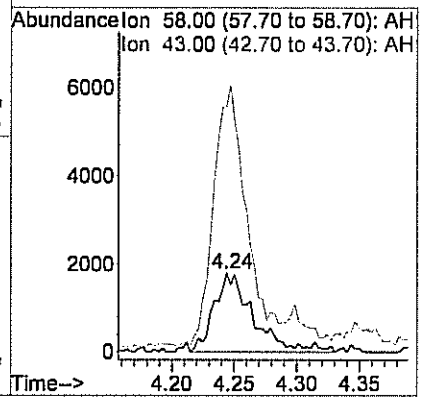
Centek Laboratories,LLC



#12
Acetone
Concen: 1.17 ppb
RT: 4.24 min Scan# 440
Delta R.T. 0.02 min
Lab File: AH102016.D
Acq: 20 Oct 2010 10:29 pm

Tgt Ion: 58 Resp: 3902

Ion	Ratio	Lower	Upper
58	100		
43	319.5	285.5	345.5



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-3			"Hg		10/20/2010
Lab Vacuum Out	-30			"Hg		10/20/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Acetone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Benzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromoform	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloroform	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	10/20/2010 7:51:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 11	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 113	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 114	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Freon 12	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Heptane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Hexane	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	10/20/2010 7:51:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Propylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Styrene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Toluene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	10/20/2010 7:51:00 PM
Surr: Bromofluorobenzene	100	70-130		%REC	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT: FPM Group
Lab Order: C1010037
Project: B785 SSVM Sampling
Lab ID: C1010037-005A

Client Sample ID: Trip Blank
Tag Number: 463
Collection Date: 10/18/2010
Matrix: AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 7:51:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	10/20/2010 7:51:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	10/20/2010 7:51:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	10/20/2010 7:51:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	10/20/2010 7:51:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
Acetone	< 0.72	0.72		ug/m3	1	10/20/2010 7:51:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	10/20/2010 7:51:00 PM
Benzene	< 0.49	0.49		ug/m3	1	10/20/2010 7:51:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	10/20/2010 7:51:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	10/20/2010 7:51:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	10/20/2010 7:51:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	10/20/2010 7:51:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	10/20/2010 7:51:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	10/20/2010 7:51:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	10/20/2010 7:51:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	10/20/2010 7:51:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	10/20/2010 7:51:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 7:51:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	10/20/2010 7:51:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	10/20/2010 7:51:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	10/20/2010 7:51:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	10/20/2010 7:51:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *09-Nov-10*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1010037	**Tag Number:**	463
Project:	B785 SSVM Sampling	**Collection Date:**	10/18/2010
Lab ID:	C1010037-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	10/20/2010 7:51:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	10/20/2010 7:51:00 PM
Heptane	< 0.62	0.62		ug/m3	1	10/20/2010 7:51:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	10/20/2010 7:51:00 PM
Hexane	< 0.54	0.54		ug/m3	1	10/20/2010 7:51:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	10/20/2010 7:51:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	10/20/2010 7:51:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	10/20/2010 7:51:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	10/20/2010 7:51:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	10/20/2010 7:51:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	10/20/2010 7:51:00 PM
Propylene	< 0.26	0.26		ug/m3	1	10/20/2010 7:51:00 PM
Styrene	< 0.65	0.65		ug/m3	1	10/20/2010 7:51:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	10/20/2010 7:51:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	10/20/2010 7:51:00 PM
Toluene	< 0.57	0.57		ug/m3	1	10/20/2010 7:51:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	10/20/2010 7:51:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	10/20/2010 7:51:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	10/20/2010 7:51:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	10/20/2010 7:51:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102011.D Vial: 1
Acq On : 20 Oct 2010 7:51 pm Operator: RJP
Sample : C1010037-005A Inst : MSD #1
Misc : C1010037-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 20:11:50 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	18818	1.00	ppb	0.01
30) 1,4-difluorobenzene	9.93	114	64100	1.00	ppb	0.01
44) Chlorobenzene-d5	14.83	117	52615	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.39	95	28941	1.00	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%			
Target Compounds						Qvalue

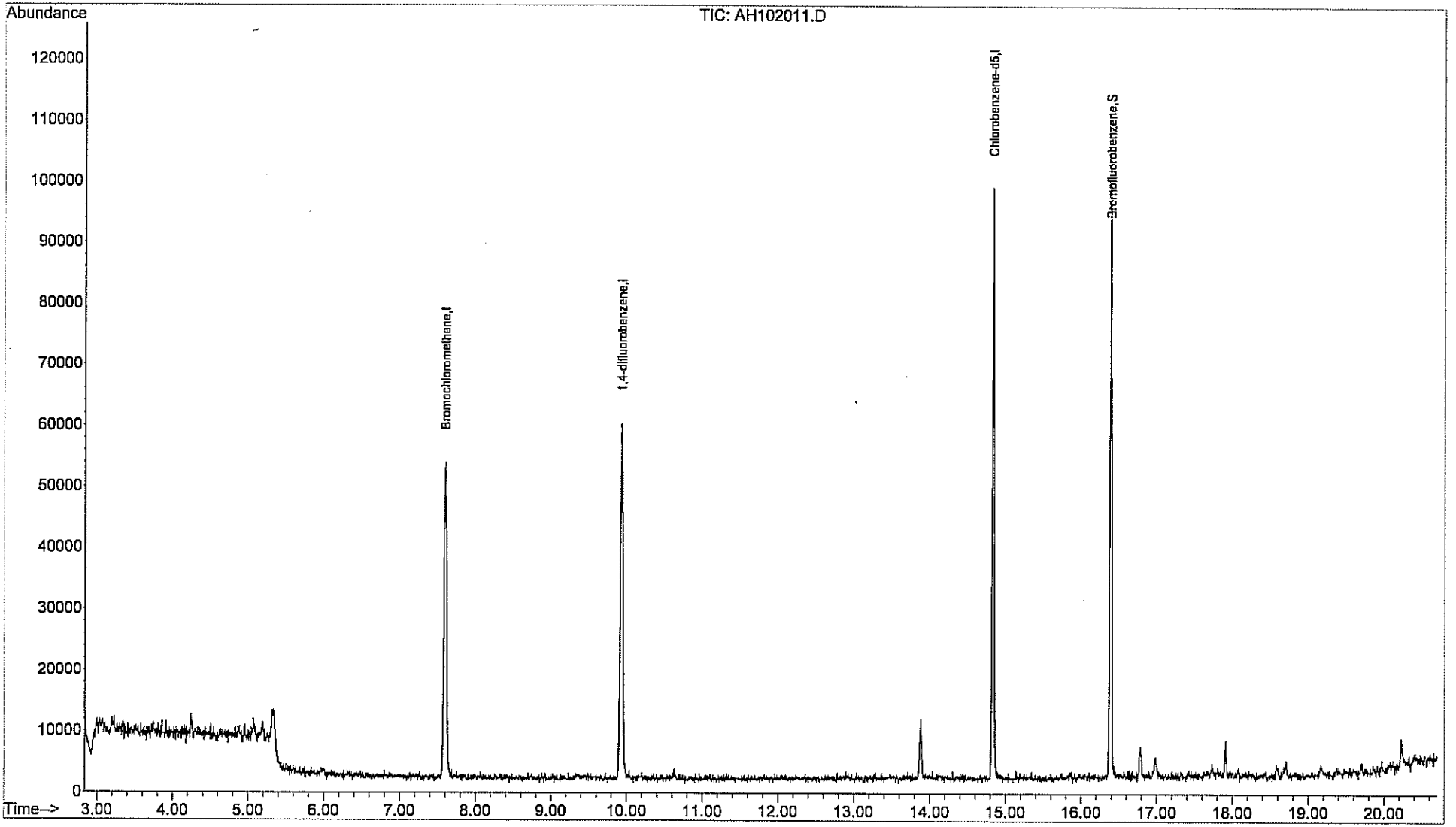
(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102011.D AO14_1UG.M Tue Nov 09 15:02:39 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102011.D
Acq On : 20 Oct 2010 7:51 pm
Sample : C1010037-005A
Misc : C1010037-005A
MS Integration Params: RTEINT.P
Quant Time: Oct 27 11:56 2010

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



Centek Laboratories,LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration

Calibration Files
0.4 =AH101412.D 0.15 =AH101411.D 0.30 =AH101410.D
0.50 =AH101409.D 0.75 =AH101408.D 1.0 =AH101407.D

		Compound	0.4	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene		0.471	0.398	0.466	0.375	0.363	0.390	13.42
3)	T	Freon 12		3.962	2.944	3.413	2.756	2.859	3.094	12.92
4)	T	Chloromethane		0.806	0.569	0.682	0.541	0.556	0.604	15.39
5)	T	Freon 114		2.407	1.766	2.043	1.667	1.672	1.832	14.36
6)	T	Vinyl Chloride	0.851	0.725	0.509	0.625	0.457	0.492	0.571	23.69
7)	T	1,3-butadiene		0.480	0.494	0.366	0.317	0.300	0.359	22.66
8)	T	Bromomethane		0.830	0.632	0.739	0.629	0.611	0.648	13.87
9)	T	Chloroethane		0.285	0.217	0.240	0.190	0.195	0.214	15.64
10)	T	Vinyl Bromide		0.836	0.674	0.771	0.632	0.639	0.685	11.16
11)	T	Freon 11		2.496	2.003	2.306	1.865	1.892	2.035	11.58
12)	T	Acetone			0.169	0.197	0.163	0.150	0.167	8.98
13)	T	Isopropyl alcoh		0.580	0.386	0.496	0.425	0.366	0.421	18.97
14)	T	1,1-dichloroeth		0.728	0.615	0.669	0.560	0.581	0.610	9.88
15)	T	Freon 113		1.738	1.330	1.516	1.218	1.250	1.340	14.32
16)	T	Methylene chlor		0.648	0.496	0.564	0.457	0.438	0.499	14.38
17)	T	Allyl chloride		0.664	0.488	0.522	0.434	0.434	0.481	17.01
18)	T	Carbon disulfid		2.219	1.567	1.707	1.392	1.381	1.564	18.42
19)	T	trans-1,2-dichl		0.949	1.040	1.221	0.993	1.037	0.976	13.41
20)	T	methyl tert-but		1.886	1.442	1.981	1.620	1.635	1.599	17.41
21)	T	1,1-dichloroeth		1.612	1.277	1.680	1.329	1.362	1.404	11.41
22)	T	Vinyl acetate		1.290	0.837	1.139	0.846	0.887	0.960	17.50
23)	T	Methyl Ethyl Ke		1.329	1.190	1.363	1.174	1.139	1.192	9.94
24)	T	cis-1,2-dichlor		1.335	0.974	1.197	0.969	1.006	1.071	12.00
25)	T	Hexane		0.838	0.616	0.716	0.553	0.599	0.627	16.07
26)	T	Ethyl acetate		0.944	0.666	1.001	0.785	0.800	0.850	12.25
27)	T	Chloroform		2.677	2.203	2.580	2.044	2.110	2.254	10.57
28)	T	Tetrahydrofuran		0.427	0.345	0.487	0.377	0.376	0.418	11.42
29)	T	1,2-dichloroeth		1.475	1.260	1.521	1.168	1.276	1.311	9.22
30)	I	1,4-difluorobenzene	----------ISTD----------							
31)	T	1,1,1-trichloro		0.726	0.581	0.697	0.575	0.581	0.625	9.09
32)	T	Cyclohexane		0.270	0.225	0.258	0.218	0.221	0.235	8.15
33)	T	Carbon tetrachl	1.030	0.827	0.654	0.761	0.638	0.644	0.730	17.60
34)	T	Benzene		0.770	0.621	0.719	0.602	0.614	0.650	9.49
35)	T	1,4-dioxane			0.074	0.095	0.083	0.063	0.077	13.40
36)	T	2,2,4-trimethyl		0.774	0.655	0.777	0.624	0.650	0.686	8.56
37)	T	Heptane		0.290	0.215	0.260	0.216	0.217	0.232	12.15
38)	T	Trichloroethene	0.609	0.488	0.364	0.456	0.369	0.379	0.428	18.59
39)	T	1,2-dichloropro		0.267	0.210	0.253	0.214	0.214	0.228	9.22
40)	T	Bromodichlorome		0.773	0.621	0.726	0.615	0.619	0.663	8.65
41)	T	cis-1,3-dichlor		0.338	0.261	0.327	0.280	0.283	0.299	8.65
42)	T	trans-1,3-dichl		0.266	0.241	0.288	0.242	0.247	0.258	6.24
43)	T	1,1,2-trichloro		0.357	0.307	0.352	0.290	0.302	0.321	7.20
44)	I	Chlorobenzene-d5	----------ISTD----------							
45)	T	Toluene		0.549	0.462	0.571	0.480	0.475	0.508	7.87
46)	T	Methyl Isobutyl			0.202	0.320	0.232	0.204	0.240	16.51
47)	T	Dibromochlorome		1.066	0.898	1.074	0.888	0.895	0.962	7.87
48)	T	Methyl Butyl Ke			0.138	0.228	0.163	0.140	0.158	20.16
49)	T	1,2-dibromoetha		0.700	0.552	0.675	0.577	0.562	0.610	8.74
50)	T	Tetrachloroethy		0.577	0.492	0.540	0.465	0.461	0.498	8.08
51)	T	Chlorobenzene		0.845	0.721	0.854	0.718	0.730	0.768	7.24

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration

Calibration Files
0.4 =AH101412.D 0.15 =AH101411.D 0.30 =AH101410.D
0.50 =AH101409.D 0.75 =AH101408.D 1.0 =AH101407.D

		Compound	0.4	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
52)	T	Ethylbenzene		1.032	0.858	1.138	0.929	0.960	1.006	8.88
53)	T	m&p-xylene		0.805	0.683	0.878	0.732	0.751	0.791	8.34
54)	T	Styrene		0.540	0.440	0.575	0.490	0.510	0.532	9.57
55)	T	Bromoform		1.037	0.881	1.078	0.931	0.929	0.979	6.79
56)	T	o-xylene		0.830	0.679	0.927	0.781	0.785	0.822	9.30
57)	S	Bromofluorobenz	0.528	0.515	0.517	0.552	0.554	0.564	0.549	4.51
58)	T	1,1,2,2-tetrach		0.598	0.509	0.656	0.534	0.543	0.577	8.21
59)	T	4-ethyltoluene		0.982	0.883	1.197	1.002	1.065	1.085	11.78
60)	T	1,3,5-trimethyl		0.698	0.609	0.831	0.697	0.747	0.749	10.93
61)	T	1,2,4-trimethyl		0.546	0.497	0.710	0.584	0.617	0.632	14.16
62)	T	1,3-dichloroben		0.522	0.463	0.612	0.513	0.534	0.551	10.00
63)	T	benzyl chloride		0.303	0.305	0.432	0.336	0.367	0.370	14.59
64)	T	1,4-dichloroben		0.500	0.472	0.610	0.503	0.530	0.543	10.02
65)	T	1,2-dichloroben		0.457	0.406	0.530	0.446	0.463	0.479	9.62
66)	T	1,2,4-trichloro		0.178	0.178	0.221	0.177	0.197	0.198	10.53
67)	T	Hexachloro-1,3-		0.273	0.287	0.347	0.293	0.317	0.312	8.45

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101404.D Vial: 1
Acq On : 14 Oct 2010 12:22 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:46:38 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	24140	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	85137	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	71951	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41949	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	16655	1.90	ppb		100
3) Freon 12	2.92	85	140927	2.04	ppb		99
4) Chloromethane	3.06	50	26486	1.97	ppb		98
5) Freon 114	3.06	85	82525	2.04	ppb		98
6) Vinyl Chloride	3.19	62	24114	2.03	ppb		99
7) 1,3-butadiene	3.27	39	14580	2.01	ppb		99
8) Bromomethane	3.51	94	27952	1.90	ppb		100
9) Chloroethane	3.63	64	9324	1.98	ppb		100
10) Vinyl Bromide	3.87	106	30660	1.99	ppb		96
11) Freon 11	4.08	101	92297	2.02	ppb		96
12) Acetone	4.23	58	7716	2.12	ppb	#	81
13) Isopropyl alcohol	4.33	45	16517	1.87	ppb		99
14) 1,1-dichloroethene	4.68	96	27524	1.96	ppb		99
15) Freon 113	4.84	101	61161	2.03	ppb		99
16) Methylene chloride	5.06	84	22486	2.13	ppb		99
17) Allyl chloride	5.05	41	20690	1.98	ppb		98
18) Carbon disulfide	5.18	76	68960	2.07	ppb		97
19) trans-1,2-dichloroethene	5.90	61	39319m	1.57	ppb		
20) methyl tert-butyl ether	5.96	73	59833	1.52	ppb		99
21) 1,1-dichloroethane	6.29	63	59006m	1.79	ppb		
22) Vinyl acetate	6.31	43	39173	1.83	ppb		96
23) Methyl Ethyl Ketone	6.79	43	47120	1.70	ppb		93
24) cis-1,2-dichloroethene	7.17	61	50099	2.06	ppb		99
25) Hexane	6.80	41	26583m	1.84	ppb		
26) Ethyl acetate	7.38	43	43333	2.24	ppb		98
27) Chloroform	7.75	83	105213	2.07	ppb		100
28) Tetrahydrofuran	7.93	42	21870	2.41	ppb		98
29) 1,2-dichloroethane	8.83	62	60772	1.97	ppb		98
31) 1,1,1-trichloroethane	8.53	97	104562	2.11	ppb		98
32) Cyclohexane	9.23	56	40174	2.13	ppb		94
33) Carbon tetrachloride	9.17	117	116042	2.12	ppb		100
34) Benzene	9.13	78	109272	2.09	ppb		97
35) 1,4-dioxane	10.97	88	13037	2.44	ppb		98
36) 2,2,4-trimethylpentane	10.11	57	118124	2.14	ppb		100
37) Heptane	10.53	43	37321	2.02	ppb		98
38) Trichloroethene	10.62	130	67949	2.10	ppb		99
39) 1,2-dichloropropane	10.74	63	38501	2.11	ppb		99
40) Bromodichloromethane	11.13	83	111184	2.11	ppb		99
41) cis-1,3-dichloropropene	12.04	75	52988	2.20	ppb		99
42) trans-1,3-dichloropropene	12.85	75	46374	2.21	ppb		98
43) 1,1,2-trichloroethane	13.16	97	54810	2.13	ppb		99
45) Toluene	12.90	92	77440	2.27	ppb		99
46) Methyl Isobutyl Ketone	12.01	43	36277	2.46	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101404.D Vial: 1
Acq On : 14 Oct 2010 12:22 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:46:38 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	140876	2.19	ppb	99
48)	Methyl Butyl Ketone	13.40	43	20981	2.12	ppb	100
49)	1,2-dibromoethane	14.08	107	89801	2.22	ppb	98
50)	Tetrachloroethylene	13.93	164	70600	2.13	ppb	98
51)	Chlorobenzene	14.88	112	113477	2.16	ppb	99
52)	Ethylbenzene	15.14	91	156595	2.27	ppb	100
53)	m&p-xylene	15.31	91	247104	4.57	ppb	99
54)	Styrene	15.74	104	86388	2.35	ppb	98
55)	Bromoform	15.82	173	148066	2.22	ppb	100
56)	o-xylene	15.76	91	128949	2.28	ppb	99
58)	1,1,2,2-tetrachloroethane	16.19	83	88517	2.26	ppb	99
59)	4-ethyltoluene	16.95	105	184137	2.40	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	124972	2.32	ppb	100
61)	1,2,4-trimethylbenzene	17.42	105	110959	2.50	ppb	99
62)	1,3-dichlorobenzene	17.67	146	91049	2.37	ppb	99
63)	benzyl chloride	17.74	91	64675	2.45	ppb	97
64)	1,4-dichlorobenzene	17.79	146	90583	2.38	ppb	99
65)	1,2-dichlorobenzene	18.08	146	78984	2.37	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	33547	2.37	ppb	99
67)	Hexachloro-1,3-butadiene	19.97	225	49233	2.16	ppb	99

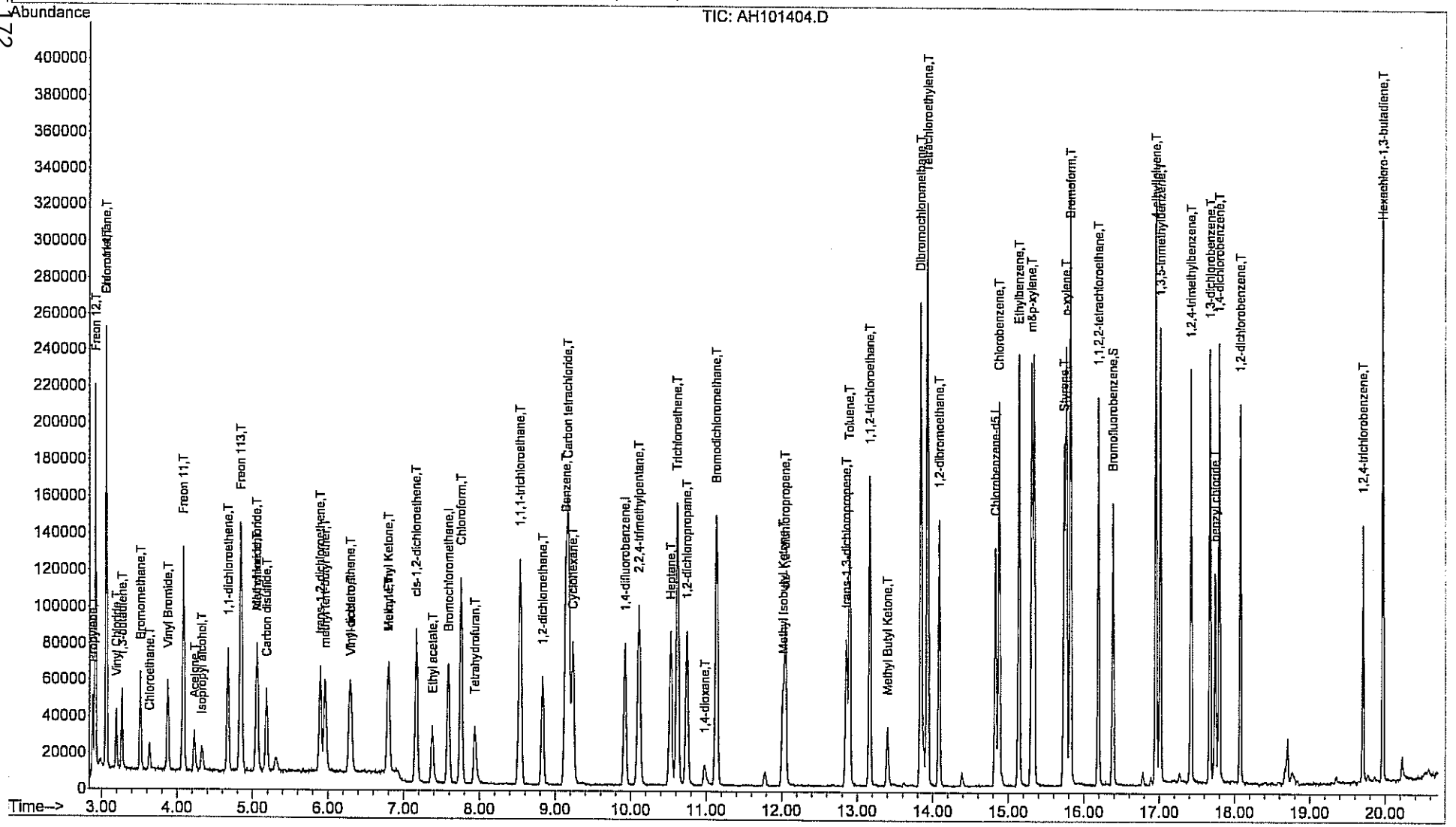
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101404.D
Acq On : 14 Oct 2010 12:22 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:49 2010

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



AH101404.D AO14_1UG.M Tue Nov 09 14:21:35 2010 MSD1

Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101405.D Vial: 2
Acq On : 14 Oct 2010 12:55 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:46:10 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	24038	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	84546	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	73159	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	42221	1.02	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 102.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	11987	1.38	ppb		88
3) Freon 12	2.92	85	106248	1.55	ppb		98
4) Chloromethane	3.06	50	20149	1.51	ppb		97
5) Freon 114	3.06	85	61286	1.52	ppb		99
6) Vinyl Chloride	3.20	62	17581	1.49	ppb		99
7) 1,3-butadiene	3.27	39	11083	1.53	ppb		90
8) Bromomethane	3.52	94	20856	1.42	ppb		100
9) Chloroethane	3.63	64	6783	1.45	ppb		93
10) Vinyl Bromide	3.88	106	23391	1.52	ppb		97
11) Freon 11	4.08	101	67112	1.48	ppb		97
12) Acetone	4.24	58	5714	1.58	ppb	#	84
13) Isopropyl alcohol	4.35	45	13297	1.51	ppb		82
14) 1,1-dichloroethene	4.68	96	20108	1.44	ppb		100
15) Freon 113	4.85	101	42579	1.42	ppb		97
16) Methylene chloride	5.07	84	16229	1.54	ppb		98
17) Allyl chloride	5.05	41	15062	1.44	ppb		97
18) Carbon disulfide	5.19	76	49891	1.50	ppb		97
19) trans-1,2-dichloroethene	5.90	61	29675m	1.19	ppb		
20) methyl tert-butyl ether	5.98	73	44447	1.13	ppb		97
21) 1,1-dichloroethane	6.29	63	48505	1.48	ppb		98
22) Vinyl acetate	6.32	43	33726	1.58	ppb		98
23) Methyl Ethyl Ketone	6.80	43	42920	1.56	ppb		94
24) cis-1,2-dichloroethene	7.17	61	36177	1.50	ppb		98
25) Hexane	6.80	41	20888	1.45	ppb	#	84
26) Ethyl acetate	7.39	43	31635	1.65	ppb		99
27) Chloroform	7.76	83	74890	1.48	ppb		99
28) Tetrahydrofuran	7.96	42	15916	1.76	ppb		98
29) 1,2-dichloroethane	8.83	62	45422	1.48	ppb		99
31) 1,1,1-trichloroethane	8.53	97	75971	1.55	ppb		100
32) Cyclohexane	9.23	56	27956	1.50	ppb		91
33) Carbon tetrachloride	9.17	117	82769	1.52	ppb		99
34) Benzene	9.14	78	75946	1.46	ppb		99
35) 1,4-dioxane	10.99	88	9768	1.84	ppb		97
36) 2,2,4-trimethylpentane	10.11	57	82271	1.50	ppb		99
37) Heptane	10.53	43	26601	1.45	ppb		98
38) Trichloroethene	10.62	130	48347	1.51	ppb		99
39) 1,2-dichloropropane	10.75	63	27484	1.52	ppb		98
40) Bromodichloromethane	11.13	83	80763	1.54	ppb		99
41) cis-1,3-dichloropropene	12.05	75	36560	1.53	ppb		99
42) trans-1,3-dichloropropene	12.85	75	32436	1.55	ppb		94
43) 1,1,2-trichloroethane	13.16	97	40027	1.57	ppb		96
45) Toluene	12.90	92	53232	1.53	ppb		97
46) Methyl Isobutyl Ketone	12.02	43	26335	1.76	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101405.D Vial: 2
Acq On : 14 Oct 2010 12:55 pm Operator: RJP
Sample : A1UG_1.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:46:10 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	100459	1.53	ppb	98
48)	Methyl Butyl Ketone	13.41	43	16039	1.59	ppb	95
49)	1,2-dibromoethane	14.08	107	64534	1.57	ppb	99
50)	Tetrachloroethylene	13.93	164	51677	1.53	ppb	99
51)	Chlorobenzene	14.88	112	79600	1.49	ppb	100
52)	Ethylbenzene	15.14	91	109919	1.57	ppb	99
53)	m&p-xylene	15.34	91	174131	3.17	ppb	100
54)	Styrene	15.74	104	59162	1.58	ppb	100
55)	Bromoform	15.82	173	104890	1.54	ppb	100
56)	o-xylene	15.76	91	91101	1.59	ppb	98
58)	1,1,2,2-tetrachloroethane	16.19	83	63211	1.59	ppb	99
59)	4-ethyltoluene	16.95	105	126004	1.62	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	83589	1.53	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	73702	1.63	ppb	100
62)	1,3-dichlorobenzene	17.67	146	61941	1.59	ppb	99
63)	benzyl chloride	17.74	91	41609	1.55	ppb	97
64)	1,4-dichlorobenzene	17.80	146	60180	1.55	ppb	98
65)	1,2-dichlorobenzene	18.07	146	53238	1.57	ppb	99
66)	1,2,4-trichlorobenzene	19.71	180	21713	1.51	ppb	100
67)	Hexachloro-1,3-butadiene	19.96	225	33788	1.46	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

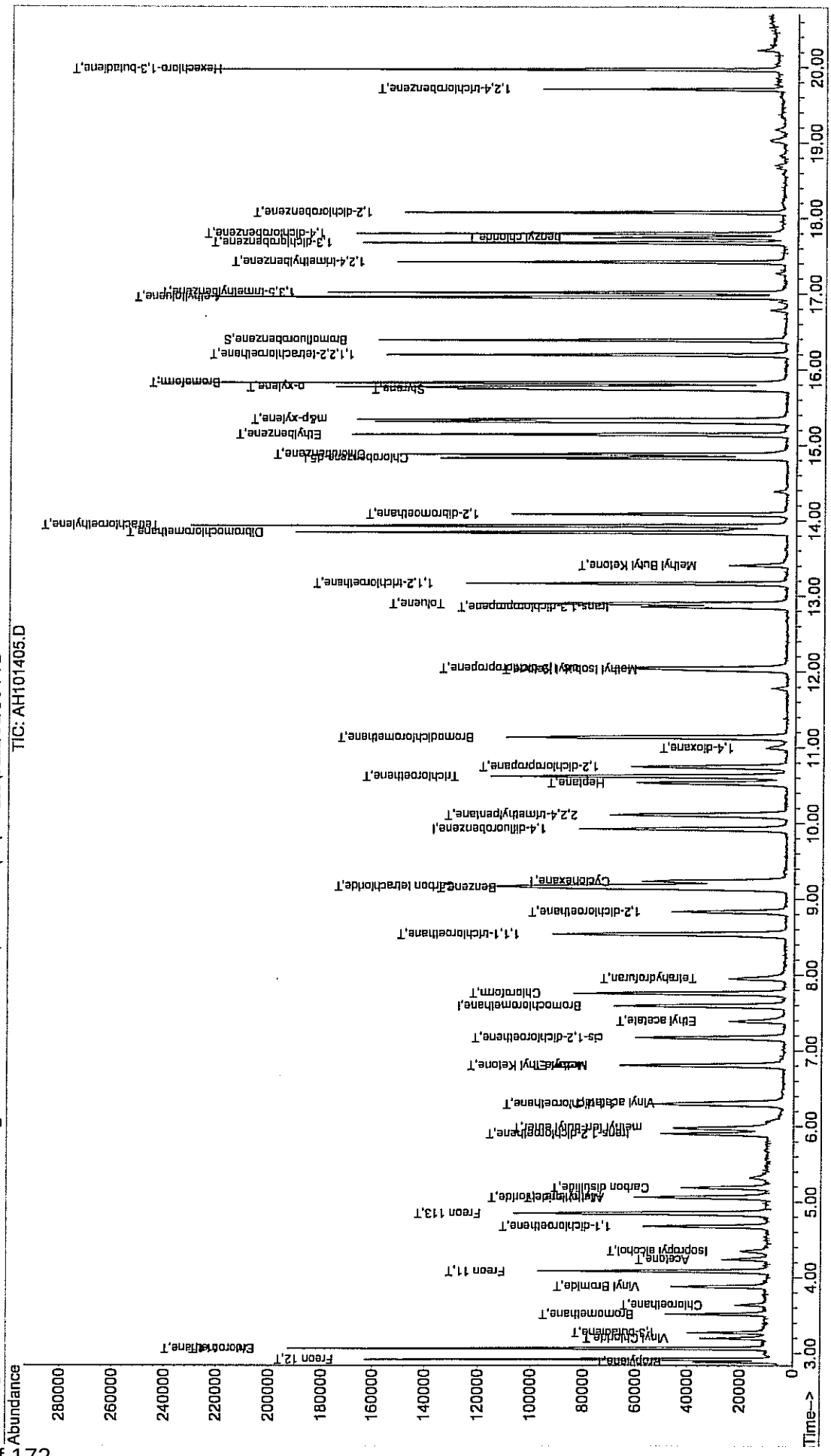
Data File : C:\HPCHEM\1\DATA\AH101405.D
Acq On : 14 Oct 2010 12:55 pm
Sample : A1UG_1.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:50 2010

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D

TIC: AH101405.D



AH101405.D AO14_1UG.M Tue Nov 09 14:21:38 2010 MSD1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101406.D Vial: 3
Acq On : 14 Oct 2010 1:27 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:45:40 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	23667	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	82088	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	70042	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	38684	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10850	1.26	ppb		99
3) Freon 12	2.92	85	87333	1.29	ppb		99
4) Chloromethane	3.06	50	16914	1.28	ppb		98
5) Freon 114	3.06	85	50010	1.26	ppb		98
6) Vinyl Chloride	3.19	62	14599	1.25	ppb		97
7) 1,3-butadiene	3.26	39	9120	1.28	ppb		95
8) Bromomethane	3.51	94	17377	1.20	ppb		99
9) Chloroethane	3.63	64	6058	1.31	ppb		89
10) Vinyl Bromide	3.88	106	19003	1.26	ppb		96
11) Freon 11	4.08	101	57665	1.29	ppb		98
12) Acetone	4.23	58	4962	1.39	ppb		92
13) Isopropyl alcohol	4.33	45	11923	1.38	ppb		80
14) 1,1-dichloroethene	4.67	96	17628	1.28	ppb		99
15) Freon 113	4.84	101	36082	1.22	ppb		96
16) Methylene chloride	5.06	84	13979	1.35	ppb		98
17) Allyl chloride	5.05	41	13536	1.32	ppb		93
18) Carbon disulfide	5.18	76	42393	1.30	ppb		99
19) trans-1,2-dichloroethene	5.90	61	27646m	1.13	ppb		
20) methyl tert-butyl ether	5.96	73	51849	1.34	ppb		97
21) 1,1-dichloroethane	6.29	63	41549	1.29	ppb		96
22) Vinyl acetate	6.31	43	27713	1.32	ppb		95
23) Methyl Ethyl Ketone	6.80	43	34660	1.28	ppb		91
24) cis-1,2-dichloroethene	7.16	61	31003	1.30	ppb		98
25) Hexane	6.80	41	16611	1.17	ppb	#	88
26) Ethyl acetate	7.39	43	24476	1.29	ppb		94
27) Chloroform	7.75	83	64028	1.28	ppb		100
28) Tetrahydrofuran	7.95	42	12984	1.46	ppb		97
29) 1,2-dichloroethane	8.83	62	37579	1.24	ppb		100
31) 1,1,1-trichloroethane	8.53	97	63985	1.34	ppb		98
32) Cyclohexane	9.23	56	23691	1.30	ppb		94
33) Carbon tetrachloride	9.17	117	70368	1.33	ppb		100
34) Benzene	9.14	78	64834	1.29	ppb		100
35) 1,4-dioxane	10.99	88	7144	1.39	ppb		98
36) 2,2,4-trimethylpentane	10.11	57	68262	1.28	ppb		98
37) Heptane	10.52	43	23314	1.31	ppb		98
38) Trichloroethene	10.62	130	41401	1.33	ppb		99
39) 1,2-dichloropropane	10.74	63	22592	1.29	ppb		97
40) Bromodichloromethane	11.13	83	67709	1.33	ppb		99
41) cis-1,3-dichloropropene	12.05	75	31070	1.34	ppb		99
42) trans-1,3-dichloropropene	12.85	75	26103	1.29	ppb		97
43) 1,1,2-trichloroethane	13.16	97	32943	1.33	ppb		97
45) Toluene	12.89	92	44319	1.33	ppb		99
46) Methyl Isobutyl Ketone	12.01	43	20147	1.40	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101406.D Vial: 3
Acq On : 14 Oct 2010 1:27 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:45:40 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	85785	1.37	ppb	99
48)	Methyl Butyl Ketone	13.40	43	12697	1.32	ppb	95
49)	1,2-dibromoethane	14.08	107	52583	1.34	ppb	98
50)	Tetrachloroethylene	13.93	164	42953	1.33	ppb	99
51)	Chlorobenzene	14.88	112	66908	1.31	ppb	100
52)	Ethylbenzene	15.14	91	90807	1.35	ppb	99
53)	m&p-xylene	15.34	91	144949	2.75	ppb	100
54)	Styrene	15.74	104	49019	1.37	ppb	100
55)	Bromoform	15.82	173	86571	1.33	ppb	99
56)	o-xylene	15.76	91	74498	1.36	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	51099	1.34	ppb	100
59)	4-ethyltoluene	16.95	105	98399	1.32	ppb	98
60)	1,3,5-trimethylbenzene	17.02	105	68032	1.30	ppb	100
61)	1,2,4-trimethylbenzene	17.42	105	57878	1.34	ppb	100
62)	1,3-dichlorobenzene	17.67	146	50048	1.34	ppb	97
63)	benzyl chloride	17.74	91	34034	1.32	ppb	98
64)	1,4-dichlorobenzene	17.80	146	48073	1.29	ppb	99
65)	1,2-dichlorobenzene	18.08	146	43245	1.33	ppb	99
66)	1,2,4-trichlorobenzene	19.71	180	17784	1.29	ppb	98
67)	Hexachloro-1,3-butadiene	19.97	225	28625	1.29	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

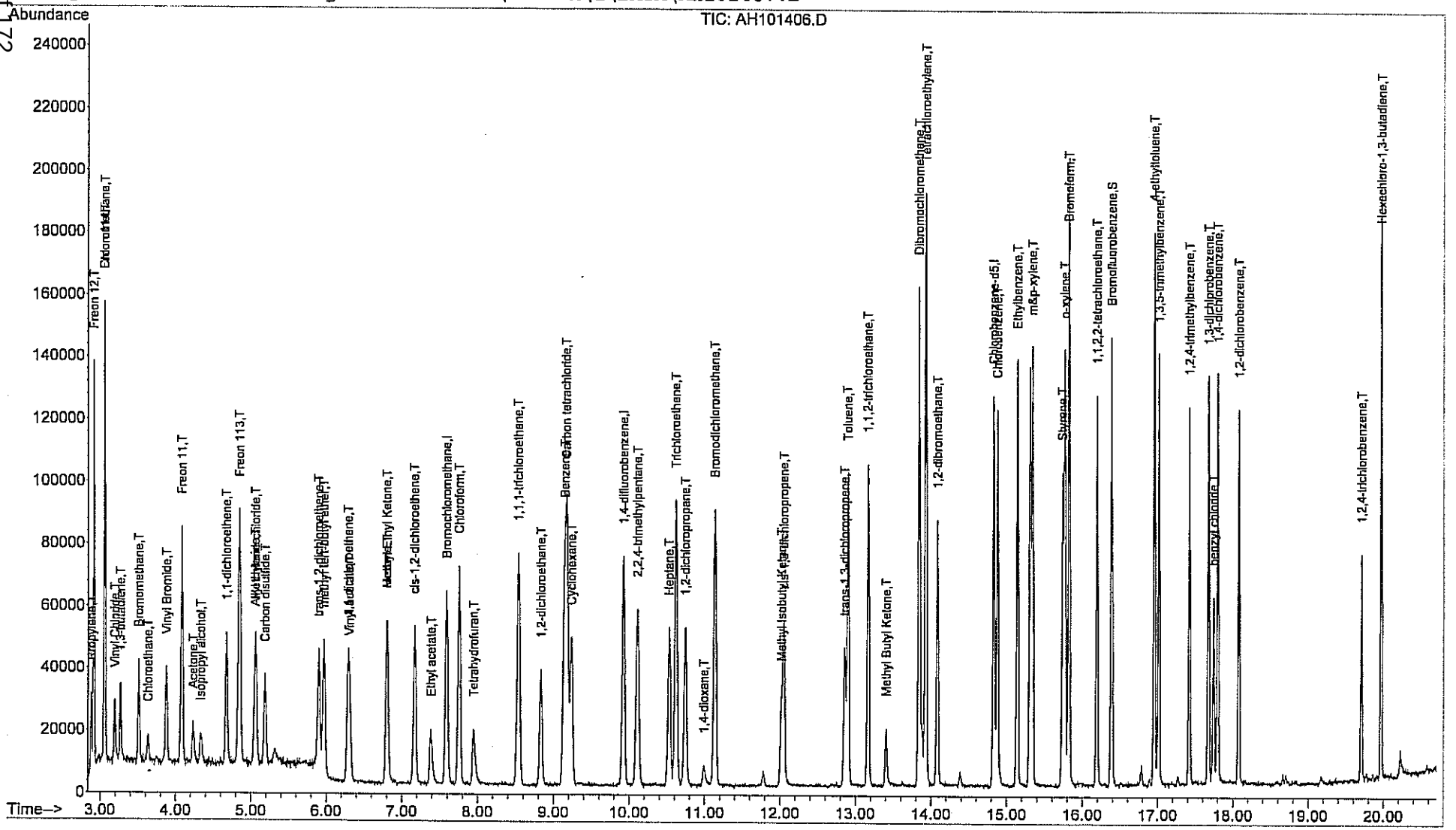
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101406.D
Acq On : 14 Oct 2010 1:27 pm
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:51 2010

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101407.D Vial: 4
Acq On : 14 Oct 2010 1:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:45:12 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	23795	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	85455	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	73795	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41631	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	8627	1.00	ppb		84
3) Freon 12	2.92	85	68032	1.00	ppb		99
4) Chloromethane	3.05	50	13236	1.00	ppb		100
5) Freon 114	3.06	85	39796	1.00	ppb		97
6) Vinyl Chloride	3.19	62	11700	1.00	ppb		99
7) 1,3-butadiene	3.27	39	7148	1.00	ppb		94
8) Bromomethane	3.51	94	14533	1.00	ppb		97
9) Chloroethane	3.63	64	4637	1.00	ppb		96
10) Vinyl Bromide	3.88	106	15199	1.00	ppb		96
11) Freon 11	4.08	101	45024	1.00	ppb		99
12) Acetone	4.22	58	3581	1.00	ppb		91
13) Isopropyl alcohol	4.33	45	8701	1.00	ppb		80
14) 1,1-dichloroethene	4.68	96	13834	1.00	ppb		100
15) Freon 113	4.84	101	29746	1.00	ppb		99
16) Methylene chloride	5.06	84	10416	1.00	ppb		96
17) Allyl chloride	5.05	41	10326	1.00	ppb		96
18) Carbon disulfide	5.18	76	32862	1.00	ppb		99
19) trans-1,2-dichloroethene	5.89	61	24687	1.00	ppb		99
20) methyl tert-butyl ether	5.96	73	38916	1.00	ppb		100
21) 1,1-dichloroethane	6.29	63	32417	1.00	ppb		97
22) Vinyl acetate	6.31	43	21111	1.00	ppb		96
23) Methyl Ethyl Ketone	6.79	43	27112	1.00	ppb		89
24) cis-1,2-dichloroethene	7.17	61	23947	1.00	ppb		99
25) Hexane	6.80	41	14265	1.00	ppb	#	78
26) Ethyl acetate	7.39	43	19035	1.00	ppb		99
27) Chloroform	7.76	83	50217	1.00	ppb		100
28) Tetrahydrofuran	7.94	42	8939	1.00	ppb		94
29) 1,2-dichloroethane	8.83	62	30364	1.00	ppb		99
31) 1,1,1-trichloroethane	8.54	97	49624	1.00	ppb		97
32) Cyclohexane	9.23	56	18900	1.00	ppb		91
33) Carbon tetrachloride	9.17	117	55058	1.00	ppb		100
34) Benzene	9.13	78	52469	1.00	ppb		99
35) 1,4-dioxane	10.99	88	5353	1.00	ppb		99
36) 2,2,4-trimethylpentane	10.11	57	55527	1.00	ppb		99
37) Heptane	10.53	43	18533	1.00	ppb		98
38) Trichloroethene	10.62	130	32415	1.00	ppb		98
39) 1,2-dichloropropane	10.74	63	18276	1.00	ppb		98
40) Bromodichloromethane	11.14	83	52893	1.00	ppb		100
41) cis-1,3-dichloropropene	12.05	75	24149	1.00	ppb		98
42) trans-1,3-dichloropropene	12.85	75	21107	1.00	ppb		96
43) 1,1,2-trichloroethane	13.16	97	25821	1.00	ppb		97
45) Toluene	12.90	92	35027	1.00	ppb		96
46) Methyl Isobutyl Ketone	12.02	43	15020	0.99	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101407.D Vial: 4
Acq On : 14 Oct 2010 1:58 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:45:12 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	66059	1.00	ppb	99
48)	Methyl Butyl Ketone	13.41	43	10325	1.02	ppb	92
49)	1,2-dibromoethane	14.08	107	41485	1.00	ppb	99
50)	Tetrachloroethylene	13.93	164	34026	1.00	ppb	99
51)	Chlorobenzene	14.88	112	53843	1.00	ppb	99
52)	Ethylbenzene	15.14	91	70839	1.00	ppb	99
53)	m&p-xylene	15.34	91	110872	2.00	ppb	99
54)	Styrene	15.74	104	37664	1.00	ppb	98
55)	Bromoform	15.82	173	68547	1.00	ppb	99
56)	o-xylene	15.76	91	57924	1.00	ppb	100
58)	1,1,2,2-tetrachloroethane	16.19	83	40104	1.00	ppb	99
59)	4-ethyltoluene	16.95	105	78580	1.00	ppb	100
60)	1,3,5-trimethylbenzene	17.01	105	55161	1.00	ppb	97
61)	1,2,4-trimethylbenzene	17.42	105	45511	1.00	ppb	100
62)	1,3-dichlorobenzene	17.67	146	39372	1.00	ppb	99
63)	benzyl chloride	17.74	91	27070	1.00	ppb	97
64)	1,4-dichlorobenzene	17.80	146	39114	1.00	ppb	99
65)	1,2-dichlorobenzene	18.08	146	34178	1.00	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	14528	1.00	ppb	96
67)	Hexachloro-1,3-butadiene	19.96	225	23389	1.00	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

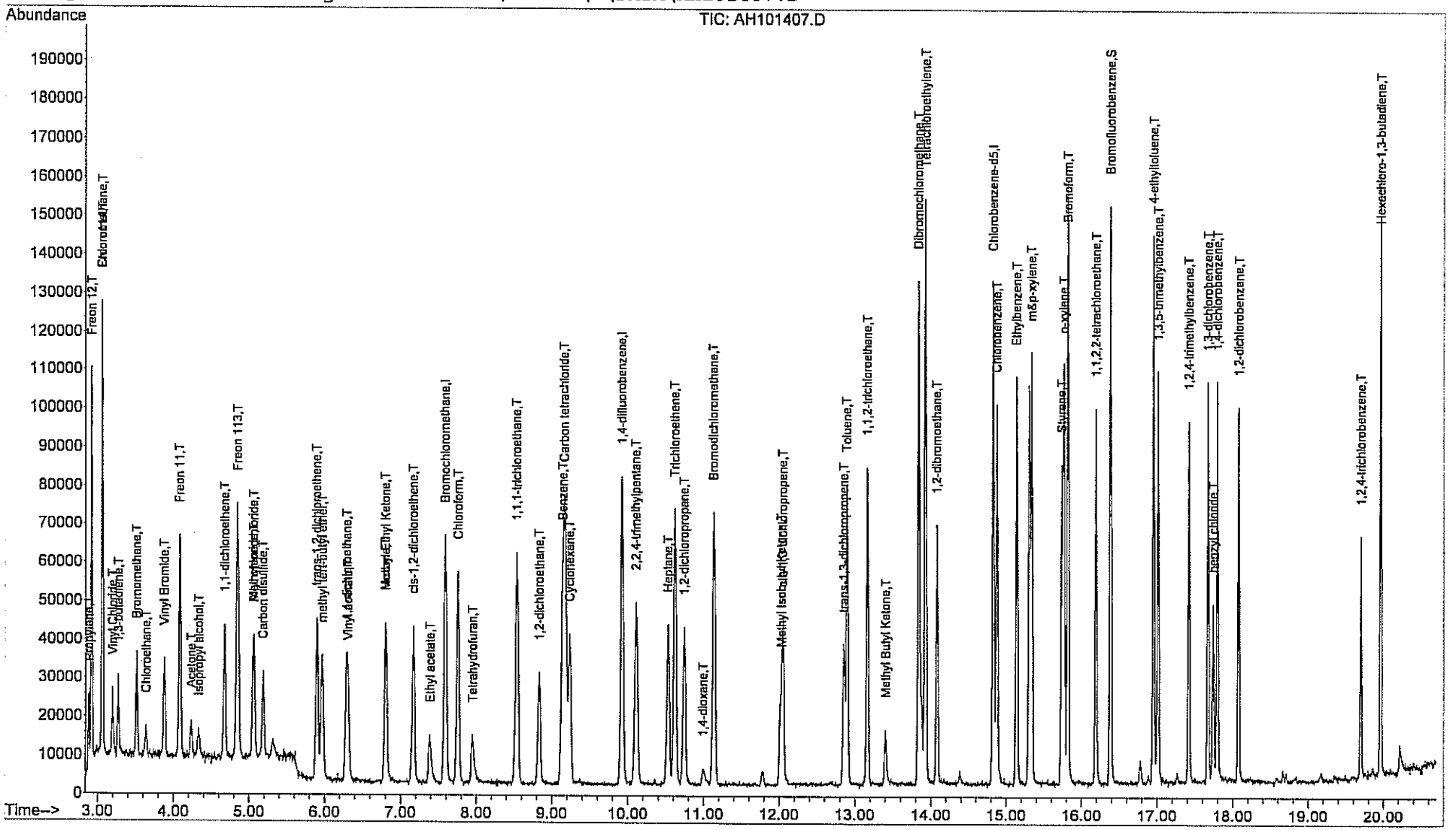
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101407.D
Acq On : 14 Oct 2010 1:58 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:45 2010

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



AH101407.D AO14_1UG.M Tue Nov 09 14:21:44 2010 MSD1 Page 3

Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101408.D Vial: 5
Acq On : 14 Oct 2010 2:31 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:47:10 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	25055	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	87221	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	73901	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	40967	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	7046	0.78	ppb		92
3) Freon 12	2.91	85	51795	0.72	ppb		98
4) Chloromethane	3.06	50	10171	0.73	ppb		99
5) Freon 114	3.06	85	31319	0.75	ppb		98
6) Vinyl Chloride	3.19	62	8579	0.70	ppb		94
7) 1,3-butadiene	3.27	39	5966	0.79	ppb		91
8) Bromomethane	3.52	94	11822	0.77	ppb		90
9) Chloroethane	3.64	64	3575	0.73	ppb		100
10) Vinyl Bromide	3.88	106	11878	0.74	ppb		97
11) Freon 11	4.08	101	35045	0.74	ppb		95
12) Acetone	4.23	58	3072m	0.81	ppb		
13) Isopropyl alcohol	4.34	45	7978	0.87	ppb	#	38
14) 1,1-dichloroethene	4.67	96	10519	0.72	ppb		99
15) Freon 113	4.84	101	22883	0.73	ppb		98
16) Methylene chloride	5.06	84	8594	0.78	ppb		93
17) Allyl chloride	5.05	41	8162	0.75	ppb		94
18) Carbon disulfide	5.19	76	26151	0.76	ppb		98
19) trans-1,2-dichloroethene	5.90	61	18658m	0.72	ppb		
20) methyl tert-butyl ether	5.97	73	30433	0.74	ppb		98
21) 1,1-dichloroethane	6.29	63	24969	0.73	ppb		98
22) Vinyl acetate	6.32	43	15893	0.71	ppb		95
23) Methyl Ethyl Ketone	6.80	43	22058m	0.77	ppb		
24) cis-1,2-dichloroethene	7.17	61	18215	0.72	ppb		99
25) Hexane	6.81	41	10387	0.69	ppb	#	79
26) Ethyl acetate	7.39	43	14754	0.74	ppb		92
27) Chloroform	7.76	83	38406	0.73	ppb		99
28) Tetrahydrofuran	7.95	42	7078	0.75	ppb		98
29) 1,2-dichloroethane	8.84	62	21942	0.69	ppb		99
31) 1,1,1-trichloroethane	8.54	97	37599	0.74	ppb		99
32) Cyclohexane	9.23	56	14255	0.74	ppb		93
33) Carbon tetrachloride	9.17	117	41767	0.74	ppb		98
34) Benzene	9.14	78	39404	0.74	ppb		97
35) 1,4-dioxane	10.99	88	5447	1.00	ppb		96
36) 2,2,4-trimethylpentane	10.11	57	40818	0.72	ppb		100
37) Heptane	10.53	43	14145	0.75	ppb		96
38) Trichloroethene	10.62	130	24123	0.73	ppb		99
39) 1,2-dichloropropane	10.74	63	13990	0.75	ppb		98
40) Bromodichloromethane	11.13	83	40221	0.75	ppb		100
41) cis-1,3-dichloropropene	12.05	75	18290	0.74	ppb		99
42) trans-1,3-dichloropropene	12.85	75	15849	0.74	ppb		100
43) 1,1,2-trichloroethane	13.17	97	18986	0.72	ppb		99
45) Toluene	12.90	92	26588	0.76	ppb		98
46) Methyl Isobutyl Ketone	12.02	43	12861m	0.85	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101408.D Vial: 5
Acq On : 14 Oct 2010 2:31 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:47:10 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

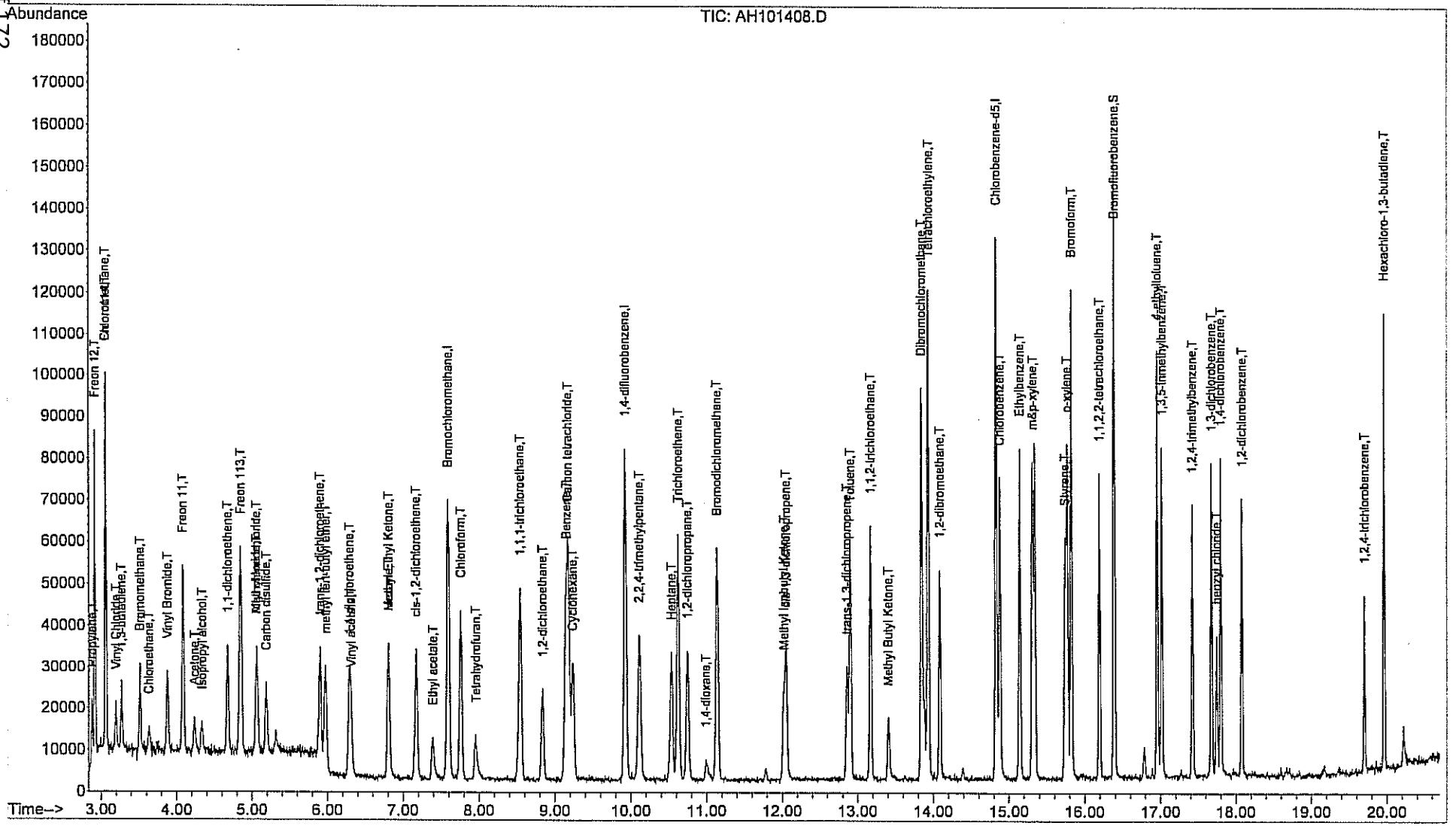
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	49219	0.74	ppb	99
48)	Methyl Butyl Ketone	13.40	43	9055m	0.89	ppb	
49)	1,2-dibromoethane	14.08	107	31990	0.77	ppb	99
50)	Tetrachloroethylene	13.93	164	25757	0.76	ppb	100
51)	Chlorobenzene	14.88	112	39805	0.74	ppb	98
52)	Ethylbenzene	15.14	91	51501	0.73	ppb	97
53)	m&p-xylene	15.31	91	81171	1.46	ppb	100
54)	Styrene	15.74	104	27141	0.72	ppb	97
55)	Bromoform	15.82	173	51593	0.75	ppb	99
56)	o-xylene	15.77	91	43265	0.75	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	29606	0.74	ppb	100
59)	4-ethyltoluene	16.95	105	55535	0.71	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	38628	0.70	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	32370	0.71	ppb	96
62)	1,3-dichlorobenzene	17.67	146	28430	0.72	ppb	99
63)	benzyl chloride	17.74	91	18630	0.69	ppb	98
64)	1,4-dichlorobenzene	17.79	146	27901	0.71	ppb	99
65)	1,2-dichlorobenzene	18.08	146	24740	0.72	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	9803	0.67	ppb	99
67)	Hexachloro-1,3-butadiene	19.96	225	16246	0.69	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101408.D Vial: 5
Acq On : 14 Oct 2010 2:31 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:53 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101409.D Vial: 6
Acq On : 14 Oct 2010 3:03 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:47:44 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	24226	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	87783	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	74685	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	41251	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	5641	0.64	ppb		94
3) Freon 12	2.92	85	41339	0.60	ppb		98
4) Chloromethane	3.06	50	8260	0.61	ppb		98
5) Freon 114	3.06	85	24750	0.61	ppb		99
6) Vinyl Chloride	3.19	62	7574	0.64	ppb		99
7) 1,3-butadiene	3.27	39	4438	0.61	ppb		99
8) Bromomethane	3.51	94	8949	0.60	ppb		92
9) Chloroethane	3.63	64	2911	0.62	ppb		94
10) Vinyl Bromide	3.88	106	9337	0.60	ppb		97
11) Freon 11	4.08	101	27928	0.61	ppb		100
12) Acetone	4.24	58	2392	0.66	ppb	#	75
13) Isopropyl alcohol	4.33	45	6012	0.68	ppb	#	38
14) 1,1-dichloroethene	4.68	96	8103	0.58	ppb		94
15) Freon 113	4.84	101	18364	0.61	ppb		96
16) Methylene chloride	5.06	84	6834	0.64	ppb		99
17) Allyl chloride	5.05	41	6326	0.60	ppb		98
18) Carbon disulfide	5.19	76	20677	0.62	ppb		100
19) trans-1,2-dichloroethene	5.90	61	14786	0.59	ppb		98
20) methyl tert-butyl ether	5.97	73	23999	0.61	ppb		97
21) 1,1-dichloroethane	6.29	63	20354	0.62	ppb		98
22) Vinyl acetate	6.31	43	13802	0.64	ppb		100
23) Methyl Ethyl Ketone	6.80	43	16511	0.60	ppb		88
24) cis-1,2-dichloroethene	7.17	61	14503	0.59	ppb		99
25) Hexane	6.80	41	8671	0.60	ppb	#	79
26) Ethyl acetate	7.39	43	12124	0.63	ppb		91
27) Chloroform	7.76	83	31246	0.61	ppb		100
28) Tetrahydrofuran	7.96	42	5903	0.65	ppb		93
29) 1,2-dichloroethane	8.83	62	18419	0.60	ppb		99
31) 1,1,1-trichloroethane	8.54	97	30614	0.60	ppb		100
32) Cyclohexane	9.24	56	11316	0.58	ppb		92
33) Carbon tetrachloride	9.18	117	33385	0.59	ppb		99
34) Benzene	9.14	78	31567	0.59	ppb		100
35) 1,4-dioxane	11.00	88	4174	0.76	ppb		98
36) 2,2,4-trimethylpentane	10.11	57	34113	0.60	ppb		99
37) Heptane	10.53	43	11411	0.60	ppb		96
38) Trichloroethene	10.62	130	20008	0.60	ppb		99
39) 1,2-dichloropropane	10.75	63	11109	0.59	ppb		99
40) Bromodichloromethane	11.14	83	31861	0.59	ppb		99
41) cis-1,3-dichloropropene	12.05	75	14371	0.58	ppb		98
42) trans-1,3-dichloropropene	12.85	75	12622	0.58	ppb		95
43) 1,1,2-trichloroethane	13.16	97	15448	0.58	ppb		99
45) Toluene	12.90	92	21333	0.60	ppb		100
46) Methyl Isobutyl Ketone	12.02	43	11942	0.78	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101409.D Vial: 6
Acq On : 14 Oct 2010 3:03 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:47:44 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

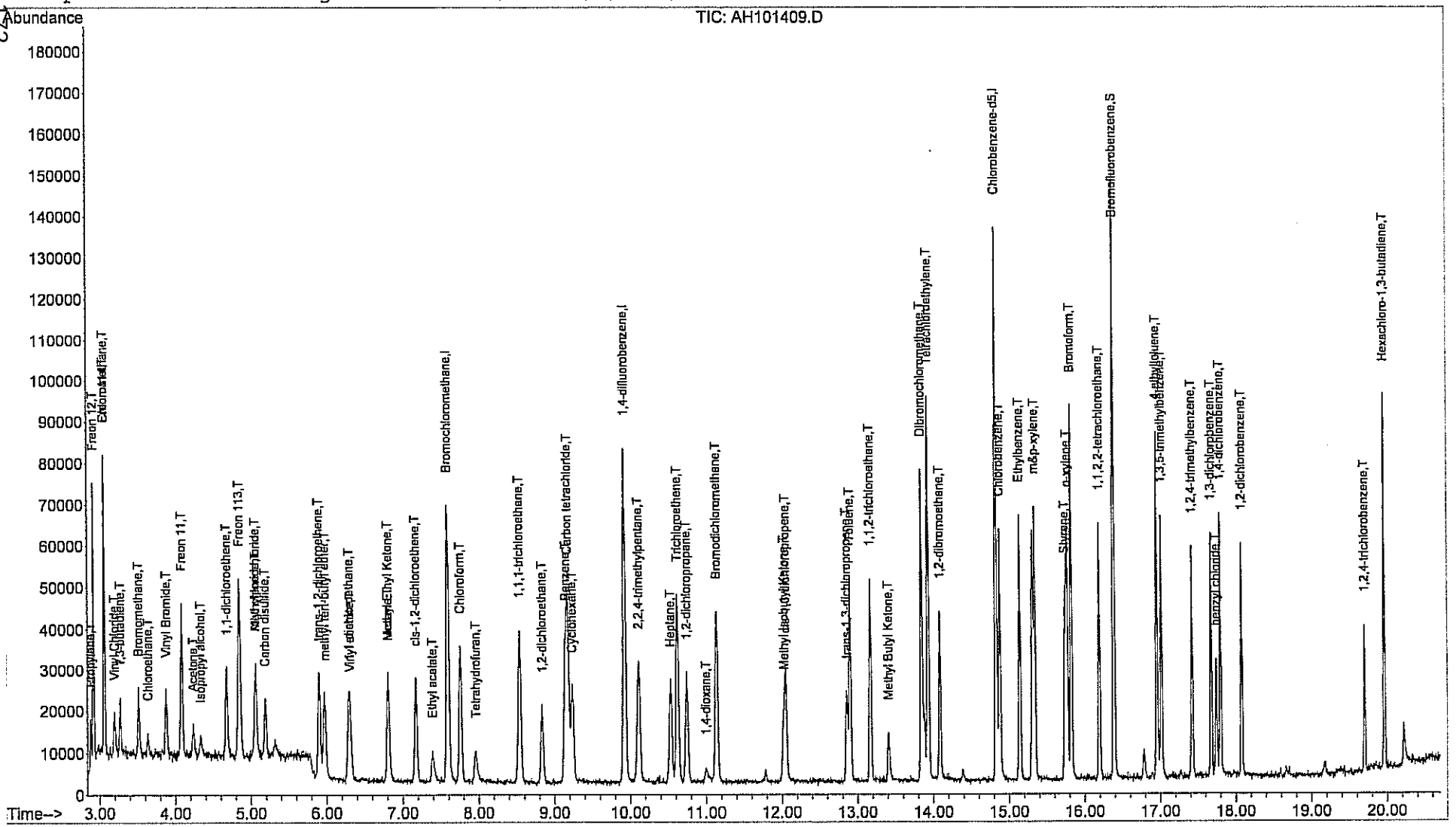
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	40094	0.60	ppb	100
48)	Methyl Butyl Ketone	13.41	43	8508	0.83	ppb	93
49)	1,2-dibromoethane	14.08	107	25205	0.60	ppb	99
50)	Tetrachloroethylene	13.93	164	20180	0.59	ppb	97
51)	Chlorobenzene	14.88	112	31884	0.59	ppb	99
52)	Ethylbenzene	15.14	91	42507	0.59	ppb	99
53)	m&p-xylene	15.34	91	65567	1.17	ppb	100
54)	Styrene	15.74	104	21465	0.56	ppb	98
55)	Bromoform	15.82	173	40268	0.58	ppb	100
56)	o-xylene	15.76	91	34606	0.59	ppb	95
58)	1,1,2,2-tetrachloroethane	16.19	83	24491	0.60	ppb	98
59)	4-ethyltoluene	16.95	105	44694	0.56	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	31015	0.56	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	26512	0.58	ppb	98
62)	1,3-dichlorobenzene	17.67	146	22835	0.57	ppb	98
63)	benzyl chloride	17.74	91	16114	0.59	ppb	97
64)	1,4-dichlorobenzene	17.80	146	22790	0.58	ppb	98
65)	1,2-dichlorobenzene	18.08	146	19805	0.57	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	8247	0.56	ppb	98
67)	Hexachloro-1,3-butadiene	19.96	225	12954	0.55	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101409.D Vial: 6
Acq On : 14 Oct 2010 3:03 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:47 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101410.D Vial: 7
Acq On : 14 Oct 2010 3:35 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:48:08 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	24191	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	85326	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	71982	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	37183	0.92	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	2891	0.33	ppb		97
3) Freon 12	2.92	85	21368	0.31	ppb		96
4) Chloromethane	3.06	50	4133	0.31	ppb		95
5) Freon 114	3.06	85	12818	0.32	ppb		98
6) Vinyl Chloride	3.19	62	3694	0.31	ppb		96
7) 1,3-butadiene	3.27	39	3582	0.49	ppb	#	61
8) Bromomethane	3.51	94	4588	0.31	ppb		96
9) Chloroethane	3.63	64	1576	0.33	ppb		88
10) Vinyl Bromide	3.88	106	4895	0.32	ppb		99
11) Freon 11	4.08	101	14533	0.32	ppb		97
12) Acetone	4.23	58	1230	0.34	ppb	#	61
13) Isopropyl alcohol	4.34	45	2802	0.32	ppb	#	38
14) 1,1-dichloroethene	4.67	96	4464	0.32	ppb		99
15) Freon 113	4.84	101	9650	0.32	ppb		97
16) Methylene chloride	5.07	84	3598	0.34	ppb		98
17) Allyl chloride	5.05	41	3545	0.34	ppb		92
18) Carbon disulfide	5.19	76	11369	0.34	ppb		94
19) trans-1,2-dichloroethene	5.91	61	7549	0.30	ppb		97
20) methyl tert-butyl ether	5.98	73	10466	0.26	ppb		96
21) 1,1-dichloroethane	6.29	63	9265	0.28	ppb		99
22) Vinyl acetate	6.32	43	6075	0.28	ppb		99
23) Methyl Ethyl Ketone	6.80	43	8638	0.31	ppb		88
24) cis-1,2-dichloroethene	7.17	61	7072	0.29	ppb		98
25) Hexane	6.80	41	4474	0.31	ppb	#	79
26) Ethyl acetate	7.39	43	4831	0.25	ppb		77
27) Chloroform	7.76	83	15990	0.31	ppb		97
28) Tetrahydrofuran	7.97	42	2502	0.28	ppb		93
29) 1,2-dichloroethane	8.84	62	9143	0.30	ppb		98
31) 1,1,1-trichloroethane	8.54	97	14878	0.30	ppb		99
32) Cyclohexane	9.23	56	5766	0.31	ppb		92
33) Carbon tetrachloride	9.17	117	16742	0.30	ppb		98
34) Benzene	9.14	78	15907	0.30	ppb		98
35) 1,4-dioxane	11.02	88	1894m	0.35	ppb		
36) 2,2,4-trimethylpentane	10.11	57	16773	0.30	ppb		97
37) Heptane	10.53	43	5510	0.30	ppb		96
38) Trichloroethene	10.62	130	9323	0.29	ppb		91
39) 1,2-dichloropropane	10.74	63	5371	0.29	ppb		96
40) Bromodichloromethane	11.14	83	15887	0.30	ppb		98
41) cis-1,3-dichloropropene	12.05	75	6685	0.28	ppb		93
42) trans-1,3-dichloropropene	12.86	75	6173	0.29	ppb		95
43) 1,1,2-trichloroethane	13.16	97	7868	0.31	ppb		99
45) Toluene	12.90	92	9970	0.29	ppb		95
46) Methyl Isobutyl Ketone	12.03	43	4369	0.30	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101410.D Vial: 7
Acq On : 14 Oct 2010 3:35 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:48:08 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

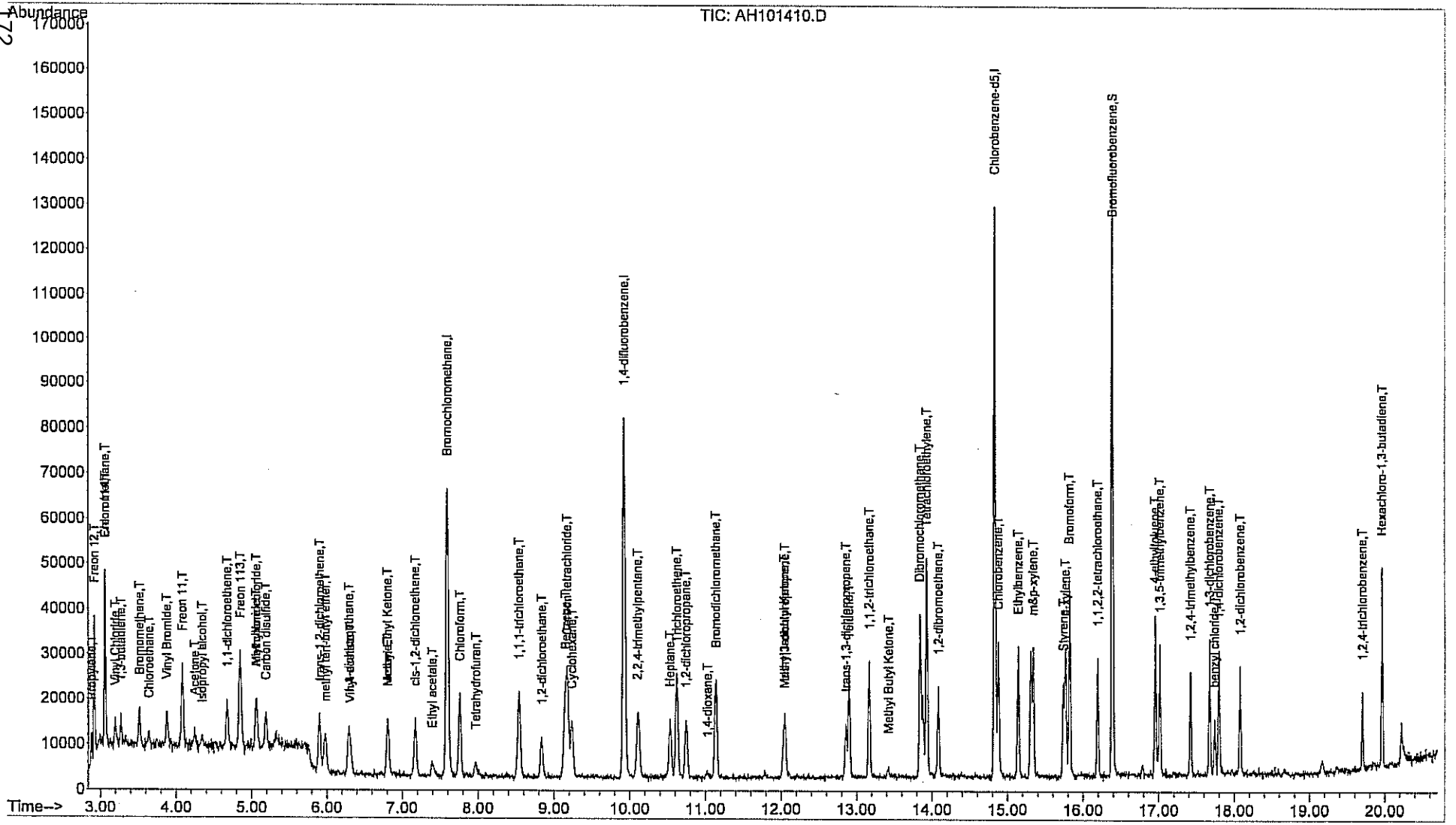
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	19384	0.30	ppb	100
48)	Methyl Butyl Ketone	13.42	43	2982m	0.30	ppb	
49)	1,2-dibromoethane	14.08	107	11917	0.29	ppb	98
50)	Tetrachloroethylene	13.93	164	10620	0.32	ppb	97
51)	Chlorobenzene	14.88	112	15565	0.30	ppb	98
52)	Ethylbenzene	15.14	91	18532	0.27	ppb	95
53)	m&p-xylene	15.33	91	29477	0.55	ppb	99
54)	Styrene	15.74	104	9498	0.26	ppb	92
55)	Bromoform	15.82	173	19017	0.28	ppb	98
56)	o-xylene	15.77	91	14661	0.26	ppb	98
58)	1,1,2,2-tetrachloroethane	16.19	83	11000	0.28	ppb	99
59)	4-ethyltoluene	16.95	105	19078	0.25	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	13142	0.24	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	10725	0.24	ppb	99
62)	1,3-dichlorobenzene	17.67	146	9999	0.26	ppb	96
63)	benzyl chloride	17.74	91	6587	0.25	ppb	96
64)	1,4-dichlorobenzene	17.79	146	10190	0.27	ppb	99
65)	1,2-dichlorobenzene	18.08	146	8775	0.26	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	3838	0.27	ppb	98
67)	Hexachloro-1,3-butadiene	19.96	225	6203	0.27	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101410.D Vial: 7
Acq On : 14 Oct 2010 3:35 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:54 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101411.D Vial: 8
Acq On : 14 Oct 2010 4:07 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:48:27 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.60	128	22599	1.00	ppb		0.01
30) 1,4-difluorobenzene	9.93	114	80023	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	66746	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	34351	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	1595m	0.19	ppb		
3) Freon 12	2.92	85	13429	0.21	ppb		94
4) Chloromethane	3.06	50	2733	0.22	ppb		96
5) Freon 114	3.06	85	8158	0.22	ppb		100
6) Vinyl Chloride	3.19	62	2458	0.22	ppb		88
7) 1,3-butadiene	3.27	39	1627m	0.24	ppb		
8) Bromomethane	3.51	94	2813	0.20	ppb		97
9) Chloroethane	3.64	64	966	0.22	ppb		88
10) Vinyl Bromide	3.88	106	2834	0.20	ppb		99
11) Freon 11	4.08	101	8461	0.20	ppb		97
13) Isopropyl alcohol	4.35	45	1967	0.24	ppb		99
14) 1,1-dichloroethene	4.68	96	2469	0.19	ppb		89
15) Freon 113	4.85	101	5891	0.21	ppb		99
16) Methylene chloride	5.07	84	2195	0.22	ppb		98
17) Allyl chloride	5.06	41	2250	0.23	ppb		86
18) Carbon disulfide	5.18	76	7523	0.24	ppb		90
19) trans-1,2-dichloroethene	5.91	61	3216	0.14	ppb		95
20) methyl tert-butyl ether	5.98	73	6393	0.17	ppb	#	61
21) 1,1-dichloroethane	6.30	63	5464	0.18	ppb		96
22) Vinyl acetate	6.32	43	4373	0.22	ppb		97
23) Methyl Ethyl Ketone	6.81	43	4504	0.17	ppb		80
24) cis-1,2-dichloroethene	7.17	61	4526	0.20	ppb		94
25) Hexane	6.81	41	2839	0.21	ppb	#	63
26) Ethyl acetate	7.41	43	3200	0.18	ppb	#	70
27) Chloroform	7.76	83	9075	0.19	ppb		100
28) Tetrahydrofuran	7.98	42	1447	0.17	ppb		84
29) 1,2-dichloroethane	8.84	62	5000	0.17	ppb		95
31) 1,1,1-trichloroethane	8.54	97	8710	0.19	ppb		97
32) Cyclohexane	9.24	56	3243	0.18	ppb	#	68
33) Carbon tetrachloride	9.17	117	9923	0.19	ppb		100
34) Benzene	9.14	78	9245	0.19	ppb		97
36) 2,2,4-trimethylpentane	10.11	57	9296	0.18	ppb		96
37) Heptane	10.53	43	3477	0.20	ppb		92
38) Trichloroethene	10.63	130	5853	0.19	ppb		98
39) 1,2-dichloropropane	10.75	63	3207	0.19	ppb		99
40) Bromodichloromethane	11.14	83	9284	0.19	ppb		98
41) cis-1,3-dichloropropene	12.05	75	4057	0.18	ppb		99
42) trans-1,3-dichloropropene	12.86	75	3195	0.16	ppb		87
43) 1,1,2-trichloroethane	13.17	97	4280	0.18	ppb		100
45) Toluene	12.90	92	5498	0.17	ppb		92
47) Dibromochloromethane	13.84	129	10670	0.18	ppb		96
49) 1,2-dibromoethane	14.09	107	7012	0.19	ppb		97
50) Tetrachloroethylene	13.93	164	5774	0.19	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101411.D
Acq On : 14 Oct 2010 4:07 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 16:48:27 2010

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.88	112	8456	0.17	ppb	99
52)	Ethylbenzene	15.14	91	10335	0.16	ppb	95
53)	m&p-xylene	15.34	91	16110	0.32	ppb	96
54)	Styrene	15.74	104	5407	0.16	ppb	98
55)	Bromoform	15.82	173	10387	0.17	ppb	98
56)	o-xylene	15.77	91	8310	0.16	ppb	99
58)	1,1,2,2-tetrachloroethane	16.19	83	5992	0.17	ppb	99
59)	4-ethyltoluene	16.95	105	9832	0.14	ppb	96
60)	1,3,5-trimethylbenzene	17.02	105	6989	0.14	ppb	97
61)	1,2,4-trimethylbenzene	17.42	105	5465	0.13	ppb	98
62)	1,3-dichlorobenzene	17.67	146	5227	0.15	ppb	96
63)	benzyl chloride	17.75	91	3033	0.12	ppb	98
64)	1,4-dichlorobenzene	17.79	146	5009	0.14	ppb	96
65)	1,2-dichlorobenzene	18.08	146	4575	0.15	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	1781	0.14	ppb	94
67)	Hexachloro-1,3-butadiene	19.96	225	2736	0.13	ppb	96

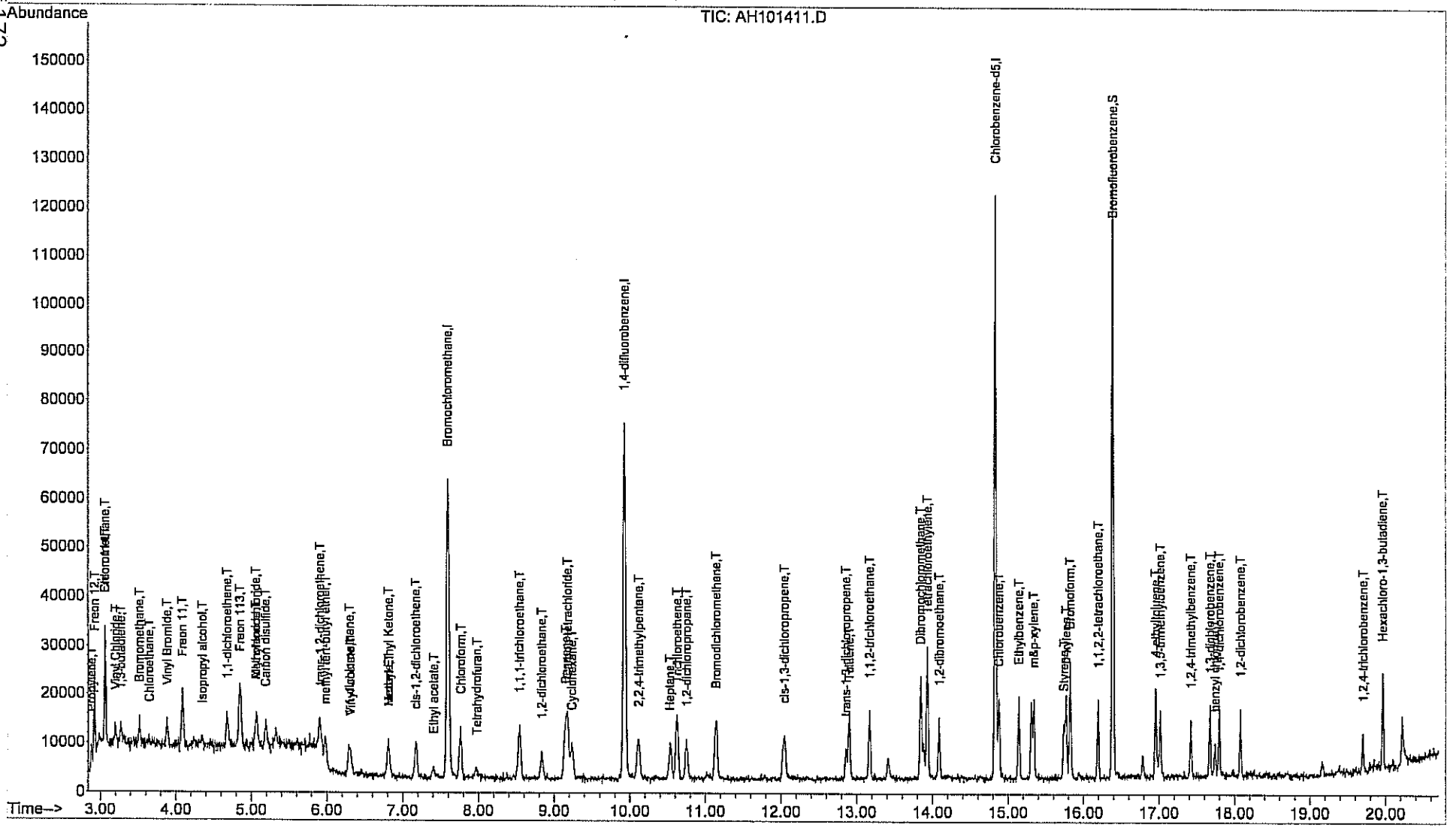
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101411.D
Acq On : 14 Oct 2010 4:07 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Oct 14 15:56 2010

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101412.D Vial: 9
Acq On : 14 Oct 2010 5:09 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 17:30:48 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 16:45:01 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D
DataAcq Meth : AO14_1UG

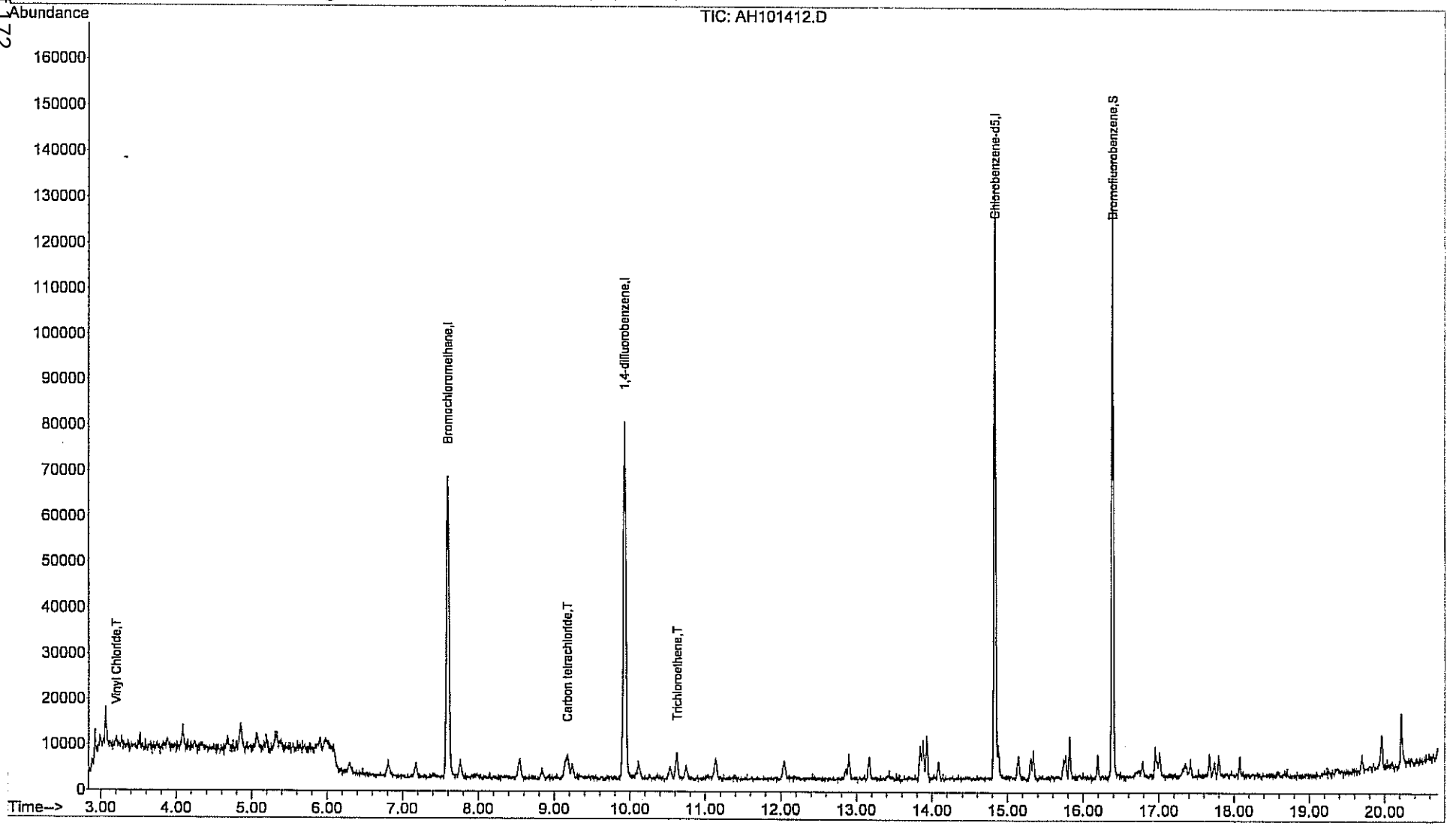
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	24268	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.92	114	87700	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	73292	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.39	95	38701	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.19	62	826m	0.07	ppb	
33) Carbon tetrachloride	9.17	117	3614	0.06	ppb	86
38) Trichloroethene	10.63	130	2135	0.06	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH101412.D Vial: 9
Acq On : 14 Oct 2010 5:09 pm Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 14 17:19 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH101407.D



Centek Laboratories,LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Volatile Organics GC/MS Calibration Report

Data File : C:\HPCHEM\1\DATA\AH102002.D Vial: 3
Acq On : 20 Oct 2010 1:19 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	81	0.00
2	T	Propylene	0.390	0.425	-9.0	95	0.00
3	T	Freon 12	3.094	3.453	-11.6	98	0.00
4	T	Chloromethane	0.604	0.706	-16.9	103	0.00
5	T	Freon 114	1.832	2.215	-20.9	107	0.00
6	T	Vinyl Chloride	0.571	0.647	-13.3	107	0.00
7	T	1,3-butadiene	0.359	0.377	-5.0	102	0.00
8	T	Bromomethane	0.648	0.776	-19.8	103	0.00
9	T	Chloroethane	0.214	0.263	-22.9	110	0.00
10	T	Vinyl Bromide	0.685	0.823	-20.1	105	0.00
11	T	Freon 11	2.035	2.476	-21.7	106	0.00
12	T	Acetone	0.167	0.181	-8.4	97	0.00
13	T	Isopropyl alcohol	0.421	0.515	-22.3	114	0.00
14	T	1,1-dichloroethene	0.610	0.747	-22.5	104	0.00
15	T	Freon 113	1.340	1.669	-24.6	108	0.00
16	T	Methylene chloride	0.499	0.612	-22.6	114	0.00
17	T	Allyl chloride	0.481	0.532	-10.6	100	0.00
18	T	Carbon disulfide	1.564	1.862	-19.1	109	0.00
19	T	trans-1,2-dichloroethene	0.976	0.920	5.7	72	0.00
20	T	methyl tert-butyl ether	1.599	1.531	4.3	76	0.00
21	T	1,1-dichloroethane	1.404	1.632	-16.2	97	0.00
22	T	Vinyl acetate	0.960	1.141	-18.9	104	0.00
23	T	Methyl Ethyl Ketone	1.192	1.369	-14.8	98	0.00
24	T	cis-1,2-dichloroethene	1.071	1.216	-13.5	98	0.00
25	T	Hexane	0.627	0.686	-9.4	93	0.00
26	T	Ethyl acetate	0.850	1.010	-18.8	102	0.00
27	T	Chloroform	2.254	2.526	-12.1	97	0.00
28	T	Tetrahydrofuran	0.418	0.473	-13.2	102	0.00
29	T	1,2-dichloroethane	1.311	1.498	-14.3	95	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00
31	T	1,1,1-trichloroethane	0.625	0.716	-14.6	95	0.00
32	T	Cyclohexane	0.235	0.267	-13.6	93	0.00
33	T	Carbon tetrachloride	0.730	0.845	-15.8	101	0.00
34	T	Benzene	0.650	0.728	-12.0	91	0.00
35	T	1,4-dioxane	0.077	0.093	-20.8	114	0.00
36	T	2,2,4-trimethylpentane	0.686	0.788	-14.9	93	0.00
37	T	Heptane	0.232	0.250	-7.8	88	0.00
38	T	Trichloroethene	0.428	0.450	-5.1	91	0.00
39	T	1,2-dichloropropane	0.228	0.260	-14.0	94	0.00
40	T	Bromodichloromethane	0.663	0.797	-20.2	99	0.00
41	T	cis-1,3-dichloropropene	0.299	0.338	-13.0	92	0.00
42	T	trans-1,3-dichloropropene	0.258	0.277	-7.4	86	0.00
43	T	1,1,2-trichloroethane	0.321	0.363	-13.1	92	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	74	0.00
45	T	Toluene	0.508	0.580	-14.2	90	0.00
46	T	Methyl Isobutyl Ketone	0.240	0.287	-19.6	104	0.00
47	T	Dibromochloromethane	0.962	1.157	-20.3	95	0.00
48	T	Methyl Butyl Ketone	0.158	0.202	-27.8	106	0.00
49	T	1,2-dibromoethane	0.610	0.707	-15.9	93	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH102002.D Vial: 3
Acq On : 20 Oct 2010 1:19 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.498	0.551	-10.6	88	0.00
51	T	Chlorobenzene	0.768	0.875	-13.9	89	0.00
52	T	Ethylbenzene	1.006	1.192	-18.5	92	0.00
53	T	m&p-xylene	0.791	0.912	-15.3	90	0.00
54	T	Styrene	0.532	0.583	-9.6	84	0.00
55	T	Bromoform	0.979	1.155	-18.0	92	0.00
56	T	o-xylene	0.822	0.951	-15.7	89	0.00
57	S	Bromofluorobenzene	0.549	0.545	0.7	71	0.00
58	T	1,1,2,2-tetrachloroethane	0.577	0.674	-16.8	92	0.00
59	T	4-ethyltoluene	1.085	1.192	-9.9	83	0.00
60	T	1,3,5-trimethylbenzene	0.749	0.834	-11.3	82	0.00
61	T	1,2,4-trimethylbenzene	0.632	0.679	-7.4	81	0.00
62	T	1,3-dichlorobenzene	0.551	0.594	-7.8	82	0.00
63	T	benzyl chloride	0.370	0.443	-19.7	89	0.00
64	T	1,4-dichlorobenzene	0.543	0.592	-9.0	82	0.00
65	T	1,2-dichlorobenzene	0.479	0.518	-8.1	83	0.00
66	T	1,2,4-trichlorobenzene	0.198	0.246	-24.2	92	0.00
67	T	Hexachloro-1,3-butadiene	0.312	0.367	-17.6	85	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102002.D Vial: 3
Acq On : 20 Oct 2010 1:19 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:40:20 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	19318	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.93	114	65670	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	54472	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	29687	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	8214	1.09	ppb		97
3) Freon 12	2.92	85	66705	1.12	ppb		99
4) Chloromethane	3.06	50	13633	1.17	ppb		96
5) Freon 114	3.06	85	42780	1.21	ppb		96
6) Vinyl Chloride	3.20	62	12504	1.13	ppb		100
7) 1,3-butadiene	3.27	39	7290	1.05	ppb		99
8) Bromomethane	3.51	94	14983	1.20	ppb		98
9) Chloroethane	3.64	64	5081	1.23	ppb		91
10) Vinyl Bromide	3.88	106	15893	1.20	ppb		95
11) Freon 11	4.08	101	47830	1.22	ppb		97
12) Acetone	4.24	58	3489m	1.08	ppb		
13) Isopropyl alcohol	4.34	45	9952	1.22	ppb		97
14) 1,1-dichloroethene	4.68	96	14438	1.23	ppb		99
15) Freon 113	4.85	101	32241	1.25	ppb		99
16) Methylene chloride	5.07	84	11832	1.23	ppb		95
17) Allyl chloride	5.05	41	10275	1.11	ppb		97
18) Carbon disulfide	5.18	76	35962	1.19	ppb		99
19) trans-1,2-dichloroethene	5.90	61	17776	0.94	ppb		99
20) methyl tert-butyl ether	5.97	73	29573	0.96	ppb		92
21) 1,1-dichloroethane	6.29	63	31520	1.16	ppb		99
22) Vinyl acetate	6.32	43	22046	1.19	ppb		100
23) Methyl Ethyl Ketone	6.80	43	26455	1.15	ppb		92
24) cis-1,2-dichloroethene	7.17	61	23490	1.13	ppb		96
25) Hexane	6.81	41	13249	1.09	ppb	#	82
26) Ethyl acetate	7.39	43	19504	1.19	ppb		97
27) Chloroform	7.76	83	48795	1.12	ppb		99
28) Tetrahydrofuran	7.95	42	9142	1.13	ppb		95
29) 1,2-dichloroethane	8.84	62	28939	1.14	ppb		99
31) 1,1,1-trichloroethane	8.54	97	47012	1.15	ppb		98
32) Cyclohexane	9.24	56	17538	1.14	ppb		93
33) Carbon tetrachloride	9.17	117	55467	1.16	ppb		100
34) Benzene	9.14	78	47794	1.12	ppb		98
35) 1,4-dioxane	10.99	88	6110m	1.21	ppb		
36) 2,2,4-trimethylpentane	10.11	57	51738	1.15	ppb		98
37) Heptane	10.53	43	16396	1.08	ppb		99
38) Trichloroethene	10.62	130	29562	1.05	ppb		97
39) 1,2-dichloropropane	10.75	63	17106	1.14	ppb		99
40) Bromodichloromethane	11.14	83	52335	1.20	ppb		99
41) cis-1,3-dichloropropene	12.05	75	22189	1.13	ppb		99
42) trans-1,3-dichloropropene	12.86	75	18204	1.07	ppb		90
43) 1,1,2-trichloroethane	13.16	97	23813	1.13	ppb		98
45) Toluene	12.90	92	31580	1.14	ppb		100
46) Methyl Isobutyl Ketone	12.02	43	15625m	1.20	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102002.D Vial: 3
Acq On : 20 Oct 2010 1:19 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:40:20 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

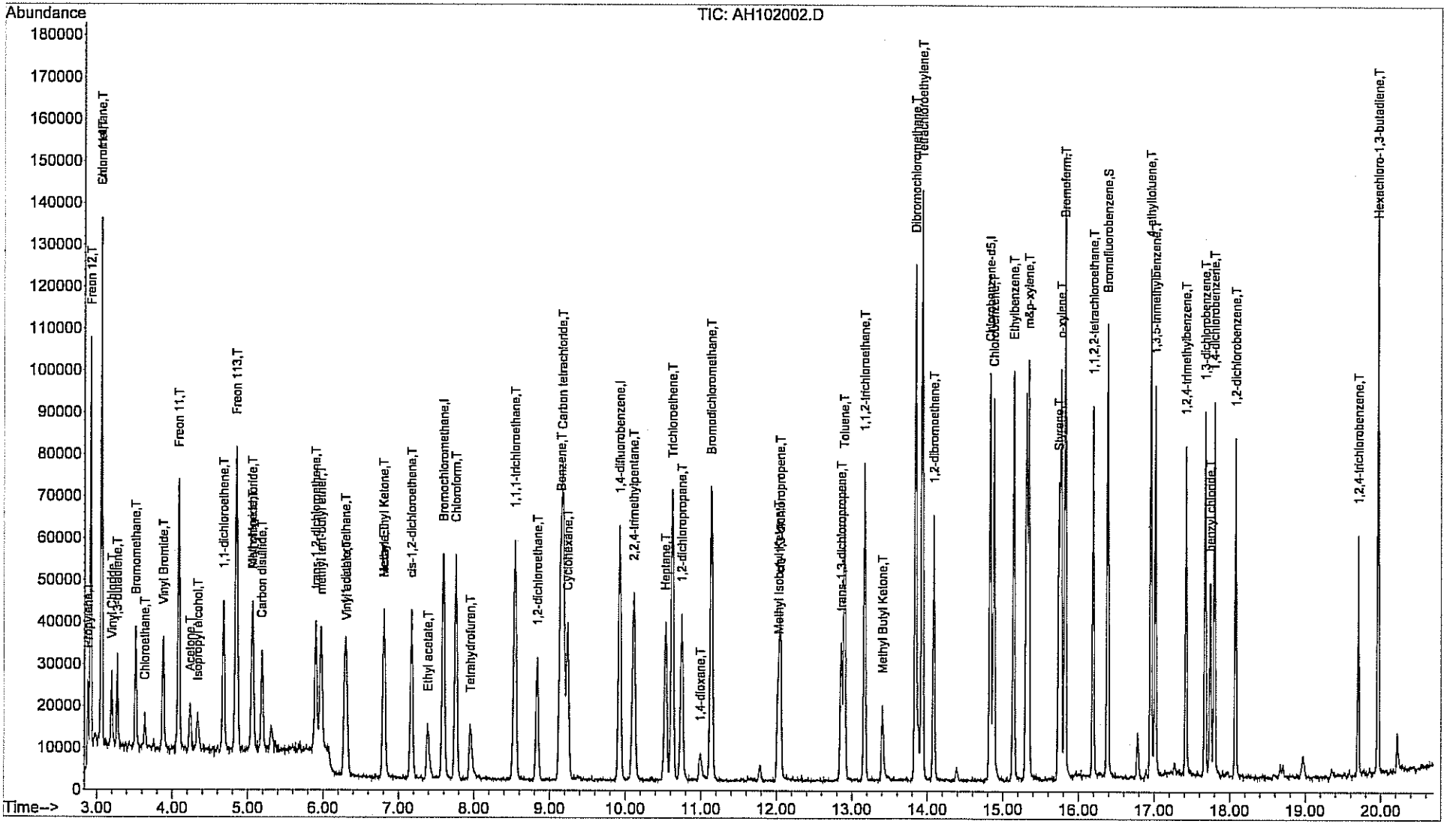
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	63026	1.20	ppb	99
48)	Methyl Butyl Ketone	13.41	43	10996m	1.28	ppb	
49)	1,2-dibromoethane	14.08	107	38501	1.16	ppb	100
50)	Tetrachloroethylene	13.93	164	29992	1.10	ppb	99
51)	Chlorobenzene	14.88	112	47664	1.14	ppb	99
52)	Ethylbenzene	15.14	91	64944	1.19	ppb	96
53)	m&p-xylene	15.34	91	99352	2.31	ppb	98
54)	Styrene	15.74	104	31755	1.10	ppb	95
55)	Bromoform	15.82	173	62932	1.18	ppb	99
56)	o-xylene	15.77	91	51793	1.16	ppb	97
58)	1,1,2,2-tetrachloroethane	16.19	83	36721	1.17	ppb	98
59)	4-ethyltoluene	16.95	105	64947	1.10	ppb	95
60)	1,3,5-trimethylbenzene	17.01	105	45431	1.11	ppb	99
61)	1,2,4-trimethylbenzene	17.42	105	36960	1.07	ppb	96
62)	1,3-dichlorobenzene	17.67	146	32338	1.08	ppb	100
63)	benzyl chloride	17.74	91	24119	1.20	ppb	96
64)	1,4-dichlorobenzene	17.80	146	32251	1.09	ppb	99
65)	1,2-dichlorobenzene	18.08	146	28224	1.08	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	13391	1.24	ppb	99
67)	Hexachloro-1,3-butadiene	19.96	225	19969	1.18	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102002.D Vial: 3
Acq On : 20 Oct 2010 1:19 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 12:47 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:02 2010
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

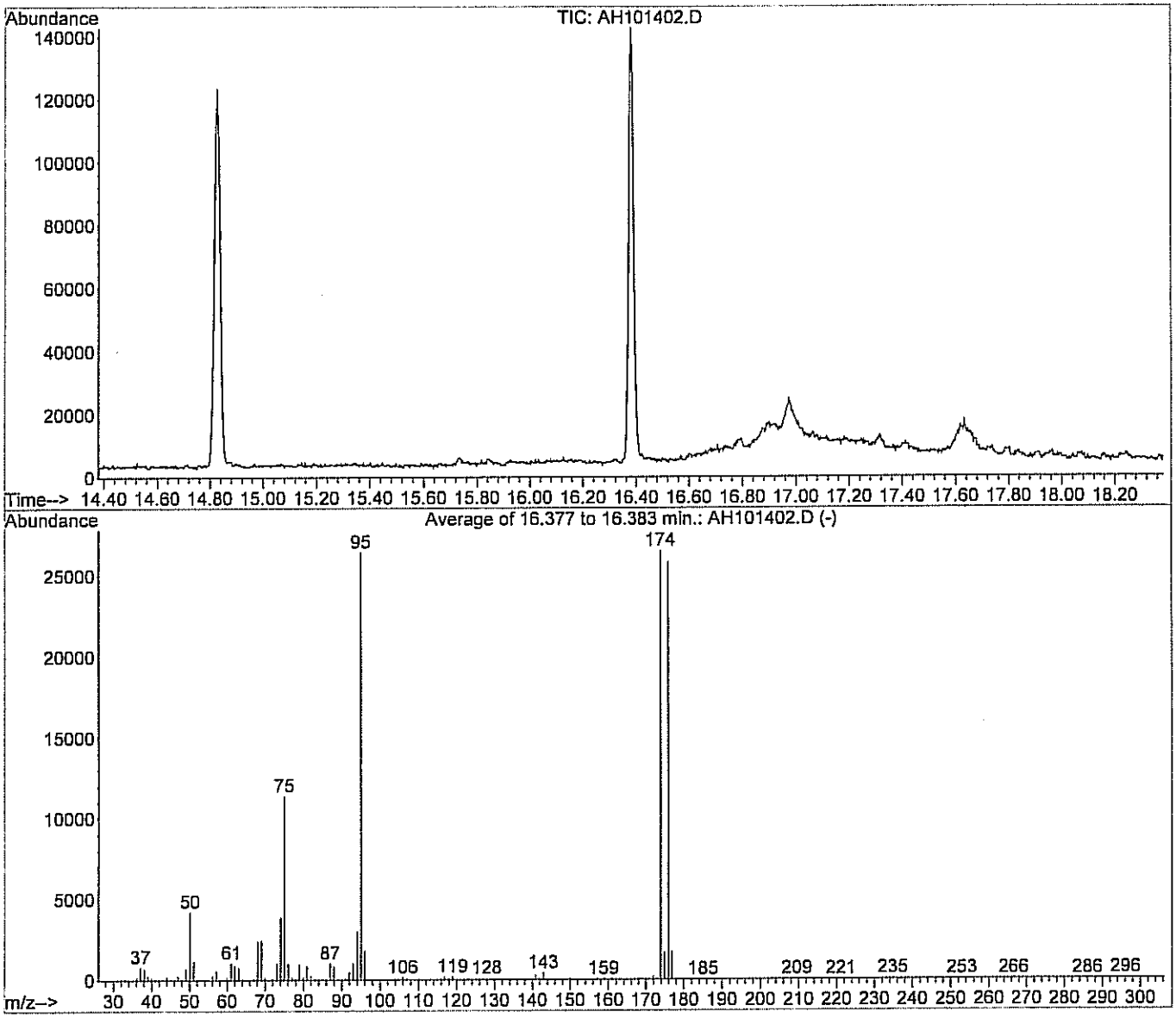
METHOD TO-15

RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AH101402.D
Acq On : 14 Oct 2010 10:43 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



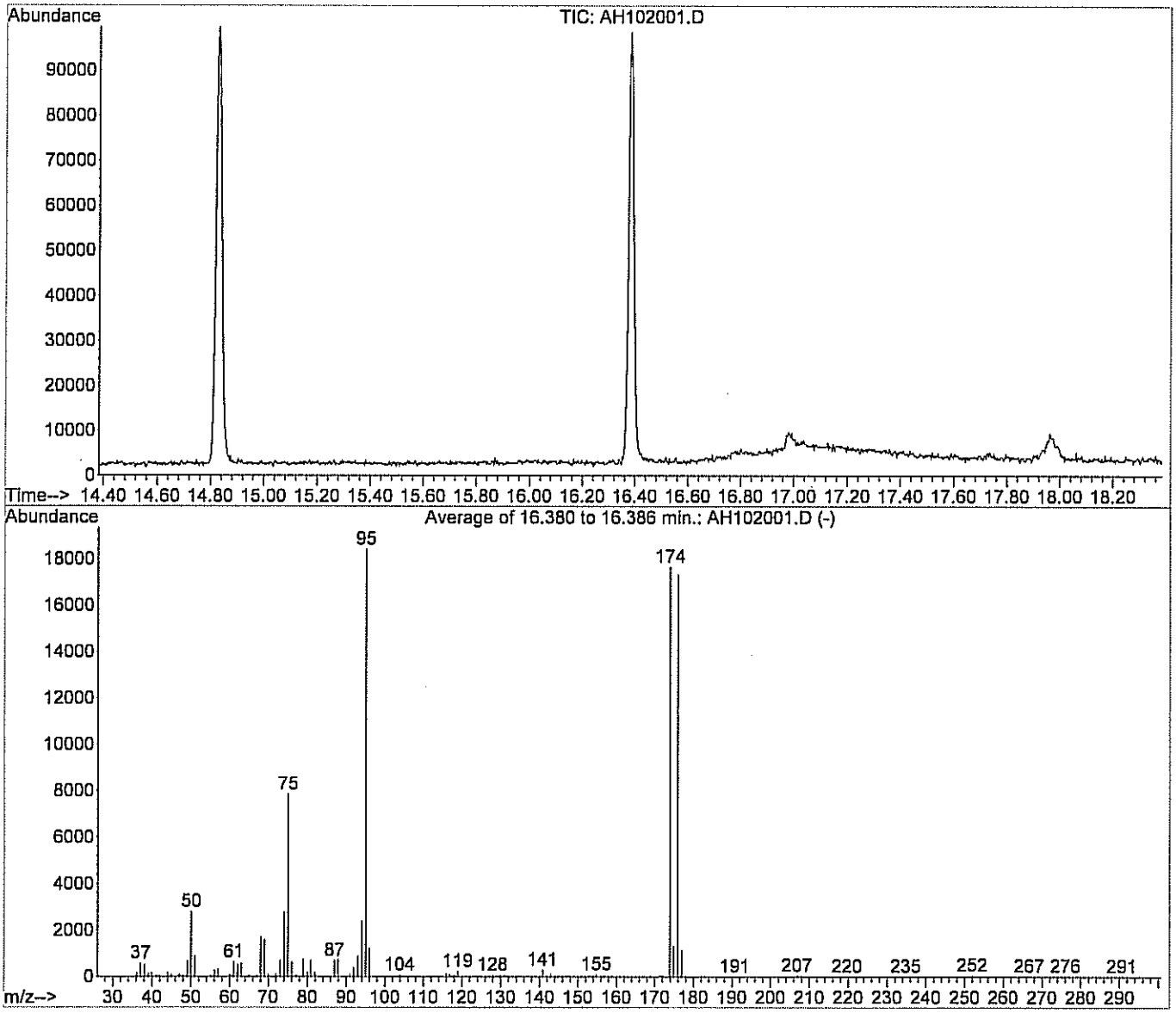
Spectrum Information: Average of 16.377 to 16.383 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.0	4224	PASS
75	95	30	66	43.0	11389	PASS
95	95	100	100	100.0	26461	PASS
96	95	5	9	6.9	1821	PASS
173	174	0.00	2	0.2	51	PASS
174	95	50	120	100.3	26530	PASS
175	174	4	9	6.3	1670	PASS
176	174	95	101	97.4	25837	PASS
177	176	5	9	6.7	1736	PASS

AH101402.D A928_1UT.M Tue Nov 09 14:10:49 2010 MSD1

BFB

```
Data File : C:\HPCHEM\1\DATA\AH102001.D                Vial: 1
Acq On    : 20 Oct 2010  11:09 am                    Operator: RJP
Sample    : BFB1UG                                   Inst    : MSD #1
Misc      :                                          Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title     : TO-15 VOA  Standards for 5 point calibration
```



Spectrum Information: Average of 16.380 to 16.386 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.3	2817	PASS
75	95	30	66	42.7	7865	PASS
95	95	100	100	100.0	18424	PASS
96	95	5	9	6.6	1225	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	95.9	17669	PASS
175	174	4	9	7.6	1336	PASS
176	174	95	101	98.1	17333	PASS
177	176	5	9	6.7	1153	PASS

AH102001.D AO14_1UG.M Tue Nov 09 15:04:20 2010 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Centek Laboratories, LLC **Date:** *09-Nov-10*

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-102010** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **3988**
Client ID: **ZZZZZ** Batch ID: **R3988** TestNo: **TO-15** Analysis Date: **10/20/2010** SeqNo: **48524**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102010	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48524

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-102010	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48524

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102004.D Vial: 5
Acq On : 20 Oct 2010 2:33 pm Operator: RJP
Sample : AMB1UG-102010 Inst : MSD #1
Misc : AMB1UG-102010 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:54:06 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

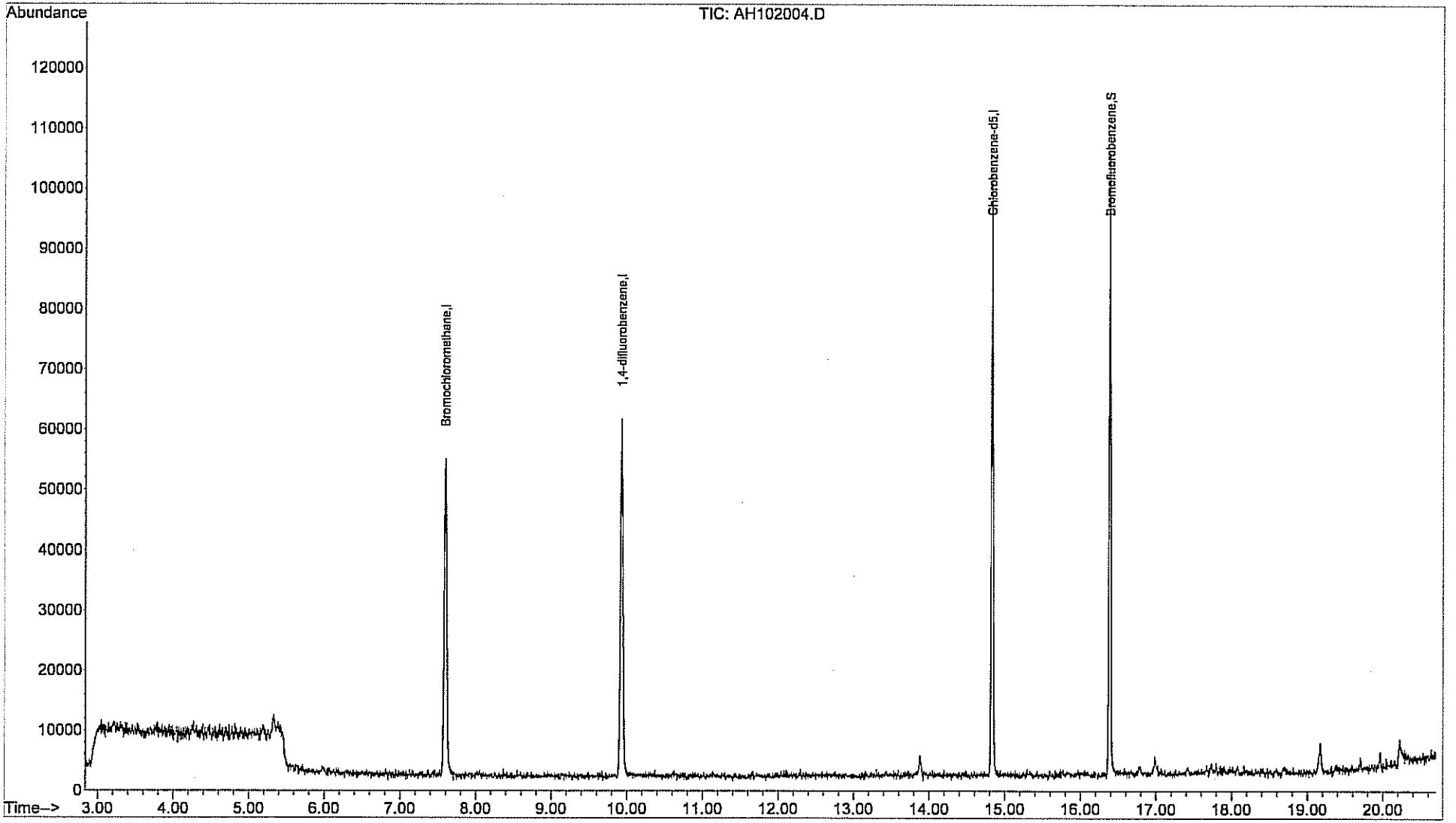
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.60	128	19029	1.00	ppb	0.01
30) 1,4-difluorobenzene	9.93	114	65121	1.00	ppb	0.00
44) Chlorobenzene-d5	14.83	117	54966	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	28569	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH102004.D AO14_1UG.M Tue Nov 09 15:03:47 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102004.D Vial: 5
Acq On : 20 Oct 2010 2:33 pm Operator: RJP
Sample : AMB1UG-102010 Inst : MSD #1
Misc : AMB1UG-102010 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 27 12:11 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-102010 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 3988
Client ID: ZZZZZ Batch ID: R3988 TestNo: TO-15 Analysis Date: 10/20/2010 SeqNo: 48525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	1.150	0.15	1	0	115	70	130				
1,1,2-Trichloroethane	1.140	0.15	1	0	114	70	130				
1,1-Dichloroethane	1.140	0.15	1	0	114	70	130				
1,1-Dichloroethene	1.210	0.15	1	0	121	70	130				
1,2,4-Trichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2,4-Trimethylbenzene	1.070	0.15	1	0	107	70	130				
1,2-Dibromoethane	1.160	0.15	1	0	116	70	130				
1,2-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,2-Dichloroethane	1.140	0.15	1	0	114	70	130				
1,2-Dichloropropane	1.170	0.15	1	0	117	70	130				
1,3,5-Trimethylbenzene	1.090	0.15	1	0	109	70	130				
1,3-butadiene	1.100	0.15	1	0	110	70	130				
1,3-Dichlorobenzene	1.070	0.15	1	0	107	70	130				
1,4-Dichlorobenzene	1.060	0.15	1	0	106	70	130				
1,4-Dioxane	0.8500	0.30	1	0	85.0	70	130				
2,2,4-trimethylpentane	1.140	0.15	1	0	114	70	130				
4-ethyltoluene	1.050	0.15	1	0	105	70	130				
Acetone	1.260	0.30	1	0	126	70	130				
Allyl chloride	1.180	0.15	1	0	118	70	130				
Benzene	1.120	0.15	1	0	112	70	130				
Benzyl chloride	1.120	0.15	1	0	112	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.200	0.15	1	0	120	70	130				
Bromomethane	1.160	0.15	1	0	116	70	130				
Carbon disulfide	1.160	0.15	1	0	116	70	130				
Carbon tetrachloride	1.170	0.15	1	0	117	70	130				
Chlorobenzene	1.120	0.15	1	0	112	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Page 155 of 172

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102010	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48525

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	1.110	0.15	1	0	111	70	130				
Chloromethane	1.270	0.15	1	0	127	70	130				
cis-1,2-Dichloroethene	1.110	0.15	1	0	111	70	130				
cis-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Cyclohexane	1.150	0.15	1	0	115	70	130				
Dibromochloromethane	1.210	0.15	1	0	121	70	130				
Ethyl acetate	1.060	0.25	1	0	106	70	130				
Ethylbenzene	1.140	0.15	1	0	114	70	130				
Freon 11	1.190	0.15	1	0	119	70	130				
Freon 113	1.230	0.15	1	0	123	70	130				
Freon 114	1.220	0.15	1	0	122	70	130				
Freon 12	1.100	0.15	1	0	110	70	130				
Heptane	1.100	0.15	1	0	110	70	130				
Hexachloro-1,3-butadiene	1.090	0.15	1	0	109	70	130				
Hexane	1.100	0.15	1	0	110	70	130				
Isopropyl alcohol	1.000	0.15	1	0	100	70	130				
m&p-Xylene	2.330	0.30	2	0	116	70	130				
Methyl Butyl Ketone	1.020	0.30	1	0	102	70	130				
Methyl Ethyl Ketone	1.080	0.30	1	0	108	70	130				
Methyl Isobutyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl tert-butyl ether	1.130	0.15	1	0	113	70	130				
Methylene chloride	1.250	0.15	1	0	125	70	130				
o-Xylene	1.180	0.15	1	0	118	70	130				
Propylene	1.130	0.15	1	0	113	70	130				
Styrene	1.110	0.15	1	0	111	70	130				
Tetrachloroethylene	1.100	0.15	1	0	110	70	130				
Tetrahydrofuran	1.080	0.15	1	0	108	70	130				
Toluene	1.140	0.15	1	0	114	70	130				
trans-1,2-Dichloroethene	1.220	0.15	1	0	122	70	130				
trans-1,3-Dichloropropene	1.150	0.15	1	0	115	70	130				
Trichloroethene	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

CLIENT: FPM Group
Work Order: C1010037
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-102010	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	3988	
Client ID:	ZZZZZ	Batch ID:	R3988	TestNo:	TO-15			Analysis Date:	10/20/2010	SeqNo:	48525	

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.100	0.15	1	0	110	70	130				
Vinyl Bromide	1.220	0.15	1	0	122	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102003.D Vial: 4
Acq On : 20 Oct 2010 2:02 pm Operator: RJP
Sample : ALCS1UG-102010 Inst : MSD #1
Misc : ALCS1UG-102010 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:22:52 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.59	128	19444	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.92	114	65143	1.00	ppb		0.00
44) Chlorobenzene-d5	14.83	117	54669	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	29794	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	8578	1.13	ppb		96
3) Freon 12	2.92	85	66258	1.10	ppb		100
4) Chloromethane	3.06	50	14956	1.27	ppb		98
5) Freon 114	3.06	85	43414	1.22	ppb		98
6) Vinyl Chloride	3.19	62	13128	1.18	ppb		99
7) 1,3-butadiene	3.27	39	7662	1.10	ppb		98
8) Bromomethane	3.51	94	14631	1.16	ppb		98
9) Chloroethane	3.63	64	4962	1.19	ppb		95
10) Vinyl Bromide	3.88	106	16241	1.22	ppb		94
11) Freon 11	4.08	101	47038	1.19	ppb		100
12) Acetone	4.23	58	4100	1.26	ppb		87
13) Isopropyl alcohol	4.34	45	8163	1.00	ppb		99
14) 1,1-dichloroethene	4.67	96	14335	1.21	ppb		98
15) Freon 113	4.85	101	32161	1.23	ppb		98
16) Methylene chloride	5.07	84	12112	1.25	ppb		96
17) Allyl chloride	5.06	41	11046	1.18	ppb		98
18) Carbon disulfide	5.19	76	35409	1.16	ppb		99
19) trans-1,2-dichloroethene	5.90	61	23122	1.22	ppb		99
20) methyl tert-butyl ether	5.97	73	35231	1.13	ppb		96
21) 1,1-dichloroethane	6.29	63	31099	1.14	ppb		98
22) Vinyl acetate	6.32	43	20591	1.10	ppb		96
23) Methyl Ethyl Ketone	6.81	43	25041	1.08	ppb		88
24) cis-1,2-dichloroethene	7.17	61	23044	1.11	ppb		97
25) Hexane	6.80	41	13411	1.10	ppb	#	77
26) Ethyl acetate	7.39	43	17469	1.06	ppb		96
27) Chloroform	7.76	83	48452	1.11	ppb		99
28) Tetrahydrofuran	7.95	42	8754	1.08	ppb		96
29) 1,2-dichloroethane	8.84	62	29178	1.14	ppb		98
31) 1,1,1-trichloroethane	8.53	97	47434	1.17	ppb		99
32) Cyclohexane	9.23	56	17649	1.15	ppb		93
33) Carbon tetrachloride	9.18	117	55599	1.17	ppb		100
34) Benzene	9.14	78	47351	1.12	ppb		98
35) 1,4-dioxane	11.00	88	4275	0.85	ppb		97
36) 2,2,4-trimethylpentane	10.11	57	50985	1.14	ppb		97
37) Heptane	10.53	43	16631	1.10	ppb		100
38) Trichloroethene	10.62	130	29772	1.07	ppb		98
39) 1,2-dichloropropane	10.74	63	17278	1.17	ppb		98
40) Bromodichloromethane	11.14	83	52035	1.20	ppb		99
41) cis-1,3-dichloropropene	12.05	75	22029	1.13	ppb		99
42) trans-1,3-dichloropropene	12.86	75	19317	1.15	ppb		100
43) 1,1,2-trichloroethane	13.17	97	23786	1.14	ppb		98
45) Toluene	12.90	92	31629	1.14	ppb		99
46) Methyl Isobutyl Ketone	12.02	43	11838	0.90	ppb		95

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102003.D Vial: 4
Acq On : 20 Oct 2010 2:02 pm Operator: RJP
Sample : ALCS1UG-102010 Inst : MSD #1
Misc : ALCS1UG-102010 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 14:22:52 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

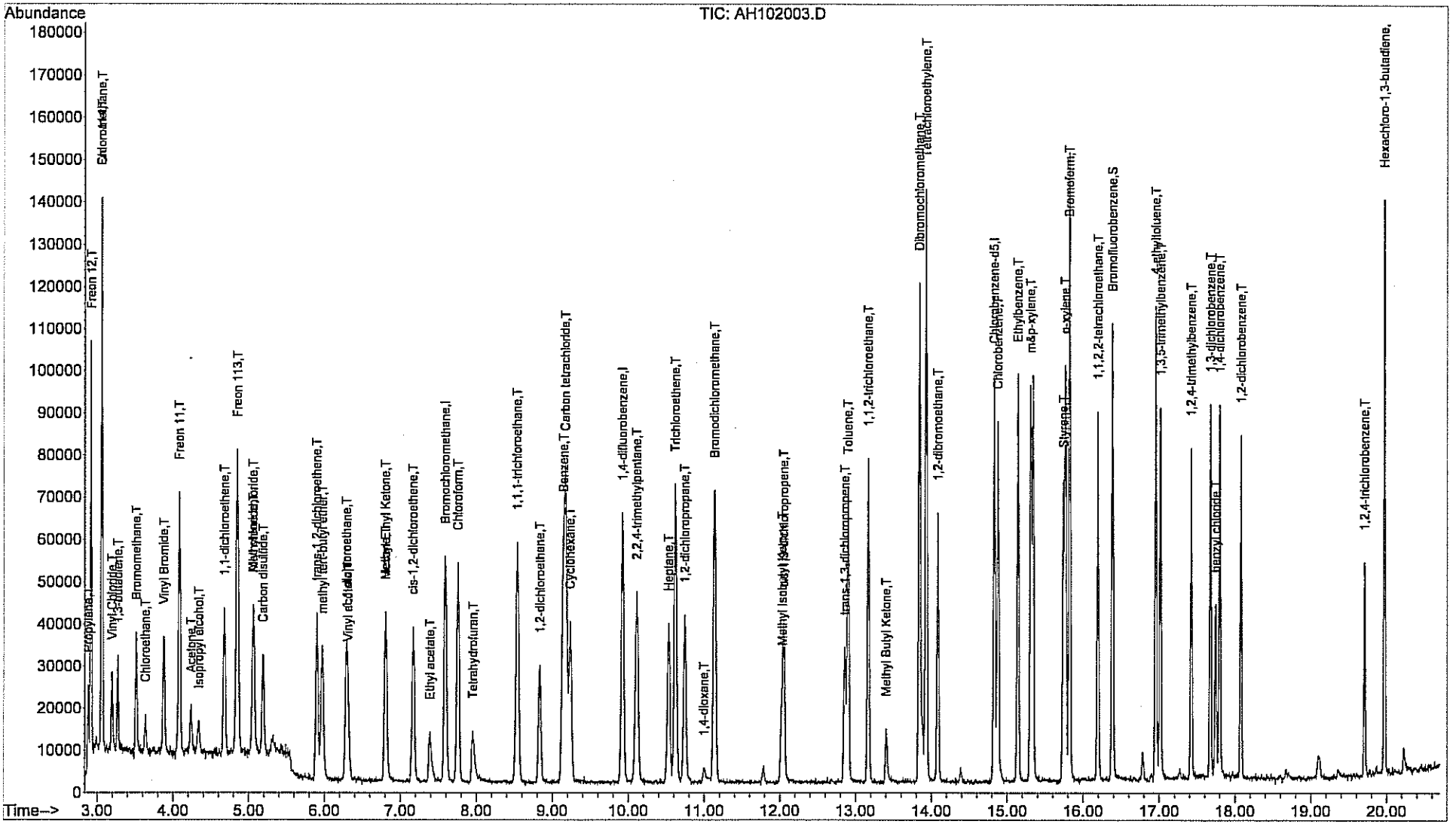
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	63617	1.21	ppb	100
48)	Methyl Butyl Ketone	13.40	43	8838	1.02	ppb	94
49)	1,2-dibromoethane	14.08	107	38676	1.16	ppb	99
50)	Tetrachloroethylene	13.93	164	30026	1.10	ppb	100
51)	Chlorobenzene	14.87	112	47090	1.12	ppb	99
52)	Ethylbenzene	15.14	91	62424	1.14	ppb	98
53)	m&p-xylene	15.31	91	100752	2.33	ppb	100
54)	Styrene	15.74	104	32261	1.11	ppb	96
55)	Bromoform	15.82	173	64172	1.20	ppb	99
56)	o-xylene	15.76	91	52973	1.18	ppb	96
58)	1,1,2,2-tetrachloroethane	16.19	83	36206	1.15	ppb	100
59)	4-ethyltoluene	16.95	105	62303	1.05	ppb	97
60)	1,3,5-trimethylbenzene	17.01	105	44429	1.09	ppb	98
61)	1,2,4-trimethylbenzene	17.42	105	36981	1.07	ppb	97
62)	1,3-dichlorobenzene	17.67	146	32149	1.07	ppb	100
63)	benzyl chloride	17.74	91	22646	1.12	ppb	96
64)	1,4-dichlorobenzene	17.80	146	31527	1.06	ppb	98
65)	1,2-dichlorobenzene	18.08	146	28077	1.07	ppb	97
66)	1,2,4-trichlorobenzene	19.71	180	11607	1.07	ppb	96
67)	Hexachloro-1,3-butadiene	19.97	225	18625	1.09	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH102003.D Vial: 4
Acq On : 20 Oct 2010 2:02 pm Operator: RJP
Sample : ALCS1UG-102010 Inst : MSD #1
Misc : ALCS1UG-102010 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 20 13:22 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 09 15:02:01 2010
Response via : Initial Calibration



GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8112
Standard Stock #(s) 8113
LCS Stock #(s) 8114
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	AH101902	-		A014-1UG		10/19/10	0938		
	A1UG-1.0	03	-							
	AMBIUG-101910	04	-							
	IDL1UG #1	10	-							
	2	11	-							
	3	12	-							
	4	13	-							
	5	14	-							
	6	15	-							
	7	16	-							
	BLK	17	-					0727		
	BFBIUG	AH102001	-	-	A014-1UG		10/20/10	~~1055~~	1109	
	A1UG-1.0	02	-	200						
	ALCS1UG-102010	03	-							
	AMBIUG ↓	04	-							
	WAC102010 B	06	-							
	C	07	-							
	D	08	-							
	E	09	-							
	F	10	-							
	C1010037-005	11	-							
	004	12	-							
	001	13	-							
	002	14	-							
	003	15	-	↓						
	004 DL	16	10	20 (9)*						
	003	19	↓	↓			10/21/10	0004		
	↓ ↓	21	180	10	↓		↓	1055		

Analyzed by: _____

* DL IN CAN

Page No: 3

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15IUT IS^A	6112	50ppb	0.5psig	30psia	1 ppb	MD	
6118	11/12/08	11/09	TO15 IS	AB-253	1 ppm	SPECTRA GASES			mp	RECENT 3/11/10 7140A+B
6119	↓	↓	TO15 SUBSET	AB-2274	↓	↓	↓	↓	↓	↓
6120	↓	↓	TO14 MIX	AB-2238	↓	↓	↓	↓	↓	↓
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psig	30psia	50 ppb	mp	
6122	↓	↓	↓ STD	4192/4193	↓	↓	↓	↓	↓	
6123	↓	↓	↓ LCS	2056/2057	↓	↓	↓	↓	↓	
6124	↓	↓	TO15IUT IS^A	6121	50ppb	0.5psig	45psia	1ppb	↓	
6125	↓	↓	↓ STD^A	6122	↓	↓	↓	↓	↓	
6126	↓	↓	↓ LCS	6123	↓	↓	↓	↓	↓	
6127	11/15/08	↓	TO15IUT IS^A	6121	50 ppb	0.5psig	45psia	1ppb	↓	
6128	11/17/08	11/21/08	TO15IUT IS^B	6121	↓	↓	↓	↓	↓	
6129	↓	↓	↓ STD^B	6122	↓	↓	↓	↓	↓	
6130	↓	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6131	11/18/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6132	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	
6133	11/19/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6134	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	

Centek Laboratories,LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	TO15IVT IS[A]	7352	50ppb	0.9psiA	45psiA	1ppb	mf	
7366	8/31/09	9/10	TO15 IS	060503-003	1ppm	SCOTT GASES		1ppm	mf	
7367	8/31/09	9/6/09	TO15 IS	7366	1ppm	1.5psiG	30psiA	50ppb	mf	
7368	↓	↓	STD	6119/20	↓	↓	↓	↓		
7369			LCS	6192/93						
7370			SIL/SUL	6194						
7371			TO15IVT IS[A]	7367	50ppb	0.9psiG	45psiA	1ppb		
7372			STD[A]	7368						
7373			LCS	7369						
7374	9/1/09		TO15IVT IS[A]	7367						
7375	9/2/09	↓	↓	↓	↓	↓	↓	↓		
7376	9/1/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psiG	45psiA	1ppb	I.L.	
7377	↓	↓	STD[B]	7368	↓	↓	↓	↓	↓	
7378	9/2/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psiG	45psiA	1ppb	I.L.	
7379	9/2/09	9/6/09	↓ IS[A]	7367	↓	↓	↓	↓	I.L.	
7380	9/3/09	9/10/09	TO15 IS	7366	1ppm	1.5psiG	30psiA	50ppb	I.L.	
7381	9/3/09	9/10/09	TO15IVT IS[A]	7380	50ppb	0.9psiG	45psiA	1ppb	I.L.	
7382	9/3/09	9/10/09	↓ IS[B]	7380	↓	↓	↓	↓	↓	
7382A	8/31/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psiG	45psiA	1ppb	I.L.	
7382B	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IVT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IVT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IVT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IVT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 216304	% VARIES	10L	MATHESON TRI-GAS		MD	
7620	1/25/10	2/1/10	TO15 ~~IVT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621			STD(A)	7617/7618 7384						
7622	↓	↓	LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IVT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624			STD(A)	7621						
7625			LCS	7622						
7626	↓	↓	IS(B)	7620	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8097	10/11/10	10/18/10	TO15 FORM	7068	36.5%	1.1ul	50psig	10ppm	I.L.	
8098	↓	↓	↓ FORM50	8097	10ppm	0.23psig	45psia	50ppb	↓	
8099	10/11/10	10/18/10	TO15IUGIS (A)	8092	50ppb	0.9psig	45psia	1ppb	M	
8100	↓	↓	↓ STD (A)	8093	↓	↓	↓	↓	↓	
8101	↓	↓	↓ LCS	8094	↓	↓	↓	↓		
8102	10/12/10	10/18/10	TO15IUGIS (B)	8092	50ppb	0.9psig	45psia	1ppb	I.L.	
8103	↓	↓	↓ STD (B)	8093	↓	↓	↓	↓	↓	
8104	10/13/10	10/18/10	TO15IS	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
8105	10/13/10	10/18/10	TO15IUGIS (B)	8104	50ppb	0.9psig	45psia	1ppb	I.L.	
8106	10/18/10	10/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.L.	
8107	↓	↓	↓ STD	7617/7618	↓	↓	↓	↓	↓	
8108	↓	↓	↓ LCS	7740/7741	↓	↓	↓	↓		
8109	10/12/10	10/25/10	TO15 4PCH	7384	1ppm	1.5psig	30psia	50ppb	I.L.	
8110	↓	↓	↓ FORM	7068	36.5%	1.1ul	50psig	10ppm	↓	
8111	↓	↓	↓ FORM 50	8110	10ppm	0.23psig	45psia	50ppb		
8112	10/18/10	10/25/10	TO15IUGIS (A)	8106	50ppb	0.9psig	45psia	1ppb	M	
8113	↓	↓	↓ STD (A)	8107	↓	↓	↓	↓	R	
8114	↓	↓	↓ LCS	8108	↓	↓	↓	↓		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
157	165	30	10/04/10	WAC100410B	ug/m3 ± 0.25	+ 30	+ 30
274	↓	↓	↓	↓	TCE, C.T, VNC.1	+ ↓	+ ↓
207					↓	+	+
348						+	+
165	↓			↓		+	+
83	367			WAC100410C		+	+
413	↓			↓		+	+
333						+	+
463						+	+
367	↓			↓		+	+
282	416			WAC100410D		+	+
95	↓			↓		+	+
231						+	+
225						+	+
416	↓	↓	↓	↓	↓	+ ↓	+ ↓
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L

Page # 87

Centek Laboratories,LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH100406.D Vial: 6
Acq On : 4 Oct 2010 3:37 pm Operator: RJP
Sample : WAC1UG-100410B Inst : MSD #1
Misc : WAC1UG-100410 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 04 15:58:24 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.67	128	43482	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	130472	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	107524	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	41235	0.86	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 86.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH100406.D A928_1UT.M Tue Dec 07 11:39:19 2010 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH100407.D Vial: 7
Acq On : 4 Oct 2010 4:09 pm Operator: RJP
Sample : WAC1UG-100410C Inst : MSD #1
Misc : WAC1UG-100410 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 04 16:30:03 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	39346	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	111805	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	80673	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	30676	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH100408.D Vial: 8
Acq On : 4 Oct 2010 4:42 pm Operator: RJP
Sample : WAC1UG-100410D Inst : MSD #1
Misc : WAC1UG-100410 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Oct 04 17:02:58 2010 Quant Results File: A928_1UT.RES

Quant Method : C:\HPCHEM\1\METHODS\A928_1UT.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Wed Sep 29 10:57:26 2010
Response via : Initial Calibration
DataAcq Meth : A928_1UT

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.66	128	42010	1.00	ppb	0.00
30) 1,4-difluorobenzene	10.00	114	125502	1.00	ppb	0.00
44) Chlorobenzene-d5	14.88	117	99209	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.43	95	36862	0.83	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 83.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH100408.D A928_1UT.M Tue Dec 07 11:39:23 2010 MSD1 Page 1

TO-15 Package Review Checklist

Client: FPM Group Project: B785 SSVM Sampling SDG: C1012005

		YES	NO	NA
Analytical Results	Present and Complete	✓	—	—
TIC's present	Present and Complete	✓	—	—
	Holding Times Met	✓	—	—

Comments:

Chain-of-Custody	Present and Complete	✓	—	—
Surrogate Recovery	Present and Complete	✓	—	—
	Recoveries within limits	—	—	—
	Sample(s) reanalyzed	—	✓	—
Internal Standards Recovery	Present and Complete	✓	—	—
	Recoveries within limits	✓	—	—
	Sample(s) reanalyzed	—	✓	—

Comments:

Lab Control Sample (LCS)	Present and Complete	✓	—	—
	Recoveries within limits	✓	—	—
Lab Control Sample Dupe (LCSD)	Present and Complete	✓	—	—
	Recoveries within limits	—	✓	—
MS/MSD	Present and Complete	—	—	✓
	Recoveries within limits	—	—	✓

Comments: * SEE CASE NARRATIVE *
* NO MS/MSD *

Sample Raw Data	Present and Complete	✓	—	—
	Spectra present for all samples	✓	—	—

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B785 SSVM Sampling SDG: C1012005

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓	—	—
	Calibration(s) met criteria	✓	—	—
Continuing Calibration Summary	Present and Complete	✓	—	—
	Calibration(s) met criteria	✓	—	—
Standards Raw Data	Present and Complete	✓	—	—

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓	—	—
Method Blank Data	MB Results <PQL	✓	—	—
	Associated results flagged "B"	—	—	✓
LCS sample data	Present and Complete	✓	—	—
LCSD sample data	Present and Complete	✓	—	—
MS/MSD sample data	Present and Complete	✓	—	—

Comments:

Logbooks

Injection Log	Present and Complete	✓	—	—
Standards Log	Present and Complete	✓	—	—
Can Cleaning Log	Present and Complete	✓	—	—
	Raw Data Present	✓	—	—
Calculation sheet	Present and Complete	✓	—	—
IDL's	Present and Complete	✓	—	—
Bottle Order Form	Present and Complete	✓	—	—
Sample Tracking Form	Present and Complete	✓	—	—

Additional Comments:

Section Supervisor: _____ Date: 1/20/11

QC Supervisor: _____ Date: 1/20/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752

www.CentekLabs.com

Analytical Report

NYSDOH ELAP
Certificate No. 11830

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Friday, December 10, 2010
Order No.: C1012005

RE: B785 SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 4 sample(s) on 12/3/2010 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

Centek Laboratories performs all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services. Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell J. Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and

all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

ASP CAT B LIKE DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking History

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. QC Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form I and (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
   a. Tuning Data

11. Raw QC Data
   a. Method Blank
   b. LCS
   c. MS/MSD

12. Log Books
   a. Injection Log Book
   b. Standards Log Book
   c. QC Canister Log Book

Centek Laboratories

Date: *19-Jan-11*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1012005

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2060] LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 07-Dec-10 **Corrective Action Report ID:** 2060

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-120710 did not meet criteria for several RPD's and % recoveries. The compounds in question were more sensitive. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the compounds in question and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 08-Dec-10

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino **Close Date:** 09-Dec-10

QA Officer Approval: Nick Scala **QA Date:** 08-Dec-10

Last Updated BY LEO Updated: 19-Jan-2011 4:46 PM Reported 19-Jan-2011 4:46 PM

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina J. Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2010	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt/UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
785VMP0102AC	785VMP-01	12/2	1420	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 241 PID = 0 ppb
785VMP0202AC	785VMP-02	12/2	1415	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 131 PID = 0 ppb
785VMP0302AC	785VMP-03	12/2	1410	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 325 PID = 0 ppb
Trip Blank	Trip Blank	12/2	1405	GS	AC	0/0	TB	-	Unf.	1	1	1	Canister # 201

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) K. Mattice	Date: 12/2/10	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1715	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 11/30/10	#2 Received by: (Sig)	Date:	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1100	Company Name: Centek Labs	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

C1002005

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name: FPM-ROME | Date and Time Received: 12/3/2010

Work Order Number C1012005 | Received by: DL

Checklist completed by: [signature] Signature | 12/3/10 Date | Reviewed by: MJ Initials | 12/3/10 Date

Matrix: | Carrier name: FedEx

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Present ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Present ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Present ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked by _____

Any No and/or NA (not applicable) response must be detailed in the comments section below.

Client contacted: _____ Date contacted: _____ Person contacted: _____

Contacted by: _____ Regarding: _____

Comments: Analyses to be completed in compliance w/ AFCEE QAPP 4.0

Corrective Action: _____

Centek Laboratories, LLC

Date: *19-Jan-11*

CLIENT: FPM Group
Project: B785 SSVM Sampling
Lab Order: C1012005

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1012005-001A	785VMP0102AC	241	12/2/2010	12/3/2010
C1012005-002A	785VMP0202AC	131	12/2/2010	12/3/2010
C1012005-003A	785VMP0302AC	325	12/2/2010	12/3/2010
C1012005-004A	Trip Blank	201	12/2/2010	12/3/2010

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1012005-001A	Login	12/3/2010 1:54:38 PM	russ	Sample Log In
C1012005-004A	Login	12/3/2010 1:56:11 PM	russ	Sample Log In
C1012005-003A	Login	12/3/2010 1:56:11 PM	russ	Sample Log In
C1012005-002A	Login	12/3/2010 1:56:11 PM	russ	Sample Log In
C1012005-001A	Transfer	12/7/2010 3:08:45 PM	ADM	GC/MS Lab
C1012005-002A	Transfer	12/7/2010 3:08:45 PM	ADM	GC/MS Lab
C1012005-003A	Transfer	12/7/2010 3:08:45 PM	ADM	GC/MS Lab
C1012005-004A	Transfer	12/7/2010 3:08:45 PM	ADM	GC/MS Lab
C1012005-002A	Mark as Consumed	12/9/2010 4:41:50 PM	ADM	Consumed
C1012005-001A	Mark as Consumed	12/9/2010 4:41:50 PM	ADM	Consumed
C1012005-004A	Mark as Consumed	12/9/2010 4:41:50 PM	ADM	Consumed
C1012005-003A	Mark as Consumed	12/9/2010 4:41:50 PM	ADM	Consumed

Centek Laboratories, LLC
143 Midler Park Drive
Syracuse, NY 13206
TEL: *3154319730* FAX: *3154319731*

BOTTLE ORDER

2067

19-Jan-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 11/23/2010
VIA: FedEx
Due Date: 11/29/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/m3 w/ 0.25ug/M3 TCE by Metho	4

Can / Reg ID	Description
131	1L Mini-Can - 1079
201	1L Mini-Can - 1156
241	1L Mini-Can - 1173
358	1L Mini-Can - 1307

Comments: 3 (1L) w/ QG + gauge +Trip Blank we won't charge for shipping WAC 110910 G-I

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		**FLD**				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Acetone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	12/7/2010 6:59:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 6:59:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 11	0.23	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 113	0.13	0.15	J	ppbV	1	12/7/2010 6:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 12	0.48	0.15		ppbV	1	12/7/2010 6:59:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Tetrahydrofuran	0.57	0.15		ppbV	1	12/7/2010 6:59:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Trichloroethene	1.1	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:59:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 6:59:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 6:59:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 6:59:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
Acetone	< 0.72	0.72		ug/m3	1	12/7/2010 6:59:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 6:59:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 6:59:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 6:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 6:59:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 6:59:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	12/7/2010 6:59:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 6:59:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 6:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 6:59:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 6:59:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 6:59:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 6:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 6:59:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 6:59:00 PM
Freon 11	1.3	0.86		ug/m3	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	1.0	1.2	J	ug/m3	1	12/7/2010 6:59:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
Freon 12	2.4	0.75		ug/m3	1	12/7/2010 6:59:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 6:59:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 6:59:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 6:59:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 6:59:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 6:59:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 6:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 6:59:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 6:59:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
Tetrahydrofuran	1.7	0.45		ug/m3	1	12/7/2010 6:59:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 6:59:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:59:00 PM
Trichloroethene	6.0	0.82		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Acetone	0.47	0.30		ppbV	1	12/7/2010 7:31:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 7:31:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 11	0.21	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 113	0.13	0.15	J	ppbV	1	12/7/2010 7:31:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 12	0.47	0.15		ppbV	1	12/7/2010 7:31:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Trichloroethene	2.7	1.5		ppbV	10	12/7/2010 9:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 7:31:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 7:31:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 7:31:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 7:31:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 7:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
Acetone	1.1	0.72		ug/m3	1	12/7/2010 7:31:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 7:31:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 7:31:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 7:31:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 7:31:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 7:31:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	12/7/2010 7:31:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 7:31:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 7:31:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 7:31:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 7:31:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 7:31:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 7:31:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 7:31:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 7:31:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 7:31:00 PM
Freon 11	1.2	0.86		ug/m3	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.0	1.2	J	ug/m3	1	12/7/2010 7:31:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
Freon 12	2.4	0.75		ug/m3	1	12/7/2010 7:31:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 7:31:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 7:31:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 7:31:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 7:31:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 7:31:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 7:31:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 7:31:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 7:31:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 7:31:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 7:31:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 7:31:00 PM
Trichloroethene	15	8.2		ug/m3	10	12/7/2010 9:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 7:31:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 7:31:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Acetone	0.44	0.30		ppbV	1	12/7/2010 8:02:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	12/7/2010 8:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
cis-1,2-Dichloroethene	0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 8:02:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 11	0.22	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 113	0.14	0.15	J	ppbV	1	12/7/2010 8:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 12	0.49	0.15		ppbV	1	12/7/2010 8:02:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Trichloroethene	31	1.5		ppbV	10	12/7/2010 9:34:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Surr: Bromofluorobenzene	106	70-130		%REC	1	12/7/2010 8:02:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 8:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 8:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 8:02:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 8:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 8:02:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
Acetone	1.1	0.72		ug/m3	1	12/7/2010 8:02:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 8:02:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 8:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 8:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 8:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 8:02:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	12/7/2010 8:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 8:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 8:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 8:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 8:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 8:02:00 PM
cis-1,2-Dichloroethene	0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 8:02:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 8:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 8:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 8:02:00 PM
Freon 11	1.3	0.86		ug/m3	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.1	1.2	J	ug/m3	1	12/7/2010 8:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
Freon 12	2.5	0.75		ug/m3	1	12/7/2010 8:02:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 8:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 8:02:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 8:02:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 8:02:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 8:02:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 8:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 8:02:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 8:02:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 8:02:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 8:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 8:02:00 PM
Trichloroethene	170	8.2		ug/m3	10	12/7/2010 9:34:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 8:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 8:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Acetone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 6:28:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 11	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 113	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 12	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:28:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:28:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 6:28:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 6:28:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 6:28:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
Acetone	< 0.72	0.72		ug/m3	1	12/7/2010 6:28:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 6:28:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 6:28:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 6:28:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 6:28:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 6:28:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	12/7/2010 6:28:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 6:28:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 6:28:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 6:28:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 6:28:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 6:28:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:28:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 6:28:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 6:28:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 6:28:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 113	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 6:28:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 6:28:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 6:28:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 6:28:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 6:28:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 6:28:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 6:28:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 6:28:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 6:28:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 6:28:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:28:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Centek Laboratories, LLC

Date: 15-Jan-11

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling
Test No: TO-15 **Matrix:** A

QC SUMMARY REPORT
SURROGATE RECOVERIES

Sample ID	BR4FBZ							
ALCS1UG-120710	109							
ALCS1UGD-120710	115							
AMB1UG-120710	95.0							
C1012005-001A	97.0							
C1012005-002A	99.0							
C1012005-003A	106							
C1012005-004A	92.0							

Acronym		Surrogate	QC Limits
BR4FBZ	=	Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

Tune File : C:\HPCHEM\1\DATA\AH120703.D
Tune Time : 7 Dec 2010 2:12 pm

Daily Calibration File : C:\HPCHEM\1\DATA\AH120703.D

	(BFB)		(IS1)	(IS2)	(IS3)
			20719	68654	59479
File	Sample	Surrogate Recovery %	Internal Standard Responses		
AH120704.D	ALCS1UG-12071	109	21203	68016	60551
AH120705.D	AMB1UG-120710	95	20234	63242	53815
AH120709.D	C1012005-004A	92	18597	56636	50671
AH120710.D	C1012005-001A	97	18952	55848	49432
AH120711.D	C1012005-002A	99	19720	57252	53211
AH120712.D	C1012005-003A	106	19288	58424	54133
AH120714.D	C1012005-002A	101 DL10x	19066	54122	48075
AH120715.D	C1012005-003A	97 DL10x	18805	51728	44143
AH120719.D	ALCS1UGD-1207	115	17921	52991	48630

t - fails 24hr time check * - fails criteria

Created: Sat Jan 15 12:19:46 2011 MSD #1/

Centek Laboratories, LLC

Date: *15-Jan-11*

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-120710 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4099
Client ID: ZZZZZ Batch ID: R4099 TestNo: TO-15 Analysis Date: 12/7/2010 SeqNo: 49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9800	0.15	1	0	98.0	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	1.010	0.15	1	0	101	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,2-Dichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloropropane	0.9100	0.15	1	0	91.0	70	130				
1,3,5-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,3-butadiene	0.9600	0.15	1	0	96.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	0.8300	0.30	1	0	83.0	70	130				
2,2,4-trimethylpentane	0.9300	0.15	1	0	93.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	0.9700	0.30	1	0	97.0	70	130				
Allyl chloride	1.180	0.15	1	0	118	70	130				
Benzene	0.9300	0.15	1	0	93.0	70	130				
Benzyl chloride	1.160	0.15	1	0	116	70	130				
Bromodichloromethane	0.9100	0.15	1	0	91.0	70	130				
Bromoform	0.8900	0.15	1	0	89.0	70	130				
Bromomethane	0.9200	0.15	1	0	92.0	70	130				
Carbon disulfide	1.200	0.15	1	0	120	70	130				
Carbon tetrachloride	0.8800	0.15	1	0	88.0	70	130				
Chlorobenzene	0.9200	0.15	1	0	92.0	70	130				
Chloroethane	0.9800	0.15	1	0	98.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-120710	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
cis-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	70	130				
Cyclohexane	0.9700	0.15	1	0	97.0	70	130				
Dibromochloromethane	0.8800	0.15	1	0	88.0	70	130				
Ethyl acetate	1.040	0.25	1	0	104	70	130				
Ethylbenzene	0.9200	0.15	1	0	92.0	70	130				
Freon 11	0.9400	0.15	1	0	94.0	70	130				
Freon 113	0.8900	0.15	1	0	89.0	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9000	0.15	1	0	90.0	70	130				
Hexachloro-1,3-butadiene	1.100	0.15	1	0	110	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.9200	0.15	1	0	92.0	70	130				
m&p-Xylene	1.920	0.30	2	0	96.0	70	130				
Methyl Butyl Ketone	0.9200	0.30	1	0	92.0	70	130				
Methyl Ethyl Ketone	1.040	0.30	1	0	104	70	130				
Methyl Isobutyl Ketone	0.9200	0.30	1	0	92.0	70	130				
Methyl tert-butyl ether	1.290	0.15	1	0	129	70	130				
Methylene chloride	1.280	0.15	1	0	128	70	130				
o-Xylene	0.9300	0.15	1	0	93.0	70	130				
Propylene	1.010	0.15	1	0	101	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8800	0.15	1	0	88.0	70	130				
Tetrahydrofuran	1.070	0.15	1	0	107	70	130				
Toluene	0.9300	0.15	1	0	93.0	70	130				
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130				
Trichloroethene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-120710	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.080	0.15	1	0	108	70	130				
Vinyl Bromide	0.9600	0.15	1	0	96.0	70	130				
Vinyl chloride	0.9000	0.15	1	0	90.0	70	130				

Sample ID ALCS1UGD-120710	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	70	130	0.98	8.78	30	
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130	0.95	2.08	30	
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130	0.92	12.2	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
1,1-Dichloroethene	1.310	0.15	1	0	131	70	130	0.95	31.9	30	SR
1,2,4-Trichlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.06	13.1	30	
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	1.01	6.12	30	
1,2-Dibromoethane	0.9600	0.15	1	0	96.0	70	130	0.88	8.70	30	
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130	1	0	30	
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130	0.99	7.77	30	
1,2-Dichloropropane	1.020	0.15	1	0	102	70	130	0.91	11.4	30	
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
1,3-butadiene	0.9600	0.15	1	0	96.0	70	130	0.96	0	30	
1,3-Dichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130	1	5.13	30	
1,4-Dioxane	1.200	0.30	1	0	120	70	130	0.83	36.5	30	R
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	0.93	7.25	30	
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Acetone	1.090	0.30	1	0	109	70	130	0.97	11.7	30	
Allyl chloride	1.020	0.15	1	0	102	70	130	1.18	14.5	30	
Benzene	1.040	0.15	1	0	104	70	130	0.93	11.2	30	
Benzyl chloride	1.050	0.15	1	0	105	70	130	1.16	9.95	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-120710	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	1.070	0.15	1	0	107	70	130	0.91	16.2	30	
Bromoform	0.9900	0.15	1	0	99.0	70	130	0.89	10.6	30	
Bromomethane	1.030	0.15	1	0	103	70	130	0.92	11.3	30	
Carbon disulfide	1.250	0.15	1	0	125	70	130	1.2	4.08	30	
Carbon tetrachloride	1.050	0.15	1	0	105	70	130	0.88	17.6	30	
Chlorobenzene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
Chloroethane	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Chloroform	1.020	0.15	1	0	102	70	130	0.95	7.11	30	
Chloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	0.99	3.96	30	
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130	0.95	3.11	30	
Cyclohexane	1.040	0.15	1	0	104	70	130	0.97	6.97	30	
Dibromochloromethane	0.9900	0.15	1	0	99.0	70	130	0.88	11.8	30	
Ethyl acetate	1.090	0.25	1	0	109	70	130	1.04	4.69	30	
Ethylbenzene	0.9400	0.15	1	0	94.0	70	130	0.92	2.15	30	
Freon 11	1.070	0.15	1	0	107	70	130	0.94	12.9	30	
Freon 113	1.770	0.15	1	0	177	70	130	0.89	66.2	30	SR
Freon 114	1.070	0.15	1	0	107	70	130	0.97	9.80	30	
Freon 12	1.070	0.15	1	0	107	70	130	0.99	7.77	30	
Heptane	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
Hexachloro-1,3-butadiene	1.040	0.15	1	0	104	70	130	1.1	5.61	30	
Hexane	1.010	0.15	1	0	101	70	130	1.03	1.96	30	
Isopropyl alcohol	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
m&p-Xylene	2.010	0.30	2	0	101	70	130	1.92	4.58	30	
Methyl Butyl Ketone	1.000	0.30	1	0	100	70	130	0.92	8.33	30	
Methyl Ethyl Ketone	1.150	0.30	1	0	115	70	130	1.04	10.0	30	
Methyl Isobutyl Ketone	0.9700	0.30	1	0	97.0	70	130	0.92	5.29	30	
Methyl tert-butyl ether	1.060	0.15	1	0	106	70	130	1.29	19.6	30	
Methylene chloride	1.510	0.15	1	0	151	70	130	1.28	16.5	30	S
o-Xylene	0.9600	0.15	1	0	96.0	70	130	0.93	3.17	30	
Propylene	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UGD-120710	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	0.9300	0.15	1	0	93.0	70	130	0.95	2.13	30	
Tetrachloroethylene	0.9800	0.15	1	0	98.0	70	130	0.88	10.8	30	
Tetrahydrofuran	1.030	0.15	1	0	103	70	130	1.07	3.81	30	
Toluene	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	0.98	0	30	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Trichloroethene	1.000	0.15	1	0	100	70	130	0.85	16.2	30	
Vinyl acetate	0.9600	0.15	1	0	96.0	70	130	1.08	11.8	30	
Vinyl Bromide	1.060	0.15	1	0	106	70	130	0.96	9.90	30	
Vinyl chloride	1.000	0.15	1	0	100	70	130	0.9	10.5	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories, LLC

Date: *15-Jan-11*

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID AMB1UG-120710	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-120710	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-120710	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek Laboratories, LLC

Centek Laboratories
IDL Study 1ug level

Units ppb

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\%D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Acetone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Carbon disulfide	0.12	0.15	J	ppbV	1	12/7/2010 6:59:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 6:59:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 11	0.23	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 113	0.13	0.15	J	ppbV	1	12/7/2010 6:59:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Freon 12	0.48	0.15		ppbV	1	12/7/2010 6:59:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:59:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Tetrahydrofuran	0.57	0.15		ppbV	1	12/7/2010 6:59:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Trichloroethene	1.1	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:59:00 PM
Surr: Bromofluorobenzene	97.0	70-130		%REC	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:59:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:59:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 6:59:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 6:59:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 6:59:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 6:59:00 PM
Acetone	< 0.72	0.72		ug/m3	1	12/7/2010 6:59:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 6:59:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 6:59:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 6:59:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 6:59:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 6:59:00 PM
Carbon disulfide	0.38	0.47	J	ug/m3	1	12/7/2010 6:59:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 6:59:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 6:59:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 6:59:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 6:59:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 6:59:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:59:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 6:59:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 6:59:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 6:59:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 6:59:00 PM
Freon 11	1.3	0.86		ug/m3	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0102AC
Lab Order:	C1012005	**Tag Number:**	241
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Freon 113	1.0	1.2	J	ug/m3	1	12/7/2010 6:59:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 6:59:00 PM
Freon 12	2.4	0.75		ug/m3	1	12/7/2010 6:59:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 6:59:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 6:59:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 6:59:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 6:59:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 6:59:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:59:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 6:59:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 6:59:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 6:59:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 6:59:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 6:59:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 6:59:00 PM
Tetrahydrofuran	1.7	0.45		ug/m3	1	12/7/2010 6:59:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 6:59:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:59:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:59:00 PM
Trichloroethene	6.0	0.82		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 6:59:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 6:59:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120710.D Vial: 25
Acq On : 7 Dec 2010 6:59 pm Operator: RJP
Sample : C1012005-001A Inst : MSD #1
Misc : C1012005-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 19:20:27 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

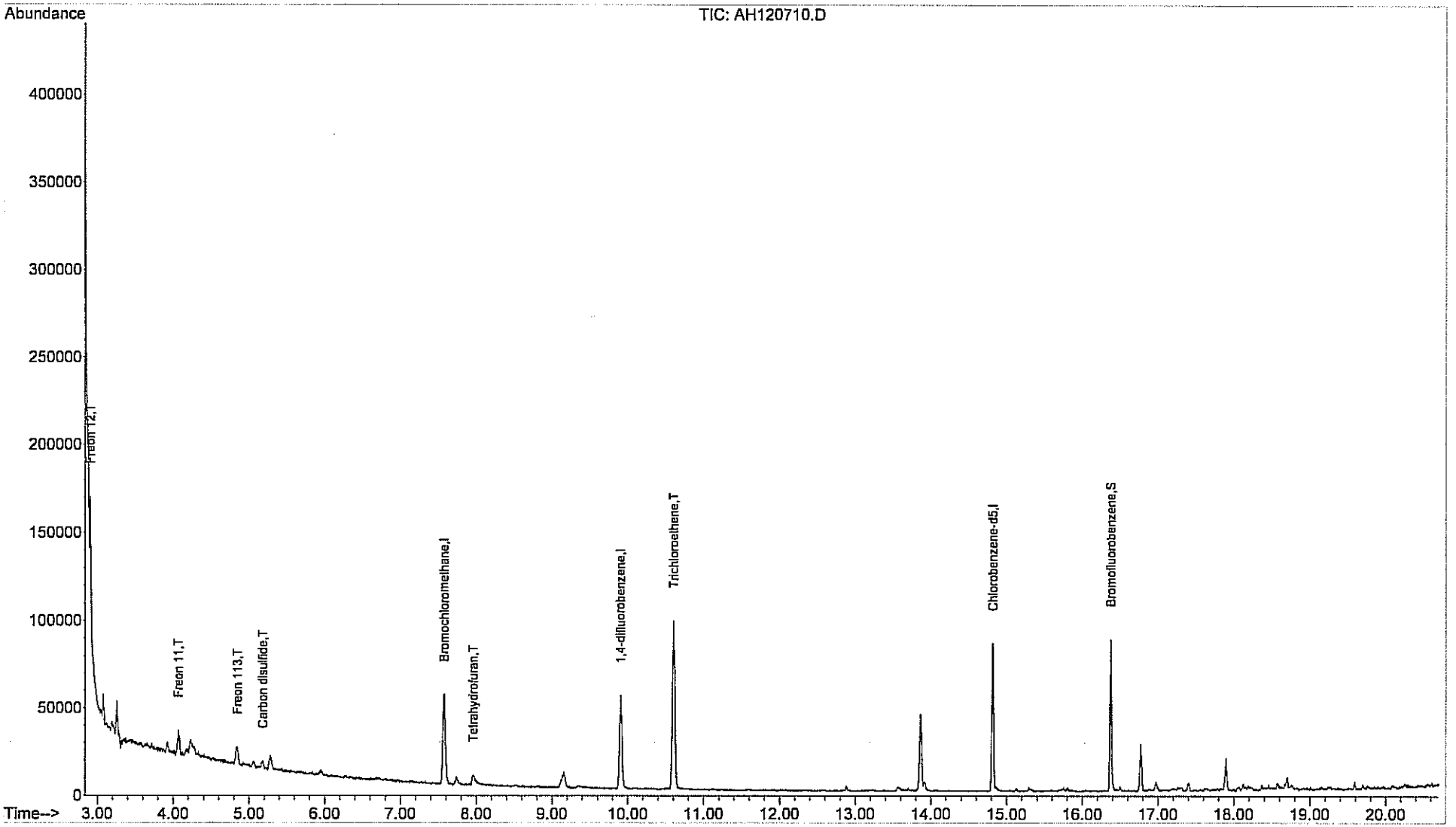
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	18952	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	55848	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	49432	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	23325	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
3) Freon 12	2.91	85	35318	0.48	ppb	98
11) Freon 11	4.07	101	9624	0.23	ppb	99
15) Freon 113	4.84	101	4281	0.13	ppb	96
18) Carbon disulfide	5.18	76	5885	0.12	ppb	99
28) Tetrahydrofuran	7.97	42	5741m	0.57	ppb	
38) Trichloroethene	10.60	130	41475	1.09	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH120710.D AN29_1UG.M Sat Jan 15 12:13:09 2011 MSD1 Page 1

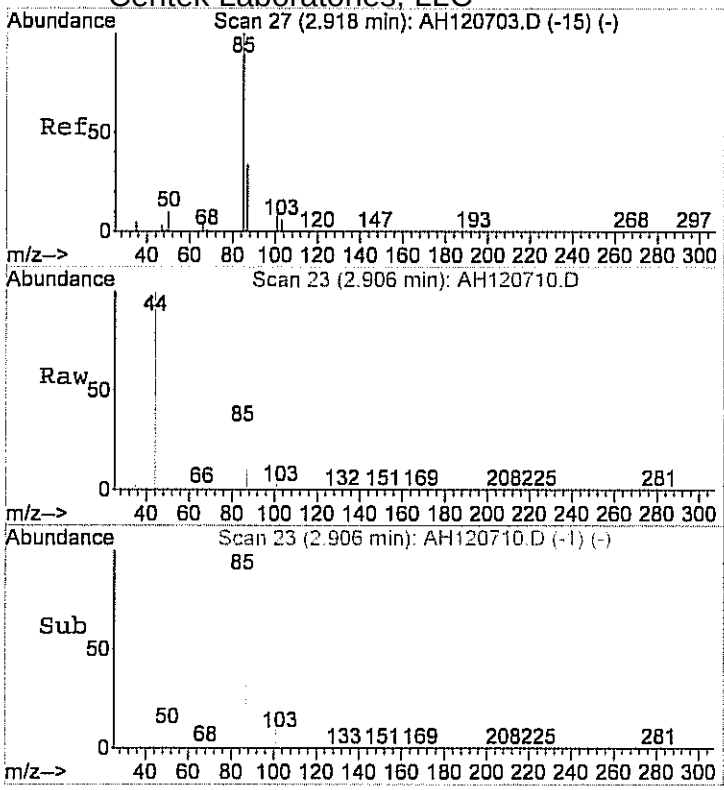
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120710.D Vial: 25
Acq On : 7 Dec 2010 6:59 pm Operator: RJP
Sample : C1012005-001A Inst : MSD #1
Misc : C1012005-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:33 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



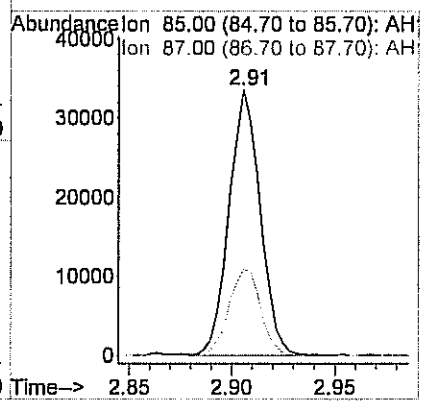
Centek Laboratories, LLC

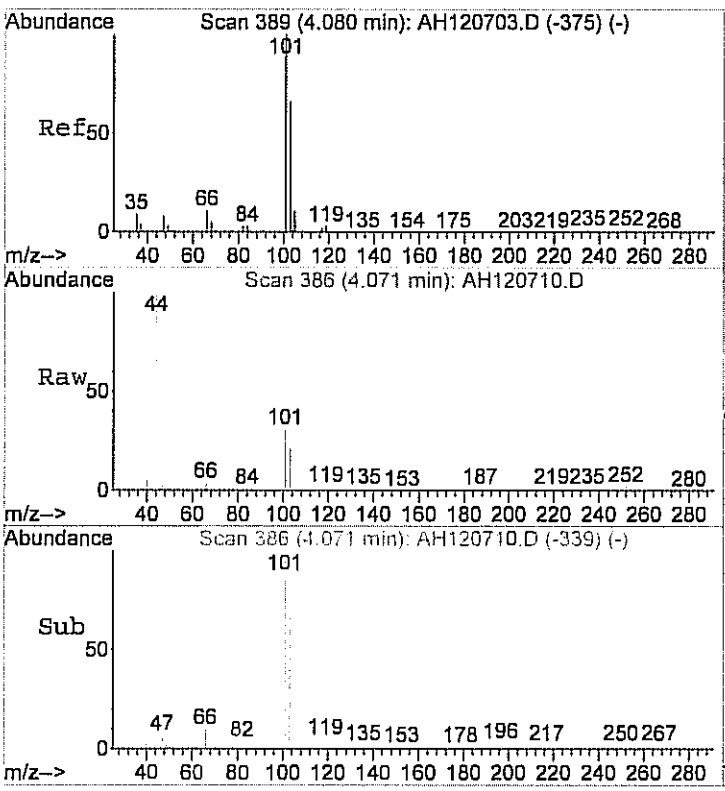


#3
Freon 12
Concen: 0.48 ppb
RT: 2.91 min Scan# 23
Delta R.T. -0.00 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion: 85 Resp: 35318

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.2	52.2

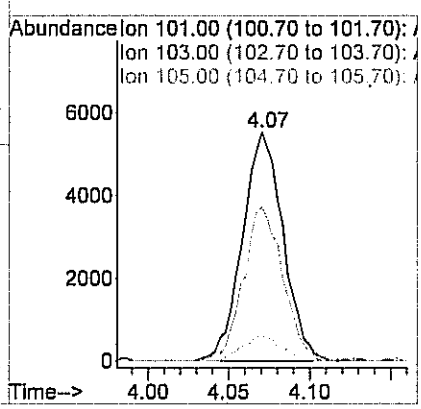


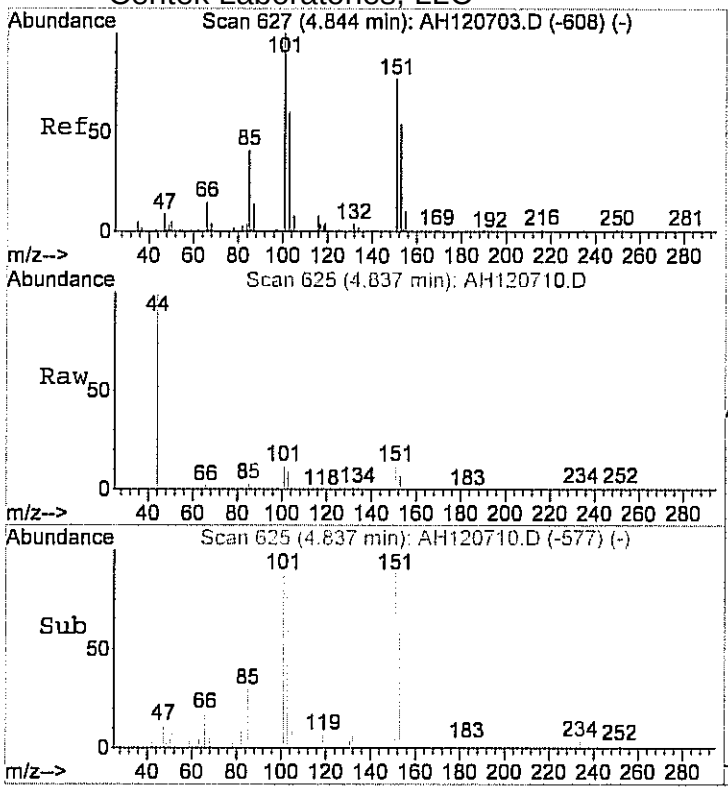


#11
Freon 11
Concen: 0.23 ppb
RT: 4.07 min Scan# 386
Delta R.T. -0.00 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion:101 Resp: 9624

Ion	Ratio	Lower	Upper
101	100		
103	65.2	46.3	86.3
105	10.4	0.0	31.0

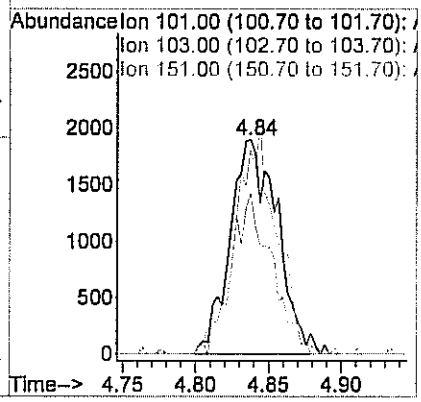


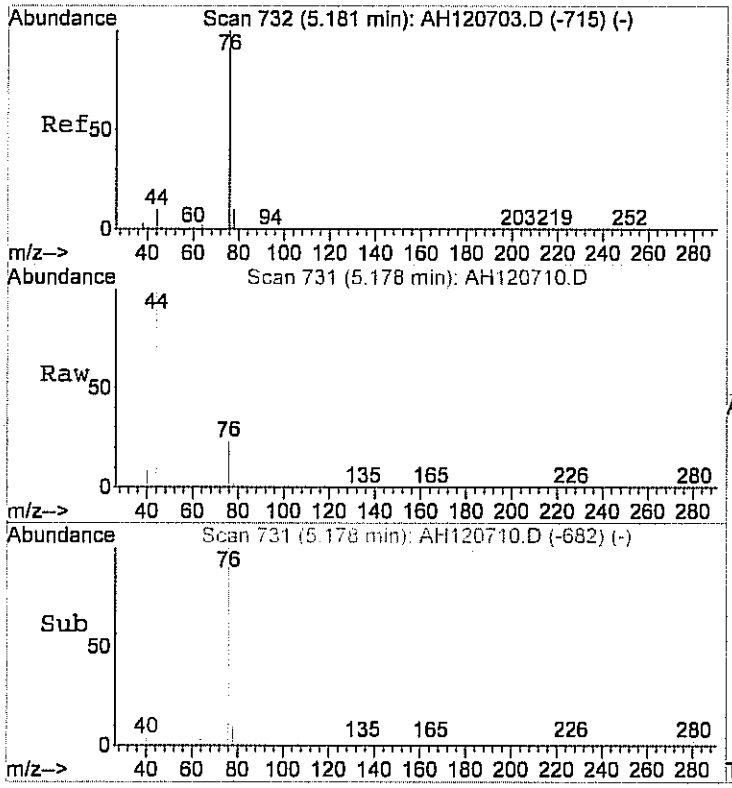


#15
Freon 113
Concen: 0.13 ppb
RT: 4.84 min Scan# 625
Delta R.T. 0.00 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion:101 Resp: 4281

Ion	Ratio	Lower	Upper
101	100		
103	63.7	44.7	84.7
151	96.4	71.0	111.0

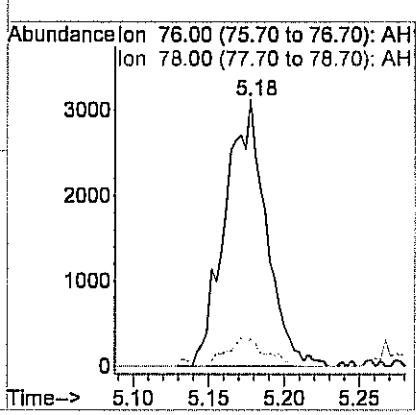


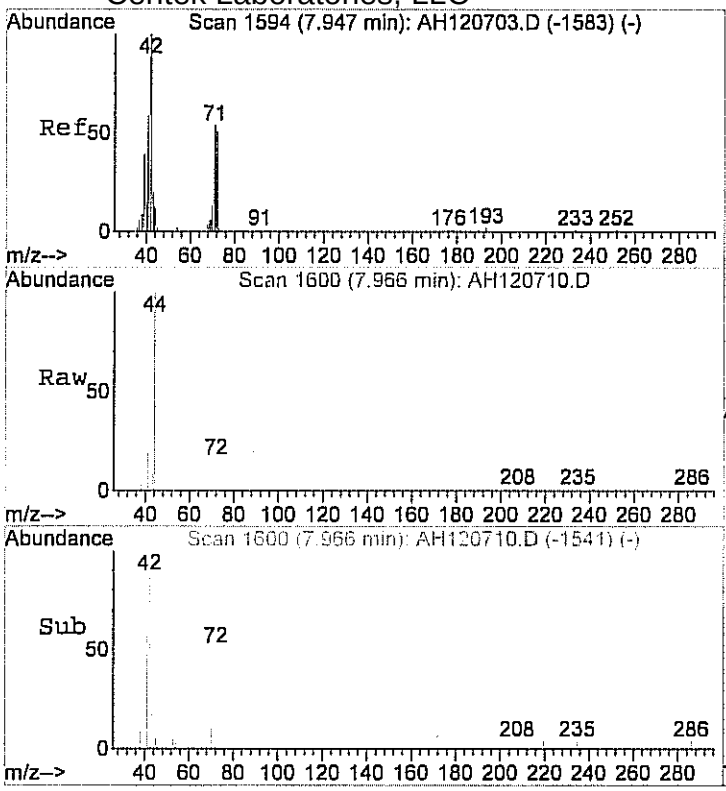


#18
Carbon disulfide
Concen: 0.12 ppb
RT: 5.18 min Scan# 731
Delta R.T. 0.01 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion: 76 Resp: 5885

Ion	Ratio	Lower	Upper
76	100		
78	9.7	0.0	30.1

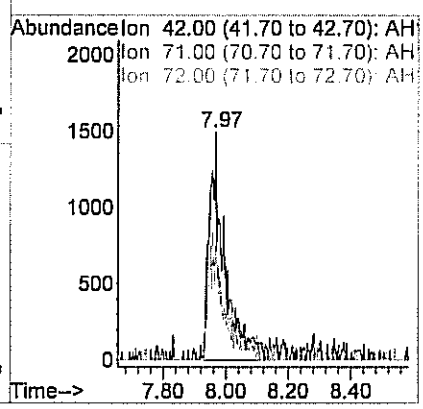


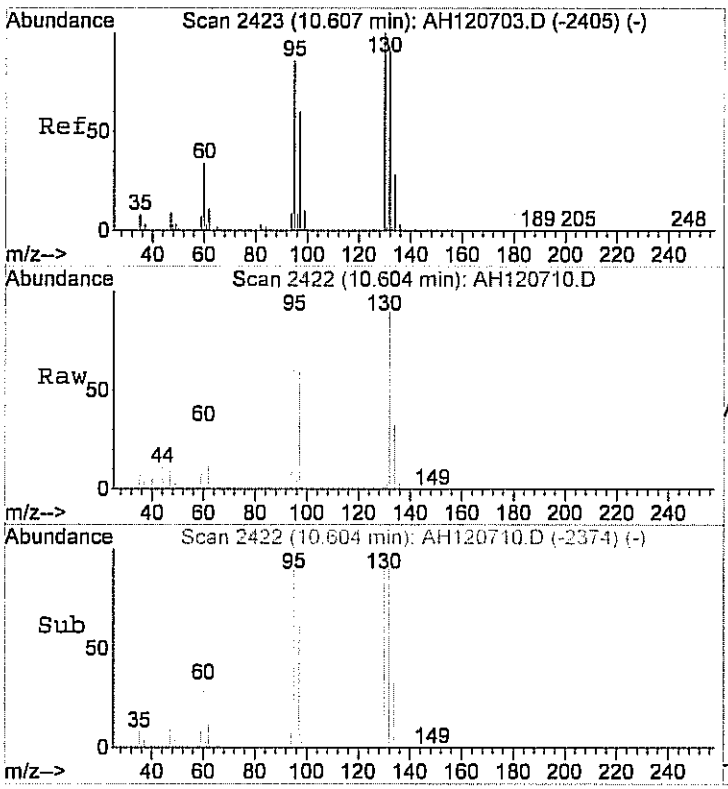


#28
Tetrahydrofuran
Concen: 0.57 ppb m
RT: 7.97 min Scan# 1600
Delta R.T. 0.04 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion: 42 Resp: 5741

Ion	Ratio	Lower	Upper
42	100		
71	47.9	37.9	77.9
72	44.1	38.0	78.0

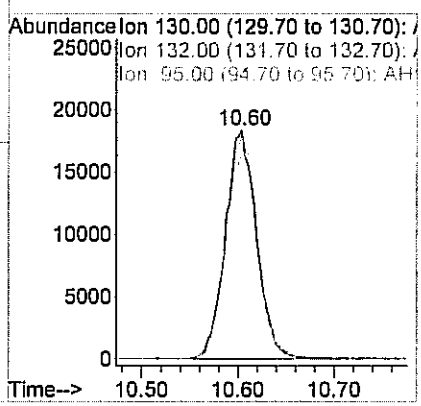




#38
Trichloroethene
Concen: 1.09 ppb
RT: 10.60 min Scan# 2422
Delta R.T. 0.00 min
Lab File: AH120710.D
Acq: 7 Dec 2010 6:59 pm

Tgt Ion:130 Resp: 41475

Ion	Ratio	Lower	Upper
130	100		
132	99.0	77.0	117.0
95	92.5	70.8	110.8



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Acetone	0.47	0.30		ppbV	1	12/7/2010 7:31:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 7:31:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 11	0.21	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 113	0.13	0.15	J	ppbV	1	12/7/2010 7:31:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Freon 12	0.47	0.15		ppbV	1	12/7/2010 7:31:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 7:31:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Trichloroethene	2.7	1.5		ppbV	10	12/7/2010 9:04:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 7:31:00 PM
Surr: Bromofluorobenzene	99.0	70-130		%REC	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 7:31:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 7:31:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 7:31:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 7:31:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 7:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 7:31:00 PM
Acetone	1.1	0.72		ug/m3	1	12/7/2010 7:31:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 7:31:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 7:31:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 7:31:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 7:31:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 7:31:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	12/7/2010 7:31:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 7:31:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 7:31:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 7:31:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 7:31:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 7:31:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 7:31:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 7:31:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 7:31:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 7:31:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 7:31:00 PM
Freon 11	1.2	0.86		ug/m3	1	12/7/2010 7:31:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0202AC
Lab Order:	C1012005	**Tag Number:**	131
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.0	1.2	J	ug/m3	1	12/7/2010 7:31:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 7:31:00 PM
Freon 12	2.4	0.75		ug/m3	1	12/7/2010 7:31:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 7:31:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 7:31:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 7:31:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 7:31:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 7:31:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 7:31:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 7:31:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 7:31:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 7:31:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 7:31:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 7:31:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 7:31:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 7:31:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 7:31:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 7:31:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 7:31:00 PM
Trichloroethene	15	8.2		ug/m3	10	12/7/2010 9:04:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 7:31:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 7:31:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 7:31:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120711.D Vial: 26
Acq On : 7 Dec 2010 7:31 pm Operator: RJP
Sample : C1012005-002A Inst : MSD #1
Misc : C1012005-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 19:52:22 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

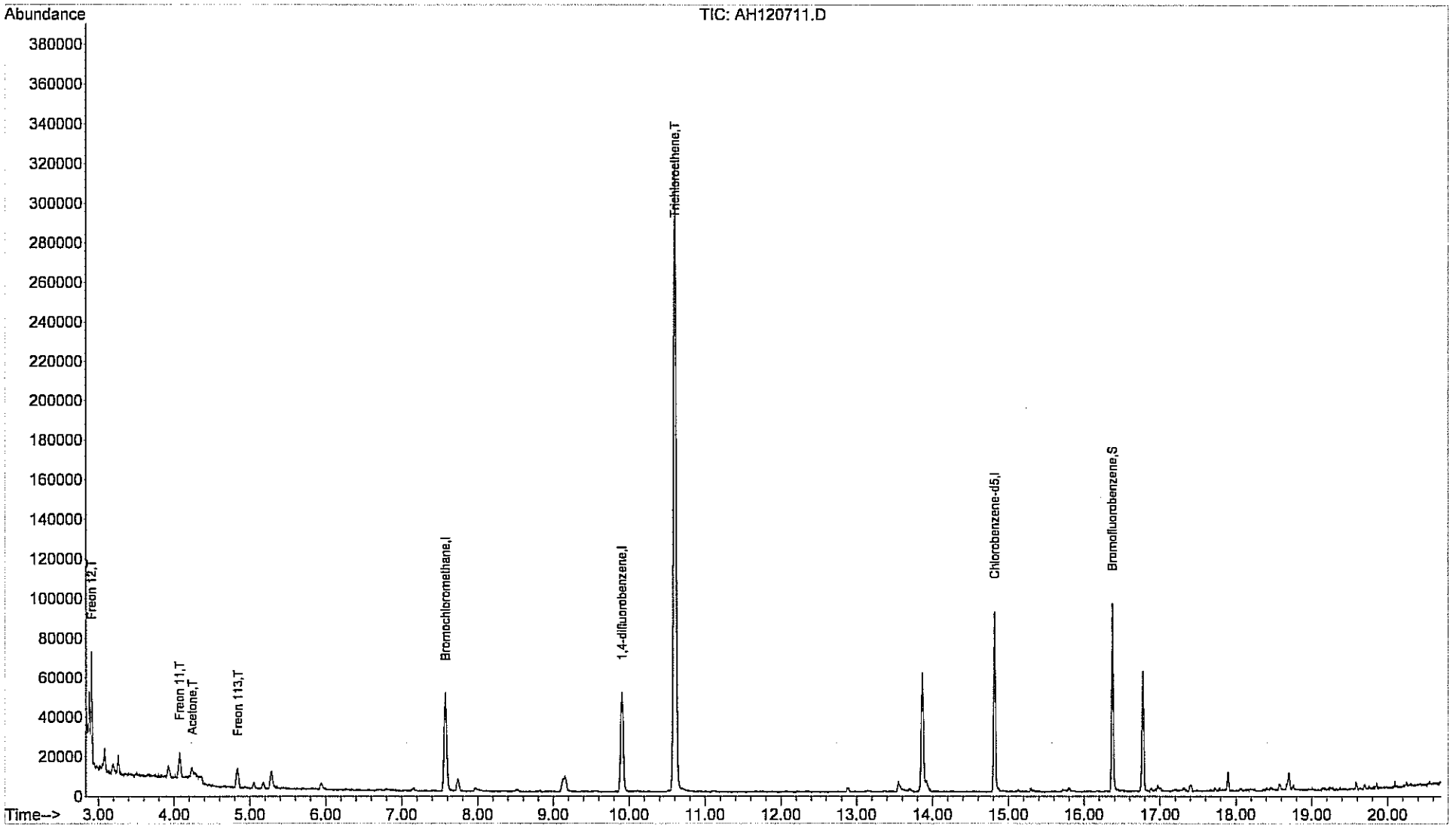
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	19720	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	57252	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	53211	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	25543	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
3) Freon 12	2.91	85	36182	0.47	ppb		97
11) Freon 11	4.07	101	9377	0.21	ppb		99
12) Acetone	4.23	58	2501	0.47	ppb	#	81
15) Freon 113	4.84	101	4304	0.13	ppb		97
38) Trichloroethene	10.60	130	144183	3.71	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

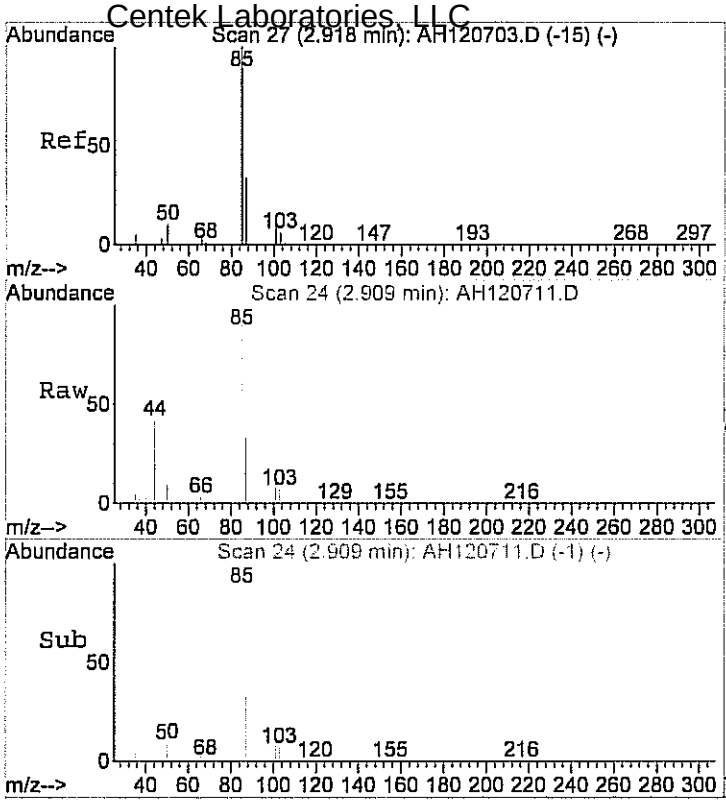
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120711.D Vial: 26
Acq On : 7 Dec 2010 7:31 pm Operator: RJP
Sample : C1012005-002A Inst : MSD #1
Misc : C1012005-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:34 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



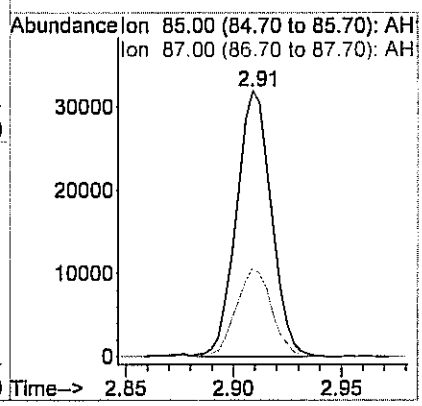
Centek Laboratories, LLC

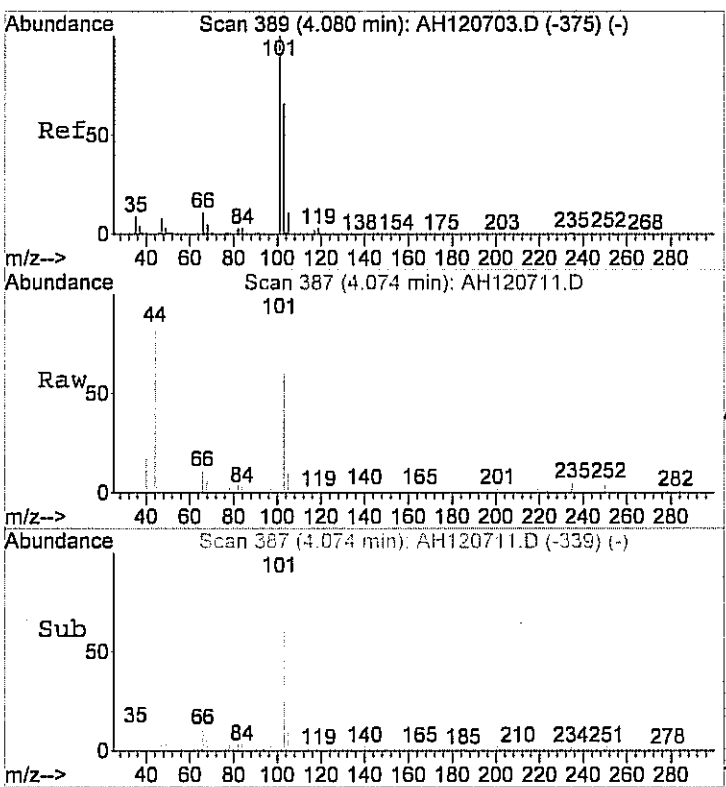


#3
Freon 12
Concen: 0.47 ppb
RT: 2.91 min Scan# 24
Delta R.T. -0.00 min
Lab File: AH120711.D
Acq: 7 Dec 2010 7:31 pm

Tgt Ion: 85 Resp: 36182

Ion	Ratio	Lower	Upper
85	100		
87	33.8	12.2	52.2

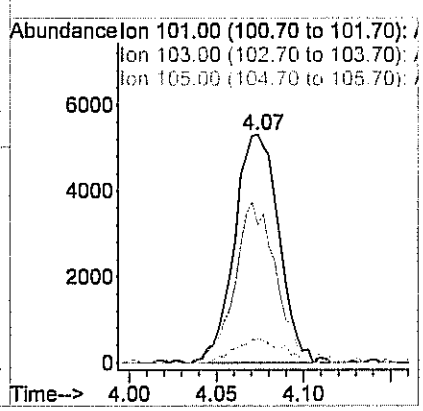


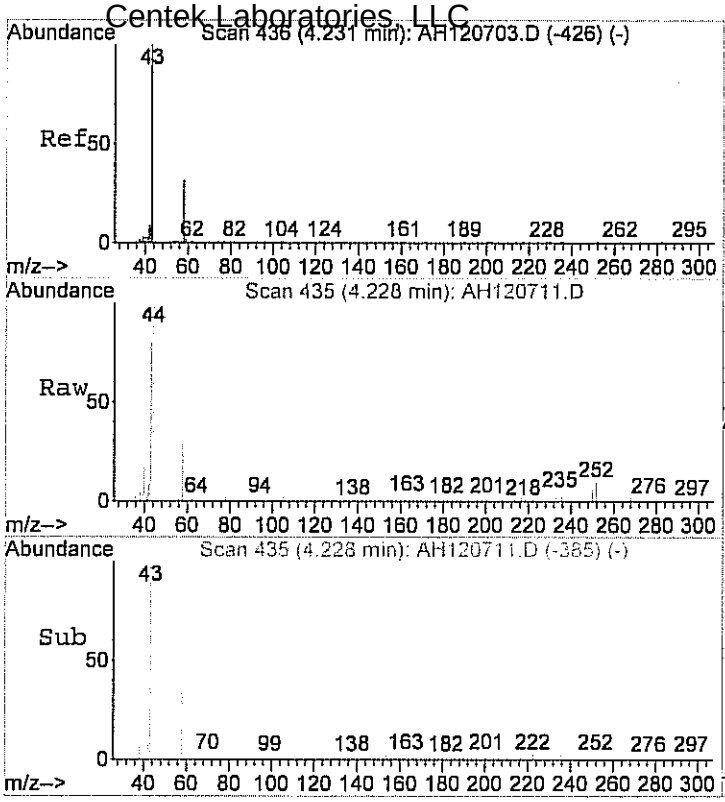


#11
Freon 11
Concen: 0.21 ppb
RT: 4.07 min Scan# 387
Delta R.T. 0.00 min
Lab File: AH120711.D
Acq: 7 Dec 2010 7:31 pm

Tgt Ion:101 Resp: 9377

Ion	Ratio	Lower	Upper
101	100		
103	65.1	46.3	86.3
105	11.4	0.0	31.0

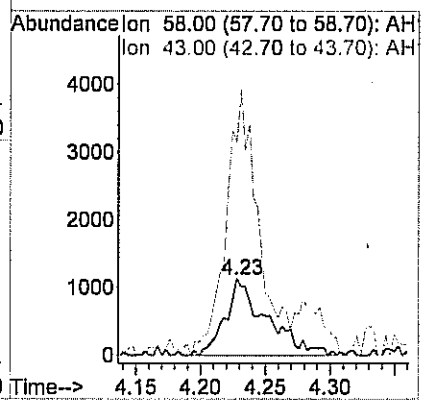


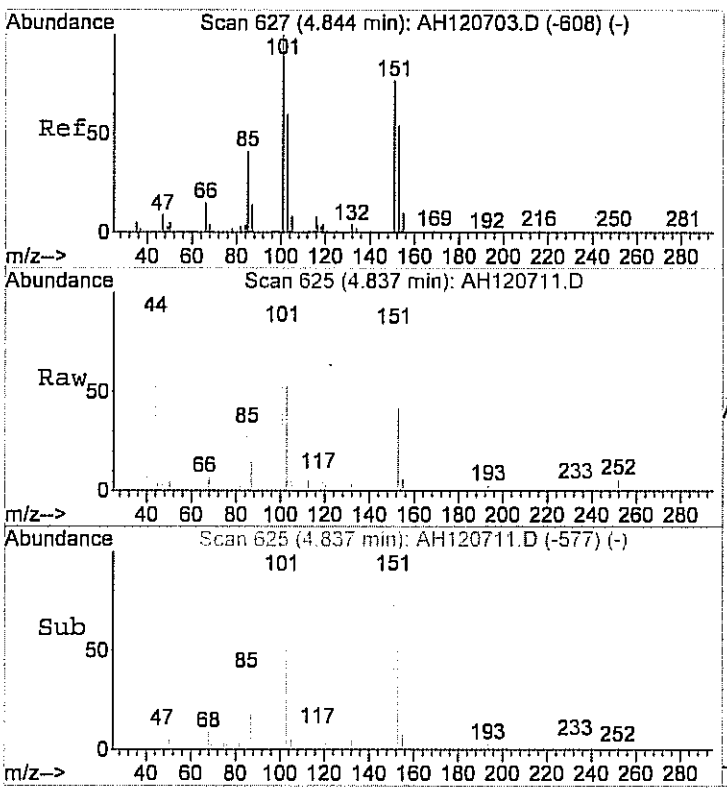


#12
Acetone
Concen: 0.47 ppb
RT: 4.23 min Scan# 435
Delta R.T. 0.01 min
Lab File: AH120711.D
Acq: 7 Dec 2010 7:31 pm

Tgt Ion: 58 Resp: 2501

Ion	Ratio	Lower	Upper
58	100		
43	316.7	329.0	389.0#

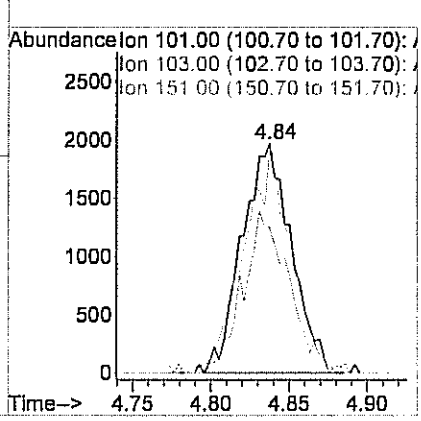


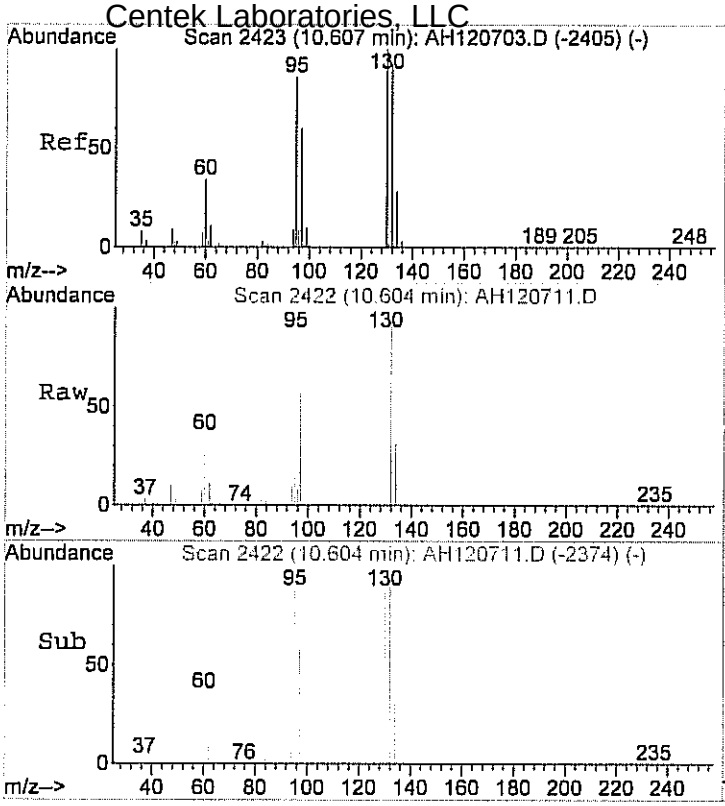


#15
Freon 113
Concen: 0.13 ppb
RT: 4.84 min Scan# 625
Delta R.T. 0.00 min
Lab File: AH120711.D
Acq: 7 Dec 2010 7:31 pm

Tgt Ion:101 Resp: 4304

Ion	Ratio	Lower	Upper
101	100		
103	65.0	44.7	84.7
151	95.0	71.0	111.0

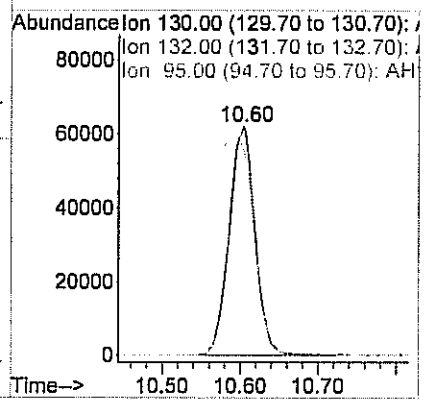




#38
Trichloroethene
Concen: 3.71 ppb
RT: 10.60 min Scan# 2422
Delta R.T. 0.00 min
Lab File: AH120711.D
Acq: 7 Dec 2010 7:31 pm

Tgt Ion:130 Resp: 144183

Ion	Ratio	Lower	Upper
130	100		
132	98.1	77.0	117.0
95	91.2	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120714.D Vial: 29
Acq On : 7 Dec 2010 9:04 pm Operator: RJP
Sample : C1012005-002A 10X Inst : MSD #1
Misc : C1012005-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 21:25:15 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	19066	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	54122	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	48075	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	23543	1.01	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 101.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.60	130	9878	0.27	ppb	99

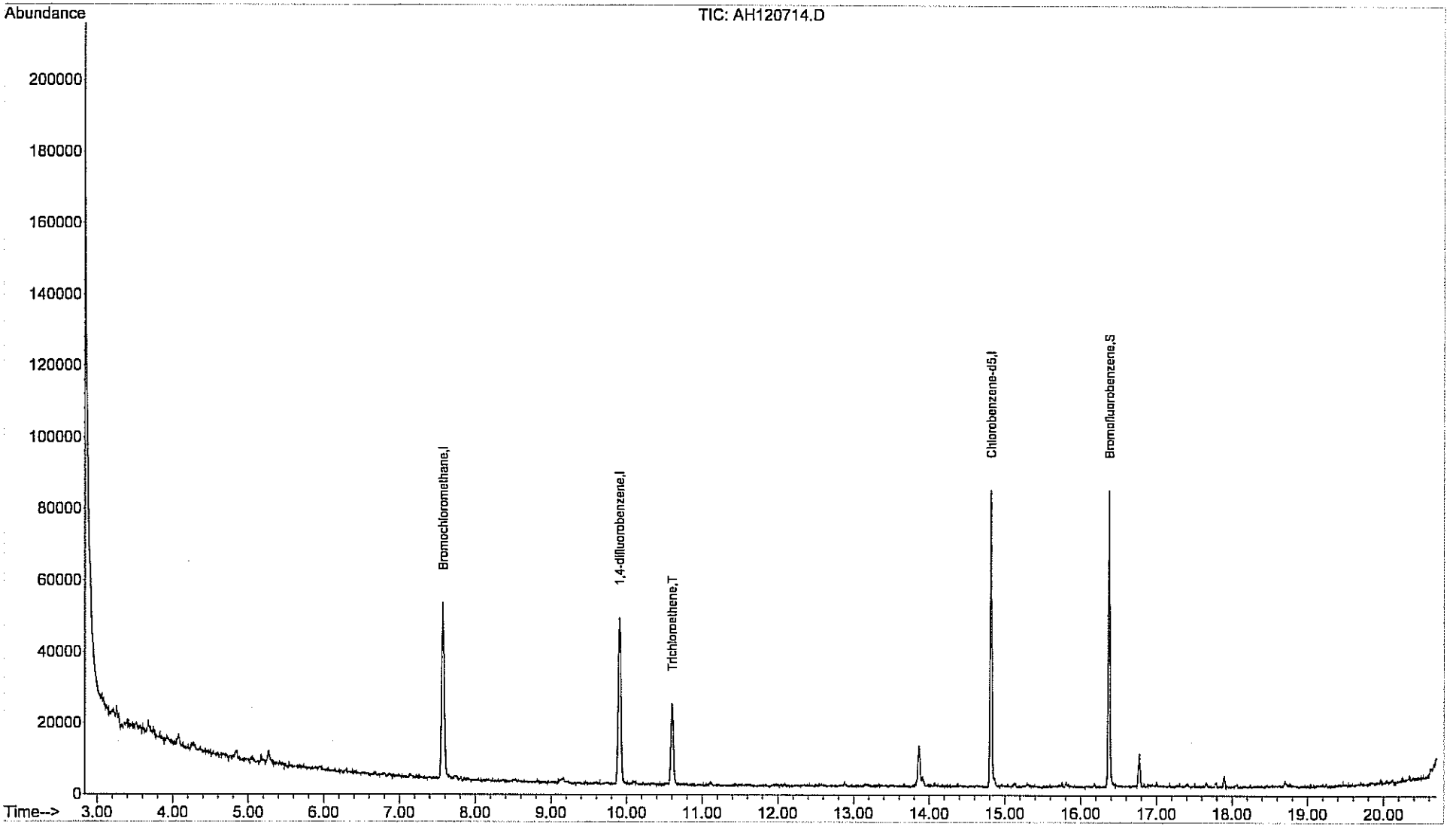
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

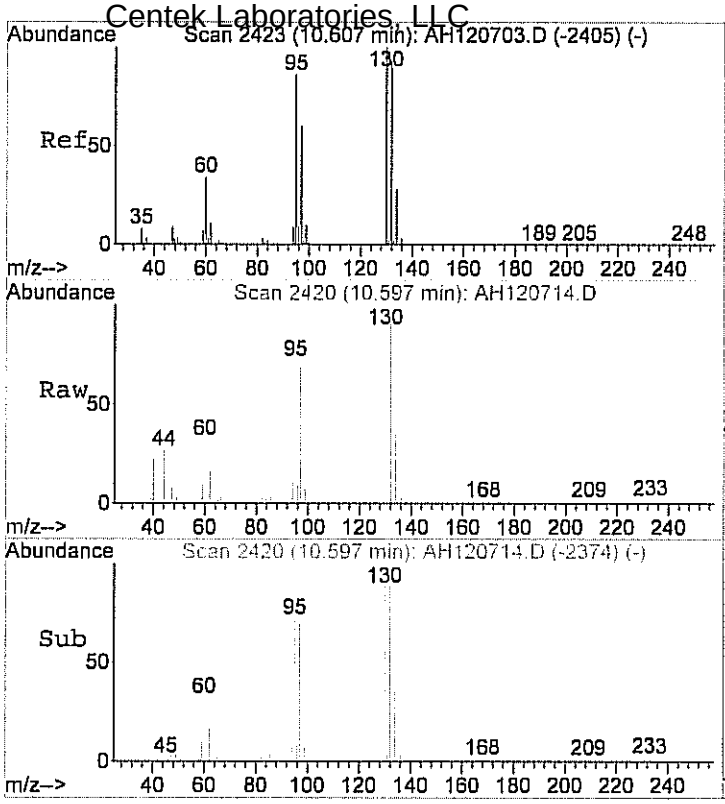
Data File : C:\HPCHEM\1\DATA\AH120714.D
Acq On : 7 Dec 2010 9:04 pm
Sample : C1012005-002A 10X
Misc : C1012005-002A
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:36 2010

Vial: 29
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



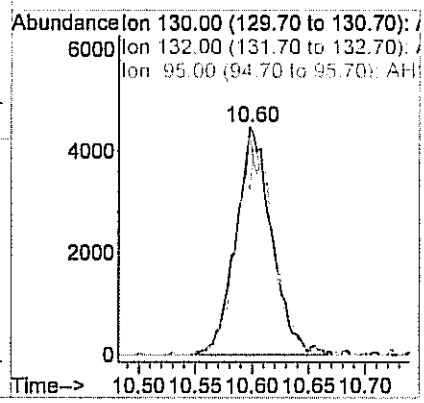
Centek Laboratories, LLC



#38
Trichloroethene
Concen: 0.27 ppb
RT: 10.60 min Scan# 2420
Delta R.T. -0.00 min
Lab File: AH120714.D
Acq: 7 Dec 2010 9:04 pm

Tgt Ion:130 Resp: 9878

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.0	117.0
95	92.3	70.8	110.8



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Acetone	0.44	0.30		ppbV	1	12/7/2010 8:02:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Carbon disulfide	0.26	0.15		ppbV	1	12/7/2010 8:02:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
cis-1,2-Dichloroethene	0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 8:02:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 11	0.22	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 113	0.14	0.15	J	ppbV	1	12/7/2010 8:02:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Freon 12	0.49	0.15		ppbV	1	12/7/2010 8:02:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 8:02:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Trichloroethene	31	1.5		ppbV	10	12/7/2010 9:34:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 8:02:00 PM
Surr: Bromofluorobenzene	106	70-130		%REC	1	12/7/2010 8:02:00 PM

Qualifiers:				
	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 8:02:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 8:02:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 8:02:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 8:02:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 8:02:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 8:02:00 PM
Acetone	1.1	0.72		ug/m3	1	12/7/2010 8:02:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 8:02:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 8:02:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 8:02:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 8:02:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 8:02:00 PM
Carbon disulfide	0.82	0.47		ug/m3	1	12/7/2010 8:02:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 8:02:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 8:02:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 8:02:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 8:02:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 8:02:00 PM
cis-1,2-Dichloroethene	0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 8:02:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 8:02:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 8:02:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 8:02:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 8:02:00 PM
Freon 11	1.3	0.86		ug/m3	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	785VMP0302AC
Lab Order:	C1012005	**Tag Number:**	325
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	1.1	1.2	J	ug/m3	1	12/7/2010 8:02:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 8:02:00 PM
Freon 12	2.5	0.75		ug/m3	1	12/7/2010 8:02:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 8:02:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 8:02:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 8:02:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 8:02:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 8:02:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 8:02:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 8:02:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 8:02:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 8:02:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 8:02:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 8:02:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 8:02:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 8:02:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 8:02:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 8:02:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 8:02:00 PM
Trichloroethene	170	8.2		ug/m3	10	12/7/2010 9:34:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 8:02:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 8:02:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 8:02:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120712.D Vial: 27
Acq On : 7 Dec 2010 8:02 pm Operator: RJP
Sample : C1012005-003A Inst : MSD #1
Misc : C1012005-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 20:23:45 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

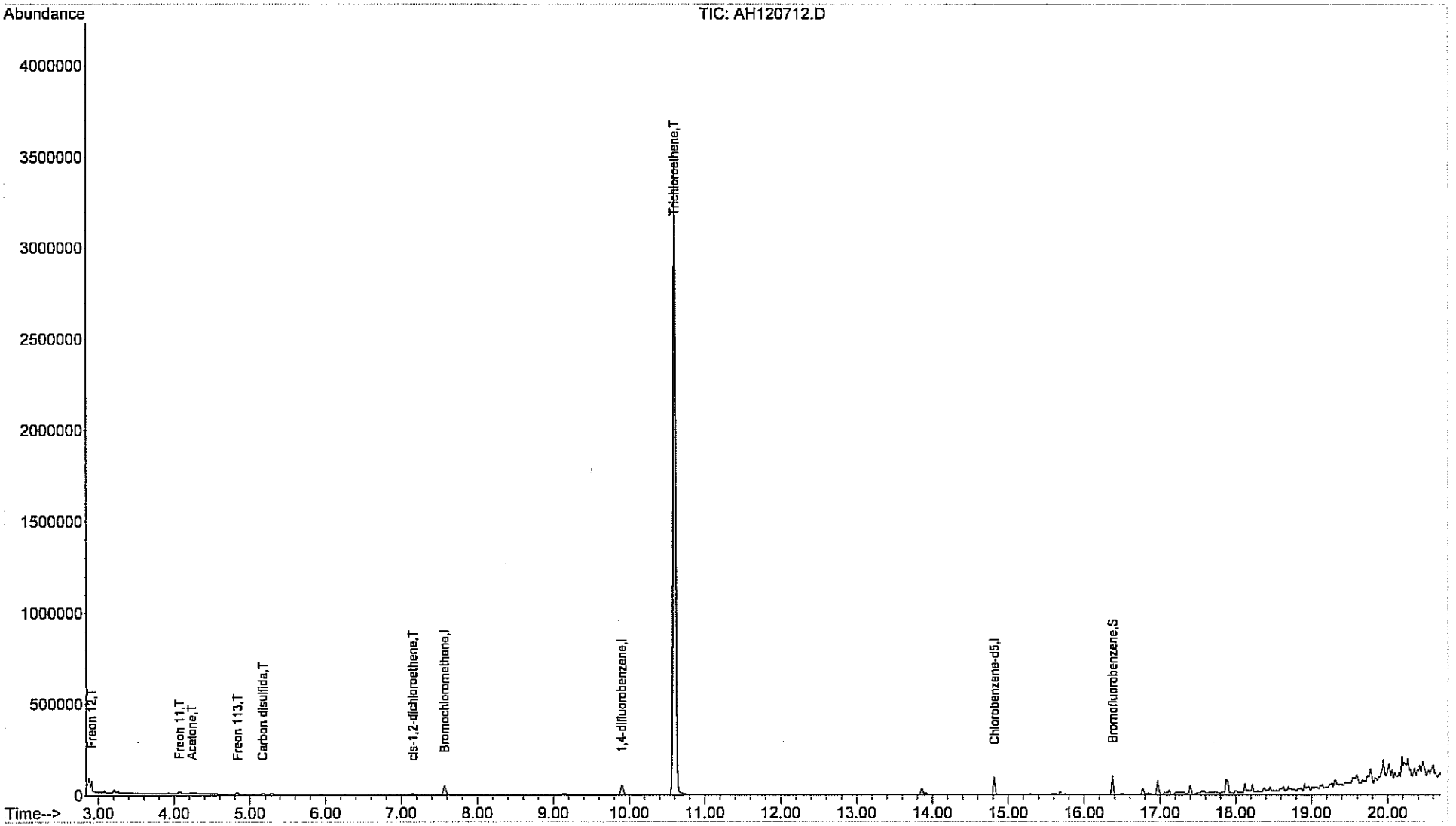
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	19288	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	58424	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	54133	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	27819	1.06	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 106.00%			
Target Compounds						Qvalue
3) Freon 12	2.91	85	36665	0.49	ppb	99
11) Freon 11	4.07	101	9717	0.22	ppb	99
12) Acetone	4.23	58	2323	0.44	ppb	95
15) Freon 113	4.83	101	4593	0.14	ppb	98
18) Carbon disulfide	5.17	76	12727	0.26	ppb	98
24) cis-1,2-dichloroethene	7.15	61	3951	0.15	ppb	94
38) Trichloroethene	10.60	130	1571955	39.59	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

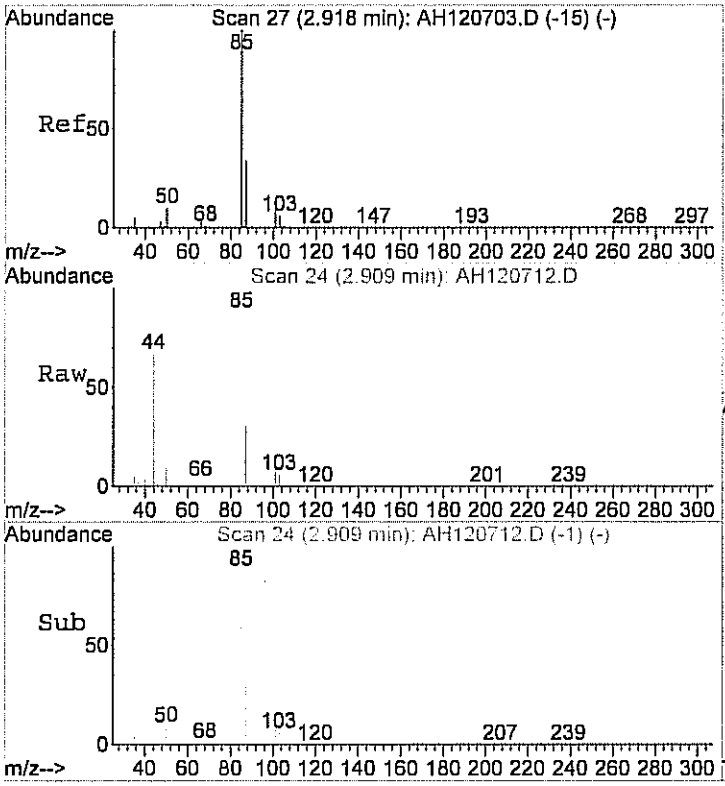
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120712.D Vial: 27
Acq On : 7 Dec 2010 8:02 pm Operator: RJP
Sample : C1012005-003A Inst : MSD #1
Misc : C1012005-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:34 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



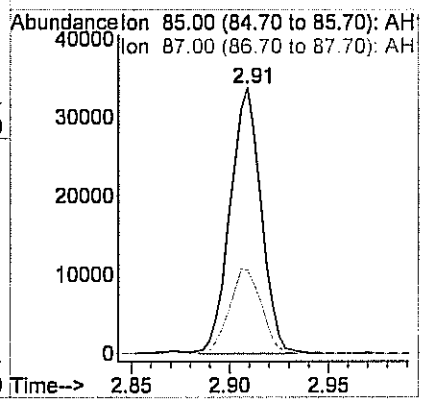
Centek Laboratories, LLC

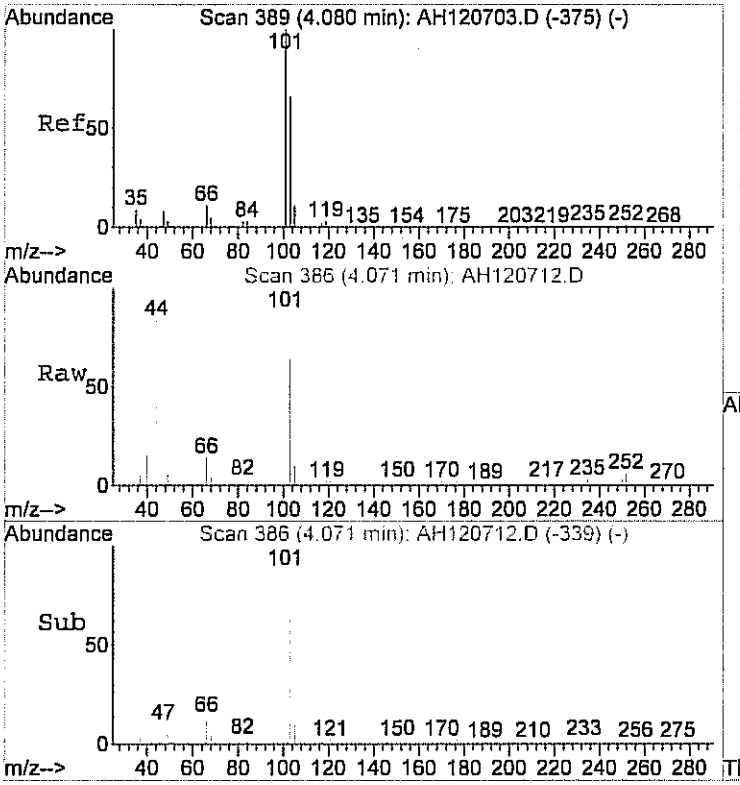


#3
Freon 12
Concen: 0.49 ppb
RT: 2.91 min Scan# 24
Delta R.T. 0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion: 85 Resp: 36665

Ion	Ratio	Lower	Upper
85	100		
87	32.9	12.2	52.2

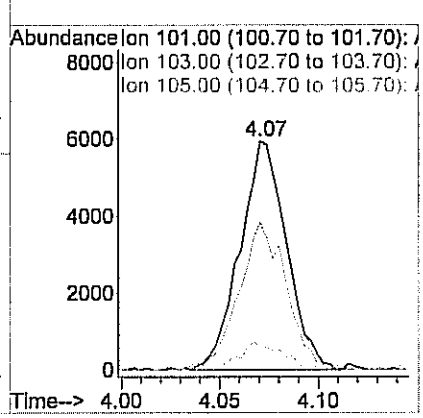


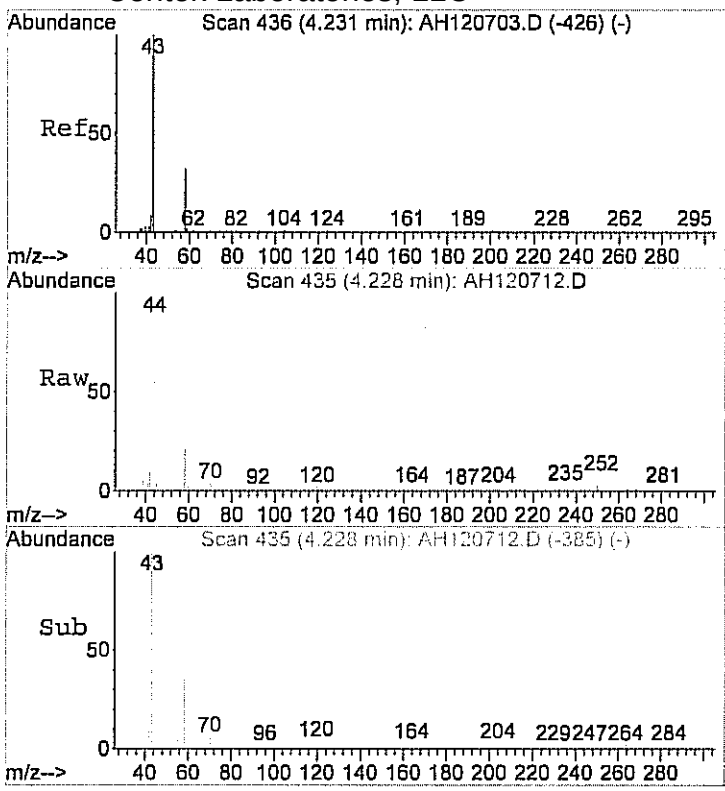


#11
Freon 11
Concen: 0.22 ppb
RT: 4.07 min Scan# 386
Delta R.T. 0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion:101 Resp: 9717

Ion	Ratio	Lower	Upper
101	100		
103	65.9	46.3	86.3
105	11.3	0.0	31.0

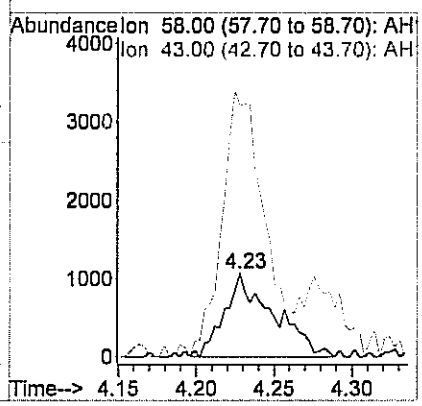


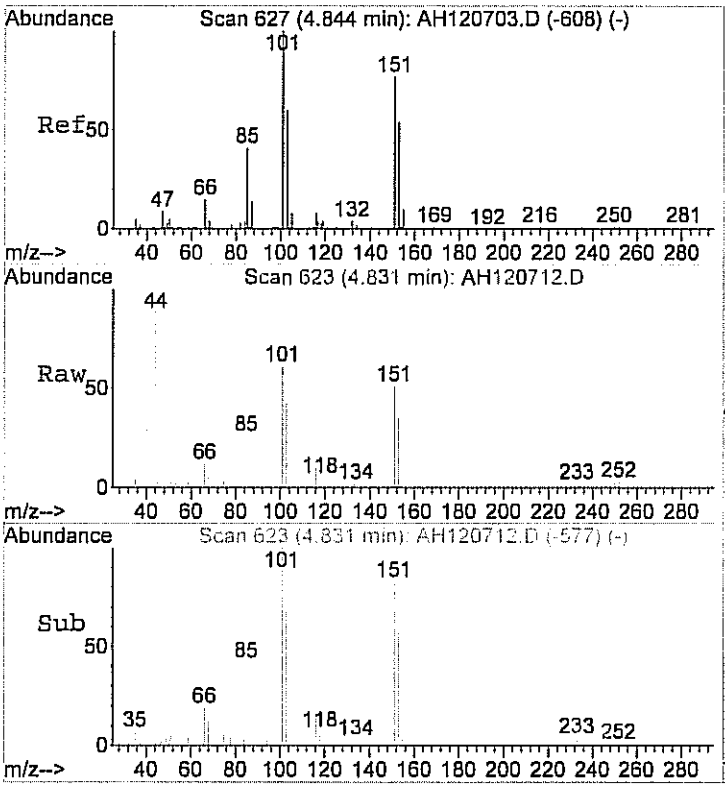


#12
Acetone
Concen: 0.44 ppb
RT: 4.23 min Scan# 435
Delta R.T. 0.01 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion: 58 Resp: 2323

Ion	Ratio	Lower	Upper
58	100		
43	348.7	329.0	389.0

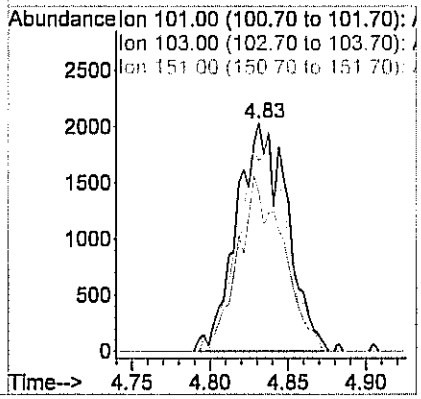


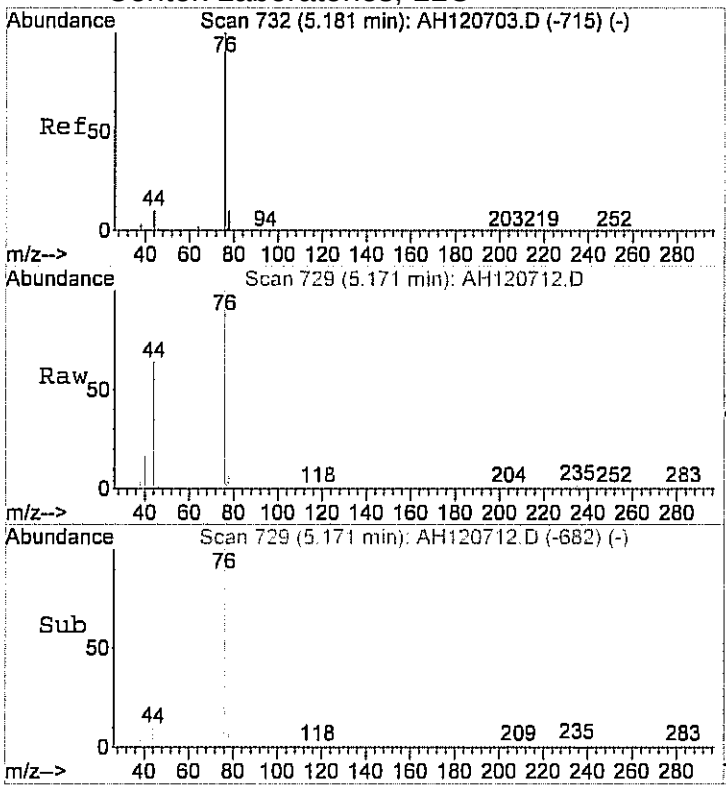


#15
Freon 113
Concen: 0.14 ppb
RT: 4.83 min Scan# 623
Delta R.T. -0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion:101 Resp: 4593

Ion	Ratio	Lower	Upper
101	100		
103	67.6	44.7	84.7
151	91.6	71.0	111.0

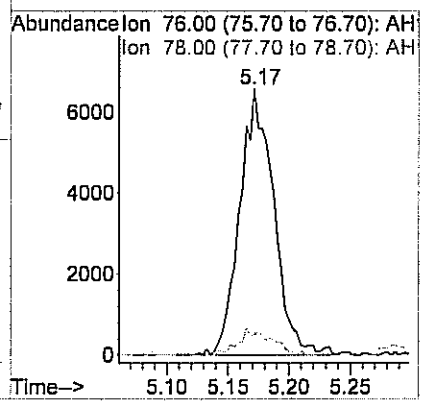


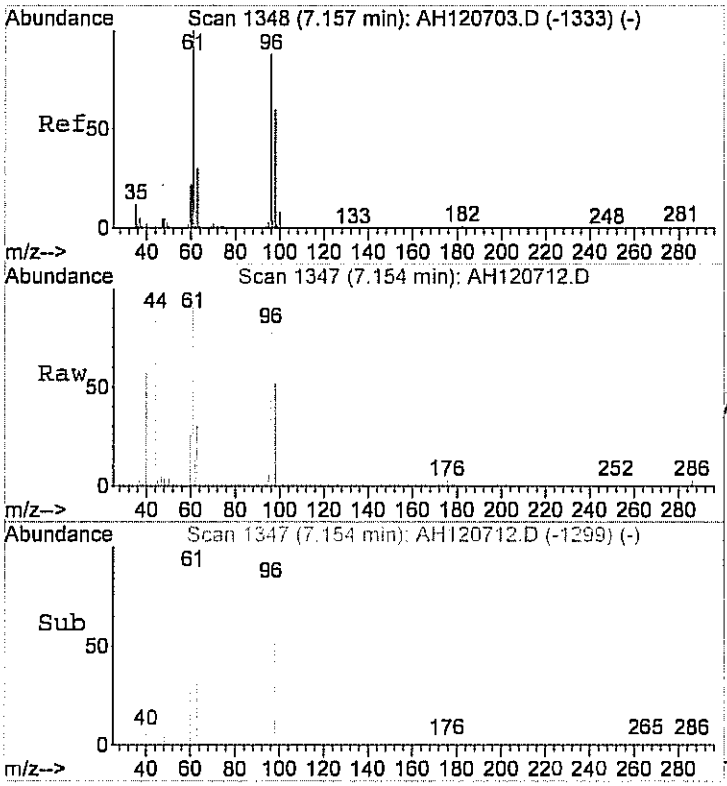


#18
Carbon disulfide
Concen: 0.26 ppb
RT: 5.17 min Scan# 729
Delta R.T. 0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion: 76 Resp: 12727

Ion	Ratio	Lower	Upper
76	100		
78	9.2	0.0	30.1

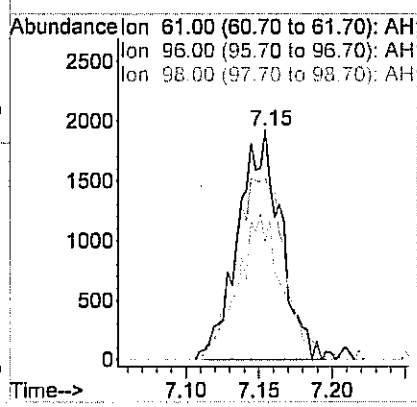


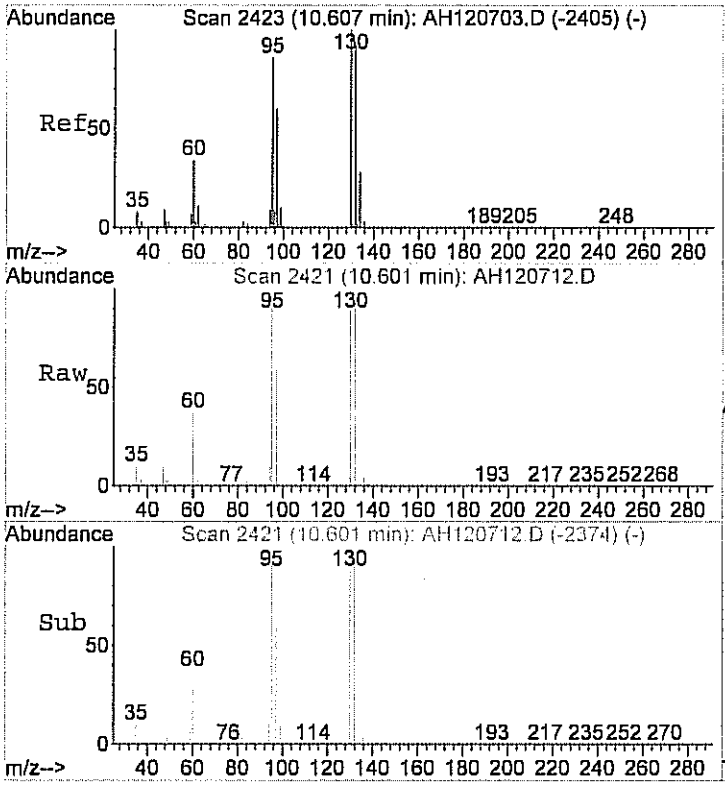


#24
cis-1,2-dichloroethene
Concen: 0.15 ppb
RT: 7.15 min Scan# 1347
Delta R.T. 0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion: 61 Resp: 3951

Ion	Ratio	Lower	Upper
61	100		
96	91.4	68.1	108.1
98	64.3	37.3	77.3

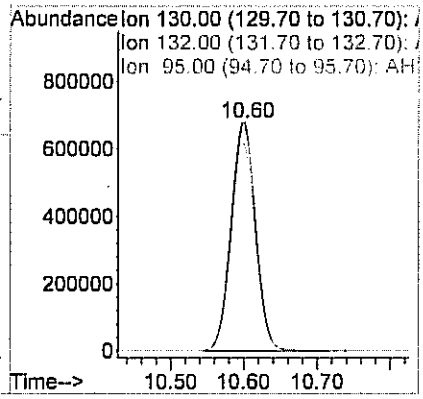




#38
Trichloroethene
Concen: 39.59 ppb
RT: 10.60 min Scan# 2421
Delta R.T. 0.00 min
Lab File: AH120712.D
Acq: 7 Dec 2010 8:02 pm

Tgt Ion:130 Resp: 1571955

Ion	Ratio	Lower	Upper
130	100		
132	98.2	77.0	117.0
95	90.5	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120715.D Vial: 30
Acq On : 7 Dec 2010 9:34 pm Operator: RJP
Sample : C1012005-003A 10X Inst : MSD #1
Misc : C1012005-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 21:55:41 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

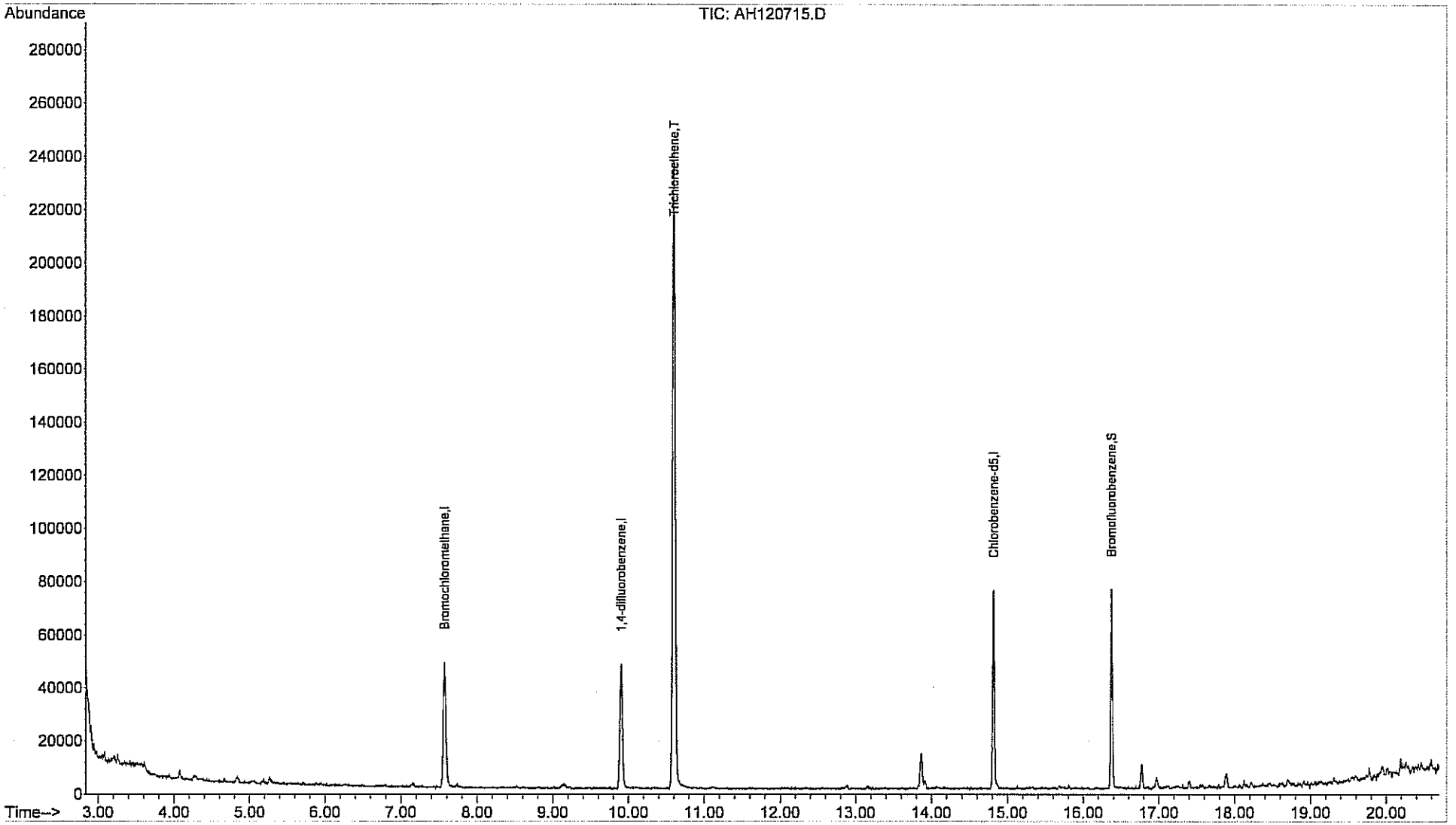
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	18805	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	51728	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	44143	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	20820	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.60	130	108643	3.09	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH120715.D AN29_1UG.M Sat Jan 15 12:13:26 2011 MSD1 Page 1

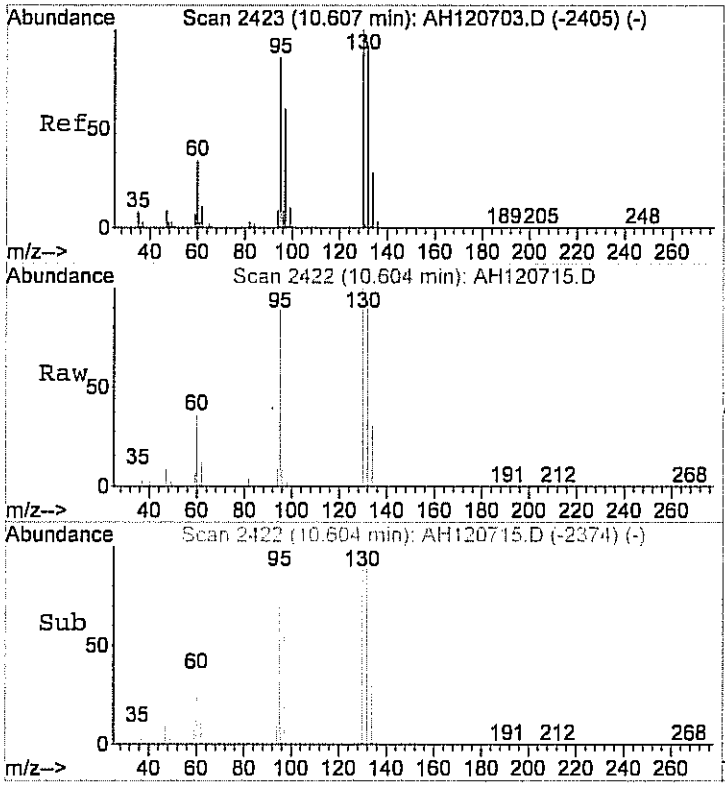
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120715.D Vial: 30
Acq On : 7 Dec 2010 9:34 pm Operator: RJP
Sample : C1012005-003A 10X Inst : MSD #1
Misc : C1012005-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:38 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



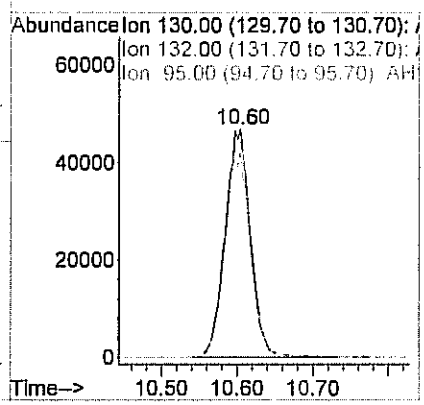
Centek Laboratories, LLC



#38
Trichloroethene
Concen: 3.09 ppb
RT: 10.60 min Scan# 2422
Delta R.T. 0.00 min
Lab File: AH120715.D
Acq: 7 Dec 2010 9:34 pm

Tgt Ion:130 Resp: 108643

Ion	Ratio	Lower	Upper
130	100		
132	99.0	77.0	117.0
95	90.9	70.8	110.8



Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		12/3/2010
Lab Vacuum Out	-29			"Hg		12/3/2010
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Acetone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Benzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromoform	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloroform	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: **RJP**
Ethyl acetate	< 0.25	0.25		ppbV	1	12/7/2010 6:28:00 PM
Ethylbenzene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 11	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 113	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 114	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Freon 12	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Heptane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Hexane	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	12/7/2010 6:28:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Propylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Styrene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Toluene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	12/7/2010 6:28:00 PM
Surr: Bromofluorobenzene	92.0	70-130		%REC	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:28:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	12/7/2010 6:28:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	12/7/2010 6:28:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	12/7/2010 6:28:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	12/7/2010 6:28:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
Acetone	< 0.72	0.72		ug/m3	1	12/7/2010 6:28:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	12/7/2010 6:28:00 PM
Benzene	< 0.49	0.49		ug/m3	1	12/7/2010 6:28:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	12/7/2010 6:28:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	12/7/2010 6:28:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	12/7/2010 6:28:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	12/7/2010 6:28:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	12/7/2010 6:28:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	12/7/2010 6:28:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	12/7/2010 6:28:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	12/7/2010 6:28:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	12/7/2010 6:28:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:28:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	12/7/2010 6:28:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	12/7/2010 6:28:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	12/7/2010 6:28:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	12/7/2010 6:28:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories
Air Quality Testing...It's a Gas

Analytical Report

Date: *15-Jan-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1012005	**Tag Number:**	201
Project:	B785 SSVM Sampling	**Collection Date:**	12/2/2010
Lab ID:	C1012005-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 113	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	12/7/2010 6:28:00 PM
Freon 12	< 0.75	0.75		ug/m3	1	12/7/2010 6:28:00 PM
Heptane	< 0.62	0.62		ug/m3	1	12/7/2010 6:28:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	12/7/2010 6:28:00 PM
Hexane	< 0.54	0.54		ug/m3	1	12/7/2010 6:28:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	12/7/2010 6:28:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	12/7/2010 6:28:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	12/7/2010 6:28:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	12/7/2010 6:28:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	12/7/2010 6:28:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	12/7/2010 6:28:00 PM
Propylene	< 0.26	0.26		ug/m3	1	12/7/2010 6:28:00 PM
Styrene	< 0.65	0.65		ug/m3	1	12/7/2010 6:28:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	12/7/2010 6:28:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	12/7/2010 6:28:00 PM
Toluene	< 0.57	0.57		ug/m3	1	12/7/2010 6:28:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	12/7/2010 6:28:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	12/7/2010 6:28:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	12/7/2010 6:28:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	12/7/2010 6:28:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120709.D Vial: 24
Acq On : 7 Dec 2010 6:28 pm Operator: RJP
Sample : C1012005-004A Inst : MSD #1
Misc : C1012005-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 18:49:04 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

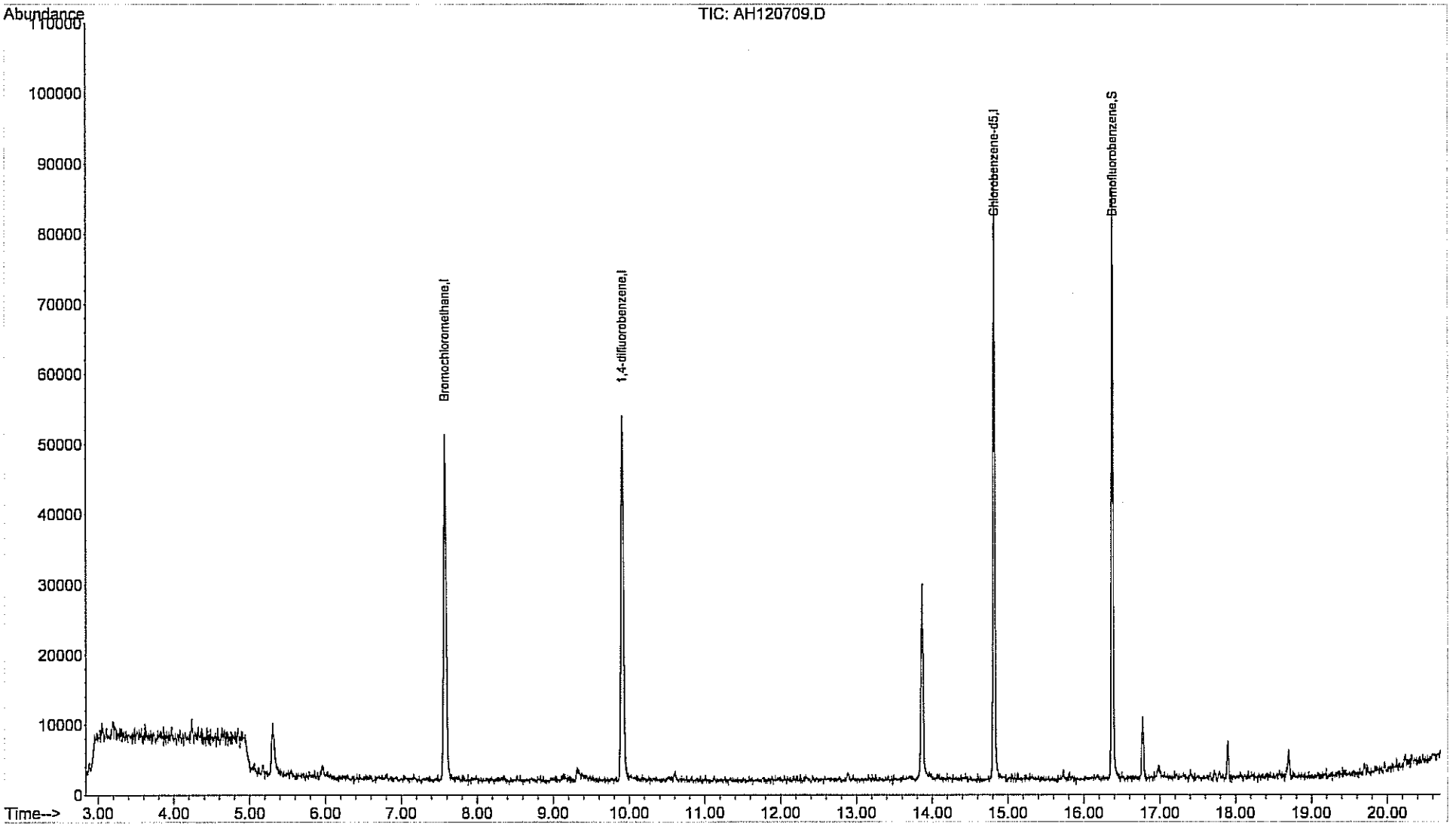
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	18597	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	56636	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	50671	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	22589	0.92	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 92.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120709.D Vial: 24
Acq On : 7 Dec 2010 6:28 pm Operator: RJP
Sample : C1012005-004A Inst : MSD #1
Misc : C1012005-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:32 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration

Calibration Files
0.04 =AH112912.D 0.15 =AH112915.D 0.30 =AH112909.D
0.50 =AH112908.D 0.75 =AH112907.D 1.0 =AH112906.D

		Compound	0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene		0.606	0.571	0.493	0.512	0.490	0.521	8.54
3)	T	Freon 12		4.097	4.068	3.956	3.815	3.794	3.878	3.69
4)	T	Chloromethane		0.904	0.877	0.848	0.806	0.817	0.828	5.61
5)	T	Freon 114		2.408	2.306	2.233	2.157	2.110	2.176	6.10
6)	T	Vinyl Chloride	1.174	0.739	0.710	0.705	0.697	0.655	0.741	22.31
7)	T	1,3-butadiene		0.580	0.573	0.511	0.476	0.442	0.491	11.70
8)	T	Bromomethane		0.813	0.853	0.800	0.754	0.769	0.773	5.92
9)	T	Chloroethane		0.344	0.319	0.286	0.292	0.282	0.293	8.56
10)	T	Vinyl Bromide		0.832	0.890	0.890	0.794	0.801	0.831	4.85
11)	T	Freon 11		2.430	2.393	2.267	2.190	2.206	2.249	4.79
12)	T	Acetone		0.303	0.292	0.271	0.263	0.252	0.271	8.45
13)	T	Isopropyl alcoh		1.038	0.834	0.780	0.678	0.598	0.719	22.17
14)	T	1,1-dichloroeth		0.940	0.780	0.795		0.735	0.775	10.23
15)	T	Freon 113		1.743	1.757	1.670		1.567	1.703	11.02
16)	T	Methylene chlor		1.145	0.917	0.637		0.626	0.782	26.74
17)	T	Allyl chloride		0.796	0.784	0.645	0.693	0.613	0.681	10.89
18)	T	Carbon disulfid		3.466	3.270	1.859		1.791	2.578	28.51
19)	T	trans-1,2-dichl		1.454	1.492	1.517	1.418	1.435	1.455	2.77
20)	T	methyl tert-but		1.375	1.452	1.624	1.606	1.658	1.597	8.16
21)	T	1,1-dichloroeth		2.008	1.936	1.928	1.919	1.857	1.900	3.29
22)	T	Vinyl acetate		1.017	1.063	1.173	1.147	1.211	1.167	7.81
23)	T	Methyl Ethyl Ke		1.578	1.483	1.649	1.650	1.667	1.673	7.48
24)	T	cis-1,2-dichlor		1.374	1.350	1.322	1.341	1.327	1.334	2.00
25)	T	Hexane		0.860	0.794	0.820	0.764	0.792	0.794	4.22
26)	T	Ethyl acetate		1.356	1.027	1.279	1.233	1.270	1.273	8.59
27)	T	Chloroform		3.072	3.157	2.960	2.965	2.954	2.983	3.30
28)	T	Tetrahydrofuran		0.525	0.469	0.543	0.488	0.542	0.534	7.28
29)	T	1,2-dichloroeth		1.780	1.757	1.761	1.737	1.758	1.752	1.83
30)	I	1,4-difluorobenzene	----------ISTD----------							
31)	T	1,1,1-trichloro		0.923	0.910	0.857	0.901	0.885	0.893	2.34
32)	T	Cyclohexane		0.312	0.301	0.293	0.328	0.316	0.320	5.70
33)	T	Carbon tetrachl	1.844	1.207	1.159	1.114	1.125	1.087	1.210	19.86
34)	T	Benzene		0.972	0.966	0.977	0.981	0.961	0.978	1.59
35)	T	1,4-dioxane			0.119	0.160	0.121	0.113	0.129	14.66
36)	T	2,2,4-trimethyl		0.982	0.919	0.890	0.944	0.939	0.947	3.56
37)	T	Heptane		0.332	0.293	0.276	0.289	0.293	0.299	5.51
38)	T	Trichloroethene	1.030	0.667	0.635	0.616	0.649	0.627	0.680	19.49
39)	T	1,2-dichloropro		0.355	0.345	0.331	0.341	0.338	0.343	2.35
40)	T	Bromodichlorome		1.085	1.055	0.974	1.060	1.024	1.044	3.32
41)	T	cis-1,3-dichlor		0.376	0.376	0.380	0.387	0.397	0.398	5.56
42)	T	trans-1,3-dichl		0.277	0.302	0.289	0.308	0.318	0.311	6.75
43)	T	1,1,2-trichloro		0.503	0.522	0.507	0.515	0.500	0.513	1.89
44)	I	Chlorobenzene-d5	----------ISTD----------							
45)	T	Toluene		0.651	0.655	0.648	0.709	0.742	0.718	8.66
46)	T	Methyl Isobutyl			0.316	0.415	0.356	0.302	0.345	14.76
47)	T	Dibromochlorome		1.583	1.480	1.395	1.495	1.493	1.503	3.65
48)	T	Methyl Butyl Ke			0.318	0.353	0.281	0.217	0.276	19.89
49)	T	1,2-dibromoetha		0.893	0.885	0.825	0.887	0.883	0.882	2.92
50)	T	Tetrachloroethy		0.914	0.836	0.782	0.840	0.813	0.826	4.87
51)	T	Chlorobenzene		1.159	1.151	1.081	1.140	1.186	1.161	3.35

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration

Calibration Files
0.04 =AH112912.D 0.15 =AH112915.D 0.30 =AH112909.D
0.50 =AH112908.D 0.75 =AH112907.D 1.0 =AH112906.D

		Compound	0.04	0.15	0.30	0.50	0.75	1.0	Avg	%RSD
52)	T	Ethylbenzene		1.178	1.166	1.217	1.318	1.398	1.350	11.51
53)	T	m&p-xylene		0.810	0.898	0.961	1.128	1.192	1.103	17.26
54)	T	Styrene		0.635	0.567	0.595	0.675	0.729	0.698	13.76
55)	T	Bromoform		1.576	1.557	1.489	1.632	1.644	1.620	4.73
56)	T	o-xylene		1.164	0.931	1.026	1.170	1.282	1.215	14.45
57)	S	Bromofluorobenz	0.424	0.462	0.437	0.484	0.512	0.521	0.486	7.59
58)	T	1,1,2,2-tetrach		0.746	0.791	0.794	0.836	0.844	0.817	4.58
59)	T	4-ethyltoluene		0.905	1.027	1.122	1.244	1.409	1.308	21.30
60)	T	1,3,5-trimethyl		0.679	0.725	0.865	0.989	1.101	0.996	22.00
61)	T	1,2,4-trimethyl		0.497	0.536	0.630	0.680	0.774	0.714	21.54
62)	T	1,3-dichloroben		0.570	0.680	0.673	0.745	0.824	0.750	13.72
63)	T	benzyl chloride		0.348	0.351	0.401	0.386	0.479	0.430	15.41
64)	T	1,4-dichloroben		0.612	0.668	0.659	0.703	0.813	0.746	13.33
65)	T	1,2-dichloroben		0.515	0.567	0.573	0.597	0.698	0.631	12.49
66)	T	1,2,4-trichloro		0.272	0.184	0.206	0.200	0.250	0.227	13.31
67)	T	Hexachloro-1,3-		0.464	0.424	0.425	0.397	0.482	0.440	8.46

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112904.D Vial: 4
Acq On : 29 Nov 2010 3:40 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35:26 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	21142	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	64672	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	56097	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	29072	0.99	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	16298	1.57	ppb		99
3) Freon 12	2.91	85	121002	1.51	ppb		98
4) Chloromethane	3.05	50	25230	1.46	ppb		97
5) Freon 114	3.05	85	66205	1.48	ppb		99
6) Vinyl Chloride	3.19	62	21636	1.56	ppb		98
7) 1,3-butadiene	3.26	39	14378	1.54	ppb		97
8) Bromomethane	3.51	94	23531	1.45	ppb		100
9) Chloroethane	3.62	64	8805	1.48	ppb		98
10) Vinyl Bromide	3.87	106	25893	1.53	ppb		98
11) Freon 11	4.07	101	69666	1.49	ppb		98
12) Acetone	4.23	58	9137	1.71	ppb	#	80
13) Isopropyl alcohol	4.33	45	19949	1.58	ppb		92
14) 1,1-dichloroethene	4.66	96	23398	1.51	ppb		99
15) Freon 113	4.84	101	48909	1.48	ppb		99
16) Methylene chloride	5.05	84	19715	1.49	ppb		99
17) Allyl chloride	5.04	41	19185	1.48	ppb		98
18) Carbon disulfide	5.17	76	93051	2.46	ppb		98
19) trans-1,2-dichloroethene	5.89	61	45602	1.50	ppb		99
20) methyl tert-butyl ether	5.95	73	55387	1.58	ppb		98
21) 1,1-dichloroethane	6.28	63	59044	1.50	ppb		98
22) Vinyl acetate	6.30	43	40747	1.59	ppb		100
23) Methyl Ethyl Ketone	6.79	43	57135	1.61	ppb		99
24) cis-1,2-dichloroethene	7.16	61	42390	1.51	ppb		98
25) Hexane	6.79	41	24442	1.46	ppb		99
26) Ethyl acetate	7.37	43	42687	1.59	ppb		98
27) Chloroform	7.74	83	93052	1.49	ppb		98
28) Tetrahydrofuran	7.93	42	18113	1.57	ppb		96
29) 1,2-dichloroethane	8.82	62	55649	1.50	ppb		99
31) 1,1,1-trichloroethane	8.52	97	86461	1.51	ppb		100
32) Cyclohexane	9.22	56	32878	1.61	ppb		98
33) Carbon tetrachloride	9.16	117	110092	1.57	ppb		98
34) Benzene	9.13	78	96073	1.55	ppb		100
35) 1,4-dioxane	10.97	88	13187	1.77	ppb		97
36) 2,2,4-trimethylpentane	10.10	57	94344	1.55	ppb		98
37) Heptane	10.52	43	29123	1.53	ppb		96
38) Trichloroethene	10.60	130	60702	1.50	ppb		99
39) 1,2-dichloropropane	10.72	63	33237	1.52	ppb		97
40) Bromodichloromethane	11.12	83	100765	1.52	ppb		99
41) cis-1,3-dichloropropene	12.04	75	40868	1.59	ppb		99
42) trans-1,3-dichloropropene	12.84	75	31301	1.52	ppb		99
43) 1,1,2-trichloroethane	13.15	97	49992	1.54	ppb		96
45) Toluene	12.89	92	65475	1.57	ppb		99
46) Methyl Isobutyl Ketone	12.01	43	33003	1.95	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112904.D Vial: 4
Acq On : 29 Nov 2010 3:40 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35:26 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	127812	1.53	ppb	99
48)	Methyl Butyl Ketone	13.39	43	23908	1.96	ppb	99
49)	1,2-dibromoethane	14.07	107	74403	1.50	ppb	98
50)	Tetrachloroethylene	13.92	164	68076	1.49	ppb	99
51)	Chlorobenzene	14.87	112	99937	1.50	ppb	100
52)	Ethylbenzene	15.13	91	124960	1.59	ppb	99
53)	m&p-xylene	15.33	91	212441	3.18	ppb	99
54)	Styrene	15.73	104	64877	1.59	ppb	100
55)	Bromoform	15.81	173	139595	1.51	ppb	99
56)	o-xylene	15.76	91	114748	1.60	ppb	98
58)	1,1,2,2-tetrachloroethane	16.18	83	69047	1.46	ppb	100
59)	4-ethyltoluene	16.94	105	126299	1.60	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	97608	1.58	ppb	100
61)	1,2,4-trimethylbenzene	17.41	105	68440	1.58	ppb	99
62)	1,3-dichlorobenzene	17.67	146	66749	1.44	ppb	99
63)	benzyl chloride	17.73	91	39153	1.46	ppb	100
64)	1,4-dichlorobenzene	17.79	146	65396	1.43	ppb	99
65)	1,2-dichlorobenzene	18.07	146	54723	1.40	ppb	97
66)	1,2,4-trichlorobenzene	19.70	180	18718	1.33	ppb	93
67)	Hexachloro-1,3-butadiene	19.96	225	33658	1.24	ppb	99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

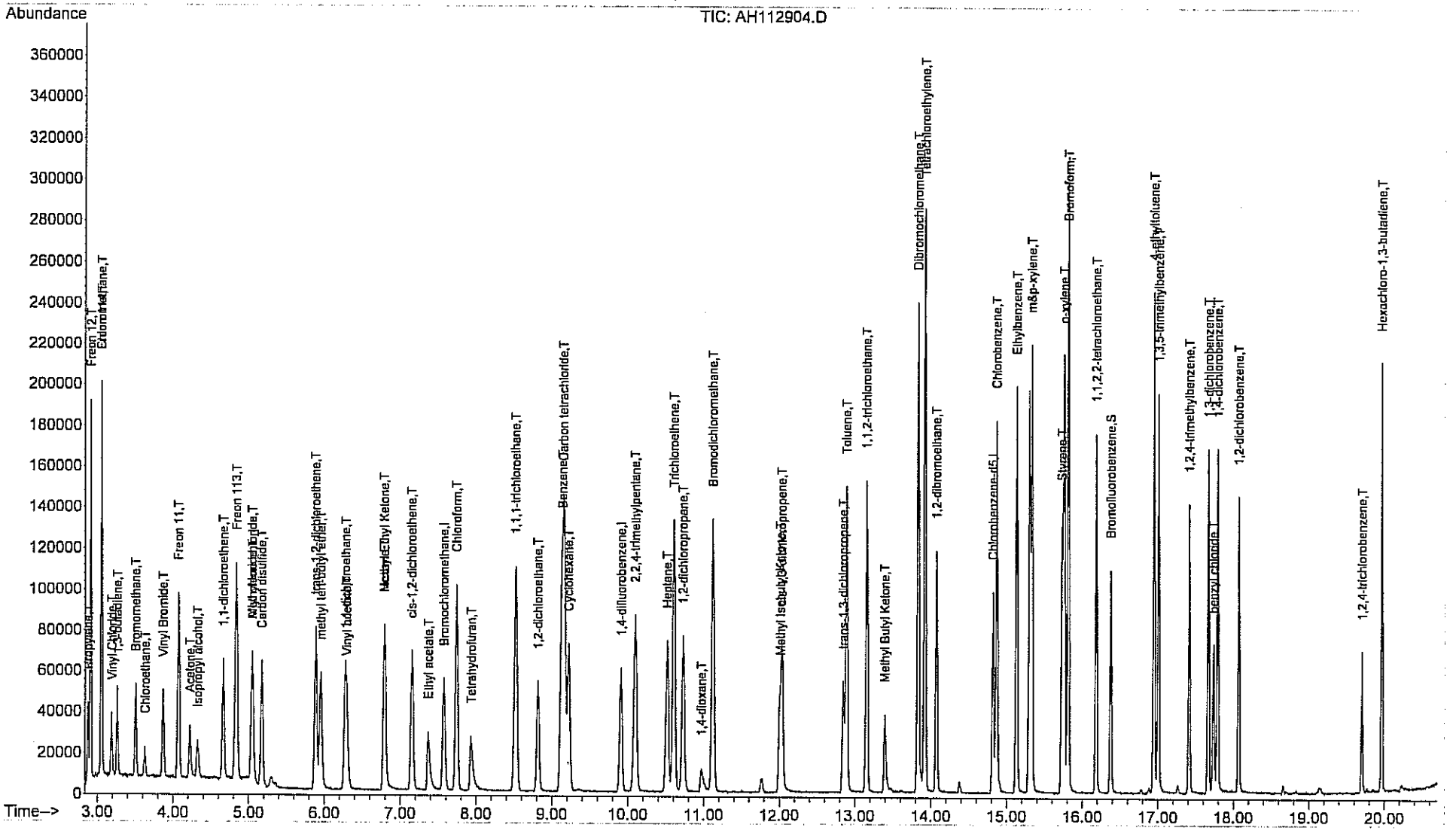
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112904.D
Acq On : 29 Nov 2010 3:40 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35 2010

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112904.D AN29_1UG.M Tue Dec 28 14:26:15 2010 MSD1 Page 3

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112905.D Vial: 5
Acq On : 29 Nov 2010 4:13 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35:13 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	21084	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	66275	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	57352	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	28537	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	13372	1.29	ppb	97
3) Freon 12	2.91	85	98505	1.23	ppb	99
4) Chloromethane	3.05	50	21463	1.25	ppb	95
5) Freon 114	3.05	85	55502	1.25	ppb	98
6) Vinyl Chloride	3.18	62	17755	1.28	ppb	99
7) 1,3-butadiene	3.26	39	11900	1.28	ppb	98
8) Bromomethane	3.50	94	19496	1.20	ppb	100
9) Chloroethane	3.62	64	7245	1.22	ppb	95
10) Vinyl Bromide	3.87	106	21986	1.30	ppb	98
11) Freon 11	4.07	101	57670	1.24	ppb	99
12) Acetone	4.22	58	6907	1.30	ppb	97
13) Isopropyl alcohol	4.32	45	16818	1.33	ppb	94
14) 1,1-dichloroethene	4.66	96	19471	1.26	ppb	98
15) Freon 113	4.83	101	41174	1.25	ppb	98
16) Methylene chloride	5.05	84	16341	1.24	ppb	96
17) Allyl chloride	5.04	41	16593	1.28	ppb	99
18) Carbon disulfide	5.17	76	47602	1.26	ppb	100
19) trans-1,2-dichloroethene	5.88	61	39141	1.29	ppb	98
20) methyl tert-butyl ether	5.95	73	45884	1.31	ppb	100
21) 1,1-dichloroethane	6.28	63	49733	1.27	ppb	99
22) Vinyl acetate	6.30	43	33151	1.30	ppb	100
23) Methyl Ethyl Ketone	6.79	43	49788	1.41	ppb	97
24) cis-1,2-dichloroethene	7.15	61	35298	1.26	ppb	96
25) Hexane	6.79	41	20812	1.25	ppb	97
26) Ethyl acetate	7.37	43	35930	1.34	ppb	99
27) Chloroform	7.74	83	79057	1.27	ppb	99
28) Tetrahydrofuran	7.92	42	15340	1.33	ppb	97
29) 1,2-dichloroethane	8.81	62	47103	1.27	ppb	99
31) 1,1,1-trichloroethane	8.52	97	72470	1.24	ppb	100
32) Cyclohexane	9.22	56	27038	1.29	ppb	99
33) Carbon tetrachloride	9.16	117	90629	1.26	ppb	100
34) Benzene	9.12	78	80197	1.26	ppb	99
35) 1,4-dioxane	10.97	88	12115	1.59	ppb	97
36) 2,2,4-trimethylpentane	10.09	57	78130	1.26	ppb	98
37) Heptane	10.51	43	24843	1.28	ppb	97
38) Trichloroethene	10.60	130	51473	1.24	ppb	98
39) 1,2-dichloropropane	10.73	63	28132	1.25	ppb	97
40) Bromodichloromethane	11.12	83	85992	1.27	ppb	98
41) cis-1,3-dichloropropene	12.04	75	34841	1.32	ppb	99
42) trans-1,3-dichloropropene	12.84	75	27306	1.30	ppb	97
43) 1,1,2-trichloroethane	13.15	97	42484	1.28	ppb	98
45) Toluene	12.89	92	54493	1.28	ppb	99
46) Methyl Isobutyl Ketone	12.00	43	26115m	1.51	ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112905.D Vial: 5
Acq On : 29 Nov 2010 4:13 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35:13 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	108148	1.26	ppb	100
48)	Methyl Butyl Ketone	13.39	43	20387m	1.64	ppb	
49)	1,2-dibromoethane	14.07	107	63244	1.25	ppb	98
50)	Tetrachloroethylene	13.92	164	57045	1.22	ppb	99
51)	Chlorobenzene	14.87	112	84698	1.25	ppb	99
52)	Ethylbenzene	15.13	91	103861	1.30	ppb	100
53)	m&p-xylene	15.33	91	178192	2.61	ppb	100
54)	Styrene	15.73	104	54616	1.31	ppb	100
55)	Bromoform	15.81	173	119564	1.27	ppb	99
56)	o-xylene	15.76	91	96041	1.31	ppb	99
58)	1,1,2,2-tetrachloroethane	16.18	83	60697	1.25	ppb	99
59)	4-ethyltoluene	16.94	105	111742	1.38	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	85108	1.35	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	60553	1.36	ppb	100
62)	1,3-dichlorobenzene	17.66	146	60021	1.27	ppb	100
63)	benzyl chloride	17.73	91	36403	1.33	ppb	98
64)	1,4-dichlorobenzene	17.79	146	61099	1.31	ppb	99
65)	1,2-dichlorobenzene	18.07	146	51607	1.29	ppb	97
66)	1,2,4-trichlorobenzene	19.70	180	18370	1.28	ppb	98
67)	Hexachloro-1,3-butadiene	19.96	225	35632	1.29	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

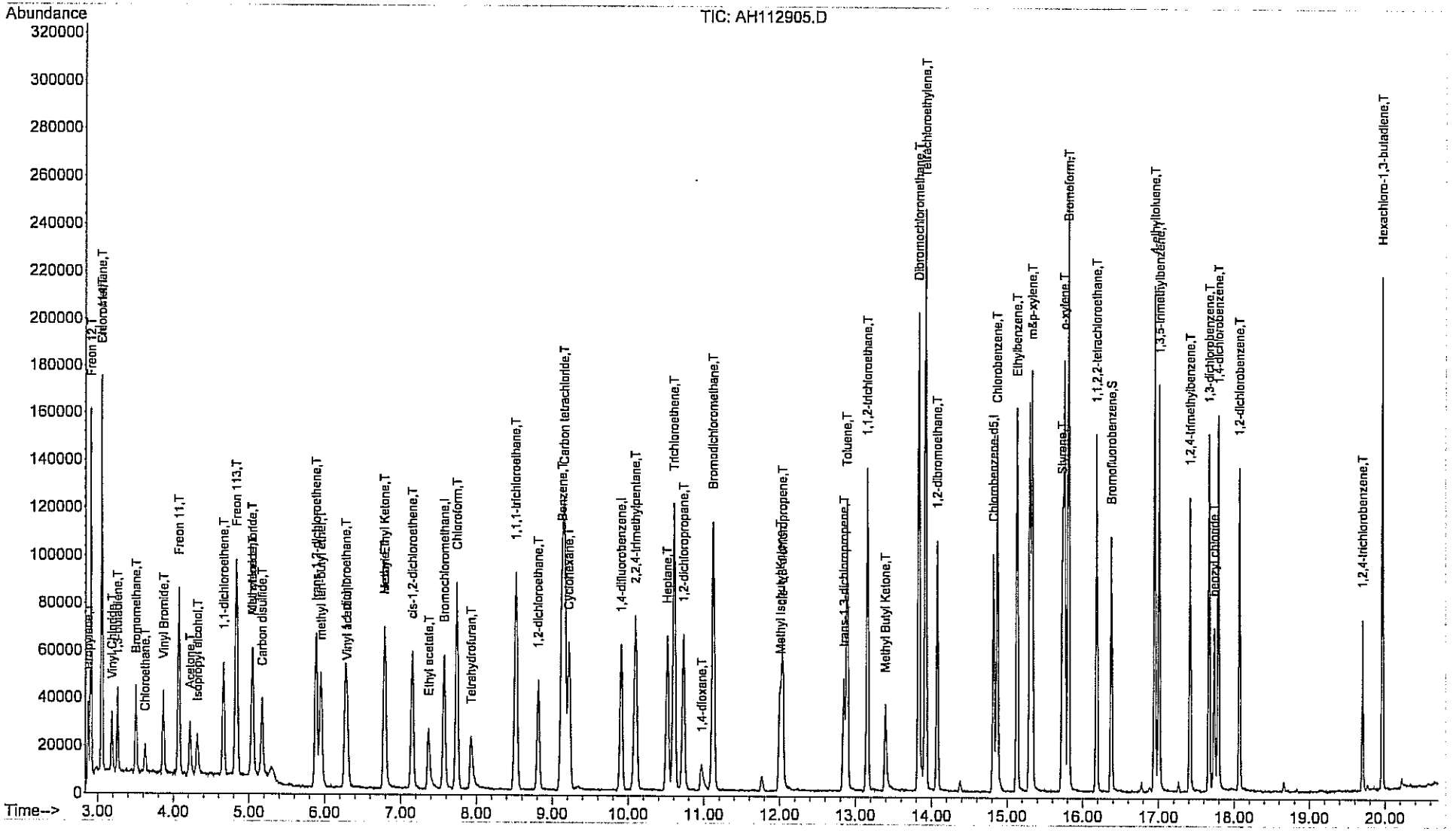
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112905.D
Acq On : 29 Nov 2010 4:13 pm
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:56 2010

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112905.D AN29_1UG.M Tue Dec 28 14:26:18 2010 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112906.D Vial: 6
Acq On : 29 Nov 2010 4:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:34:59 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	21310	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	65568	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	56082	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	29219	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10451	1.00	ppb		91
3) Freon 12	2.91	85	80843	1.00	ppb		99
4) Chloromethane	3.05	50	17412	1.00	ppb		96
5) Freon 114	3.05	85	44961	1.00	ppb		100
6) Vinyl Chloride	3.18	62	13967	1.00	ppb		99
7) 1,3-butadiene	3.26	39	9416	1.00	ppb		98
8) Bromomethane	3.50	94	16384	1.00	ppb		99
9) Chloroethane	3.62	64	5999	1.00	ppb		98
10) Vinyl Bromide	3.87	106	17078	1.00	ppb		99
11) Freon 11	4.07	101	47016	1.00	ppb		98
12) Acetone	4.22	58	5376	1.00	ppb		95
13) Isopropyl alcohol	4.32	45	12750	1.00	ppb		98
14) 1,1-dichloroethene	4.66	96	15662	1.00	ppb		99
15) Freon 113	4.83	101	33397	1.00	ppb		98
16) Methylene chloride	5.06	84	13349	1.00	ppb		99
17) Allyl chloride	5.04	41	13068	1.00	ppb		97
18) Carbon disulfide	5.17	76	38166	1.00	ppb		99
19) trans-1,2-dichloroethene	5.89	61	30578	1.00	ppb		99
20) methyl tert-butyl ether	5.95	73	35335	1.00	ppb		99
21) 1,1-dichloroethane	6.28	63	39576	1.00	ppb		98
22) Vinyl acetate	6.30	43	25803	1.00	ppb		100
23) Methyl Ethyl Ketone	6.78	43	35523	1.00	ppb		97
24) cis-1,2-dichloroethene	7.15	61	28282	1.00	ppb		98
25) Hexane	6.79	41	16868	1.00	ppb	#	90
26) Ethyl acetate	7.37	43	27069	1.00	ppb		98
27) Chloroform	7.74	83	62956	1.00	ppb		97
28) Tetrahydrofuran	7.93	42	11551	0.99	ppb		97
29) 1,2-dichloroethane	8.82	62	37464	1.00	ppb		98
31) 1,1,1-trichloroethane	8.52	97	58030	1.00	ppb		99
32) Cyclohexane	9.22	56	20731	1.00	ppb		98
33) Carbon tetrachloride	9.16	117	71271	1.00	ppb		99
34) Benzene	9.12	78	62986	1.00	ppb		99
35) 1,4-dioxane	10.97	88	7437	0.98	ppb		91
36) 2,2,4-trimethylpentane	10.09	57	61542	1.00	ppb		100
37) Heptane	10.52	43	19240	1.00	ppb		98
38) Trichloroethene	10.60	130	41103	1.00	ppb		99
39) 1,2-dichloropropane	10.73	63	22191	1.00	ppb		99
40) Bromodichloromethane	11.12	83	67142	1.00	ppb		100
41) cis-1,3-dichloropropene	12.03	75	26030	1.00	ppb		99
42) trans-1,3-dichloropropene	12.84	75	20857	1.00	ppb		98
43) 1,1,2-trichloroethane	13.15	97	32806	1.00	ppb		98
45) Toluene	12.89	92	41640	1.00	ppb		100
46) Methyl Isobutyl Ketone	12.00	43	16917	1.00	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112906.D Vial: 6
Acq On : 29 Nov 2010 4:47 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:34:59 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	83714	1.00	ppb	99
48)	Methyl Butyl Ketone	13.39	43	12183	1.00	ppb	99
49)	1,2-dibromoethane	14.07	107	49535	1.00	ppb	100
50)	Tetrachloroethylene	13.92	164	45574	1.00	ppb	99
51)	Chlorobenzene	14.87	112	66497	1.00	ppb	99
52)	Ethylbenzene	15.13	91	78382	1.00	ppb	98
53)	m&p-xylene	15.33	91	133747	2.00	ppb	100
54)	Styrene	15.73	104	40890	1.00	ppb	99
55)	Bromoform	15.81	173	92205	1.00	ppb	99
56)	o-xylene	15.76	91	71900	1.00	ppb	98
58)	1,1,2,2-tetrachloroethane	16.18	83	47332	1.00	ppb	99
59)	4-ethyltoluene	16.94	105	79044	1.00	ppb	97
60)	1,3,5-trimethylbenzene	17.01	105	61722	1.00	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	43399	1.00	ppb	99
62)	1,3-dichlorobenzene	17.67	146	46213	1.00	ppb	99
63)	benzyl chloride	17.74	91	26846	1.00	ppb	100
64)	1,4-dichlorobenzene	17.79	146	45613	1.00	ppb	100
65)	1,2-dichlorobenzene	18.07	146	39153	1.00	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	14034	1.00	ppb	97
67)	Hexachloro-1,3-butadiene	19.96	225	27034	1.00	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

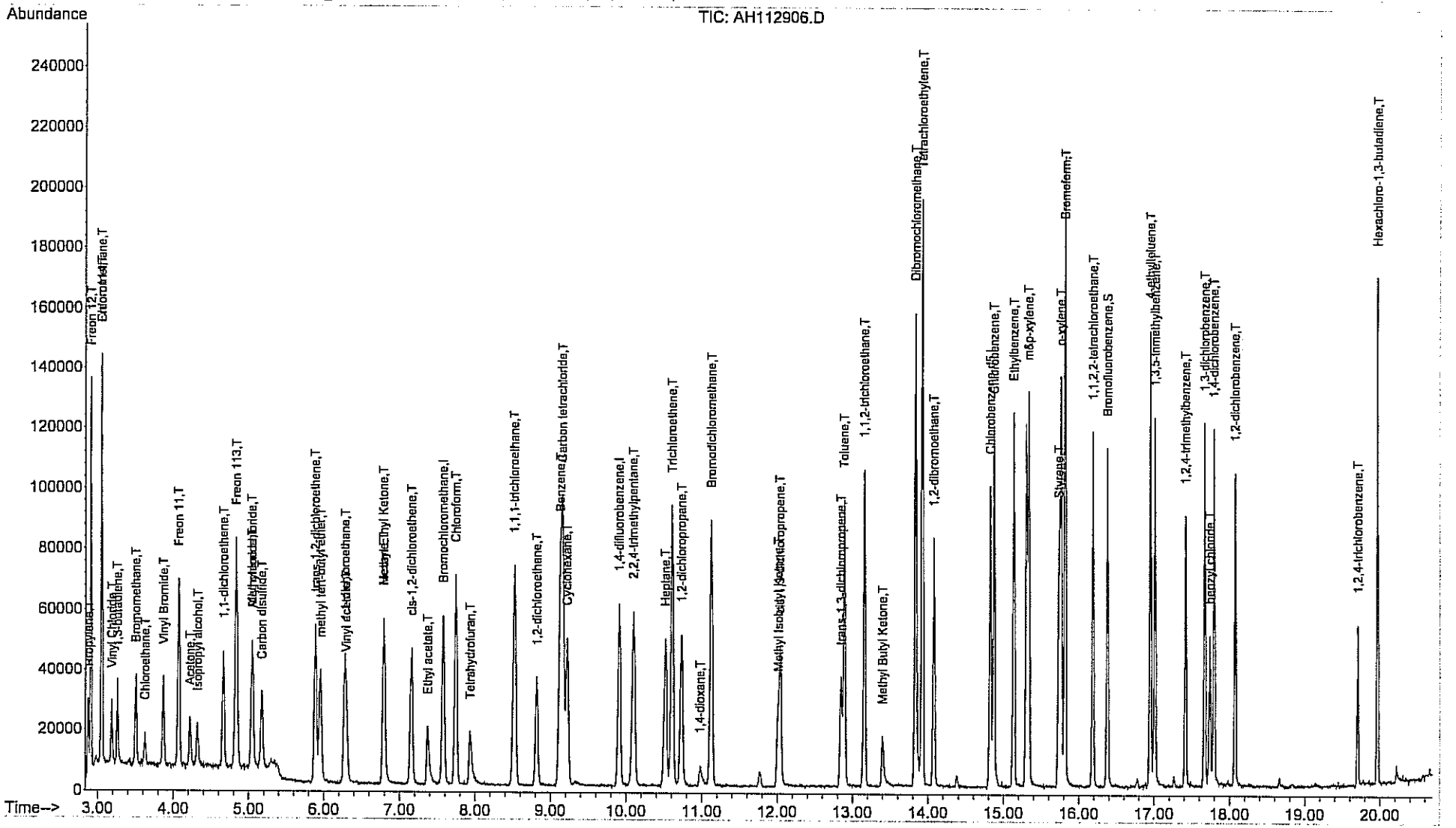
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112906.D
Acq On : 29 Nov 2010 4:47 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 29 17:35 2010

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112906.D AN29_1UG.M Tue Dec 28 14:26:21 2010 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112907.D Vial: 7
Acq On : 29 Nov 2010 5:21 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:36:56 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	21243	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	64233	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	55256	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	28289	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	8157	0.78	ppb	97
3) Freon 12	2.91	85	60775	0.75	ppb	98
4) Chloromethane	3.05	50	12846	0.74	ppb	97
5) Freon 114	3.05	85	34371	0.77	ppb	100
6) Vinyl Chloride	3.18	62	11101	0.80	ppb	98
7) 1,3-butadiene	3.26	39	7583	0.81	ppb	96
8) Bromomethane	3.50	94	12012	0.74	ppb	97
9) Chloroethane	3.63	64	4653	0.78	ppb	96
10) Vinyl Bromide	3.87	106	12645	0.74	ppb	95
11) Freon 11	4.07	101	34889	0.74	ppb	97
12) Acetone	4.22	58	4189	0.78	ppb	93
13) Isopropyl alcohol	4.32	45	10810	0.85	ppb	98
17) Allyl chloride	5.04	41	11044	0.85	ppb	84
19) trans-1,2-dichloroethene	5.89	61	22589	0.74	ppb	99
20) methyl tert-butyl ether	5.95	73	25595	0.73	ppb	99
21) 1,1-dichloroethane	6.28	63	30571	0.77	ppb	97
22) Vinyl acetate	6.31	43	18270	0.71	ppb	99
23) Methyl Ethyl Ketone	6.79	43	26291	0.74	ppb	99
24) cis-1,2-dichloroethene	7.15	61	21363	0.76	ppb	98
25) Hexane	6.80	41	12171	0.72	ppb	91
26) Ethyl acetate	7.38	43	19652	0.73	ppb	97
27) Chloroform	7.74	83	47247	0.75	ppb	98
28) Tetrahydrofuran	7.94	42	7778	0.67	ppb	98
29) 1,2-dichloroethane	8.82	62	27677	0.74	ppb	99
31) 1,1,1-trichloroethane	8.52	97	43392	0.76	ppb	100
32) Cyclohexane	9.22	56	15794	0.78	ppb	98
33) Carbon tetrachloride	9.16	117	54215	0.78	ppb	99
34) Benzene	9.13	78	47247	0.77	ppb	99
35) 1,4-dioxane	10.99	88	5808	0.78	ppb	93
36) 2,2,4-trimethylpentane	10.10	57	45458	0.75	ppb	99
37) Heptane	10.51	43	13905	0.74	ppb	98
38) Trichloroethene	10.60	130	31274	0.78	ppb	99
39) 1,2-dichloropropane	10.73	63	16424	0.76	ppb	99
40) Bromodichloromethane	11.12	83	51081	0.78	ppb	98
41) cis-1,3-dichloropropene	12.04	75	18636	0.73	ppb	100
42) trans-1,3-dichloropropene	12.85	75	14843	0.73	ppb	89
43) 1,1,2-trichloroethane	13.16	97	24797	0.77	ppb	98
45) Toluene	12.89	92	29377	0.72	ppb	99
46) Methyl Isobutyl Ketone	12.01	43	14756	0.89	ppb	97
47) Dibromochloromethane	13.83	129	61960	0.75	ppb	98
48) Methyl Butyl Ketone	13.39	43	11629	0.97	ppb	99
49) 1,2-dibromoethane	14.07	107	36759	0.75	ppb	99
50) Tetrachloroethylene	13.92	164	34803	0.78	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112907.D Vial: 7
Acq On : 29 Nov 2010 5:21 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:36:56 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
51)	Chlorobenzene	14.87	112	47226	0.72	ppb	99
52)	Ethylbenzene	15.13	91	54640	0.71	ppb	100
53)	m&p-xylene	15.33	91	93482	1.42	ppb	99
54)	Styrene	15.73	104	27972	0.69	ppb	100
55)	Bromoform	15.81	173	67634	0.74	ppb	99
56)	o-xylene	15.76	91	48481	0.68	ppb	99
58)	1,1,2,2-tetrachloroethane	16.18	83	34640	0.74	ppb	97
59)	4-ethyltoluene	16.94	105	51560	0.66	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	40974	0.67	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	28178	0.66	ppb	100
62)	1,3-dichlorobenzene	17.67	146	30883	0.68	ppb	100
63)	benzyl chloride	17.74	91	15983	0.60	ppb	100
64)	1,4-dichlorobenzene	17.79	146	29114	0.65	ppb	99
65)	1,2-dichlorobenzene	18.07	146	24752	0.64	ppb	97
66)	1,2,4-trichlorobenzene	19.70	180	8303m	0.60	ppb	
67)	Hexachloro-1,3-butadiene	19.96	225	16432	0.62	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

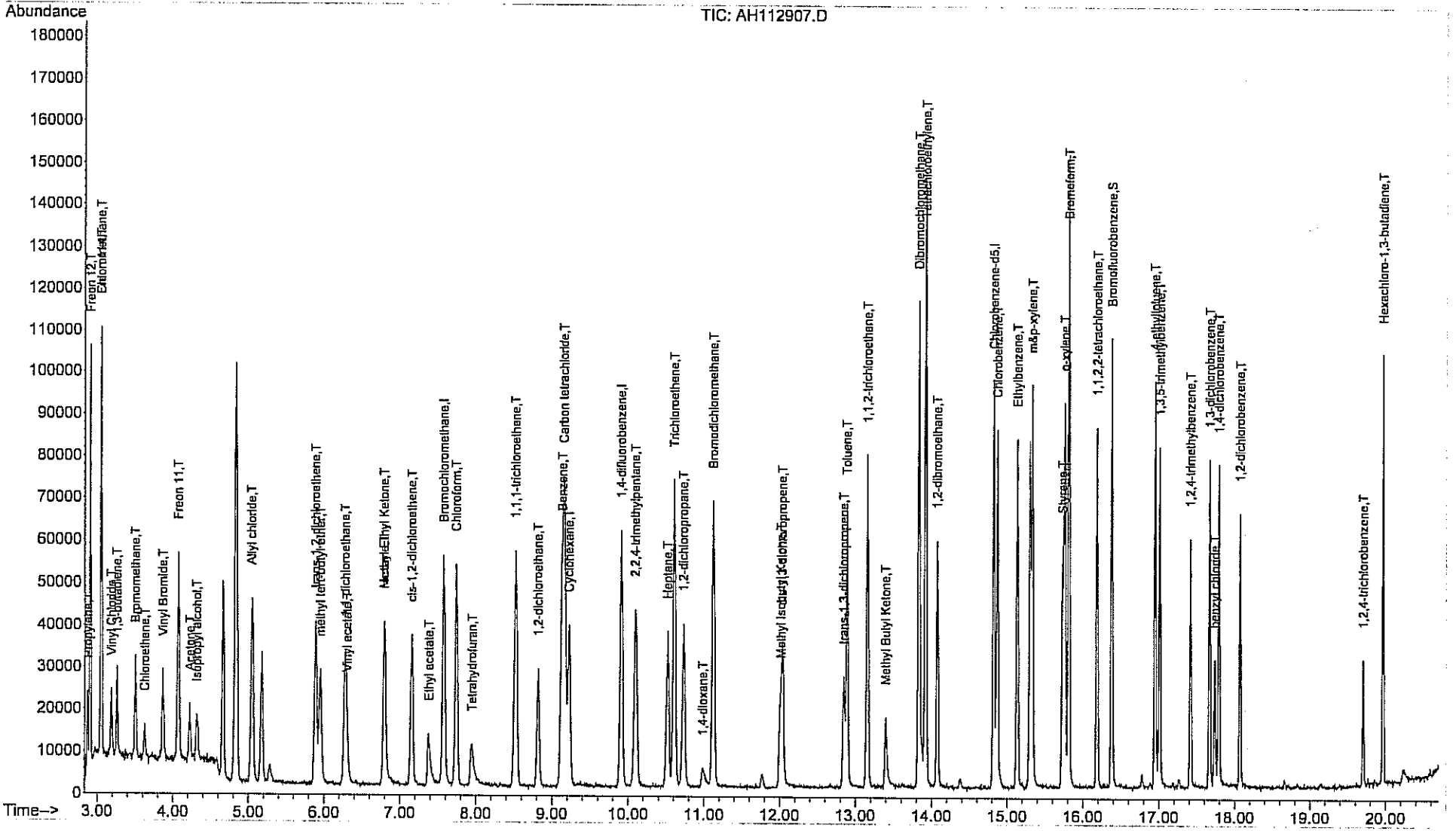
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112907.D
Acq On : 29 Nov 2010 5:21 pm
Sample : A1UG_0.75
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:55 2010

Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112908.D Vial: 8
Acq On : 29 Nov 2010 5:53 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:37:23 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.58	128	21186	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	67156	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	59337	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	28705	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	5219	0.50	ppb		86
3) Freon 12	2.91	85	41906	0.52	ppb		98
4) Chloromethane	3.05	50	8987	0.52	ppb		99
5) Freon 114	3.05	85	23655	0.53	ppb		99
6) Vinyl Chloride	3.18	62	7470	0.54	ppb		96
7) 1,3-butadiene	3.26	39	5418	0.58	ppb		99
8) Bromomethane	3.51	94	8476	0.52	ppb		97
9) Chloroethane	3.62	64	3029	0.51	ppb		91
10) Vinyl Bromide	3.87	106	9428	0.56	ppb		100
11) Freon 11	4.07	101	24012	0.51	ppb		98
12) Acetone	4.22	58	2875	0.54	ppb	#	77
13) Isopropyl alcohol	4.32	45	8263	0.65	ppb		95
14) 1,1-dichloroethene	4.67	96	8417	0.54	ppb		94
15) Freon 113	4.83	101	17695	0.53	ppb		99
16) Methylene chloride	5.06	84	6745	0.51	ppb		96
17) Allyl chloride	5.04	41	6830	0.53	ppb		98
18) Carbon disulfide	5.17	76	19697	0.52	ppb		98
19) trans-1,2-dichloroethene	5.89	61	16073	0.53	ppb		99
20) methyl tert-butyl ether	5.95	73	17207	0.49	ppb		96
21) 1,1-dichloroethane	6.28	63	20427	0.52	ppb		99
22) Vinyl acetate	6.30	43	12423	0.48	ppb		100
23) Methyl Ethyl Ketone	6.79	43	17464	0.49	ppb		96
24) cis-1,2-dichloroethene	7.15	61	14003	0.50	ppb		93
25) Hexane	6.79	41	8688	0.52	ppb	#	84
26) Ethyl acetate	7.38	43	13548	0.50	ppb		97
27) Chloroform	7.74	83	31357	0.50	ppb		100
28) Tetrahydrofuran	7.94	42	5755	0.50	ppb		97
29) 1,2-dichloroethane	8.82	62	18657	0.50	ppb		99
31) 1,1,1-trichloroethane	8.53	97	28761	0.48	ppb		100
32) Cyclohexane	9.22	56	9827	0.46	ppb		94
33) Carbon tetrachloride	9.16	117	37420	0.51	ppb		95
34) Benzene	9.13	78	32804	0.51	ppb		100
35) 1,4-dioxane	10.98	88	5356	0.69	ppb		99
36) 2,2,4-trimethylpentane	10.10	57	29891	0.47	ppb		99
37) Heptane	10.52	43	9278	0.47	ppb		97
38) Trichloroethene	10.60	130	20681	0.49	ppb		98
39) 1,2-dichloropropane	10.73	63	11102	0.49	ppb		97
40) Bromodichloromethane	11.12	83	32714	0.48	ppb		98
41) cis-1,3-dichloropropene	12.04	75	12767	0.48	ppb		99
42) trans-1,3-dichloropropene	12.84	75	9711	0.45	ppb		99
43) 1,1,2-trichloroethane	13.16	97	17020	0.51	ppb		98
45) Toluene	12.89	92	19213	0.44	ppb		97
46) Methyl Isobutyl Ketone	12.01	43	12323	0.69	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112908.D Vial: 8
Acq On : 29 Nov 2010 5:53 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:37:23 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	41387	0.47	ppb	99
48)	Methyl Butyl Ketone	13.39	43	10484m	0.81	ppb	
49)	1,2-dibromoethane	14.08	107	24483	0.47	ppb	98
50)	Tetrachloroethylene	13.93	164	23200	0.48	ppb	99
51)	Chlorobenzene	14.87	112	32066	0.46	ppb	98
52)	Ethylbenzene	15.13	91	36105	0.44	ppb	99
53)	m&p-xylene	15.33	91	57013	0.81	ppb	100
54)	Styrene	15.73	104	17665	0.41	ppb	99
55)	Bromoform	15.81	173	44189	0.45	ppb	99
56)	o-xylene	15.76	91	30452	0.40	ppb	96
58)	1,1,2,2-tetrachloroethane	16.18	83	23560	0.47	ppb	97
59)	4-ethyltoluene	16.95	105	33294	0.40	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	25652	0.39	ppb	100
61)	1,2,4-trimethylbenzene	17.42	105	18704	0.41	ppb	99
62)	1,3-dichlorobenzene	17.67	146	19966	0.41	ppb	97
63)	benzyl chloride	17.73	91	11888	0.42	ppb	96
64)	1,4-dichlorobenzene	17.79	146	19544	0.40	ppb	98
65)	1,2-dichlorobenzene	18.07	146	17013	0.41	ppb	99
66)	1,2,4-trichlorobenzene	19.70	180	6121	0.41	ppb	95
67)	Hexachloro-1,3-butadiene	19.96	225	12600	0.44	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

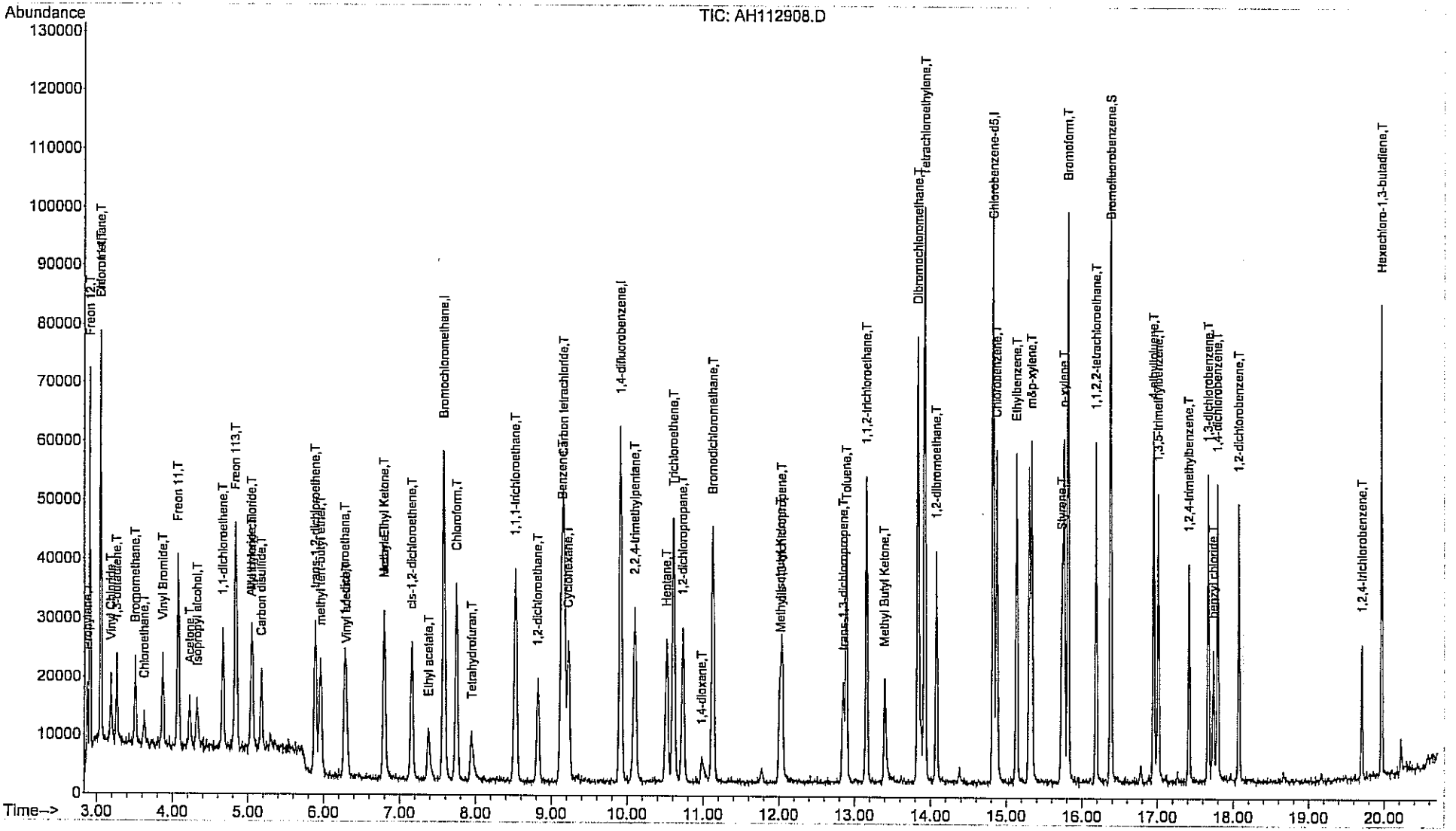
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112908.D
Acq On : 29 Nov 2010 5:53 pm
Sample : A1UG_0.50
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:57 2010

Vial: 8
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112908.D AN29_1UG.M Tue Dec 28 14:26:27 2010 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112909.D Vial: 9
Acq On : 29 Nov 2010 6:25 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:37:45 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.58	128	20527	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	62406	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	53433	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	23368	0.84	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 84.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	3516	0.35	ppb		88
3) Freon 12	2.91	85	25054	0.32	ppb		100
4) Chloromethane	3.05	50	5403	0.32	ppb		97
5) Freon 114	3.05	85	14202	0.33	ppb		99
6) Vinyl Chloride	3.19	62	4372	0.32	ppb		95
7) 1,3-butadiene	3.26	39	3527	0.39	ppb		91
8) Bromomethane	3.51	94	5253	0.33	ppb		97
9) Chloroethane	3.63	64	1962	0.34	ppb		99
10) Vinyl Bromide	3.87	106	5480	0.33	ppb		98
11) Freon 11	4.07	101	14734	0.33	ppb		98
12) Acetone	4.23	58	1799	0.35	ppb	#	70
13) Isopropyl alcohol	4.32	45	5134	0.42	ppb	#	38
14) 1,1-dichloroethene	4.67	96	4804	0.32	ppb		98
15) Freon 113	4.83	101	10820	0.34	ppb		99
16) Methylene chloride	5.06	84	5650m	0.44	ppb		
17) Allyl chloride	5.04	41	4831	0.38	ppb		96
18) Carbon disulfide	5.18	76	20139	0.55	ppb		98
19) trans-1,2-dichloroethene	5.89	61	9189	0.31	ppb		98
20) methyl tert-butyl ether	5.95	73	8940	0.26	ppb		98
21) 1,1-dichloroethane	6.28	63	11920	0.31	ppb		100
22) Vinyl acetate	6.31	43	6543	0.26	ppb		100
23) Methyl Ethyl Ketone	6.80	43	9133	0.27	ppb		91
24) cis-1,2-dichloroethene	7.15	61	8311	0.31	ppb		95
25) Hexane	6.80	41	4892	0.30	ppb	#	79
26) Ethyl acetate	7.39	43	6325	0.24	ppb		81
27) Chloroform	7.74	83	19440	0.32	ppb		96
28) Tetrahydrofuran	7.96	42	2888	0.26	ppb		89
29) 1,2-dichloroethane	8.82	62	10821	0.30	ppb		99
31) 1,1,1-trichloroethane	8.52	97	17035	0.31	ppb		98
32) Cyclohexane	9.22	56	5636	0.29	ppb		90
33) Carbon tetrachloride	9.16	117	21704	0.32	ppb		99
34) Benzene	9.13	78	18088	0.30	ppb		97
35) 1,4-dioxane	11.03	88	2220m	0.31	ppb		
36) 2,2,4-trimethylpentane	10.10	57	17199	0.29	ppb		98
37) Heptane	10.52	43	5488	0.30	ppb		97
38) Trichloroethene	10.61	130	11883	0.30	ppb		96
39) 1,2-dichloropropane	10.74	63	6455	0.31	ppb		99
40) Bromodichloromethane	11.13	83	19758	0.31	ppb		99
41) cis-1,3-dichloropropene	12.04	75	7034	0.28	ppb		98
42) trans-1,3-dichloropropene	12.85	75	5651	0.28	ppb		99
43) 1,1,2-trichloroethane	13.16	97	9773	0.31	ppb		97
45) Toluene	12.89	92	10499	0.26	ppb		99
46) Methyl Isobutyl Ketone	12.01	43	5066	0.31	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112909.D Vial: 9
Acq On : 29 Nov 2010 6:25 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 29 19:37:45 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.84	129	23728	0.30	ppb	99
48)	Methyl Butyl Ketone	13.41	43	5094	0.44	ppb	90
49)	1,2-dibromoethane	14.08	107	14193	0.30	ppb	99
50)	Tetrachloroethylene	13.92	164	13402	0.31	ppb	98
51)	Chlorobenzene	14.87	112	18456	0.29	ppb	98
52)	Ethylbenzene	15.13	91	18695	0.25	ppb	98
53)	m&p-xylene	15.33	91	28774	0.45	ppb	99
54)	Styrene	15.73	104	9095	0.23	ppb	97
55)	Bromoform	15.82	173	24963	0.28	ppb	100
56)	o-xylene	15.76	91	14922	0.22	ppb	98
58)	1,1,2,2-tetrachloroethane	16.19	83	12684	0.28	ppb	100
59)	4-ethyltoluene	16.94	105	16457	0.22	ppb	99
60)	1,3,5-trimethylbenzene	17.01	105	11619m	0.20	ppb	
61)	1,2,4-trimethylbenzene	17.41	105	8591	0.21	ppb	97
62)	1,3-dichlorobenzene	17.67	146	10905	0.25	ppb	97
63)	benzyl chloride	17.74	91	5619	0.22	ppb	90
64)	1,4-dichlorobenzene	17.79	146	10708	0.25	ppb	99
65)	1,2-dichlorobenzene	18.07	146	9084	0.24	ppb	100
66)	1,2,4-trichlorobenzene	19.70	180	2954	0.22	ppb	97
67)	Hexachloro-1,3-butadiene	19.97	225	6802	0.26	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

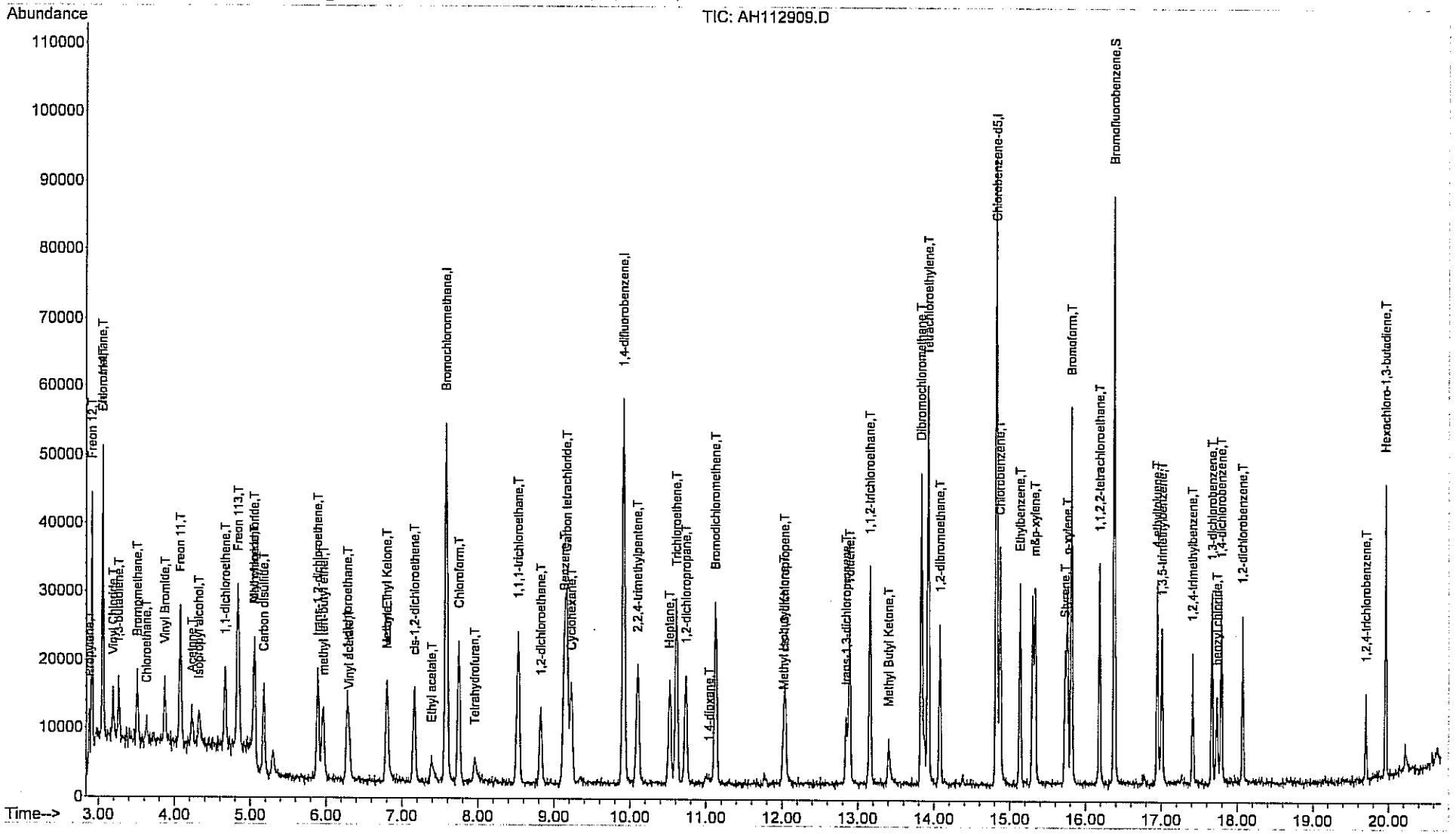
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112909.D
Acq On : 29 Nov 2010 6:25 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 11:11 2010

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112912.D
Acq On : 29 Nov 2010 8:00 pm
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:52:42 2010

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	19612	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	58967	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	46919m	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	19898	0.81	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.19	62	921	0.07	ppb	80
33) Carbon tetrachloride	9.17	117	4350	0.07	ppb	100
38) Trichloroethene	10.60	130	2430	0.07	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

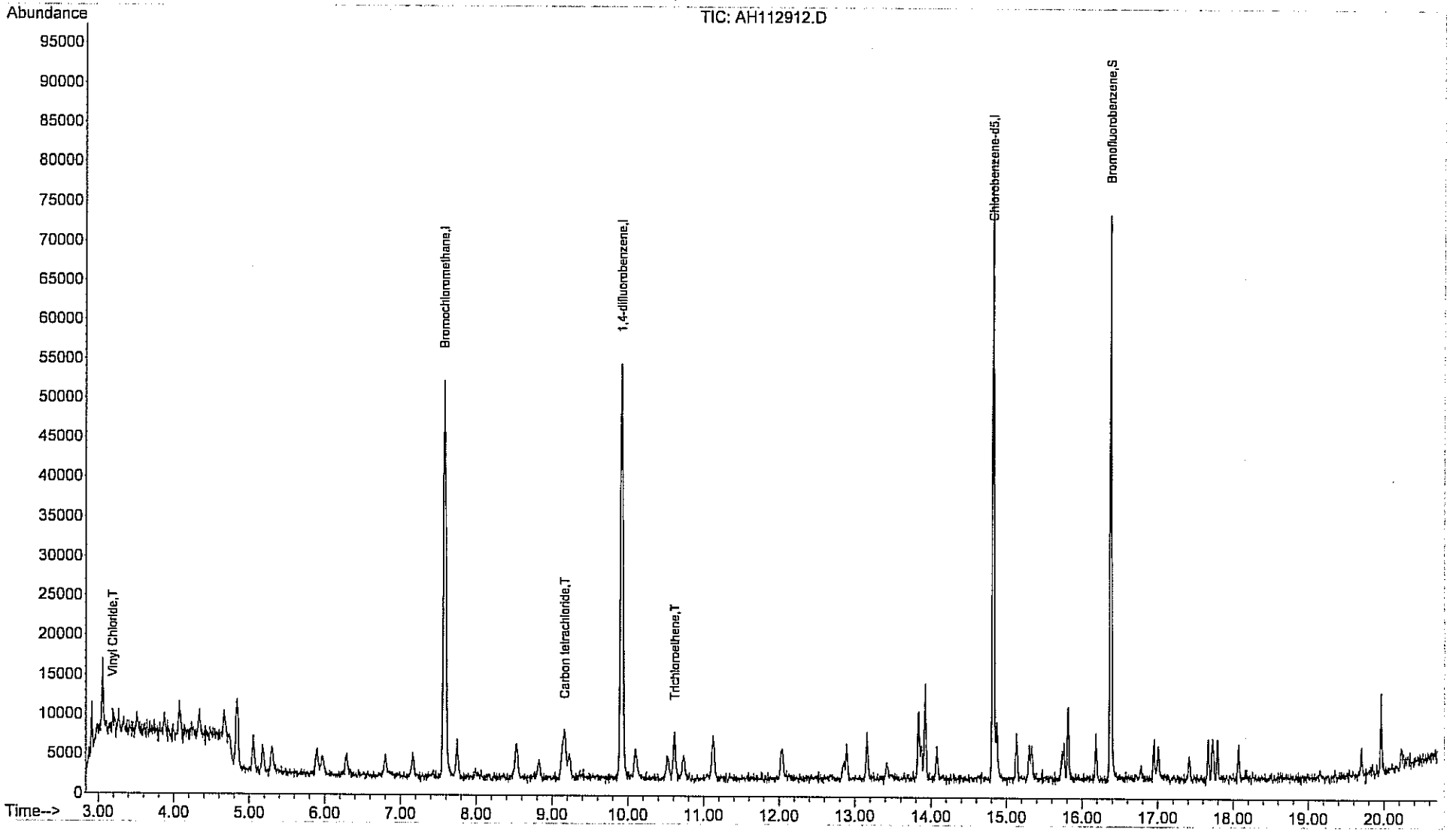
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112912.D
Acq On : 29 Nov 2010 8:00 pm
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:59 2010

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112912.D AN29_1UG.M Tue Dec 28 14:26:33 2010 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112913.D Vial: 13
Acq On : 29 Nov 2010 8:32 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:53:10 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	21175	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	61763	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	54088	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	28025	0.99	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 99.00%			
Target Compounds						Qvalue
2) Propylene	2.88	41	20092	1.93	ppb	96
3) Freon 12	2.92	85	158498	1.97	ppb	99
4) Chloromethane	3.05	50	32156	1.86	ppb	97
5) Freon 114	3.05	85	84602	1.89	ppb	98
6) Vinyl Chloride	3.19	62	26831	1.93	ppb	99
7) 1,3-butadiene	3.27	39	18684	2.00	ppb	97
8) Bromomethane	3.51	94	30233	1.86	ppb	97
9) Chloroethane	3.63	64	11564	1.94	ppb	100
10) Vinyl Bromide	3.87	106	33333	1.96	ppb	100
11) Freon 11	4.08	101	89918	1.92	ppb	99
12) Acetone	4.22	58	9886	1.85	ppb	96
13) Isopropyl alcohol	4.33	45	23378m	1.85	ppb	
14) 1,1-dichloroethene	4.67	96	29568	1.90	ppb	97
15) Freon 113	4.84	101	88065	2.65	ppb	99
16) Methylene chloride	5.06	84	38298m	2.89	ppb	
17) Allyl chloride	5.04	41	28722	2.21	ppb	83
18) Carbon disulfide	5.18	76	123594	3.26	ppb	98
19) trans-1,2-dichloroethene	5.89	61	59249	1.95	ppb	98
20) methyl tert-butyl ether	5.95	73	66481	1.89	ppb	96
21) 1,1-dichloroethane	6.28	63	76269	1.94	ppb	98
22) Vinyl acetate	6.31	43	50057	1.95	ppb	100
23) Methyl Ethyl Ketone	6.79	43	70581	1.99	ppb	97
24) cis-1,2-dichloroethene	7.16	61	54233	1.93	ppb	95
25) Hexane	6.80	41	32099	1.92	ppb	94
26) Ethyl acetate	7.37	43	55419	2.06	ppb	98
27) Chloroform	7.75	83	119599	1.91	ppb	99
28) Tetrahydrofuran	7.93	42	23380	2.02	ppb	98
29) 1,2-dichloroethane	8.82	62	71247	1.91	ppb	100
31) 1,1,1-trichloroethane	8.53	97	111464	2.04	ppb	98
32) Cyclohexane	9.23	56	42755	2.19	ppb	98
33) Carbon tetrachloride	9.16	117	139175	2.07	ppb	99
34) Benzene	9.13	78	124618	2.10	ppb	95
35) 1,4-dioxane	10.98	88	13334	1.87	ppb	98
36) 2,2,4-trimethylpentane	10.10	57	122409	2.11	ppb	97
37) Heptane	10.52	43	38407	2.12	ppb	95
38) Trichloroethene	10.61	130	79764	2.06	ppb	99
39) 1,2-dichloropropane	10.73	63	43692	2.09	ppb	95
40) Bromodichloromethane	11.12	83	132918	2.10	ppb	98
41) cis-1,3-dichloropropene	12.04	75	52996	2.16	ppb	100
42) trans-1,3-dichloropropene	12.85	75	41949	2.14	ppb	97
43) 1,1,2-trichloroethane	13.16	97	65390	2.12	ppb	98
45) Toluene	12.89	92	87077	2.17	ppb	100
46) Methyl Isobutyl Ketone	12.01	43	29506	1.81	ppb	97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112913.D Vial: 13
Acq On : 29 Nov 2010 8:32 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:53:10 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	167461	2.07	ppb	100
48)	Methyl Butyl Ketone	13.40	43	20987m	1.79	ppb	
49)	1,2-dibromoethane	14.08	107	99258	2.08	ppb	98
50)	Tetrachloroethylene	13.93	164	88986	2.02	ppb	99
51)	Chlorobenzene	14.87	112	130289	2.03	ppb	100
52)	Ethylbenzene	15.13	91	171781	2.27	ppb	99
53)	m&p-xylene	15.33	91	288021	4.47	ppb	99
54)	Styrene	15.73	104	91566	2.32	ppb	99
55)	Bromoform	15.81	173	187868	2.11	ppb	99
56)	o-xylene	15.76	91	156307	2.25	ppb	99
58)	1,1,2,2-tetrachloroethane	16.18	83	92657	2.03	ppb	99
59)	4-ethyltoluene	16.95	105	183783	2.41	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	136445	2.29	ppb	98
61)	1,2,4-trimethylbenzene	17.41	105	100932	2.41	ppb	99
62)	1,3-dichlorobenzene	17.67	146	94834	2.13	ppb	99
63)	benzyl chloride	17.74	91	54280	2.10	ppb	99
64)	1,4-dichlorobenzene	17.79	146	95523	2.17	ppb	100
65)	1,2-dichlorobenzene	18.07	146	78312	2.07	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	24424	1.80	ppb	100
67)	Hexachloro-1,3-butadiene	19.96	225	46408	1.78	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

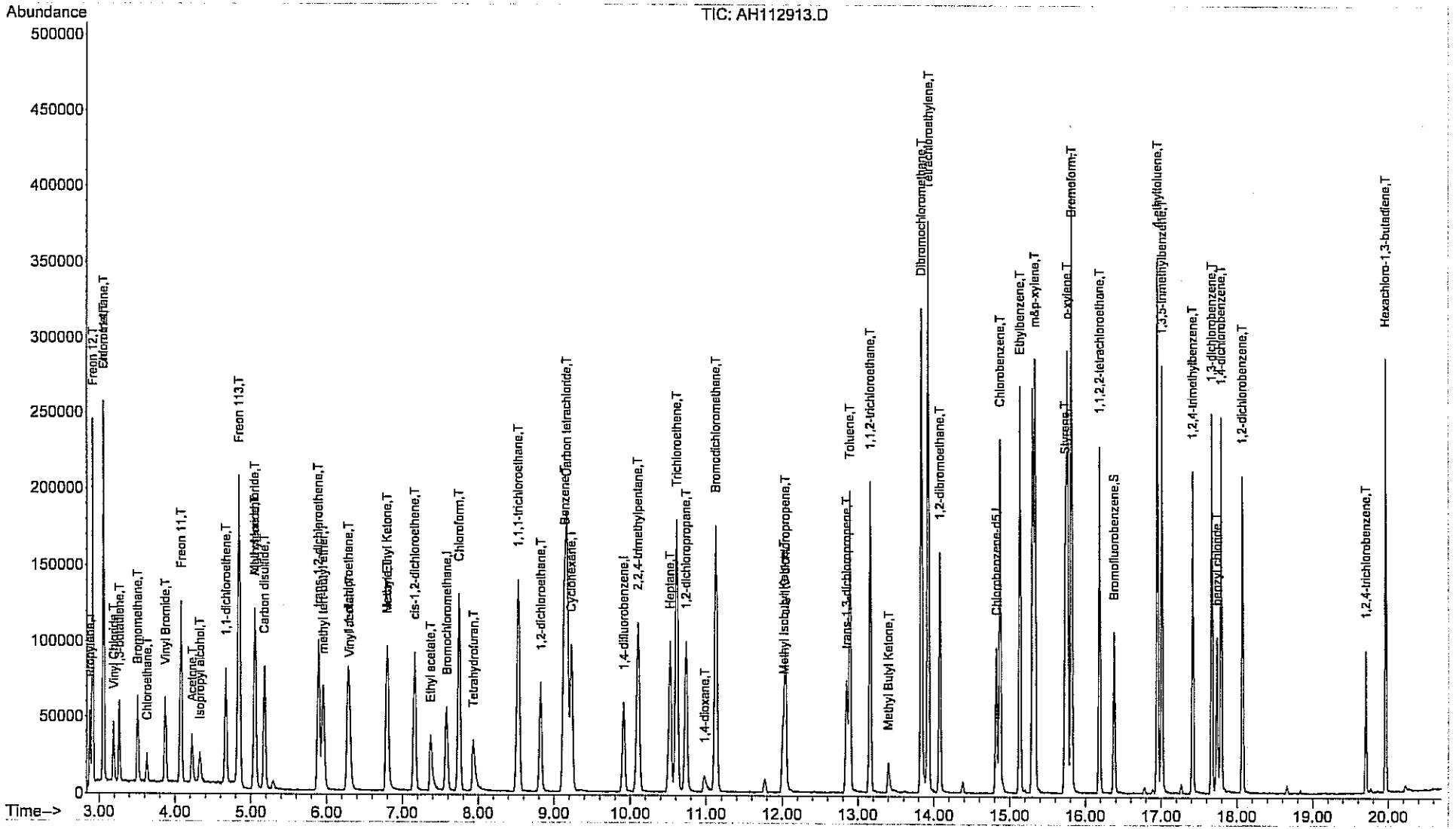
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112913.D
Acq On : 29 Nov 2010 8:32 pm
Sample : A1UG_2.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 11:08 2010

Vial: 13
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112913.D AN29_1UG.M Tue Dec 28 14:26:35 2010 MSD1

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112915.D Vial: 15
Acq On : 29 Nov 2010 9:35 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:53:33 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.58	128	20533	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	62383	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	49450	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	22836	0.89	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 89.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	1865	0.19	ppb		80
3) Freon 12	2.91	85	12619	0.16	ppb		96
4) Chloromethane	3.05	50	2783	0.17	ppb		92
5) Freon 114	3.05	85	7417	0.17	ppb		99
6) Vinyl Chloride	3.19	62	2275	0.17	ppb		98
7) 1,3-butadiene	3.26	39	1786	0.20	ppb		98
8) Bromomethane	3.51	94	2504	0.16	ppb		87
9) Chloroethane	3.63	64	1060	0.18	ppb		95
10) Vinyl Bromide	3.87	106	2563	0.16	ppb		94
11) Freon 11	4.07	101	7483	0.17	ppb		98
12) Acetone	4.23	58	933	0.18	ppb	#	81
13) Isopropyl alcohol	4.33	45	3198m	0.26	ppb		
14) 1,1-dichloroethene	4.68	96	2894	0.19	ppb		91
15) Freon 113	4.84	101	5367	0.17	ppb		97
16) Methylene chloride	5.06	84	3526m	0.27	ppb		
17) Allyl chloride	5.04	41	2452	0.19	ppb		85
18) Carbon disulfide	5.18	76	10674	0.29	ppb		98
19) trans-1,2-dichloroethene	5.89	61	4477	0.15	ppb		98
20) methyl tert-butyl ether	5.96	73	4235	0.12	ppb	#	46
21) 1,1-dichloroethane	6.28	63	6183	0.16	ppb		96
22) Vinyl acetate	6.32	43	3132	0.13	ppb		85
23) Methyl Ethyl Ketone	6.81	43	4859	0.14	ppb		97
24) cis-1,2-dichloroethene	7.16	61	4232	0.16	ppb		97
25) Hexane	6.79	41	2650	0.16	ppb	#	74
26) Ethyl acetate	7.40	43	4175m	0.16	ppb		
27) Chloroform	7.75	83	9463	0.16	ppb		99
28) Tetrahydrofuran	7.97	42	1616m	0.14	ppb		
29) 1,2-dichloroethane	8.83	62	5481	0.15	ppb		96
31) 1,1,1-trichloroethane	8.53	97	8635	0.16	ppb		96
32) Cyclohexane	9.22	56	2917	0.15	ppb	#	55
33) Carbon tetrachloride	9.17	117	11297	0.17	ppb		98
34) Benzene	9.12	78	9094	0.15	ppb		98
36) 2,2,4-trimethylpentane	10.09	57	9190	0.16	ppb		97
37) Heptane	10.51	43	3104	0.17	ppb		89
38) Trichloroethene	10.61	130	6240	0.16	ppb		96
39) 1,2-dichloropropane	10.74	63	3323	0.16	ppb		99
40) Bromodichloromethane	11.12	83	10151	0.16	ppb		96
41) cis-1,3-dichloropropene	12.04	75	3520	0.14	ppb		98
42) trans-1,3-dichloropropene	12.85	75	2591	0.13	ppb		91
43) 1,1,2-trichloroethane	13.15	97	4707	0.15	ppb		97
45) Toluene	12.89	92	4826	0.13	ppb		95
47) Dibromochloromethane	13.84	129	11741	0.16	ppb		98
49) 1,2-dibromoethane	14.07	107	6625	0.15	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112915.D Vial: 15
Acq On : 29 Nov 2010 9:35 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 30 10:53:33 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Nov 29 17:34:46 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
50)	Tetrachloroethylene	13.92	164	6778	0.17	ppb	98
51)	Chlorobenzene	14.87	112	8600	0.15	ppb	96
52)	Ethylbenzene	15.14	91	8735m	0.13	ppb	
53)	m&p-xylene	15.33	91	12018	0.20	ppb	99
54)	Styrene	15.73	104	4708m	0.13	ppb	
55)	Bromoform	15.81	173	11692	0.14	ppb	97
56)	o-xylene	15.76	91	8632m	0.14	ppb	
58)	1,1,2,2-tetrachloroethane	16.19	83	5531	0.13	ppb	100
62)	1,3-dichlorobenzene	17.66	146	4231	0.10	ppb	93
63)	benzyl chloride	17.74	91	2580	0.11	ppb	97
64)	1,4-dichlorobenzene	17.79	146	4538	0.11	ppb	99
65)	1,2-dichlorobenzene	18.07	146	3820	0.11	ppb	96
66)	1,2,4-trichlorobenzene	19.70	180	2017	0.16	ppb	98
67)	Hexachloro-1,3-butadiene	19.96	225	3443	0.14	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

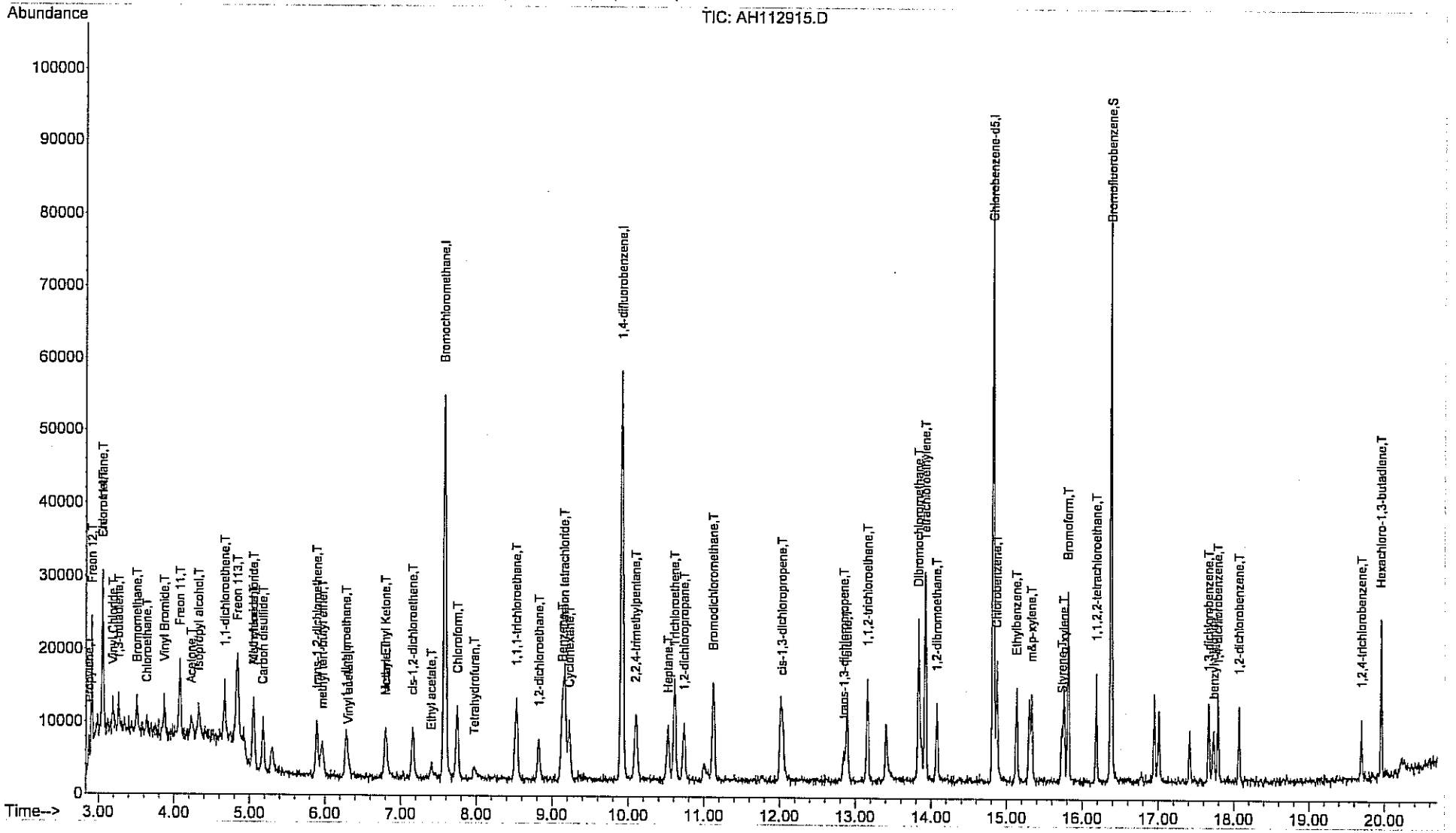
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH112915.D
Acq On : 29 Nov 2010 9:35 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Nov 30 11:08 2010

Vial: 15
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AH112906.D



AH112915.D AN29_1UG.M Tue Dec 28 14:26:38 2010 MSD1

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Initial Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH120703.D Vial: 3
Acq On : 7 Dec 2010 2:12 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	97	0.00
2	T	Propylene	0.521	0.532	-2.1	106	0.00
3	T	Freon 12	3.878	3.901	-0.6	100	0.00
4	T	Chloromethane	0.828	0.898	-8.5	107	0.00
5	T	Freon 114	2.176	2.386	-9.7	110	0.00
6	T	Vinyl Chloride	0.741	0.691	6.7	102	0.00
7	T	1,3-butadiene	0.491	0.447	9.0	98	0.00
8	T	Bromomethane	0.773	0.708	8.4	89	0.00
9	T	Chloroethane	0.293	0.286	2.4	99	0.00
10	T	Vinyl Bromide	0.831	0.786	5.4	95	0.00
11	T	Freon 11	2.249	2.153	4.3	95	0.00
12	T	Acetone	0.271	0.312	-15.1	120	0.00
13	T	Isopropyl alcohol	0.719	0.746	-3.8	121	0.00
14	T	1,1-dichloroethene	0.775	0.743	4.1	98	0.00
15	T	Freon 113	1.703	1.599	6.1	99	0.00
16	T	Methylene chloride	0.782	0.677	13.4	105	0.00
17	T	Allyl chloride	0.681	0.662	2.8	105	0.00
18	T	Carbon disulfide	2.578	3.132	-21.5	170#	0.00
19	T	trans-1,2-dichloroethene	1.455	1.475	-1.4	100	0.00
20	T	methyl tert-butyl ether	1.597	2.023	-26.7	119	0.00
21	T	1,1-dichloroethane	1.900	1.906	-0.3	100	0.00
22	T	Vinyl acetate	1.167	1.346	-15.3	108	0.00
23	T	Methyl Ethyl Ketone	1.673	1.951	-16.6	114	0.00
24	T	cis-1,2-dichloroethene	1.334	1.374	-3.0	101	0.00
25	T	Hexane	0.794	0.895	-12.7	110	0.00
26	T	Ethyl acetate	1.273	1.411	-10.8	108	0.00
27	T	Chloroform	2.983	2.905	2.6	96	0.00
28	T	Tetrahydrofuran	0.534	0.612	-14.6	110	0.00
29	T	1,2-dichloroethane	1.752	1.777	-1.4	98	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	105	0.00
31	T	1,1,1-trichloroethane	0.893	0.876	1.9	104	0.00
32	T	Cyclohexane	0.320	0.331	-3.4	110	0.00
33	T	Carbon tetrachloride	1.210	1.066	11.9	103	0.00
34	T	Benzene	0.978	0.948	3.1	103	0.00
35	T	1,4-dioxane	0.129	0.093	27.9	86	0.00
36	T	2,2,4-trimethylpentane	0.947	0.935	1.3	104	0.00
37	T	Heptane	0.299	0.287	4.0	102	0.00
38	T	Trichloroethene	0.680	0.583	14.3	97	0.00
39	T	1,2-dichloropropane	0.343	0.315	8.2	98	0.00
40	T	Bromodichloromethane	1.044	0.951	8.9	97	0.00
41	T	cis-1,3-dichloropropene	0.398	0.363	8.8	96	0.00
42	T	trans-1,3-dichloropropene	0.311	0.312	-0.3	103	0.00
43	T	1,1,2-trichloroethane	0.513	0.465	9.4	97	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	106	0.00
45	T	Toluene	0.718	0.693	3.5	99	0.00
46	T	Methyl Isobutyl Ketone	0.345	0.272	21.2	96	0.00
47	T	Dibromochloromethane	1.503	1.339	10.9	95	0.00
48	T	Methyl Butyl Ketone	0.276	0.220	20.3	107	0.00
49	T	1,2-dibromoethane	0.882	0.788	10.7	95	0.00

(#) = Out of Range

Results Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AH120703.D Vial: 3
Acq On : 7 Dec 2010 2:12 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.826	0.746	9.7	97	0.00
51	T	Chlorobenzene	1.161	1.081	6.9	97	0.00
52	T	Ethylbenzene	1.350	1.287	4.7	98	0.00
53	T	m&p-xylene	1.103	1.095	0.7	97	0.00
54	T	Styrene	0.698	0.686	1.7	100	0.00
55	T	Bromoform	1.620	1.468	9.4	95	0.00
56	T	o-xylene	1.215	1.157	4.8	96	0.00
57	S	Bromofluorobenzene	0.486	0.525	-8.0	107	0.00
58	T	1,1,2,2-tetrachloroethane	0.817	0.759	7.1	95	0.00
59	T	4-ethyltoluene	1.308	1.350	-3.2	102	0.00
60	T	1,3,5-trimethylbenzene	0.996	1.049	-5.3	101	0.00
61	T	1,2,4-trimethylbenzene	0.714	0.764	-7.0	105	0.00
62	T	1,3-dichlorobenzene	0.750	0.762	-1.6	98	0.00
63	T	benzyl chloride	0.430	0.550	-27.9	122	0.00
64	T	1,4-dichlorobenzene	0.746	0.740	0.8	96	0.00
65	T	1,2-dichlorobenzene	0.631	0.672	-6.5	102	0.00
66	T	1,2,4-trichlorobenzene	0.227	0.282	-24.2	120	0.00
67	T	Hexachloro-1,3-butadiene	0.440	0.500	-13.6	110	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AH120703.D AN29_1UG.M Sat Jan 15 12:18:55 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120703.D Vial: 3
Acq On : 7 Dec 2010 2:12 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 14:33:33 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.58	128	20719	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.91	114	68654	1.00	ppb		0.00
44) Chlorobenzene-d5	14.82	117	59479	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.38	95	31209	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	11032	1.02	ppb		90
3) Freon 12	2.92	85	80822	1.01	ppb		99
4) Chloromethane	3.06	50	18611	1.09	ppb		100
5) Freon 114	3.06	85	49431	1.10	ppb		98
6) Vinyl Chloride	3.19	62	14315	0.93	ppb		98
7) 1,3-butadiene	3.27	39	9254	0.91	ppb		93
8) Bromomethane	3.51	94	14662	0.92	ppb		97
9) Chloroethane	3.63	64	5918	0.97	ppb		92
10) Vinyl Bromide	3.87	106	16278	0.95	ppb		94
11) Freon 11	4.08	101	44604	0.96	ppb		99
12) Acetone	4.23	58	6458	1.15	ppb	#	77
13) Isopropyl alcohol	4.34	45	15449	1.04	ppb		86
14) 1,1-dichloroethene	4.67	96	15388	0.96	ppb		99
15) Freon 113	4.84	101	33126	0.94	ppb		96
16) Methylene chloride	5.07	84	14031	0.87	ppb		96
17) Allyl chloride	5.05	41	13713	0.97	ppb		97
18) Carbon disulfide	5.18	76	64885	1.21	ppb		99
19) trans-1,2-dichloroethene	5.89	61	30555	1.01	ppb		99
20) methyl tert-butyl ether	5.97	73	41908m	1.27	ppb		
21) 1,1-dichloroethane	6.28	63	39500	1.00	ppb		99
22) Vinyl acetate	6.32	43	27896	1.15	ppb		98
23) Methyl Ethyl Ketone	6.79	43	40416	1.17	ppb		100
24) cis-1,2-dichloroethene	7.16	61	28473	1.03	ppb		99
25) Hexane	6.80	41	18535	1.13	ppb		92
26) Ethyl acetate	7.38	43	29238	1.11	ppb		99
27) Chloroform	7.75	83	60190	0.97	ppb		97
28) Tetrahydrofuran	7.95	42	12671	1.15	ppb		99
29) 1,2-dichloroethane	8.82	62	36809	1.01	ppb		100
31) 1,1,1-trichloroethane	8.52	97	60153	0.98	ppb		100
32) Cyclohexane	9.22	56	22727	1.03	ppb		98
33) Carbon tetrachloride	9.16	117	73162	0.88	ppb		98
34) Benzene	9.13	78	65091	0.97	ppb		99
35) 1,4-dioxane	11.01	88	6395m	0.72	ppb		
36) 2,2,4-trimethylpentane	10.10	57	64165	0.99	ppb		99
37) Heptane	10.52	43	19674	0.96	ppb		97
38) Trichloroethene	10.61	130	40054	0.86	ppb		99
39) 1,2-dichloropropane	10.73	63	21644	0.92	ppb		98
40) Bromodichloromethane	11.12	83	65307	0.91	ppb		100
41) cis-1,3-dichloropropene	12.04	75	24930	0.91	ppb		99
42) trans-1,3-dichloropropene	12.84	75	21403	1.00	ppb		99
43) 1,1,2-trichloroethane	13.15	97	31927	0.91	ppb		98
45) Toluene	12.89	92	41220	0.96	ppb		98
46) Methyl Isobutyl Ketone	12.02	43	16168m	0.79	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120703.D Vial: 3
Acq On : 7 Dec 2010 2:12 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 14:33:33 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

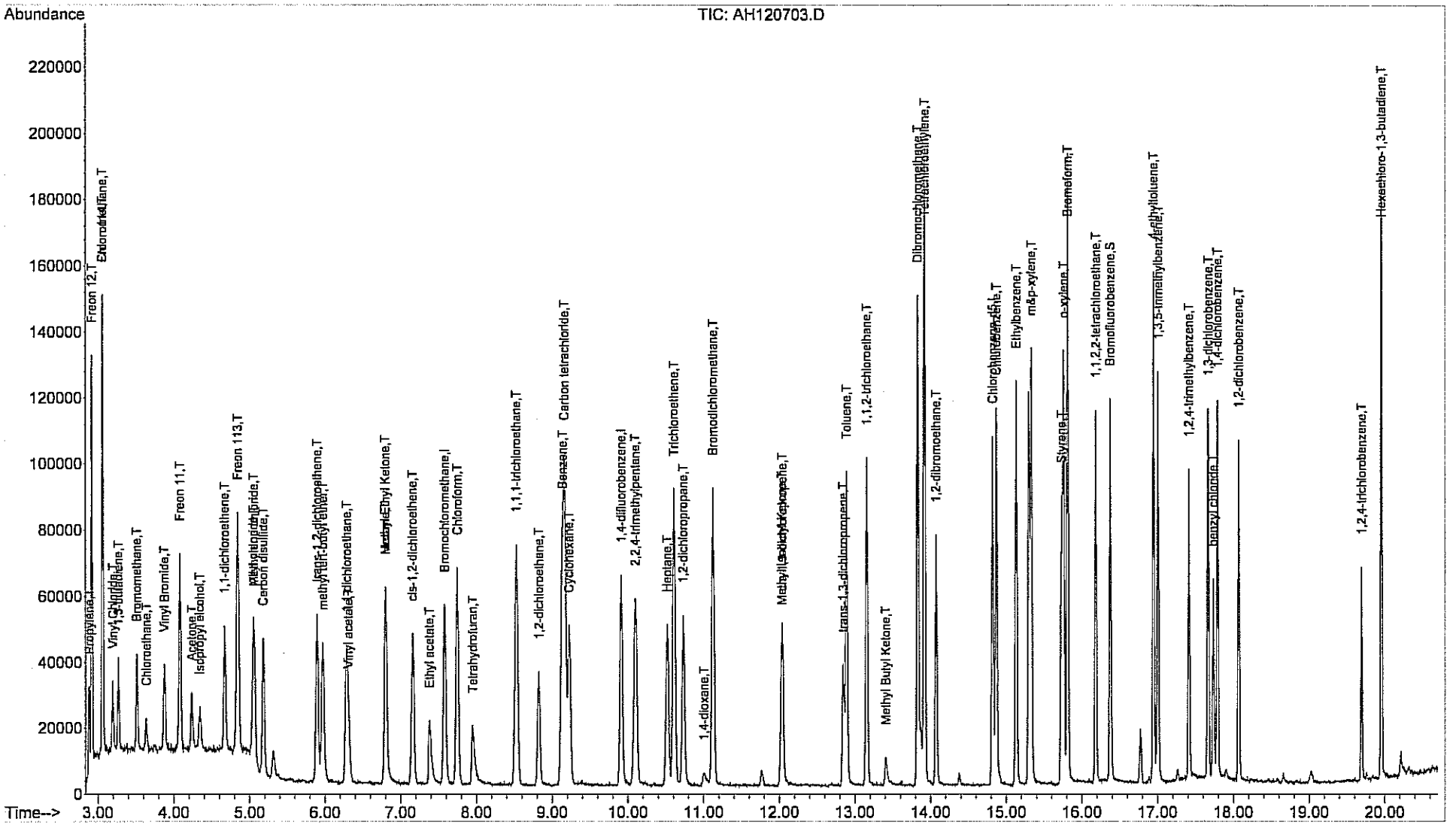
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	79666	0.89	ppb	100
48)	Methyl Butyl Ketone	13.41	43	13076m	0.80	ppb	
49)	1,2-dibromoethane	14.07	107	46856	0.89	ppb	98
50)	Tetrachloroethylene	13.92	164	44377	0.90	ppb	100
51)	Chlorobenzene	14.87	112	64287	0.93	ppb	98
52)	Ethylbenzene	15.13	91	76557	0.95	ppb	99
53)	m&p-xylene	15.33	91	130253	1.99	ppb	98
54)	Styrene	15.73	104	40784	0.98	ppb	99
55)	Bromoform	15.81	173	87316	0.91	ppb	98
56)	o-xylene	15.76	91	68794	0.95	ppb	100
58)	1,1,2,2-tetrachloroethane	16.18	83	45118	0.93	ppb	99
59)	4-ethyltoluene	16.94	105	80326	1.03	ppb	98
60)	1,3,5-trimethylbenzene	17.01	105	62377	1.05	ppb	98
61)	1,2,4-trimethylbenzene	17.41	105	45431	1.07	ppb	100
62)	1,3-dichlorobenzene	17.67	146	45311	1.02	ppb	98
63)	benzyl chloride	17.73	91	32737m	1.28	ppb	
64)	1,4-dichlorobenzene	17.79	146	43997	0.99	ppb	99
65)	1,2-dichlorobenzene	18.07	146	39967	1.07	ppb	100
66)	1,2,4-trichlorobenzene	19.70	180	16776	1.24	ppb	100
67)	Hexachloro-1,3-butadiene	19.95	225	29711	1.14	ppb	100

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120703.D Vial: 3
Acq On : 7 Dec 2010 2:12 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 7 14:55 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



AH120703.D AN29_1UG.M Sat Jan 15 12:18:59 2011 MSD1 Page 3

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

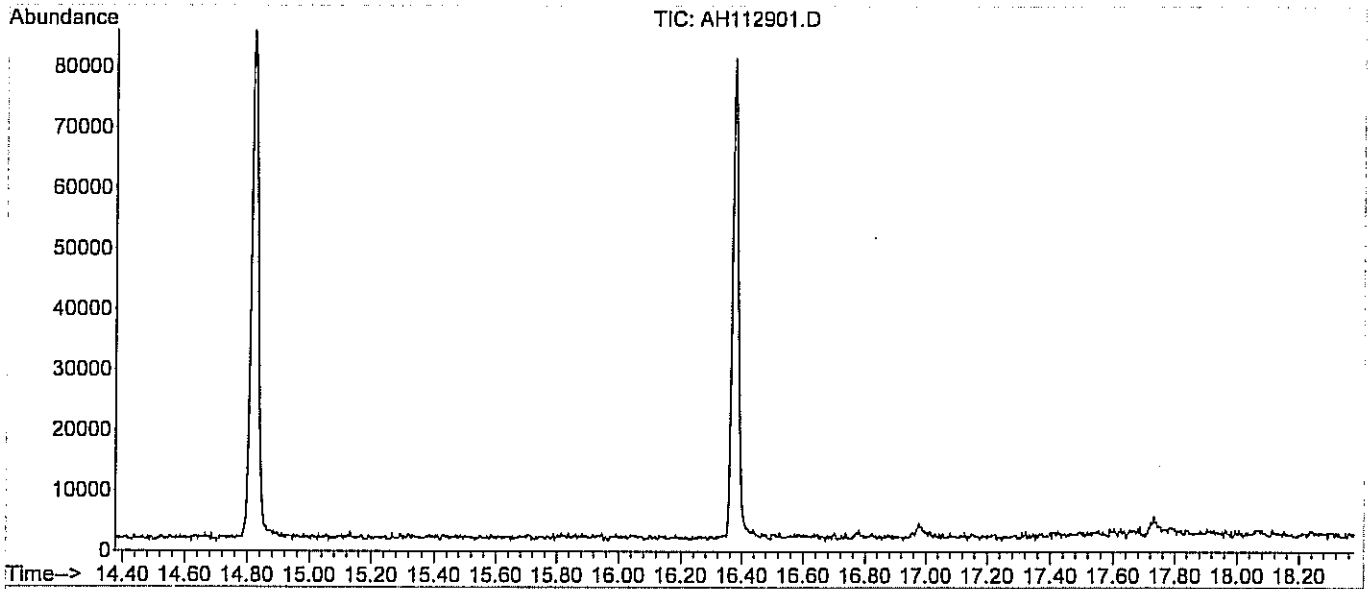
METHOD TO-15

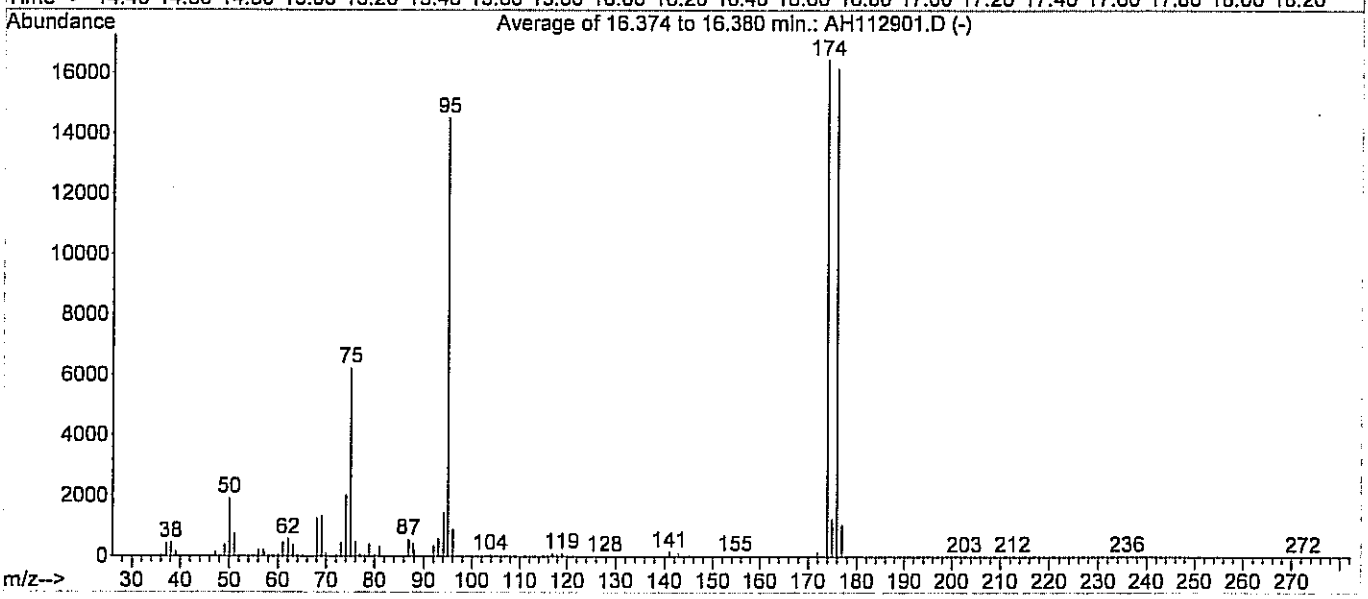
RAW DATA

BFB

Data File : C:\HPCHEM\1\DATA\AH112901.D
Acq On : 29 Nov 2010 1:45 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.374 to 16.380 min.

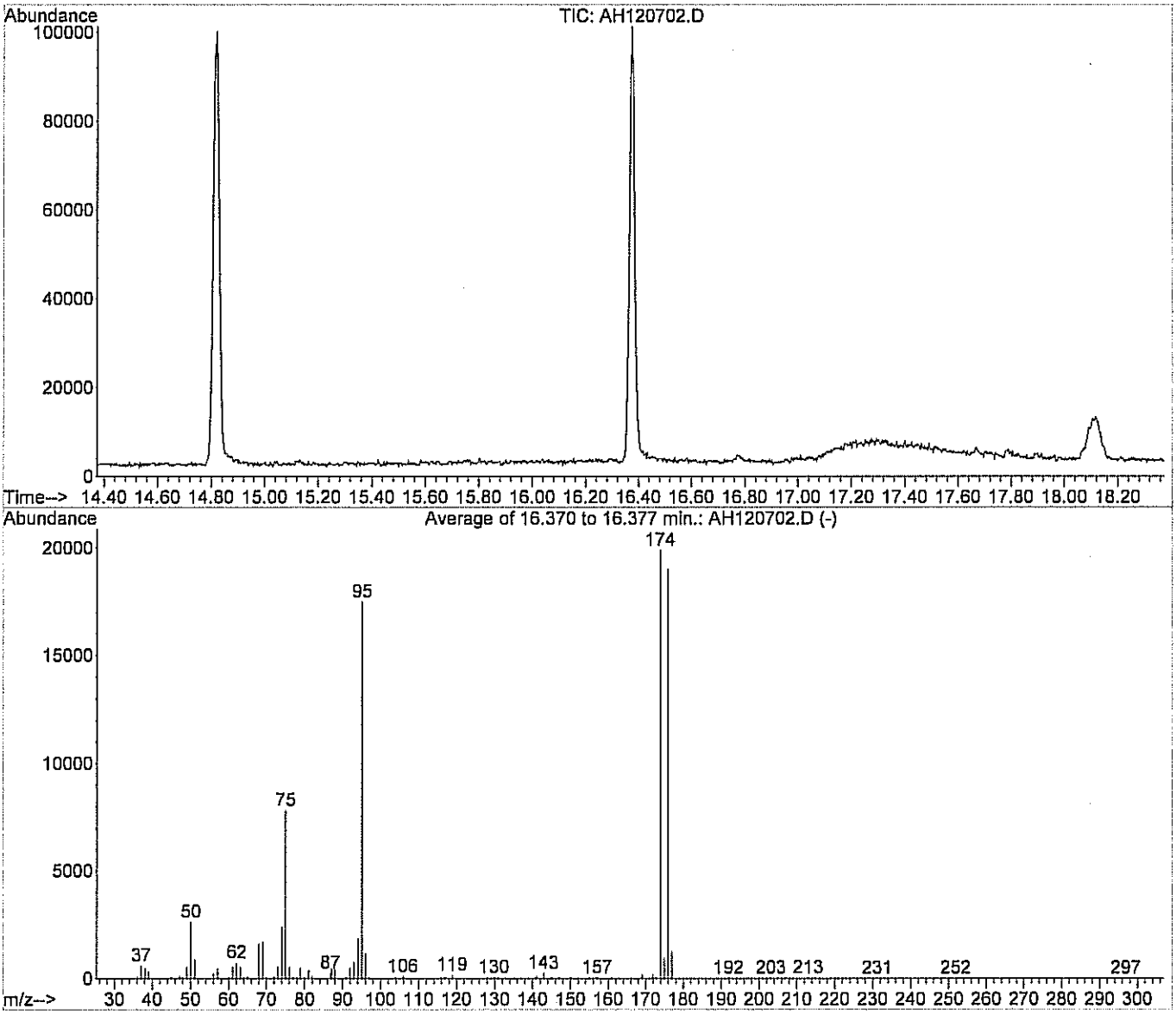
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	13.2	1924	PASS
75	95	30	66	43.0	6244	PASS
95	95	100	100	100.0	14524	PASS
96	95	5	9	6.3	908	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	113.3	16459	PASS
175	174	4	9	7.6	1255	PASS
176	174	95	101	98.2	16164	PASS
177	176	5	9	6.6	1064	PASS

AH112901.D AN29_1UG.M Tue Dec 28 14:25:31 2010 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AH120702.D
Acq On : 7 Dec 2010 12:44 pm
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.370 to 16.377 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	15.1	2642	PASS
75	95	30	66	44.7	7828	PASS
95	95	100	100	100.0	17503	PASS
96	95	5	9	6.8	1183	PASS
173	174	0.00	2	0.4	81	PASS
174	95	50	120	113.7	19906	PASS
175	174	4	9	4.9	967	PASS
176	174	95	101	95.5	19010	PASS
177	176	5	9	6.6	1264	PASS

AH120702.D AN29_1UG.M Sat Jan 15 12:18:43 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

Centek Laboratories, LLC **Date:** *15-Jan-11*

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-120710**	SampType: **MBLK**	TestCode: **1ugM3_TO15**	Units: **ppbV**	Prep Date:					RunNo: **4099**			
Client ID: **ZZZZZ**	Batch ID: **R4099**	TestNo: **TO-15**		Analysis Date: **12/7/2010**					SeqNo: **49435**			
Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual	
1,1,1-Trichloroethane	< 0.15	0.15										
1,1,2,2-Tetrachloroethane	< 0.15	0.15										
1,1,2-Trichloroethane	< 0.15	0.15										
1,1-Dichloroethane	< 0.15	0.15										
1,1-Dichloroethene	< 0.15	0.15										
1,2,4-Trichlorobenzene	< 0.15	0.15										
1,2,4-Trimethylbenzene	< 0.15	0.15										
1,2-Dibromoethane	< 0.15	0.15										
1,2-Dichlorobenzene	< 0.15	0.15										
1,2-Dichloroethane	< 0.15	0.15										
1,2-Dichloropropane	< 0.15	0.15										
1,3,5-Trimethylbenzene	< 0.15	0.15										
1,3-butadiene	< 0.15	0.15										
1,3-Dichlorobenzene	< 0.15	0.15										
1,4-Dichlorobenzene	< 0.15	0.15										
1,4-Dioxane	< 0.30	0.30										
2,2,4-trimethylpentane	< 0.15	0.15										
4-ethyltoluene	< 0.15	0.15										
Acetone	< 0.30	0.30										
Allyl chloride	< 0.15	0.15										
Benzene	< 0.15	0.15										
Benzyl chloride	< 0.15	0.15										
Bromodichloromethane	< 0.15	0.15										
Bromoform	< 0.15	0.15										
Bromomethane	< 0.15	0.15										
Carbon disulfide	< 0.15	0.15										
Carbon tetrachloride	< 0.15	0.15										
Chlorobenzene	< 0.15	0.15										
Chloroethane	< 0.15	0.15										

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-120710	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-120710	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49435

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120705.D Vial: 5
Acq On : 7 Dec 2010 3:42 pm Operator: RJP
Sample : AMB1UG-120710 Inst : MSD #1
Misc : AMB1UG-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 16:03:06 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

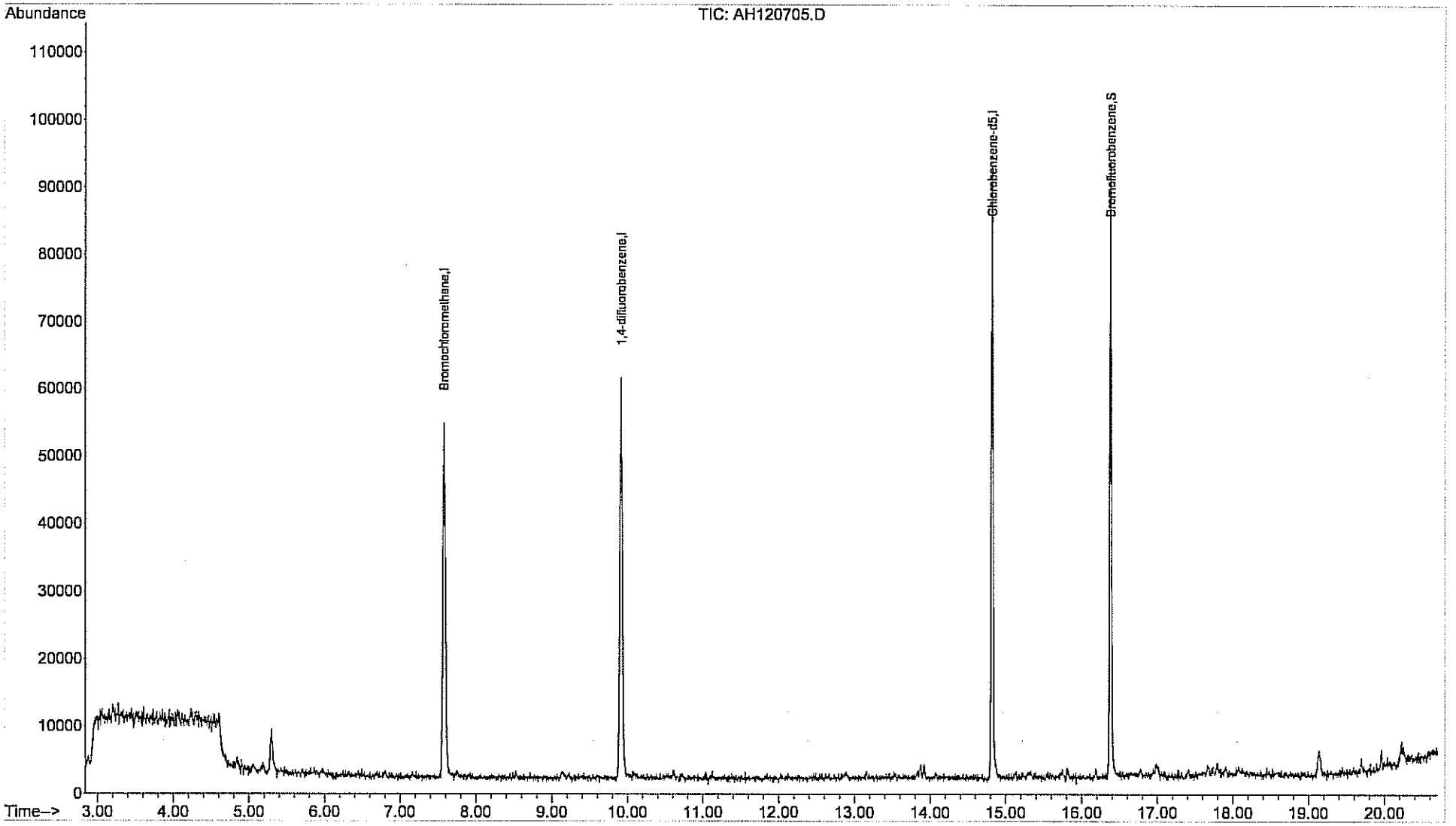
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	20234	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	63242	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	53815	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	24972	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH120705.D AN29_1UG.M Sat Jan 15 12:18:20 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120705.D Vial: 5
Acq On : 7 Dec 2010 3:42 pm Operator: RJP
Sample : AMB1UG-120710 Inst : MSD #1
Misc : AMB1UG-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:31 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Centek Laboratories, LLC **Date:** *15-Jan-11*

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-120710	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	0.9800	0.15	1	0	98.0	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	0.9200	0.15	1	0	92.0	70	130				
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,1-Dichloroethene	0.9500	0.15	1	0	95.0	70	130				
1,2,4-Trichlorobenzene	1.060	0.15	1	0	106	70	130				
1,2,4-Trimethylbenzene	1.010	0.15	1	0	101	70	130				
1,2-Dibromoethane	0.8800	0.15	1	0	88.0	70	130				
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,2-Dichloroethane	0.9900	0.15	1	0	99.0	70	130				
1,2-Dichloropropane	0.9100	0.15	1	0	91.0	70	130				
1,3,5-Trimethylbenzene	1.000	0.15	1	0	100	70	130				
1,3-butadiene	0.9600	0.15	1	0	96.0	70	130				
1,3-Dichlorobenzene	1.010	0.15	1	0	101	70	130				
1,4-Dichlorobenzene	1.000	0.15	1	0	100	70	130				
1,4-Dioxane	0.8300	0.30	1	0	83.0	70	130				
2,2,4-trimethylpentane	0.9300	0.15	1	0	93.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	0.9700	0.30	1	0	97.0	70	130				
Allyl chloride	1.180	0.15	1	0	118	70	130				
Benzene	0.9300	0.15	1	0	93.0	70	130				
Benzyl chloride	1.160	0.15	1	0	116	70	130				
Bromodichloromethane	0.9100	0.15	1	0	91.0	70	130				
Bromoform	0.8900	0.15	1	0	89.0	70	130				
Bromomethane	0.9200	0.15	1	0	92.0	70	130				
Carbon disulfide	1.200	0.15	1	0	120	70	130				
Carbon tetrachloride	0.8800	0.15	1	0	88.0	70	130				
Chlorobenzene	0.9200	0.15	1	0	92.0	70	130				
Chloroethane	0.9800	0.15	1	0	98.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-120710	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Chloroform	0.9500	0.15	1	0	95.0	70	130				
Chloromethane	1.010	0.15	1	0	101	70	130				
cis-1,2-Dichloroethene	0.9900	0.15	1	0	99.0	70	130				
cis-1,3-Dichloropropene	0.9500	0.15	1	0	95.0	70	130				
Cyclohexane	0.9700	0.15	1	0	97.0	70	130				
Dibromochloromethane	0.8800	0.15	1	0	88.0	70	130				
Ethyl acetate	1.040	0.25	1	0	104	70	130				
Ethylbenzene	0.9200	0.15	1	0	92.0	70	130				
Freon 11	0.9400	0.15	1	0	94.0	70	130				
Freon 113	0.8900	0.15	1	0	89.0	70	130				
Freon 114	0.9700	0.15	1	0	97.0	70	130				
Freon 12	0.9900	0.15	1	0	99.0	70	130				
Heptane	0.9000	0.15	1	0	90.0	70	130				
Hexachloro-1,3-butadiene	1.100	0.15	1	0	110	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.9200	0.15	1	0	92.0	70	130				
m&p-Xylene	1.920	0.30	2	0	96.0	70	130				
Methyl Butyl Ketone	0.9200	0.30	1	0	92.0	70	130				
Methyl Ethyl Ketone	1.040	0.30	1	0	104	70	130				
Methyl Isobutyl Ketone	0.9200	0.30	1	0	92.0	70	130				
Methyl tert-butyl ether	1.290	0.15	1	0	129	70	130				
Methylene chloride	1.280	0.15	1	0	128	70	130				
o-Xylene	0.9300	0.15	1	0	93.0	70	130				
Propylene	1.010	0.15	1	0	101	70	130				
Styrene	0.9500	0.15	1	0	95.0	70	130				
Tetrachloroethylene	0.8800	0.15	1	0	88.0	70	130				
Tetrahydrofuran	1.070	0.15	1	0	107	70	130				
Toluene	0.9300	0.15	1	0	93.0	70	130				
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130				
trans-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130				
Trichloroethene	0.8500	0.15	1	0	85.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Centek Laboratories, LLC

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-120710	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49436

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Vinyl acetate	1.080	0.15	1	0	108	70	130				
Vinyl Bromide	0.9600	0.15	1	0	96.0	70	130				
Vinyl chloride	0.9000	0.15	1	0	90.0	70	130				

Sample ID	ALCS1UGD-120710	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4099
Client ID:	ZZZZZ	Batch ID:	R4099	TestNo:	TO-15			Analysis Date:	12/7/2010	SeqNo:	49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.070	0.15	1	0	107	70	130	0.98	8.78	30	
1,1,2,2-Tetrachloroethane	0.9700	0.15	1	0	97.0	70	130	0.95	2.08	30	
1,1,2-Trichloroethane	1.040	0.15	1	0	104	70	130	0.92	12.2	30	
1,1-Dichloroethane	0.9900	0.15	1	0	99.0	70	130	0.99	0	30	
1,1-Dichloroethene	1.310	0.15	1	0	131	70	130	0.95	31.9	30	SR
1,2,4-Trichlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.06	13.1	30	
1,2,4-Trimethylbenzene	0.9500	0.15	1	0	95.0	70	130	1.01	6.12	30	
1,2-Dibromoethane	0.9600	0.15	1	0	96.0	70	130	0.88	8.70	30	
1,2-Dichlorobenzene	1.000	0.15	1	0	100	70	130	1	0	30	
1,2-Dichloroethane	1.070	0.15	1	0	107	70	130	0.99	7.77	30	
1,2-Dichloropropane	1.020	0.15	1	0	102	70	130	0.91	11.4	30	
1,3,5-Trimethylbenzene	0.9800	0.15	1	0	98.0	70	130	1	2.02	30	
1,3-butadiene	0.9600	0.15	1	0	96.0	70	130	0.96	0	30	
1,3-Dichlorobenzene	0.9800	0.15	1	0	98.0	70	130	1.01	3.02	30	
1,4-Dichlorobenzene	0.9500	0.15	1	0	95.0	70	130	1	5.13	30	
1,4-Dioxane	1.200	0.30	1	0	120	70	130	0.83	36.5	30	R
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	0.93	7.25	30	
4-ethyltoluene	0.9200	0.15	1	0	92.0	70	130	1	8.33	30	
Acetone	1.090	0.30	1	0	109	70	130	0.97	11.7	30	
Allyl chloride	1.020	0.15	1	0	102	70	130	1.18	14.5	30	
Benzene	1.040	0.15	1	0	104	70	130	0.93	11.2	30	
Benzyl chloride	1.050	0.15	1	0	105	70	130	1.16	9.95	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-120710	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Bromodichloromethane	1.070	0.15	1	0	107	70	130	0.91	16.2	30	
Bromoform	0.9900	0.15	1	0	99.0	70	130	0.89	10.6	30	
Bromomethane	1.030	0.15	1	0	103	70	130	0.92	11.3	30	
Carbon disulfide	1.250	0.15	1	0	125	70	130	1.2	4.08	30	
Carbon tetrachloride	1.050	0.15	1	0	105	70	130	0.88	17.6	30	
Chlorobenzene	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
Chloroethane	1.020	0.15	1	0	102	70	130	0.98	4.00	30	
Chloroform	1.020	0.15	1	0	102	70	130	0.95	7.11	30	
Chloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
cis-1,2-Dichloroethene	1.030	0.15	1	0	103	70	130	0.99	3.96	30	
cis-1,3-Dichloropropene	0.9800	0.15	1	0	98.0	70	130	0.95	3.11	30	
Cyclohexane	1.040	0.15	1	0	104	70	130	0.97	6.97	30	
Dibromochloromethane	0.9900	0.15	1	0	99.0	70	130	0.88	11.8	30	
Ethyl acetate	1.090	0.25	1	0	109	70	130	1.04	4.69	30	
Ethylbenzene	0.9400	0.15	1	0	94.0	70	130	0.92	2.15	30	
Freon 11	1.070	0.15	1	0	107	70	130	0.94	12.9	30	
Freon 113	1.770	0.15	1	0	177	70	130	0.89	66.2	30	SR
Freon 114	1.070	0.15	1	0	107	70	130	0.97	9.80	30	
Freon 12	1.070	0.15	1	0	107	70	130	0.99	7.77	30	
Heptane	0.9800	0.15	1	0	98.0	70	130	0.9	8.51	30	
Hexachloro-1,3-butadiene	1.040	0.15	1	0	104	70	130	1.1	5.61	30	
Hexane	1.010	0.15	1	0	101	70	130	1.03	1.96	30	
Isopropyl alcohol	0.9500	0.15	1	0	95.0	70	130	0.92	3.21	30	
m&p-Xylene	2.010	0.30	2	0	101	70	130	1.92	4.58	30	
Methyl Butyl Ketone	1.000	0.30	1	0	100	70	130	0.92	8.33	30	
Methyl Ethyl Ketone	1.150	0.30	1	0	115	70	130	1.04	10.0	30	
Methyl Isobutyl Ketone	0.9700	0.30	1	0	97.0	70	130	0.92	5.29	30	
Methyl tert-butyl ether	1.060	0.15	1	0	106	70	130	1.29	19.6	30	
Methylene chloride	1.510	0.15	1	0	151	70	130	1.28	16.5	30	S
o-Xylene	0.9600	0.15	1	0	96.0	70	130	0.93	3.17	30	
Propylene	0.9900	0.15	1	0	99.0	70	130	1.01	2.00	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1012005
Project: B785 SSVM Sampling

ANALYTICAL QC SUMMARY REPORT

TestCode: 1ugM3_TO15

Sample ID ALCS1UGD-120710	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4099
Client ID: ZZZZZ	Batch ID: R4099	TestNo: TO-15		Analysis Date: 12/7/2010	SeqNo: 49437

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Styrene	0.9300	0.15	1	0	93.0	70	130	0.95	2.13	30	
Tetrachloroethylene	0.9800	0.15	1	0	98.0	70	130	0.88	10.8	30	
Tetrahydrofuran	1.030	0.15	1	0	103	70	130	1.07	3.81	30	
Toluene	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
trans-1,2-Dichloroethene	0.9800	0.15	1	0	98.0	70	130	0.98	0	30	
trans-1,3-Dichloropropene	0.9900	0.15	1	0	99.0	70	130	1	1.01	30	
Trichloroethene	1.000	0.15	1	0	100	70	130	0.85	16.2	30	
Vinyl acetate	0.9600	0.15	1	0	96.0	70	130	1.08	11.8	30	
Vinyl Bromide	1.060	0.15	1	0	106	70	130	0.96	9.90	30	
Vinyl chloride	1.000	0.15	1	0	100	70	130	0.9	10.5	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120704.D Vial: 4
Acq On : 7 Dec 2010 3:10 pm Operator: RJP
Sample : ALCS1UG-120710 Inst : MSD #1
Misc : ALCS1UG-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 15:31:14 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	21203	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	68016	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	60551	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	32115	1.09	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	11105	1.01	ppb	97
3) Freon 12	2.91	85	81195	0.99	ppb	100
4) Chloromethane	3.05	50	17736	1.01	ppb	100
5) Freon 114	3.05	85	44670	0.97	ppb	99
6) Vinyl Chloride	3.18	62	14109	0.90	ppb	95
7) 1,3-butadiene	3.26	39	10009	0.96	ppb	91
8) Bromomethane	3.50	94	15016	0.92	ppb	99
9) Chloroethane	3.62	64	6068	0.98	ppb	90
10) Vinyl Bromide	3.87	106	16958	0.96	ppb	98
11) Freon 11	4.07	101	45034	0.94	ppb	97
12) Acetone	4.22	58	5544	0.97	ppb	96
13) Isopropyl alcohol	4.32	45	14032	0.92	ppb	84
14) 1,1-dichloroethene	4.66	96	15550	0.95	ppb	98
15) Freon 113	4.83	101	32037	0.89	ppb	99
16) Methylene chloride	5.05	84	21200m	1.28	ppb	
17) Allyl chloride	5.04	41	16963	1.18	ppb	87
18) Carbon disulfide	5.17	76	65561	1.20	ppb	98
19) trans-1,2-dichloroethene	5.89	61	30328	0.98	ppb	100
20) methyl tert-butyl ether	5.96	73	43746	1.29	ppb	89
21) 1,1-dichloroethane	6.27	63	40054	0.99	ppb	97
22) Vinyl acetate	6.31	43	26779	1.08	ppb	100
23) Methyl Ethyl Ketone	6.79	43	36737	1.04	ppb	99
24) cis-1,2-dichloroethene	7.16	61	27972	0.99	ppb	99
25) Hexane	6.79	41	17315	1.03	ppb	89
26) Ethyl acetate	7.37	43	28159	1.04	ppb	98
27) Chloroform	7.74	83	60200	0.95	ppb	100
28) Tetrahydrofuran	7.94	42	12139	1.07	ppb	97
29) 1,2-dichloroethane	8.82	62	36691	0.99	ppb	99
31) 1,1,1-trichloroethane	8.52	97	59576	0.98	ppb	99
32) Cyclohexane	9.21	56	21160	0.97	ppb	97
33) Carbon tetrachloride	9.16	117	72485	0.88	ppb	100
34) Benzene	9.12	78	62106	0.93	ppb	99
35) 1,4-dioxane	10.99	88	7242m	0.83	ppb	
36) 2,2,4-trimethylpentane	10.09	57	60222	0.93	ppb	99
37) Heptane	10.52	43	18250	0.90	ppb	98
38) Trichloroethene	10.60	130	39228	0.85	ppb	97
39) 1,2-dichloropropane	10.73	63	21206	0.91	ppb	100
40) Bromodichloromethane	11.12	83	64809	0.91	ppb	100
41) cis-1,3-dichloropropene	12.04	75	25707	0.95	ppb	100
42) trans-1,3-dichloropropene	12.84	75	21165	1.00	ppb	99
43) 1,1,2-trichloroethane	13.15	97	32070	0.92	ppb	96
45) Toluene	12.89	92	40279	0.93	ppb	98
46) Methyl Isobutyl Ketone	12.01	43	19159m	0.92	ppb	

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120704.D Vial: 4
Acq On : 7 Dec 2010 3:10 pm Operator: RJP
Sample : ALCS1UG-120710 Inst : MSD #1
Misc : ALCS1UG-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 07 15:31:14 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

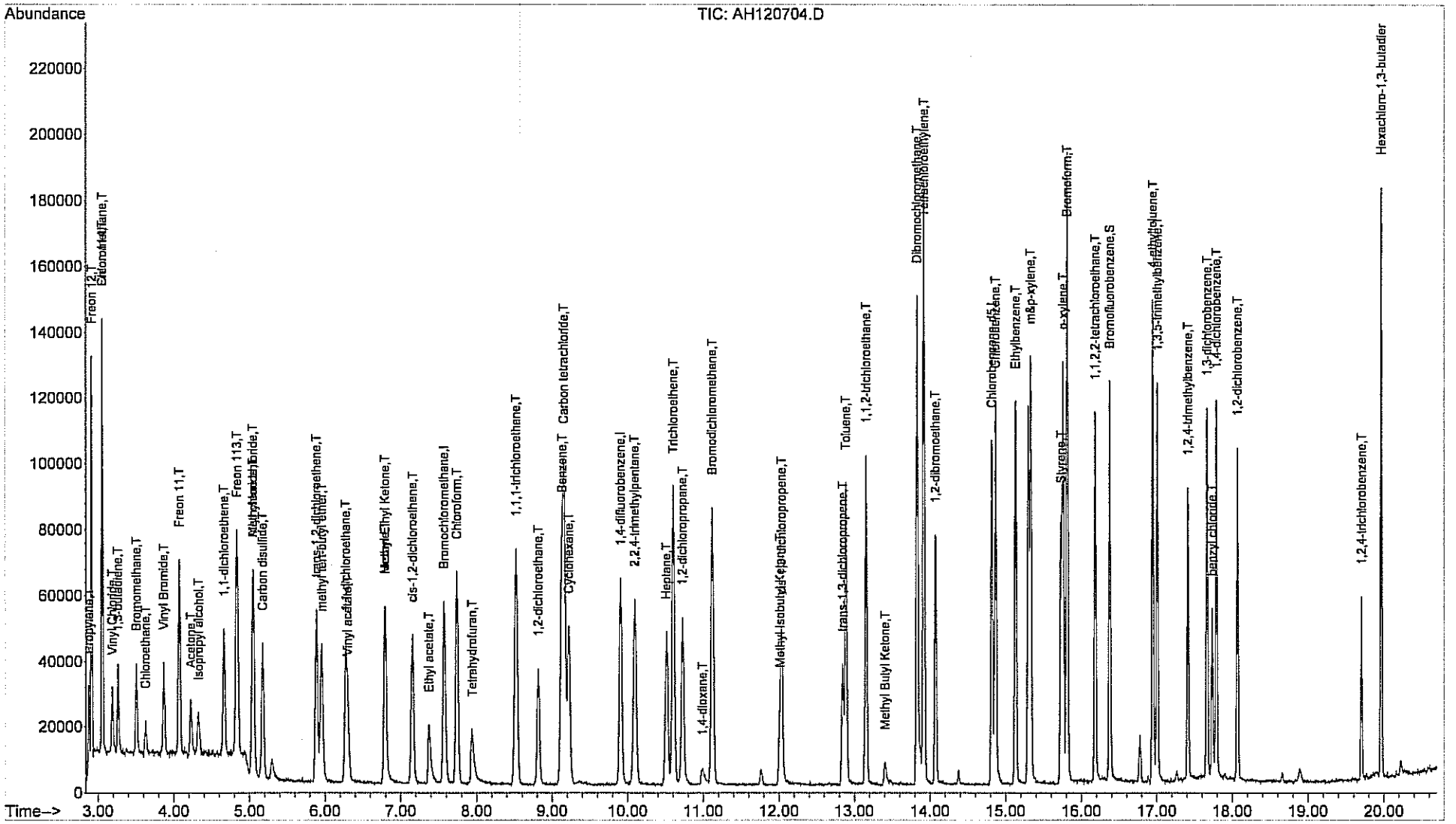
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	80277	0.88	ppb	98
48)	Methyl Butyl Ketone	13.41	43	15434m	0.92	ppb	
49)	1,2-dibromoethane	14.08	107	46917	0.88	ppb	99
50)	Tetrachloroethylene	13.92	164	43829	0.88	ppb	100
51)	Chlorobenzene	14.87	112	64438	0.92	ppb	98
52)	Ethylbenzene	15.13	91	75223	0.92	ppb	100
53)	m&p-xylene	15.33	91	128366	1.92	ppb	100
54)	Styrene	15.73	104	40012	0.95	ppb	98
55)	Bromoform	15.81	173	87274	0.89	ppb	99
56)	o-xylene	15.76	91	68307	0.93	ppb	98
58)	1,1,2,2-tetrachloroethane	16.18	83	46742	0.95	ppb	98
59)	4-ethyltoluene	16.94	105	79380	1.00	ppb	97
60)	1,3,5-trimethylbenzene	17.01	105	60112	1.00	ppb	98
61)	1,2,4-trimethylbenzene	17.41	105	43638	1.01	ppb	99
62)	1,3-dichlorobenzene	17.67	146	45782	1.01	ppb	98
63)	benzyl chloride	17.73	91	30147	1.16	ppb	99
64)	1,4-dichlorobenzene	17.79	146	45356	1.00	ppb	99
65)	1,2-dichlorobenzene	18.07	146	38036	1.00	ppb	98
66)	1,2,4-trichlorobenzene	19.70	180	14610	1.06	ppb	95
67)	Hexachloro-1,3-butadiene	19.96	225	29282	1.10	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120704.D Vial: 4
Acq On : 7 Dec 2010 3:10 pm Operator: RJP
Sample : ALCS1UG-120710 Inst : MSD #1
Misc : ALCS1UG-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:31 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120719.D Vial: 34
Acq On : 7 Dec 2010 11:43 pm Operator: RJP
Sample : ALCS1UGD-120710 Inst : MSD #1
Misc : ALCS1UGD-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 08 00:04:28 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	17921	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	52991	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	48630	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	27246	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	9260	0.99	ppb		98
3) Freon 12	2.91	85	74226	1.07	ppb		98
4) Chloromethane	3.05	50	15486	1.04	ppb		99
5) Freon 114	3.05	85	41747	1.07	ppb		99
6) Vinyl Chloride	3.18	62	13271	1.00	ppb		98
7) 1,3-butadiene	3.26	39	8424	0.96	ppb		97
8) Bromomethane	3.50	94	14330	1.03	ppb		98
9) Chloroethane	3.63	64	5386	1.02	ppb		99
10) Vinyl Bromide	3.87	106	15714	1.06	ppb		99
11) Freon 11	4.07	101	43236	1.07	ppb		97
12) Acetone	4.22	58	5310	1.09	ppb		96
13) Isopropyl alcohol	4.32	45	12180	0.95	ppb		87
14) 1,1-dichloroethene	4.66	96	18255m	1.31	ppb		
15) Freon 113	4.83	101	54003	1.77	ppb		97
16) Methylene chloride	5.05	84	21218	1.51	ppb	#	82
17) Allyl chloride	5.04	41	12458	1.02	ppb		84
18) Carbon disulfide	5.17	76	57744	1.25	ppb		99
19) trans-1,2-dichloroethene	5.88	61	25621	0.98	ppb		99
20) methyl tert-butyl ether	5.94	73	30207	1.06	ppb		97
21) 1,1-dichloroethane	6.27	63	33781	0.99	ppb		99
22) Vinyl acetate	6.30	43	20178	0.96	ppb		98
23) Methyl Ethyl Ketone	6.79	43	34341	1.15	ppb		94
24) cis-1,2-dichloroethene	7.15	61	24580	1.03	ppb		100
25) Hexane	6.79	41	14320	1.01	ppb		94
26) Ethyl acetate	7.37	43	24925	1.09	ppb		97
27) Chloroform	7.73	83	54449	1.02	ppb		100
28) Tetrahydrofuran	7.94	42	9904	1.03	ppb		97
29) 1,2-dichloroethane	8.81	62	33502	1.07	ppb		97
31) 1,1,1-trichloroethane	8.51	97	50591	1.07	ppb		99
32) Cyclohexane	9.21	56	17649	1.04	ppb		95
33) Carbon tetrachloride	9.15	117	67185	1.05	ppb		98
34) Benzene	9.12	78	53671	1.04	ppb		99
35) 1,4-dioxane	10.97	88	8170	1.20	ppb		93
36) 2,2,4-trimethylpentane	10.09	57	50164	1.00	ppb		99
37) Heptane	10.52	43	15471	0.98	ppb		96
38) Trichloroethene	10.60	130	35960	1.00	ppb		98
39) 1,2-dichloropropane	10.72	63	18489	1.02	ppb		97
40) Bromodichloromethane	11.11	83	58986	1.07	ppb		100
41) cis-1,3-dichloropropene	12.03	75	20716	0.98	ppb		99
42) trans-1,3-dichloropropene	12.84	75	16293	0.99	ppb		99
43) 1,1,2-trichloroethane	13.15	97	28334	1.04	ppb		98
45) Toluene	12.88	92	32402	0.93	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	16348	0.97	ppb		97

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120719.D Vial: 34
Acq On : 7 Dec 2010 11:43 pm Operator: RJP
Sample : ALCS1UGD-120710 Inst : MSD #1
Misc : ALCS1UGD-120710 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 08 00:04:28 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.83	129	72544	0.99	ppb	99
48)	Methyl Butyl Ketone	13.40	43	13479m	1.00	ppb	
49)	1,2-dibromoethane	14.07	107	41231	0.96	ppb	99
50)	Tetrachloroethylene	13.91	164	39236	0.98	ppb	98
51)	Chlorobenzene	14.86	112	53794	0.95	ppb	99
52)	Ethylbenzene	15.13	91	61684	0.94	ppb	99
53)	m&p-xylene	15.32	91	107748	2.01	ppb	99
54)	Styrene	15.73	104	31709	0.93	ppb	99
55)	Bromoform	15.81	173	78353	0.99	ppb	100
56)	o-xylene	15.75	91	57003	0.96	ppb	100
58)	1,1,2,2-tetrachloroethane	16.18	83	38703	0.97	ppb	99
59)	4-ethyltoluene	16.94	105	58588	0.92	ppb	97
60)	1,3,5-trimethylbenzene	17.00	105	47545	0.98	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	32822	0.95	ppb	99
62)	1,3-dichlorobenzene	17.66	146	35813	0.98	ppb	98
63)	benzyl chloride	17.73	91	21899	1.05	ppb	96
64)	1,4-dichlorobenzene	17.79	146	34560	0.95	ppb	98
65)	1,2-dichlorobenzene	18.06	146	30797	1.00	ppb	99
66)	1,2,4-trichlorobenzene	19.69	180	10250	0.93	ppb	99
67)	Hexachloro-1,3-butadiene	19.95	225	22287	1.04	ppb	99

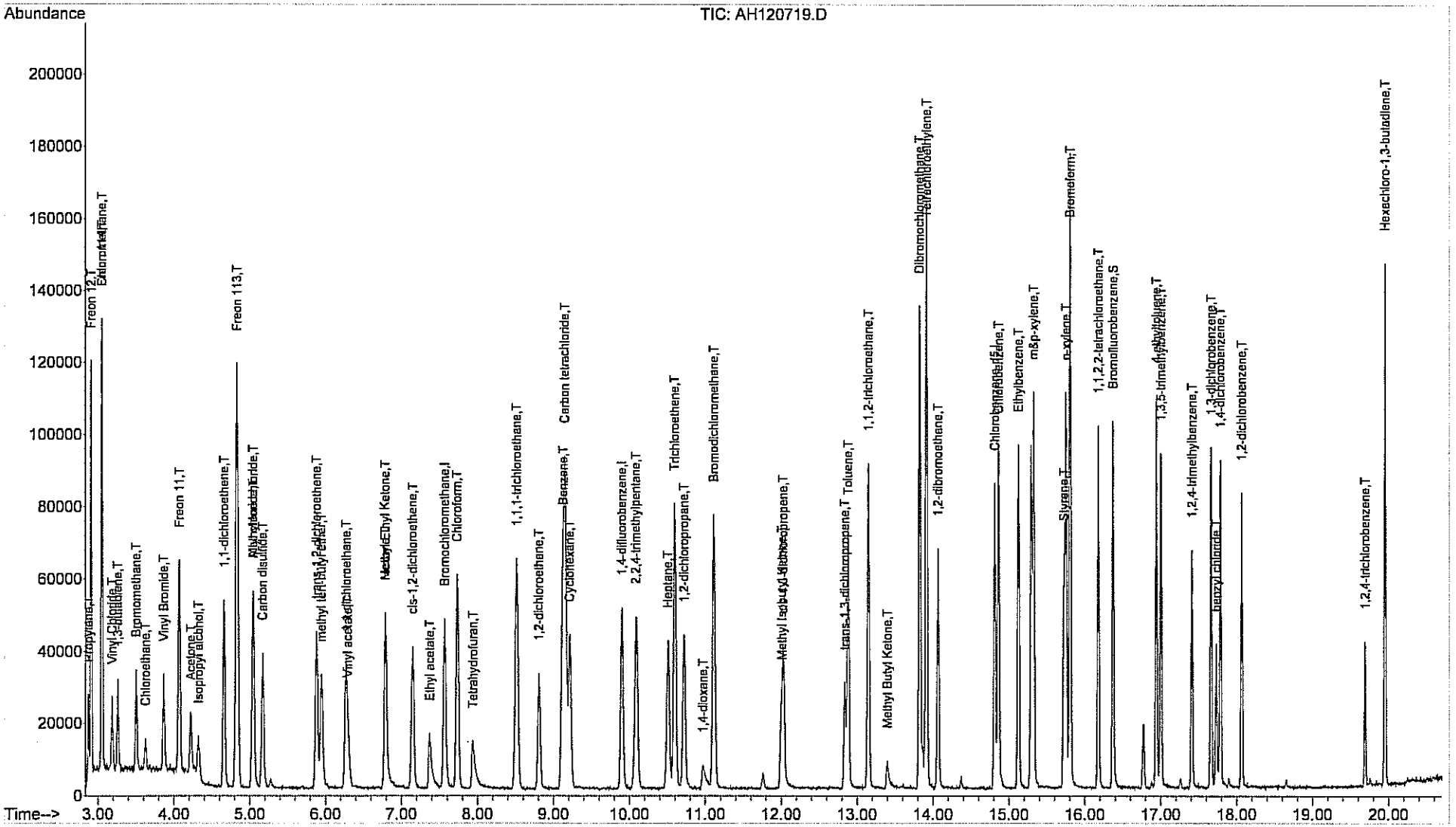
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AH120719.D
Acq On : 7 Dec 2010 11:43 pm
Sample : ALCS1UGD-120710
Misc : ALCS1UGD-120710
MS Integration Params: RTEINT.P
Quant Time: Dec 10 13:39 2010

Vial: 34
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Sat Jan 15 12:12:34 2011
Response via : Initial Calibration



AH120719.D AN29_1UG.M Sat Jan 15 12:18:24 2011 MSD1 Page 3

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8180
Standard Stock #(s) 8181
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	AH112501	-		AN291UG		11/29/10	1345		
	AUG - 1.5	04	-							
	1.25	05	-							
	1.0	06	-	200						
	0.75	07	-							
	0.50	08	-							
	0.30	09	-							
	0.04	12	-							
	2.0	13	-							
	0.15	15	-		↓		↓	1505		

Analyzed by: _____

Page No: 19

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8180 , 8191 *
Standard Stock #(s) 8181 , 8192 **
LCS Stock #(s) 8182 , 8193 ***
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFBIUG	AH120301	-	-	AN25-1UG		12/3/10	0916		
	AIUG-1.0	02	-	200						
	ALCSIUG-120310	03	-							
	AMBIUG ↓	04	-	↓						
	C10112080-008DL	05	270	20 (27)*						
	002	07								
	003	08								
	004	09								
	005	10								
	006	11								
	007	12	↓	↓						
	003	14	1620	10 (81)						
	001	15	3240	5 (81)			↓	0711		
	BLK	16	-	-	↓					
*	BFBIUG	AH120702	-	-	AN25-1UG		12/7/10	1244		
**	AIUG-1.0	03	-	200						
***	ALCSIUG-120710	04	-							
	AMBIUG ↓	05	-							
	WAC120710A	06	-							
	B	07	-							
	C	08	-							
	C10112005-004	09	-							
	001	10	-							
	002	11	-							
	003	12	-	↓						
	002DL	14	10	20						
	003DL	15	↓	↓	↓		↓	1143		
	ALCSIUG-120710	15	-	-						

Analyzed by: _____

* DL IN CAN

Page No: 24

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15IUT IS^A	6112	50ppb	0.5psig	30psia	1 ppb	AD	
6118	11/12/08	11/09	TO15 IS	AB-2253	1 ppm	SPECTRA GASES			mp	RECEAT 3/11/10 7140A+B
6119	↓	↓	TO15 SUBSET	AB-2274	↓	↓	↓	↓	↓	
6120	↓	↓	TO14 MIX	AB-2236	↓	↓	↓	↓	mp	
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psig	30psia	50 ppb	↓	
6122	↓	↓	↓ STD	4192/4193	↓	↓	↓	↓	↓	
6123	↓	↓	↓ LCS	2056/2057	↓	↓	↓	↓	↓	
6124	↓	↓	TO15IUT IS^A	6121	50ppb	0.5psig	45psia	1ppb	↓	
6125	↓	↓	↓ STD^A	6122	↓	↓	↓	↓	↓	
6126	↓	↓	↓ LCS	6123	↓	↓	↓	↓	↓	
6127	11/15/08	↓	TO15IUT IS^A	6121	50 ppb	0.5psig	45psia	1ppb	↓	
6128	11/17/08	11/21/08	TO15IUT IS^B	6121	↓	↓	↓	↓	↓	
6129	↓	↓	↓ STD^B	6122	↓	↓	↓	↓	↓	
6130	↓	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6131	11/18/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6132	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	
6133	11/19/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6134	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	TO15IVT IS[A]	7352	50ppb	0.9psig	45psia	1ppb	nt	
7366	8/31/09	9/10	TO15 IS	06503 003	1ppm	SCOTT GASES		1ppm	nt	
7367	8/31/09	9/6/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	mp	
7368	↓	↓	STD	6119/20	↓	↓	↓	↓		
7369			LCS	6192/93						
7370			SIL/SUL	6194						
7371			TO15IVT IS[A]	7367	50ppb	0.9psig	45psia	1ppb		
7372			STD[A]	7368						
7373			LCS	7369						
7374	9/1/09		TO15IVT IS[A]	7367						
7375	9/2/09	↓	↓	↓	↓	↓	↓	↓		
7376	9/1/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7377	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	
7378	9/2/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7379	9/2/09	9/6/09	↓ IS[A]	7367	↓	↓	↓	↓	L.L.	
7380	9/3/09	9/10/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7381	9/3/09	9/10/09	TO15IVT IS[A]	7380	50ppb	0.9psig	45psia	1ppb	L.L.	
7382	9/3/09	9/10/09	↓ IS[B]	7380	↓	↓	↓	↓	↓	
7382A	8/31/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7382B	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	L.L.	
7611	1/20/10	1/25/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	L.L.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	L.L.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	105940 216304	% VARIES	1DL	MATHESON TRI-GAS		M	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7621			STD(A)	7617/7618 7384/						
7622	↓	↓	LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	L.L.	
7624			STD(A)	7621						
7625			LCS	7622						
7626	↓	↓	IS(B)	7620	↓	↓	↓	↓	↓	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7789	3/31/10	4/5/10	TO15 IUGIS (A)	7779	50ppb	0.9psig	45psia	1ppb	L.L.	
7740A	3/11/10	11/11/10	LCS TO15 SUBSET	AB-22447 6119	1ppm	SPECTRA	GASES	*RECERTIFIED	L.L.	
7740B	3/11/10	11/11/10	LCS TO14 MIX	AB-22338 6120	↓	↓		* LCS *	↓	
7790	3/31/10	4/5/10	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.L.	
7791	3/31/10	4/5/10	FORM 10ppm	7068	36.590	1.1ml	50psia	10ppm		
7792	↓	↓	FORM 50ppb	7791	10ppm	0.23psig	45psia	50ppb	↓	
7793	4/5/10	4/12/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7794			STD	7617/7618						
7795	↓	↓	↓ LCS	7740A/7740B	↓	↓	↓	↓	↓	
7796	4/5/10	4/12/10	TO15 IUG IS (A)	7793	50ppb	0.9psig	45psia	1ppb		
7797			STD (A)	7794						
7798	↓	↓	↓ LCS	7795	↓	↓	↓	↓	↓	
7799	4/5/10	4/12/10	TO15 IUG IS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	
7800	↓	↓	↓ STD (B)	7794	↓	↓	↓	↓	↓	
7801	4/6/10	4/12/10	TO15 IUG IS (A)	7793	50ppb	0.9psig	45psia	1ppb		
7802	4/6/10	4/12/10	TO15 IUG IS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L	
7803	4/7/10	4/12/10	TO15 IUG IS (A)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	
7804	4/7/10	4/12/10	TO15 IUG IS (B)	7793	50ppb	0.9psig	45psia	1ppb	L.L.	

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7840	4/26/10	5/8/10	TO15 FORM	7068	36.5%	1.1uL	30psiA	10ppm	LL	
7841	↓		↓ FORM-SD	7822	10ppm	0.23psiG	50psiA	50ppb	↓	
7842	4/27/10		TO15/UG IS B	7837	50ppb	0.9psiG	45psiA	1ppb	LL	
7843	↓		STD B	7838	↓	↓	↓	↓	↓	
7844	↓		LCS	7835					MM	
7845	4/28/10		IS A	7837					↓	
7846	↓	↓	↓ STD A	7838	↓	↓	↓	↓	MP	
7847	5/3/10	5/10/10	TO15 IS	7366	1ppm	1.5psiA	30psiA	50ppb	↓	
7848	↓	↓	↓ STD	7C17/18	↓	↓	↓	↓		
7849			LCS	7740A/B						
7850			SIL/GUL	6194/7046	↓	↓	↓	↓		
7851			FORM	7068	36.5%	1.1uL	30psiA	10ppm		
7852			↓ FORM-SD	7851	10ppm	0.23psiG	50psiA	50ppb	MM	
7853			TO15/UG IS A	7847	50ppb	0.5psiG	45psiA	1ppb	↓	
7854			↓ STD A	7848	↓	↓	↓	↓		
7855	↓		LCS	7849						
7856	5/6/10	↓	↓ IS	7847	↓	↓	↓	↓	MM	
7857	5/10/10	5/11	TO15 IS+BTB	AB 100102	1PPM	LINDE	GAS	1ppm		

Page # 92

Centek Laboratories, LLC

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8169	11/22/10	11/29/10	TO15 SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	L.I.	
8170	11/22/10	11/29/10	TO15UGIS(A)	8163	50ppb	0.9psig	45psia	1ppb	↑	
8171	↓	↓	STD(A)	8164	↓	↓	↓	↓	↓	
8172	↓	↓	↓ LCS	8165	↓	↓	↓	↓		
8173	11/29/10	12/6/10	TO15 IS	7857	1ppm	1.5psig	30psia	50ppb	L.I.	
8174	↓	↓	STD	7617/7618	↓	↓	↓	↓	↓	
8175	↓	↓	LCS	7740A/7740B	↓	↓	↓	↓	↓	
8176	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8177	↓	↓	FORM	7068	36.5%	1.1ul	50psig	10ppm	↓	
8178	↓	↓	FORM50	8177	10ppm	0.23psig	45psia	50ppb	↓	
8179	↓	↓	↓ SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	↓	
8180	11/29/10	12/6/10	TO15UGIS(CA)	8173	50ppb	0.9psig	45psia	1ppb	↑	
8181	↓	↓	STD(IS)	8174	↓	↓	↓	↓	↓	
8182	↓	↓	↓ LCS	8175	↓	↓	↓	↓		
8183	12/1/10	12/6/10	TO15 IS	7857	1ppm	1.5psig	30psia	50ppb	L.I.	
8184	12/6/10	12/13/10	TO15 IS	7857	1ppm	1.5psig	30psia	50ppb	L.I.	
8185	↓	↓	STD	7617/7618	↓	↓	↓	↓	↓	
8186	↓	↓	↓ LCS	7740A/7740B	↓	↓	↓	↓	↓	

Centek Laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8187	12/6/10	12/13/10	TO15 4PCH	7384	1ppm	1.5psig	30psia	50ppb	I.L.	
8188	↓	↓	FORM	7068	36.5%	1.1ul	50psig	10ppm	↓	
8189	↓	↓	FORM50	8188	10ppm	0.23psig	45psia	50ppb	↓	
8190	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	↓	
8191	12/6/10	12/13/10	TO15 IUG IS(A)	8184	50ppb	0.9psig	45psia	1ppb	↑	
8192	↓	↓	STD(A)	8185	↓	↓	↓	↓	↓	
8193	↓	↓	LCS	8186	↓	↓	↓	↓		
8194	12/8/10	12/13/10	TO15 IS	7857	1ppm	1.5psig	30psia	50ppb	I.L.	
8195	12/9/10	12/13/10	TO15 IUG IS(B)	8194	50ppb	0.9psig	45psia	1ppb	I.L.	
8196	↓	↓	STD(B)	8185	↓	↓	↓	↓	↓	
8197	12/13/10	12/20/10	TO15 IS	7857	1ppm	1.5psig	30psia	50ppb	I.L.	
8198	↓	↓	STD	7617/7618	↓	↓	↓	↓	↓	
8199	↓	↓	LCS	7740A/7740B	↓	↓	↓	↓	↓	
8200	↓	↓	4PCH	7384	↓	↓	↓	↓	↓	
8201	↓	↓	FORM	7068	36.5%	1.1ul	50psig	10ppm	↓	
8202	↓	↓	FORM50	8201	10ppm	0.23psig	45psia	50ppb	↓	
8203	↓	↓	SILX/SULF	6194/7046	1ppm	1.5psig	30psia	50ppb	↓	
8204	12/13/10	12/20/10	TO15 IUG IS(A)	8197	50ppb	0.9psig	45psia	1ppb	M	

Centek Laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
563	325	30	11/9/16	WAC110910F	1ug/m³ ±0.25	+ 30	+ 30
352					TCE, CT, VNC	+	+
459						+	+
354						+	+
325						+	+
543	479			WAC110910G		+	+
328						+	+
360						+	+
550						+	+
479						+	+
158	201			WAC110910H		+	+
419						+	+
130						+	+
131						+	+
201						+	+
241	141			WAC110910I		+	+
358						+	+
286						+	+
350						+	+
141						+	+
209 1.42	486			WAC110910J		+	+
214						+	+
487						+	+
483						+	+
486						+	+

Cleaned by: F.L.

Page # 100

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2010NOV\AH110913.D Vial: 28
Acq On : 9 Nov 2010 6:37 pm Operator: RJP
Sample : WAC110910H Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 09 18:57:47 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

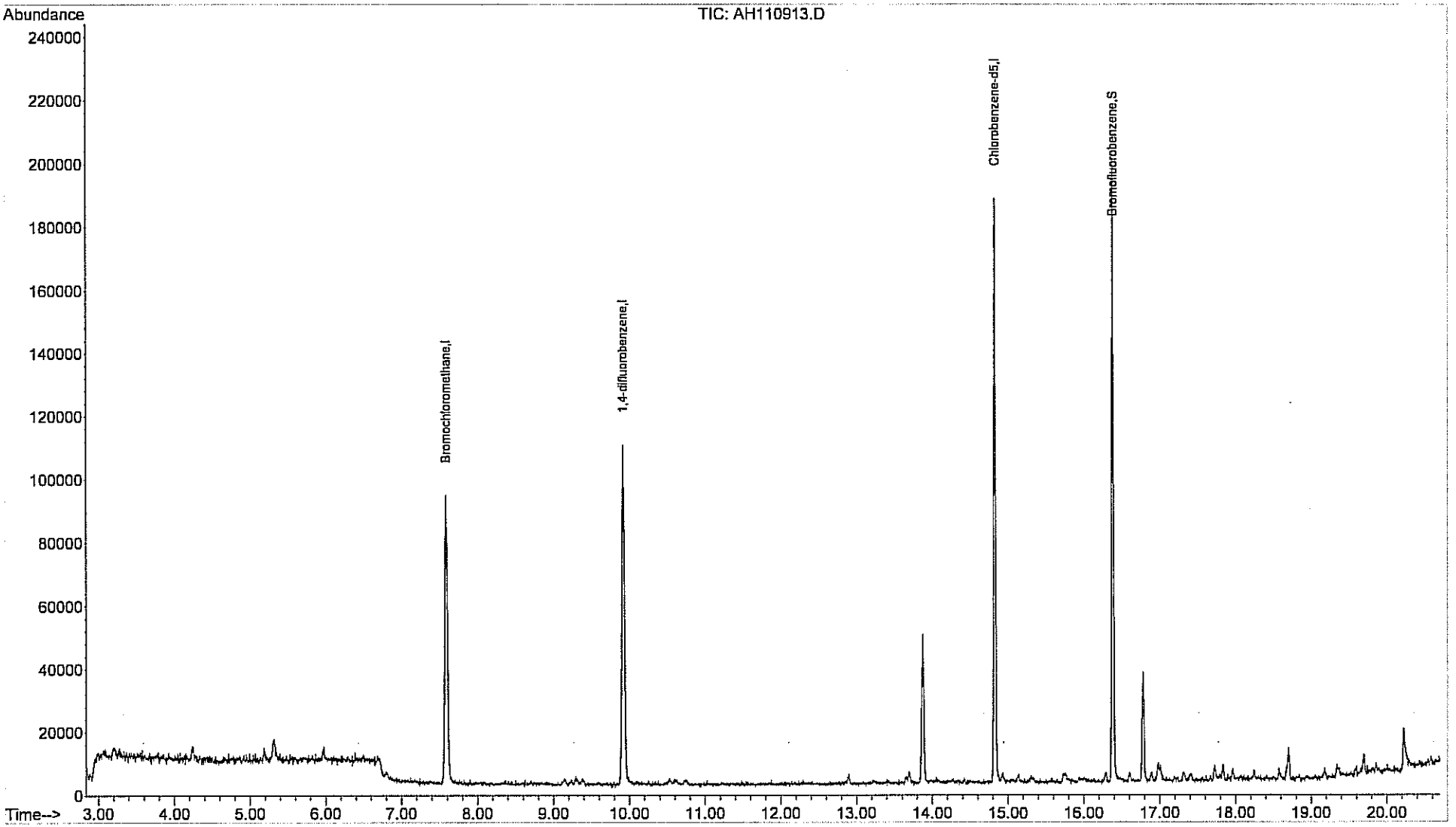
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.59	128	35732	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.92	114	122256	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	106655	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	52503	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2010NOV\AH110913.D Vial: 28
Acq On : 9 Nov 2010 6:37 pm Operator: RJP
Sample : WAC110910H Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 16 16:11 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration



Centek Laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2010NOV\AH110914.D Vial: 29
Acq On : 9 Nov 2010 7:09 pm Operator: RJP
Sample : WAC110910I Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Nov 09 19:29:55 2010 Quant Results File: AO14_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AO14_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Thu Oct 14 18:23:51 2010
Response via : Initial Calibration
DataAcq Meth : AO14_1UG

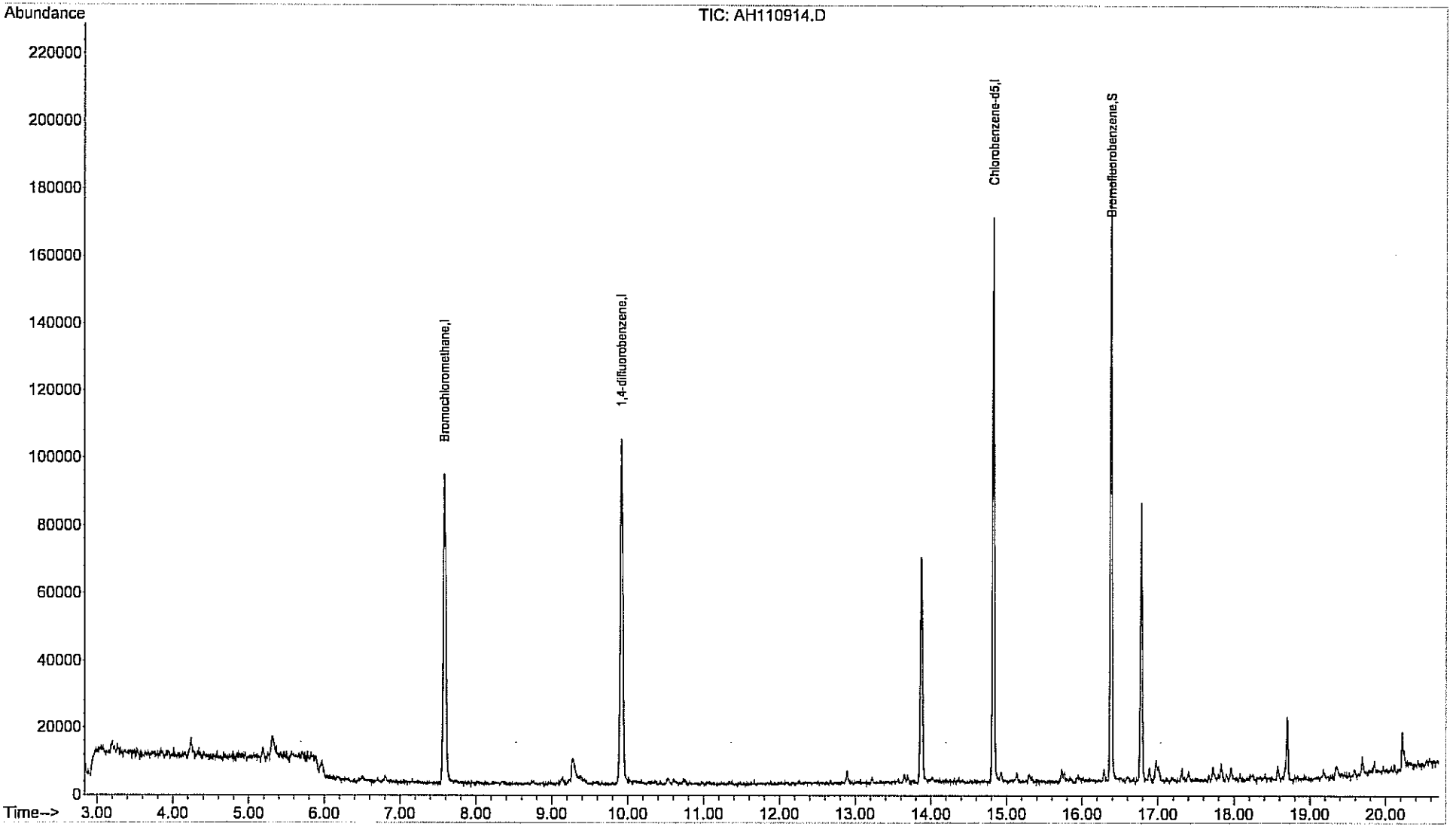
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	34671	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.92	114	115084	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	98531	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.38	95	50341	0.93	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH110914.D A106_1UG.M Thu Jan 20 11:08:16 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\2010NOV\AH110914.D Vial: 29
Acq On : 9 Nov 2010 7:09 pm Operator: RJP
Sample : WAC110910I Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 16 16:11 2010 Quant Results File: AO14_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration



Centek Laboratories, LLC

TO-15 Package Review Checklist

Client: FPM Group Project: B785SSUM SDG: C1101031

		YES	NO	NA
Analytical Results	Present and Complete	✓		
TIC's present	Present and Complete	✓		
	Holding Times Met	✓		

Comments:

Chain-of-Custody	Present and Complete	✓		
Surrogate Recovery	Present and Complete	✓		
	Recoveries within limits	✓		
	Sample(s) reanalyzed			✓
Internal Standards Recovery	Present and Complete	✓		
	Recoveries within limits		✓	
	Sample(s) reanalyzed	✓		

Comments: *SEE CASE NARRATIVE

Lab Control Sample (LCS)	Present and Complete	✓		
	Recoveries within limits	✓		
Lab Control Sample Dupe (LCSD)	Present and Complete	✓		
	Recoveries within limits		✓	
MS/MSD	Present and Complete			✓
	Recoveries within limits			✓

Comments: *SEE CASE NARRATIVE
NO MS/MSD

Sample Raw Data	Present and Complete			
	Spectra present for all samples			

Comments:

TO-15 Package Review Checklist

Client: FPM Group Project: B785-SSVM SDG: C1101031

		YES	NO	NA
Standards Data				
Initial Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Continuing Calibration Summary	Present and Complete	✓		
	Calibration(s) met criteria	✓		
Standards Raw Data	Present and Complete	✓		

Comments:

Raw Quality Control Data

Tune Criteria Report	Present and Complete	✓		
Method Blank Data	MB Results <PQL	✓		
	Associated results flagged "B"			✓
LCS sample data	Present and Complete	✓		
LCSD sample data	Present and Complete	✓		
MS/MSD sample data	Present and Complete	✓		

Comments:

Logbooks

Injection Log	Present and Complete	✓		
Standards Log	Present and Complete	✓		
Can Cleaning Log	Present and Complete	✓		
	Raw Data Present	✓		
Calculation sheet	Present and Complete	✓		
IDL's	Present and Complete	✓		
Bottle Order Form	Present and Complete	✓		
Sample Tracking Form	Present and Complete	✓		

Additional Comments:

Section Supervisor: [signature] Date: 2/18/11

QC Supervisor: [signature] Date: 2/22/11

CENTEK LABORATORIES, LLC

143 Midler Park Drive * Syracuse, NY 13206
Phone (315) 431-9730 * Emergency 24/7 (315) 416-2752
NYSDOH ELAP Certificate No. 11830

Analytical Report

Katrina Mattice
FPM Group
153 Brook Road
Rome, NY 13441

TEL: (315) 336-7721
FAX (315) 336-7722

Monday, January 31, 2011
Order No.: C1101031

RE: B785SSVM Sampling

Dear Katrina Mattice:

Centek Laboratories, LLC received 6 sample(s) on 1/25/2011 for the analyses presented in the following report.

I certify that this data package is in compliance with the terms and conditions of the Contract, both technically and for completeness. Release of the data contained in this hardcopy data package and/or in the computer readable data submitted has been authorized by the Laboratory Manager or his designee, as verified by the following signature.

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the case narrative. All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination.

Centek Laboratories is distinctively qualified to meet your needs for precise and timely volatile organic compound analysis. We perform all analyses according to EPA, NIOSH or OSHA-approved analytical methods. Centek Laboratories is dedicated to providing quality analyses and exceptional customer service. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

Analytical results relate to samples as received at laboratory. We do our best to make our reporting format clear and understandable and hope you are thoroughly satisfied with our services.

Please contact your client service representative at (315) 431-9730 or myself, if you would like any additional information regarding this report.

Thank you for using Centek Laboratories. This report can not be reproduced except in its entirety, without prior written authorization.

Sincerely,

Russell Pellegrino
Technical Director

Disclaimer: The test results and procedures utilized, and laboratory interpretations of the data obtained by Centek as contained in this report are believed by Centek to be accurate and reliable for sample(s) tested. In accepting this report, the customer agrees that the full extent of any and all liability for actual and consequential damages of Centek for the services performed shall be equal to the fee charged to the customer for the services as liquidated damages.

Centek Laboratories, LLC Terms and Conditions

Sample Submission

All samples sent to Centek Laboratories should be accompanied by our Request for Analysis Form or Chain of Custody Form. A Chain of Custody will be provided with each order shipped for all sampling events, or if needed, one is available at our website www.CentekLabs.com. Samples received after 3:00pm are considered to be a part of the next day's business.

Sample Media

Samples can be collected in an canister or a Tedlar bag. Depending on your analytical needs, Centek Laboratories may receive a bulk, liquid, soil or other matrix sample for headspace analysis.

Blanks

Every sample is run with a surrogate or tracer compound at a pre-established concentration. The surrogate compound run with each sample is used as a standard to measure the performance of each run of the instrument. If required, a Minican can be provided containing nitrogen to be run as a trip blank with your samples.

Sampling Equipment

Centek Laboratories will be happy to provide the canisters to carry-out your sampling event at no charge. The necessary accessories, such as regulators, tubing or personal sampling belts, are also provided to meet your sampling needs. The customer is responsible for all shipping charges to the client's destination and return shipping to the laboratory. Client assumes all responsibility for lost, stolen and any dameges of equipment.

Turn Around time (TAT)

Centek Laboratories will provide results to its clients in one business-week by 6:00pm EST after receipt of samples. For example, if samples are received on a Monday they are due on the following Monday by 6:00pm EST. Results are faxed or emailed to the requested location indicated on the Chain of Custody. Non-routine analysis may require more than the one business-week turnaround time. Please confirm non-routine sample turnaround times.

Reporting

Results are emailed or faxed at no additional charge. A hard copy of the result report is mailed within 24 hours of the faxing or emailing of your results. Cat "B" like packages are within 3-4

weeks from time of analysis. Standard Electronic Disk Deliverables (EDD) is also available at no additional charge.

Payment Terms

Payment for all purchases shall be due within 30 days from date of invoice. The client agrees to pay a finance charge of 1.5% per month on the overdue balance and cost of collection, including attorney fees, if collection proceedings are necessary. You must have a completed credit application on file to extend credit. Purchase orders or checks information must be submitted for us to release results

Rush Turnaround Samples

Expedited turn around times is available. Please confirm rush turnaround times with Client Services before submitting samples.

Applicable Surcharges for Rush Turnaround Samples:
Same day TAT = 200%
Next business day TAT by Noon = 150%
Next business day TAT by 6:00pm = 100%
Second business day TAT by 6:00pm = 75%
Third business day TAT by 6:00pm = 50%
Fourth business day TAT by 6:00pm = 35%
Fifth business day = Standard

Statement of Confidentiality

Centek Laboratories, LLC is aware of the importance of the confidentiality of results to many of our clients. Your name and data will be held in the strictest of confidence. We will not accept business that may constitute a conflict of interest. We commonly sign Confidential Nondisclosure Agreements with clients prior to beginning work. All research, results and reports will be kept strictly confidential. Secrecy Agreements and Disclosure Statements will be signed for the client if so specified. Results will be provided only to the addressee specified on the Chain of Custody Form submitted with the samples unless law requires release. Written permission is required from the addressee to release results to any other party.

Limitation on Liability

Centek Laboratories, LLC warrants the test results to be accurate to the methodology and sample type for each sample submitted to Centek Laboratories, LLC. In no event shall Centek Laboratories, LLC be liable for direct, indirect, special, punitive, incidental, exemplary or consequential damages, or any damages whatsoever, even if Centek Laboratories, LLC has been previously advised of the possibility of such damages whether in an action under contract, negligence, or any other theory, arising out of or in connection with the use, inability to use or performance of the information, services, products and materials available from the laboratory or this site. These limitations shall apply notwithstanding any failure of essential purpose of any limited remedy. Because some jurisdictions do not allow limitations on how long an implied warranty lasts, or the exclusion or limitation of liability for consequential or incidental damages, the above limitations may not apply to you. This is a comprehensive limitation of liability that applies to all damages of any kind, including (without limitation) compensatory, direct, indirect or consequential damages, loss of data, income or profit and or loss of or damage to property and claims of third parties.

ASP CAT B DELIVERABLE PACKAGE
Table of Contents

1. Package Review Check List

2. Case Narrative
   a. Corrective actions

3. Sample Summary Form

4. Sample Tracking Form

5. Bottle Order

6. Analytical Results
   a. Form 1

7. Quality Control Summary
   a. Qc Summary Report
   b. IS Summary Report
   c. MB Summary Report
   d. LCS Summary Report
   e. MSD Summary Report
   f. IDL's
   g. Calculation

8. Sample Data
   a. Form 1 (if requested) TIC's
   b. Quantitation Report with Spectra

9. Standards Data
   a. Initial Calibration with Quant Report
   b. Continuing Calibration with Quant Report

10. Raw Data
    a. Tuning Data

11. Raw QC Data
    a. Method Blank
    b. LCS
    c. MS/MSD

12. Log Books
    a. Injection Log Book
    b. Standards Log Book
    c. QC Canister Log Book

CENTEK LABORATORIES, LLC

Date: *19-Feb-11*

CLIENT: FPM Group
Project: B785SSVM Sampling
Lab Order: C1101031

CASE NARRATIVE

All method blanks, laboratory spikes, and/or matrix spikes met quality assurance objective except as indicated in the corrective action report(s). All samples were received and analyzed within the EPA recommended holding times. Test results are not Method Blank (MB) corrected for contamination. Samples were analyzed using the methods outlined in the following references:

Compendium of Methods for the Determination of Toxic Organic Compounds, Compendium Method TO-15, January 1999.

See Corrective Action: [2092] IS did not meet criteria.
See Corrective Action: [2093] LCSD did not meet criteria.

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 25-Jan-11 **Corrective Action Report ID:** 2092

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: IS did not meet criteria.

Description of Nonconformance: IS was high and did not meet criteria for samples C1101031-001 - 004. Based on the chromatographic evidence this is most likely due to matrix interference.

Description of Corrective Action: Samples were analyzed further as dilutions with results meeting criteria.

Performed By: Russell Pellegrino **Completion Date:** 28-Jan-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: No further corrective action taken. All sets of data submitted

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 30-Jan-11

QA Officer Approval: Nick Scala QA Date: 29-Jan-11

Last Updated BY russ2 Updated: 19-Feb-2011 11:54 AM Reported: 19-Feb-2011 11:54 A

Centek Laboratories, LLC

Corrective Action Report

Date Initiated: 27-Jan-11 **Corrective Action Report ID:** 2093

Initiated By: Russell Pellegrino **Department:** MSVOA

Corrective Action Description

CAR Summary: LCSD did not meet criteria.

Description of Nonconformance: ALCS1UGD-012711 did not meet criteria for RPD and % recoveries for several compounds. The LCSD did not reproduce. All other QC met criteria for the compounds of interest. The LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister.

Description of Corrective Action: Since all other QC met criteria for the associated samples and the LCS 6 Liter canister was independent of the 6 Liter continuing calibration canister, no corrective action taken at this time. If results continue to be outside established limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Performed By: Russell Pellegrino **Completion Date:** 28-Jan-11

Client Notification

Client Notification Required: No **Notified By:**

Comment:

Quality Assurance Review

Nonconformance Type: Deficiency

Further Action required by QA: At this time no further corrective action taken. If results continue to be outside acceptable limits then a new LCS stock standard will be analyzed. All sets of data submitted.

Approval and Closure

Technical Director / Deputy Tech. Dir.: Russell Pellegrino Close Date: 29-Jan-11

QA Officer Approval: Nick Scala QA Date: 29-Jan-11

Last Updated BY russ2 Updated: 19-Feb-2011 11:58 AM Reported: 19-Feb-2011 11:58 A

AFCEE
CHAIN OF CUSTODY RECORD

COC#: _1_ SDG#: _1_ Cooler ID: _A_

Ship to: Dave Linda Centek Laboratories, LLC 143 Midler Park Drive Syracuse, NY 13206 Tel: (315)431-9730	Project Name: B785 SSVM Sampling Sampler Name: Katrina Mattice	Send Results to: Katrina Mattice FPM Remediations Inc 584 Phoenix Dr Rome, NY 13441
Carrier: Fedex	Sampler Signature: Katrina J. Mattice	Phone: (315) 336-7721 Ext 212

Analyses Requested

Field Sample ID	Location ID (LOCID)	Date 2011	Time	MATRIX	SMCODE	SBD/SED	SACODE	Preservative	Filt./UnFilt.	No. of Containers	VOCs Note 1 1 L canister	ANALYSIS NOTE	Comments
786VMP0102AA	785VMP-01	1/18	1215	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 420, PID = 2,047 ppb
786VMP0202AA	785VMP-02	1/18	1235	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 428 PID = 279 ppb
786VMP0302AA	785VMP-03	1/18	1225	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 241 PID = 803 ppb
786CA0100AA	Carbon Influent	1/21	1615	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 429 PID = 8,348 ppb
786CA0200AA	Carbon Effluent	1/21	1620	GS	AC	0/0	N	-	Unf.	1	1	1	Canister # 360 PID = 41 ppb
Trip Blank	Trip Blank	1/21	1630	GS	AC	0/0	TB	-	Unf.	1	1	1	Canister # 407

Sample Condition Upon Receipt at Laboratory: Cooler Temperature:

Special Instructions/Comments: Analyses to be conducted in compliance with AFCEE QAPP 4.0

Note 1: VOC: Method TO-15 Full List

ANALYSIS NOTE 1: These samples must be analyzed at 1 µg/M3. Cat B package required.

C1101031

#1 Released by: (Sig)	Date:	#2 Released by: (Sig) Katrina Mattice	Date: 1/24/11	#3 Released by: (Sig)	Date:
Company Name:	Time:	Company Name: FPM Remediations Inc	Time: 1715	Company Name:	Time:
#1 Received by: (Sig) Katrina Mattice	Date: 12/30/10	#2 Received by: (Sig)	Date: 1/25/11	#3 Received by: (Sig)	Date:
Company Name: FPM Remediations Inc	Time: 1100	Company Name:	Time:	Company Name:	Time:

MATRIX
WG = Ground water
WQ = Water Quality Control Matrix
SO = Soil
GS = Gas Soil

SMCODE
B = Bailer
G = Grab (only for EB).
NA = Not Applicable (only for AB/TB)
PP = Peristaltic Pump
BP = Bladder Pump
SP = Submersible Pump
AC = Air Container

SACODE
N = Normal Sample
AB = Ambient Blank
TB = Trip Blank
EB = Equipment Blank
FD = Field Duplicate
MS = Matrix Spike
SD = Matrix Spike Duplicate

CENTEK LABORATORIES, LLC

Date: *19-Feb-11*

CLIENT: FPM Group
Project: B785SSVM Sampling
Lab Order: C1101031

Work Order Sample Summary

Lab Sample ID	Client Sample ID	Tag Number	Collection Date	Date Received
C1101031-001A	786VMP0102AA	420,	1/18/2011	1/25/2011
C1101031-002A	786VMP0202AA	428	1/18/2011	1/25/2011
C1101031-003A	786VMP0302AA	241	1/18/2011	1/25/2011
C1101031-004A	786CA0100AA	429	1/18/2011	1/25/2011
C1101031-005A	786CA0200AA	360	1/18/2011	1/25/2011
C1101031-006A	Trip Blank	407	1/18/2011	1/25/2011

Centek Laboratories, LLC

Sample Receipt Checklist

Client Name FPM-ROME | Date and Time Receive 1/25/2011

Work Order Numbe C1101031 | Received by JDS

Checklist completed by [signature] Signature | 1/25/11 Date | Reviewed by [initials] Initials | 1/25/11 Date

Matrix: | Carrier name UPS

Shipping container/cooler in good condition?	Yes ☑	No ☐	Not Presen ☐
Custody seals intact on shippping container/cooler?	Yes ☐	No ☐	Not Presen ☑
Custody seals intact on sample bottles?	Yes ☐	No ☐	Not Presen ☑
Chain of custody present?	Yes ☑	No ☐	
Chain of custody signed when relinquished and received?	Yes ☑	No ☐	
Chain of custody agrees with sample labels?	Yes ☑	No ☐	
Samples in proper container/bottle?	Yes ☑	No ☐	
Sample containers intact?	Yes ☑	No ☐	
Sufficient sample volume for indicated test?	Yes ☑	No ☐	
All samples received within holding time?	Yes ☑	No ☐	
Container/Temp Blank temperature in compliance?	Yes ☑	No ☐	
Water - VOA vials have zero headspace?	No VOA vials submitted ☑	Yes ☐	No ☐
Water - pH acceptable upon receipt?	Yes ☐	No ☑	

Adjusted? _____ Checked b _____

Any No and/or NA (not applicable) response must be detailed in the comments section be

Client contacted _____ Date contacted: _____ Person contacted _____

Contacted by: _____ Regarding: _____

Comments: _____

Corrective Action _____

SampleTrackingHistory 2/19/2011

Sample ID:	Action:	ActionDate:	Person:	NewLocation:
C1101031-003A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-006A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-004A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-002A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-001A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-005A	Transfer	1/25/2011 11:59:12 AM	ADM	GC/MS Lab
C1101031-001A	Login	1/25/2011 1:28:35 PM	jans	Sample Log In
C1101031-006A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-005A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-004A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-003A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-002A	Login	1/25/2011 1:32:22 PM	jans	Sample Log In
C1101031-006A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-005A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-004A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-001A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-003A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed
C1101031-002A	Mark as Consumed	1/30/2011 2:31:32 PM	ADM	Consumed

Centek Laboratories, LLC

19-Feb-11

Lab Order: C1101031
Client: FPM Group
Project: B785SSVM Sampling

DATES REPORT

Sample ID	Client Sample ID	Collection Date	Matrix	Test Name	TCLP Date	Prep Date	Analysis Date
C1101031-001A	786VMP0102AA	1/18/2011	Air	1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
C1101031-002A	786VMP0202AA			1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
C1101031-003A	786VMP0302AA			1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/27/2011
C1101031-004A	786CA0100AA			1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
				1ug/M3 by Method TO15			1/25/2011
C1101031-005A	786CA0200AA			1ug/M3 by Method TO15			1/25/2011
				1ug/M3 by Method TO15			1/27/2011
				1ug/M3 by Method TO15			1/28/2011
C1101031-006A	Trip Blank			1ug/M3 by Method TO15			1/27/2011

CENTEK LABORATORIES, LLC
Air Quality Testing...It's a Gas
143 Midler Park Drive * Syracuse, NY 13206
TEL: 315-431-9730 * FAX: 315-431-9731

CANISTER ORDER

2117

18-Feb-11

SHIPPED TO:

Company: FPM Group
Contact: Katrina Mattice
Address: 584 Phoenix Drive
Rome, NY 13441
Phone: (315) 336-7721
Quote ID: 0
Project:

Submitted By:

Ship Date: 12/29/2010
VIA: FedEx
Due Date: 12/30/2010

Bottle Code	Bottle Type	TEST(s)	QTY
MC1000CC	1L Mini-Can	1ug/M3 by Method TO15	5

Can / Reg ID	Description
360	1L Mini-Can - 1309
241	1L Mini-Can - 1173
407	1L Mini-Can - 1329
420	1L Mini-Can - 1344
428	1L Mini-Can - 1355
429	1L Mini-Can - 1356

Comments: 4 1 L canisters with quick grabs, include a trip blank WAC12310E

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

ANALYTICAL RESULTS

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.2	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	4.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
4-ethyltoluene	0.65	0.15		ppbV	1	1/25/2011 7:18:00 PM
Acetone	13	12		ppbV	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Benzene	5.9	1.5		ppbV	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromodichloromethane	0.59	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Carbon disulfide	4.8	1.5		ppbV	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroform	6.0	6.0		ppbV	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
Freon 11	0.52	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 12	0.76	0.15		ppbV	1	1/25/2011 7:18:00 PM
Heptane	6.0	1.5		ppbV	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Hexane	15	1.5		ppbV	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
m&p-Xylene	3.9	3.0		ppbV	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Methylene chloride	1.1	0.15		ppbV	1	1/25/2011 7:18:00 PM
o-Xylene	1.7	1.5		ppbV	10	1/27/2011 4:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	20	1.5		ppbV	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Toluene	9.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Trichloroethene	900	120		ppbV	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:18:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	12	8.3		ug/m3	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	7.5	7.5		ug/m3	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	5.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	19	7.1		ug/m3	10	1/27/2011 4:56:00 PM
4-ethyltoluene	3.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Acetone	31	29		ug/m3	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:18:00 PM
Benzene	19	4.9		ug/m3	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:18:00 PM
Bromodichloromethane	4.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:18:00 PM
Carbon disulfide	15	4.7		ug/m3	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:18:00 PM
Chloroform	30	30		ug/m3	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
Ethylbenzene	6.6	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Freon 11	3.0	0.86		ug/m3	1	1/25/2011 7:18:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.8	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Heptane	25	6.2		ug/m3	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Hexane	52	5.4		ug/m3	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:18:00 PM
m&p-Xylene	17	13		ug/m3	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:18:00 PM
Methylene chloride	3.8	0.53		ug/m3	1	1/25/2011 7:18:00 PM
o-Xylene	7.5	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	140	10		ug/m3	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/25/2011 7:18:00 PM
Toluene	35	5.7		ug/m3	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Trichloroethene	4900	660		ug/m3	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.7	1.5		ppbV	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	0.91	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	0.37	0.15		ppbV	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	1/25/2011 7:50:00 PM
Acetone	20	3.0		ppbV	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromodichloromethane	1.1	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon disulfide	1.7	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroform	120	14		ppbV	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	0.35	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 11	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 113	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 12	0.69	0.15		ppbV	1	1/25/2011 7:50:00 PM
Heptane	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
m&p-Xylene	1.1	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	2.2	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Methylene chloride	0.40	0.15		ppbV	1	1/25/2011 7:50:00 PM
o-Xylene	0.50	0.15		ppbV	1	1/25/2011 7:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	1.6	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	5.2	1.5		ppbV	10	1/27/2011 6:01:00 PM
Toluene	1.8	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Trichloroethene	140	14		ppbV	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:50:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	15	8.3		ug/m3	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	4.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	1.8	0.71		ug/m3	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.95	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Acetone	49	7.2		ug/m3	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:50:00 PM
Benzene	4.6	0.49		ug/m3	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:50:00 PM
Bromodichloromethane	7.4	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:50:00 PM
Carbon disulfide	5.3	0.47		ug/m3	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:50:00 PM
Chloroform	620	69		ug/m3	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	1.4	0.60		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Freon 11	2.7	0.86		ug/m3	1	1/25/2011 7:50:00 PM
Freon 113	3.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Heptane	5.8	0.62		ug/m3	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:50:00 PM
m&p-Xylene	4.8	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	9.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	15	9.0		ug/m3	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:50:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	1/25/2011 7:50:00 PM
o-Xylene	2.2	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	11	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	16	4.5		ug/m3	10	1/27/2011 6:01:00 PM
Toluene	6.7	0.57		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Trichloroethene	740	76		ug/m3	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.8	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	0.33	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	2.7	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	2.0	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	1/25/2011 8:22:00 PM
Acetone	21	12		ppbV	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromodichloromethane	0.42	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon disulfide	0.97	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroform	9.4	1.5		ppbV	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.2	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 11	0.56	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 113	0.44	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Heptane	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
m&p-Xylene	3.6	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	1.8	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	6.3	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
o-Xylene	1.4	1.5	J	ppbV	10	1/27/2011 7:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Styrene	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	12	6.0		ppbV	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	12	1.5		ppbV	10	1/27/2011 7:03:00 PM
Toluene	4.1	1.5		ppbV	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Trichloroethene	400	120		ppbV	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Surr: Bromofluorobenzene	127	70-130		%REC	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Nnmber:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	16	8.3		ug/m3	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	1.4	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	13	7.5		ug/m3	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	9.9	0.75		ug/m3	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/25/2011 8:22:00 PM
4-ethyltoluene	8.1	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Acetone	50	29		ug/m3	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:22:00 PM
Benzene	4.7	0.49		ug/m3	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:22:00 PM
Bromodichloromethane	2.9	1.0		ug/m3	1	1/25/2011 8:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:22:00 PM
Carbon disulfide	3.1	0.47		ug/m3	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:22:00 PM
Chloroform	47	7.4		ug/m3	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
Ethylbenzene	9.8	0.66		ug/m3	1	1/25/2011 8:22:00 PM
Freon 11	3.2	0.86		ug/m3	1	1/25/2011 8:22:00 PM
Freon 113	3.4	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Heptane	4.7	0.62		ug/m3	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:22:00 PM
m&p-Xylene	16	13		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	7.6	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	19	9.0		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:22:00 PM
o-Xylene	6.2	6.6	J	ug/m3	10	1/27/2011 7:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:22:00 PM
Styrene	4.8	0.65		ug/m3	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	85	41		ug/m3	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	36	4.5		ug/m3	10	1/27/2011 7:03:00 PM
Toluene	16	5.7		ug/m3	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Trichloroethene	2200	660		ug/m3	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.2	1.5		ppbV	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	320	360	J	ppbV	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Acetone	12	3.0		ppbV	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzene	0.74	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroform	58	14		ppbV	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	16	1.5		ppbV	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	0.71	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 11	0.49	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 113	0.26	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 12	0.68	0.15		ppbV	1	1/25/2011 8:54:00 PM
Heptane	120	14		ppbV	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Hexane	180	14		ppbV	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
m&p-Xylene	2.1	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	86	14		ppbV	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	170	14		ppbV	90	1/27/2011 8:39:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Trichloroethene	5000	360		ppbV	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				**Analyst: RJP**
1,1,1-Trichloroethane	34	8.3		ug/m3	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	1500	1700	J	ug/m3	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Acetone	30	7.2		ug/m3	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:54:00 PM
Benzene	2.4	0.49		ug/m3	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:54:00 PM
Chloroform	290	69		ug/m3	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	64	6.0		ug/m3	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
Ethylbenzene	3.1	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Freon 11	2.8	0.86		ug/m3	1	1/25/2011 8:54:00 PM
Freon 113	2.0	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	3.4	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Heptane	490	58		ug/m3	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Hexane	640	50		ug/m3	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:54:00 PM
m&p-Xylene	9.2	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	600	97		ug/m3	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	510	42		ug/m3	90	1/27/2011 8:39:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Trichloroethene	27000	2000		ug/m3	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.65	0.39		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:	**	Reporting Limit	.	Results reported are not blank corrected
	B	Analyte detected in the associated Method Blank	E	Value above quantitation range
	H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
	JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
	S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Acetone	94	54		ppbV	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloromethane	2.0	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 12	0.90	0.15		ppbV	1	1/25/2011 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	2.8	1.5		ppbV	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	110	27		ppbV	180	1/28/2011 6:07:00 PM
Toluene	0.28	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Trichloroethene	5.3	0.75		ppbV	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit
B	Analyte detected in the associated Method Blank
H	Holding times for preparation or analysis exceeded
JN	Non-routine analyte. Quantitation estimated.
S	Spike Recovery outside accepted recovery limits
.	Results reported are not blank corrected
E	Value above quantitation range
J	Analyte detected at or below quantitation limits
ND	Not Detected at the Reporting Limit

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	1.1	0.71		ug/m3	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Acetone	230	130		ug/m3	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/25/2011 9:26:00 PM
Chloromethane	4.1	0.31		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/25/2011 9:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	4.5	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	8.2	4.5		ug/m3	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 9:26:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	330	81		ug/m3	180	1/28/2011 6:07:00 PM
Toluene	1.1	0.57		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Trichloroethene	29	4.1		ug/m3	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.39	0.39		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Acetone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Acetone	< 0.72	0.72		ug/m3	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/27/2011 4:23:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/27/2011 4:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/27/2011 4:23:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/27/2011 4:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/27/2011 4:23:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

QUALITY CONTROL SUMMARY

Date: 08-Feb-11

CENTEK LABORATORIES, LLC

QC SUMMARY REPORT
SURROGATE RECOVERIES

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling
Test No: TO-15 **Matrix:** A

Sample ID	BR4FBZ							
ALCS1UG-012511	113							
ALCS1UG-012711	111							
ALCS1UG-012811	112							
AMB1UG-012511	88.0							
AMB1UG-012711	90.0							
AMB1UG-012811	97.0							
C1101031-001A	122							
C1101031-002A	122							
C1101031-003A	127							
C1101031-004A	103							
C1101031-005A	120							
C1101031-006A	98.0							
LCS1UGD-012711	109							
LCS1UGD-012811	110							

Acronym	Surrogate	QC Limits
BR4FBZ	= Bromofluorobenzene	70-130

*** Surrogate recovery outside acceptance limits**

1

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012504.D
Tune Time : 25 Jan 2011 10:03 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012504.D

		(BFB)	(IS1)	(IS2)	(IS3)
			17855	48897	44931
File	Sample	Surrogate Recovery %	Internal Standard Responses		
AI012505.D	ALCS1UG-01251	113	18022	50948	46978
AI012506.D	AMB1UG-012511	88	16392	36302	28683
AI012519.D	C1101031-001A	122	21713	74225*	77776*
AI012520.D	C1101031-002A	122	20529	69329*	68796*
AI012521.D	C1101031-003A	127	20918	66726	68119*
AI012522.D	C1101031-004A	103	22139	89465*	83860*
AI012523.D	C1101031-005A	120	20993	68288	61731

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:51:13 2011 MSD #1/

GC/MS QA-QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012703.D
Tune Time : 27 Jan 2011 10:40 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012703.D

		(BFB)		(IS1)	(IS2)	(IS3)
				18641	57345	54753
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AI012704.D	ALCS1UG-01271	111		18733	52317	50239
AI012705.D	AMB1UG-012711	90		17220	43450	34689
AI012712.D	C1101031-006A	98		17451	41299	38982
AI012713.D	C1101031-001A	115	DL10x	18349	54249	50726
AI012714.D	C1101031-001A	94	DL40x	17353	42790	35099
AI012715.D	C1101031-002A	91	DL10x	17666	46549	40921
AI012717.D	C1101031-003A	93	DL10x	16838	43991	41856
AI012718.D	C1101031-003A	94	DL40x	17679	42833	34836
AI012719.D	C1101031-004A	118	DL10x	19064	64461	77463*
AI012720.D	C1101031-004A	94	DL40x	18851	62562	55244
AI012721.D	C1101031-005A	108	DL5x	17962	50601	46688
AI012728.D	LCS1UGD-01271	109		20088	68662	70738

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:52:48 2011 MSD #1/

GC/MS QA/QC Check Report

Tune File : C:\HPCHEM\1\DATA\AI012803.D
Tune Time : 28 Jan 2011 10:20 am

Daily Calibration File : C:\HPCHEM\1\DATA\AI012803.D

		(BFB)		(IS1)	(IS2)	(IS3)
				33200	96780	92339
File	Sample	Surrogate Recovery %		Internal Standard Responses		
AI012804.D	ALCS1UG-01281	112		31472	90987	81922
AI012805.D	AMB1UG-012811	97		29774	82180	75429
AI012809.D	C1101031-001A	96	DL810x	30614	85882	76826
AI012810.D	C1101031-002A	97	DL90x	29161	78493	71639
AI012811.D	C1101031-003A	95	DL810x	28195	71974	66131
AI012812.D	C1101031-004A	94	DL2430x	28331	73869	69668
AI012813.D	C1101031-005A	98	DL180x	30092	79423	74372
AI012829.D	LCS1UGD-01281	110		25975	67394	64100

t - fails 24hr time check * - fails criteria

Created: Tue Feb 08 15:55:49 2011 MSD #1/

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012511	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.140	0.15	1	0	114	70	130				
Chlorobenzene	1.050	0.15	1	0	105	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				
Chloroform	1.200	0.15	1	0	120	70	130				
Chloromethane	1.230	0.15	1	0	123	70	130				
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.000	0.15	1	0	100	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.9000	0.25	1	0	90.0	70	130				
Ethylbenzene	1.020	0.15	1	0	102	70	130				
Freon 11	2.110	0.15	1	0	211	70	130				S
Freon 113	1.240	0.15	1	0	124	70	130				
Freon 114	1.140	0.15	1	0	114	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.050	0.15	1	0	105	70	130				
Hexachloro-1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
Hexane	1.060	0.15	1	0	106	70	130				
Isopropyl alcohol	1.150	0.15	1	0	115	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130				
Methylene chloride	1.150	0.15	1	0	115	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9900	0.15	1	0	99.0	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.110	0.15	1	0	111	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.160	0.15	1	0	116	70	130				

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130				
1,2-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130				
1,3,5-Trimethylbenzene	0.8100	0.15	1	0	81.0	70	130				
1,3-butadiene	1.170	0.15	1	0	117	70	130				
1,3-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130				
1,4-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130				
2,2,4-trimethylpentane	1.040	0.15	1	0	104	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012711	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.8600	0.30	1	0	86.0	70	130				
Allyl chloride	1.150	0.15	1	0	115	70	130				
Benzene	1.260	0.15	1	0	126	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.160	0.15	1	0	116	70	130				
Bromoform	1.000	0.15	1	0	100	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.130	0.15	1	0	113	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	1.140	0.15	1	0	114	70	130				
Chloroform	1.220	0.15	1	0	122	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130				
cis-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130				
Cyclohexane	1.130	0.15	1	0	113	70	130				
Dibromochloromethane	1.050	0.15	1	0	105	70	130				
Ethyl acetate	0.9400	0.25	1	0	94.0	70	130				
Ethylbenzene	1.000	0.15	1	0	100	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.260	0.15	1	0	126	70	130				
Freon 114	1.240	0.15	1	0	124	70	130				
Freon 12	1.190	0.15	1	0	119	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.7100	0.15	1	0	71.0	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.960	0.30	2	0	98.0	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Isobutyl Ketone	0.8500	0.30	1	0	85.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.260	0.15	1	0	126	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	1.080	0.15	1	0	108	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.130	0.15	1	0	113	70	130				
Tetrahydrofuran	1.000	0.15	1	0	100	70	130				
Toluene	1.100	0.15	1	0	110	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.030	0.15	1	0	103	70	130				
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130				
1,2-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012811	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	0.8200	0.30	1	0	82.0	70	130				
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	1.140	0.30	1	0	114	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.100	0.15	1	0	110	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.040	0.15	1	0	104	70	130				
Carbon disulfide	0.7500	0.15	1	0	75.0	70	130				
Carbon tetrachloride	1.010	0.15	1	0	101	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	1.120	0.15	1	0	112	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9900	0.15	1	0	99.0	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	0.7200	0.15	1	0	72.0	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.120	0.15	1	0	112	70	130				
Heptane	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012811	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130				
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.080	0.15	1	0	108	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.160	0.15	1	0	116	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8600	0.15	1	0	86.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9600	0.15	1	0	96.0	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				
Toluene	1.090	0.15	1	0	109	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	1.090	0.15	1	0	109	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **LCS1UGD-012711** SampType: **LCSD** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4196**
Client ID: **ZZZZZ** Batch ID: **R4196** TestNo: **TO-15** Analysis Date: **1/28/2011** SeqNo: **50392**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.010	0.15	1	0	101	70	130	1.25	21.2	30	
1,1,2,2-Tetrachloroethane	0.7800	0.15	1	0	78.0	70	130	0.94	18.6	30	
1,1,2-Trichloroethane	1.010	0.15	1	0	101	70	130	1.18	15.5	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1-Dichloroethene	1.200	0.15	1	0	120	70	130	0.79	41.2	30	R
1,2,4-Trichlorobenzene	0.6100	0.15	1	0	61.0	70	130	0.73	17.9	30	S
1,2,4-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,2-Dibromoethane	0.8600	0.15	1	0	86.0	70	130	1.09	23.6	30	
1,2-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
1,2-Dichloroethane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130	1.22	12.2	30	
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.81	8.28	30	
1,3-butadiene	1.010	0.15	1	0	101	70	130	1.17	14.7	30	
1,3-Dichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
1,4-Dichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
1,4-Dioxane	0.3200	0.30	1	0	32.0	70	130	0.88	93.3	30	SR
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
4-ethyltoluene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Acetone	1.280	0.30	1	0	128	70	130	0.86	39.3	30	R
Allyl chloride	1.150	0.15	1	0	115	70	130	1.15	0	30	
Benzene	1.100	0.15	1	0	110	70	130	1.26	13.6	30	
Benzyl chloride	1.010	0.15	1	0	101	70	130	0.95	6.12	30	
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130	1.16	26.3	30	
Bromoform	0.7000	0.15	1	0	70.0	70	130	1	35.3	30	R
Bromomethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012711	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.050	0.15	1	0	105	70	130	1.13	7.34	30	
Carbon tetrachloride	0.7900	0.15	1	0	79.0	70	130	1.13	35.4	30	R
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30	
Chloroethane	1.100	0.15	1	0	110	70	130	1.14	3.57	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.22	4.18	30	
Chloromethane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
cis-1,2-Dichloroethene	1.270	0.15	1	0	127	70	130	1.16	9.05	30	
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130	1.19	17.4	30	
Cyclohexane	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Dibromochloromethane	0.7400	0.15	1	0	74.0	70	130	1.05	34.6	30	R
Ethyl acetate	1.040	0.25	1	0	104	70	130	0.94	10.1	30	
Ethylbenzene	1.230	0.15	1	0	123	70	130	1	20.6	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	30	
Freon 113	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.24	12.9	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.19	7.86	30	
Heptane	1.290	0.15	1	0	129	70	130	1	25.3	30	
Hexachloro-1,3-butadiene	0.5500	0.15	1	0	55.0	70	130	0.71	25.4	30	S
Hexane	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130	0.81	19.0	30	
m&p-Xylene	3.090	0.30	2	0	154	70	130	1.96	44.8	30	SR
Methyl Butyl Ketone	0.3900	0.30	1	0	39.0	70	130	0.85	74.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Methyl Isobutyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.85	44.6	30	SR
Methyl tert-butyl ether	1.240	0.15	1	0	124	70	130	1.26	1.60	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
o-Xylene	0.9400	0.15	1	0	94.0	70	130	0.84	11.2	30	
Propylene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Styrene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.13	19.4	30	
Tetrahydrofuran	1.090	0.15	1	0	109	70	130	1	8.61	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.380	0.15	1	0	238	70	130	1.1	73.6	30	SR
trans-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.13	2.69	30	
Trichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Vinyl acetate	1.170	0.15	1	0	117	70	130	1.06	9.87	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1.04	2.93	30	
Vinyl chloride	1.080	0.15	1	0	108	70	130	1.18	8.85	30	

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1-Dichloroethene	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
1,2,4-Trichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.89	18.4	30	
1,2,4-Trimethylbenzene	0.7400	0.15	1	0	74.0	70	130	0.82	10.3	30	
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130	1.03	5.66	30	
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
1,2-Dichloropropane	1.130	0.15	1	0	113	70	130	1.1	2.69	30	
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
1,3-butadiene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	30	
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.89	9.41	30	
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130	0.82	10.3	30	
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	1	9.42	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.250	0.30	1	0	125	70	130	1.14	9.21	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.94	16.1	30	
Benzene	1.050	0.15	1	0	105	70	130	1.1	4.65	30	
Benzyl chloride	0.9700	0.15	1	0	97.0	70	130	1.11	13.5	30	
Bromodichloromethane	1.150	0.15	1	0	115	70	130	1.05	9.09	30	
Bromoform	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
Bromomethane	1.090	0.15	1	0	109	70	130	1.04	4.69	30	
Carbon disulfide	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
Carbon tetrachloride	1.110	0.15	1	0	111	70	130	1.01	9.43	30	
Chlorobenzene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.12	0.889	30	
Chloroform	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Chloromethane	1.140	0.15	1	0	114	70	130	1.15	0.873	30	
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	1.1	13.6	30	
cis-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.01	8.25	30	
Dibromochloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130	0.97	26.9	30	
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.08	3.64	30	
Freon 113	1.160	0.15	1	0	116	70	130	0.72	46.8	30	R
Freon 114	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Heptane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.92	15.2	30	
Hexane	0.8500	0.15	1	0	85.0	70	130	1.05	21.1	30	
Isopropyl alcohol	0.8400	0.15	1	0	84.0	70	130	1.08	25.0	30	
m&p-Xylene	1.890	0.30	2	0	94.5	70	130	2.03	7.14	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.91	20.6	30	
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.99	28.9	30	
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130	0.72	2.82	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197		
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410		

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7700	0.15	1	0	77.0	70	130	1.16	40.4	30	R
Methylene chloride	1.080	0.15	1	0	108	70	130	0.86	22.7	30	
o-Xylene	0.8100	0.15	1	0	81.0	70	130	0.86	5.99	30	
Propylene	0.8200	0.15	1	0	82.0	70	130	0.95	14.7	30	
Styrene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	0.7600	0.15	1	0	76.0	70	130	0.86	12.3	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.1	18.9	30	
trans-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
Trichloroethene	1.080	0.15	1	0	108	70	130	0.98	9.71	30	
Vinyl acetate	0.8100	0.15	1	0	81.0	70	130	1.09	29.5	30	
Vinyl Bromide	1.030	0.15	1	0	103	70	130	1.01	1.96	30	
Vinyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	

Centek laboratories, LLC

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012511	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4195
Client ID:	ZZZZZ	Batch ID:	R4195	TestNo:	TO-15			Analysis Date:	1/25/2011	SeqNo:	50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012811	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012811	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Centek Laboratories
IDL Study 1ug level

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

Name	Amount	IDL#1	IDL#2	IDL#3	IDL#4	IDL#5	IDL#6	IDL#7	Average	Stdv	%Rec	IDL
Propylene	0.15	0.19	0.19	0.19	0.19	0.19	0.19	0.18	0.19	0.004	125.7	0.012
Freon 12	0.15	0.16	0.16	0.15	0.15	0.14	0.15	0.14	0.15	0.008	100.0	0.026
Chloromethane	0.15	0.18	0.18	0.15	0.15	0.18	0.18	0.16	0.17	0.015	112.4	0.046
Freon 114	0.15	0.16	0.17	0.15	0.15	0.17	0.15	0.14	0.16	0.011	103.8	0.036
Vinyl Chloride	0.15	0.17	0.15	0.14	0.14	0.13	0.16	0.14	0.15	0.014	98.1	0.043
1,3-butadiene	0.15	0.18	0.20	0.16	0.16	0.14	0.17	0.13	0.16	0.024	108.6	0.074
Bromomethane	0.15	0.18	0.20	0.18	0.18	0.19	0.14	0.19	0.18	0.019	120.0	0.060
Chloroethane	0.15	0.20	0.18	0.19	0.19	0.16	0.17	0.15	0.18	0.018	118.1	0.057
Vinyl Bromide	0.15	0.18	0.16	0.16	0.16	0.16	0.16	0.14	0.16	0.012	106.7	0.036
Freon 11	0.15	0.17	0.16	0.15	0.15	0.16	0.15	0.14	0.15	0.010	102.9	0.031
Acetone	0.15	0.18	0.17	0.20	0.20	0.17	0.20	0.20	0.19	0.015	125.7	0.046
Isopropyl alcohol	0.15	0.18	0.17	0.17	0.17	0.20	0.17	0.17	0.18	0.011	117.1	0.036
1,1-dichloroethene	0.15	0.18	0.16	0.23	0.23	0.18	0.16	0.16	0.19	0.032	123.8	0.099
Freon 113	0.15	0.18	0.16	0.21	0.21	0.16	0.16	0.15	0.18	0.025	117.1	0.079
Methylene chloride	0.15	0.17	0.23	0.21	0.21	0.17	0.17	0.15	0.19	0.029	124.8	0.092
Allyl chloride	0.15	0.19	0.19	0.19	0.19	0.17	0.17	0.16	0.18	0.013	120.0	0.041
Carbon disulfide	0.15	0.20	0.24	0.22	0.20	0.21	0.17	0.16	0.20	0.028	133.3	0.087
trans-1,2-dichloroethene	0.15	0.18	0.17	0.16	0.16	0.15	0.16	0.15	0.16	0.011	107.6	0.034
methyl tert-butyl ether	0.15	0.19	0.15	0.16	0.16	0.18	0.19	0.16	0.17	0.016	113.3	0.051
1,1-dichloroethane	0.15	0.16	0.15	0.15	0.15	0.13	0.14	0.13	0.14	0.011	96.2	0.036
Vinyl acetate	0.15	0.14	0.12	0.13	0.13	0.16	0.13	0.14	0.14	0.013	90.5	0.040
Methyl Ethyl Ketone	0.15	0.21	0.18	0.17	0.17	0.19	0.20	0.17	0.18	0.016	122.9	0.051
cis-1,2-dichloroethene	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Hexane	0.15	0.17	0.16	0.17	0.17	0.18	0.15	0.14	0.16	0.014	108.6	0.043
Ethyl acetate	0.15	0.18	0.18	0.18	0.18	0.21	0.21	0.22	0.19	0.018	129.5	0.057
Chloroform	0.15	0.16	0.16	0.14	0.14	0.14	0.13	0.13	0.14	0.013	95.2	0.039
Tetrahydrofuran	0.15	0.17	0.15	0.15	0.15	0.18	0.18	0.19	0.17	0.017	111.4	0.054
1,2-dichloroethane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
1,1,1-trichloroethane	0.15	0.16	0.15	0.15	0.15	0.14	0.14	0.13	0.15	0.010	97.1	0.031
Cyclohexane	0.15	0.17	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.014	96.2	0.044
Carbon tetrachloride	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.13	0.15	0.010	98.1	0.030
Benzene	0.15	0.15	0.15	0.15	0.15	0.14	0.13	0.13	0.14	0.010	95.2	0.030
1,4-dioxane	0.15	0.20	0.19	0.18	0.18	0.19	0.11	0.15	0.17	0.031	114.3	0.098

Centek laboratories, LLC

Centek Laboratories

C:\HPCHEM\1\DATA\AH101917.D

Units ppb

IDL Study 1ug level

2,2,4-trimethylpentane	0.15	0.15	0.14	0.15	0.15	0.13	0.14	0.13	0.14	0.009	94.3	0.028
Heptane	0.15	0.16	0.15	0.15	0.15	0.14	0.15	0.14	0.15	0.007	99.0	0.022
Trichloroethene	0.15	0.15	0.14	0.14	0.14	0.12	0.13	0.13	0.14	0.010	90.5	0.031
1,2-dichloropropane	0.15	0.15	0.16	0.15	0.15	0.14	0.13	0.13	0.14	0.011	96.2	0.036
Bromodichloromethane	0.15	0.16	0.16	0.15	0.15	0.14	0.14	0.14	0.15	0.009	99.0	0.028
cis-1,3-dichloropropene	0.15	0.13	0.14	0.12	0.12	0.12	0.12	0.14	0.13	0.010	84.8	0.030
trans-1,3-dichloropropene	0.15	0.12	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.004	81.0	0.012
1,1,2-trichloroethane	0.15	0.15	0.14	0.13	0.13	0.13	0.13	0.13	0.13	0.008	89.5	0.025
Toluene	0.15	0.14	0.13	0.13	0.13	0.12	0.11	0.12	0.13	0.010	83.8	0.031
Methyl Isobutyl Ketone	0.15	0.23	0.17	0.18	0.18	0.21	0.20	0.21	0.20	0.021	131.4	0.067
Dibromochloromethane	0.15	0.16	0.14	0.15	0.15	0.13	0.13	0.13	0.14	0.012	94.3	0.038
Methyl Butyl Ketone	0.15	0.29	0.24	0.23	0.23	0.24	0.24	0.21	0.24	0.024	160.0	0.077
1,2-dibromoethane	0.15	0.14	0.13	0.13	0.13	0.12	0.12	0.13	0.13	0.007	85.7	0.022
Tetrachloroethylene	0.15	0.15	0.15	0.14	0.14	0.13	0.14	0.13	0.14	0.008	93.3	0.026
Chlorobenzene	0.15	0.14	0.13	0.12	0.12	0.12	0.12	0.12	0.12	0.008	82.9	0.025
Ethylbenzene	0.15	0.12	0.12	0.11	0.11	0.11	0.11	0.11	0.11	0.005	75.2	0.015
m&p-xylene	0.3	0.23	0.20	0.22	0.22	0.22	0.21	0.22	0.22	0.010	72.4	0.030
Styrene	0.15	0.11	0.11	0.10	0.10	0.11	0.12	0.12	0.11	0.008	73.3	0.026
Bromoform	0.15	0.14	0.13	0.12	0.12	0.12	0.11	0.12	0.12	0.010	81.9	0.030
o-xylene	0.15	0.12	0.10	0.11	0.11	0.11	0.10	0.11	0.11	0.007	72.4	0.022
Bromofluorobenzene	1	0.87	0.89	0.92	0.92	0.98	0.93	0.97	0.93	0.040	92.6	0.124
1,1,2,2-tetrachloroethane	0.15	0.16	0.10	0.14	0.14	0.15	0.14	0.15	0.14	0.019	93.3	0.060
4-ethyltoluene	0.15	0.15	0.10	0.12	0.12	0.14	0.12	0.13	0.13	0.016	83.8	0.051
1,3,5-trimethylbenzene	0.15	0.14	0.11	0.12	0.12	0.13	0.12	0.13	0.12	0.010	82.9	0.031
1,2,4-trimethylbenzene	0.15	0.16	0.12	0.12	0.12	0.13	0.11	0.12	0.13	0.016	83.8	0.051
1,3-dichlorobenzene	0.15	0.14	0.09	0.11	0.11	0.11	0.10	0.12	0.11	0.016	74.3	0.049
benzyl chloride	0.15	0.20	0.11	0.16	0.16	0.16	0.13	0.15	0.15	0.028	101.9	0.088
1,4-dichlorobenzene	0.15	0.13	0.09	0.11	0.11	0.11	0.10	0.11	0.11	0.012	72.4	0.038
1,2-dichlorobenzene	0.15	0.15	0.10	0.14	0.14	0.13	0.11	0.13	0.13	0.018	85.7	0.056
1,2,4-trichlorobenzene	0.15	0.23	0.14	0.16	0.16	0.16	0.13	0.17	0.16	0.032	109.5	0.101
Hexachloro-1,3-butadiene	0.15	0.24	0.13	0.19	0.19	0.19	0.14	0.17	0.18	0.037	119.0	0.115

Centek laboratories, LLC

GC/MS-Whole Air Calculations

Relative Response Factor (RRF)

$$RRF = \frac{Ax * Cis}{Ais * Cx}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Cx = concentration of the compound being measured (ppbv)
Cis = concentration of the internal standard (ppbv)

Percent Relative Standard Deviation (%RSD)

$$\% RSD = \frac{\text{Standard deviation of RRF values} * 100}{\text{mean RRF}}$$

Percent Difference (%D)

$$\% D = \frac{(RRFc - \text{mean RRFi}) * 100}{\text{mean RRFi}}$$

where: RRFc = relative response factor from the continuing calibration
mean RRFi = mean relative response factor from the initial calibration

Sample Calculations

$$ppbv = \frac{Ax * Is * Df}{Ais * RRF}$$

where: Ax = area of the characteristic ion for the compound being measured
Ais = area of the characteristic ion for the specific internal standard of the compound being measured
Is = Concentration of the internal standard injected (ppbv)
RRF= relative response factor for the compound being measured
Df = Dilution factor

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

SAMPLE DATA

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.2	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	1.0	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	4.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
4-ethyltoluene	0.65	0.15		ppbV	1	1/25/2011 7:18:00 PM
Acetone	13	12		ppbV	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Benzene	5.9	1.5		ppbV	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromodichloromethane	0.59	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Carbon disulfide	4.8	1.5		ppbV	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Chloroform	6.0	6.0		ppbV	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	2.4	1.5		ppbV	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	1.5	1.5		ppbV	10	1/27/2011 4:56:00 PM
Freon 11	0.52	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Freon 12	0.76	0.15		ppbV	1	1/25/2011 7:18:00 PM
Heptane	6.0	1.5		ppbV	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Hexane	15	1.5		ppbV	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
m&p-Xylene	3.9	3.0		ppbV	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Methylene chloride	1.1	0.15		ppbV	1	1/25/2011 7:18:00 PM
o-Xylene	1.7	1.5		ppbV	10	1/27/2011 4:56:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	20	1.5		ppbV	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Toluene	9.1	1.5		ppbV	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Trichloroethene	900	120		ppbV	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:18:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	12	8.3		ug/m3	10	1/27/2011 4:56:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
1,2,4-Trimethylbenzene	7.5	7.5		ug/m3	10	1/27/2011 4:56:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:18:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
1,3,5-Trimethylbenzene	5.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:18:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM
2,2,4-trimethylpentane	19	7.1		ug/m3	10	1/27/2011 4:56:00 PM
4-ethyltoluene	3.2	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Acetone	31	29		ug/m3	40	1/27/2011 5:29:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:18:00 PM
Benzene	19	4.9		ug/m3	10	1/27/2011 4:56:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:18:00 PM
Bromodichloromethane	4.0	1.0		ug/m3	1	1/25/2011 7:18:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:18:00 PM
Carbon disulfide	15	4.7		ug/m3	10	1/27/2011 4:56:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:18:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:18:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:18:00 PM
Chloroform	30	30		ug/m3	40	1/27/2011 5:29:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:18:00 PM
cis-1,2-Dichloroethene	9.7	6.0		ug/m3	10	1/27/2011 4:56:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:18:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:18:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:18:00 PM
Ethylbenzene	6.6	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Freon 11	3.0	0.86		ug/m3	1	1/25/2011 7:18:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0102AA
Lab Order:	C1101031	**Tag Number:**	420,
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-001A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Freon 12	3.8	0.75		ug/m3	1	1/25/2011 7:18:00 PM
Heptane	25	6.2		ug/m3	10	1/27/2011 4:56:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:18:00 PM
Hexane	52	5.4		ug/m3	10	1/27/2011 4:56:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:18:00 PM
m&p-Xylene	17	13		ug/m3	10	1/27/2011 4:56:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 7:18:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 7:18:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:18:00 PM
Methylene chloride	3.8	0.53		ug/m3	1	1/25/2011 7:18:00 PM
o-Xylene	7.5	6.6		ug/m3	10	1/27/2011 4:56:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:18:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:18:00 PM
Tetrachloroethylene	140	10		ug/m3	10	1/27/2011 4:56:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/25/2011 7:18:00 PM
Toluene	35	5.7		ug/m3	10	1/27/2011 4:56:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:18:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:18:00 PM
Trichloroethene	4900	660		ug/m3	810	1/28/2011 3:50:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:18:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:18:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012519.D Vial: 2
Acq On : 25 Jan 2011 7:18 pm Operator: RJP
Sample : C1101031-001A Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 19:39:16 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

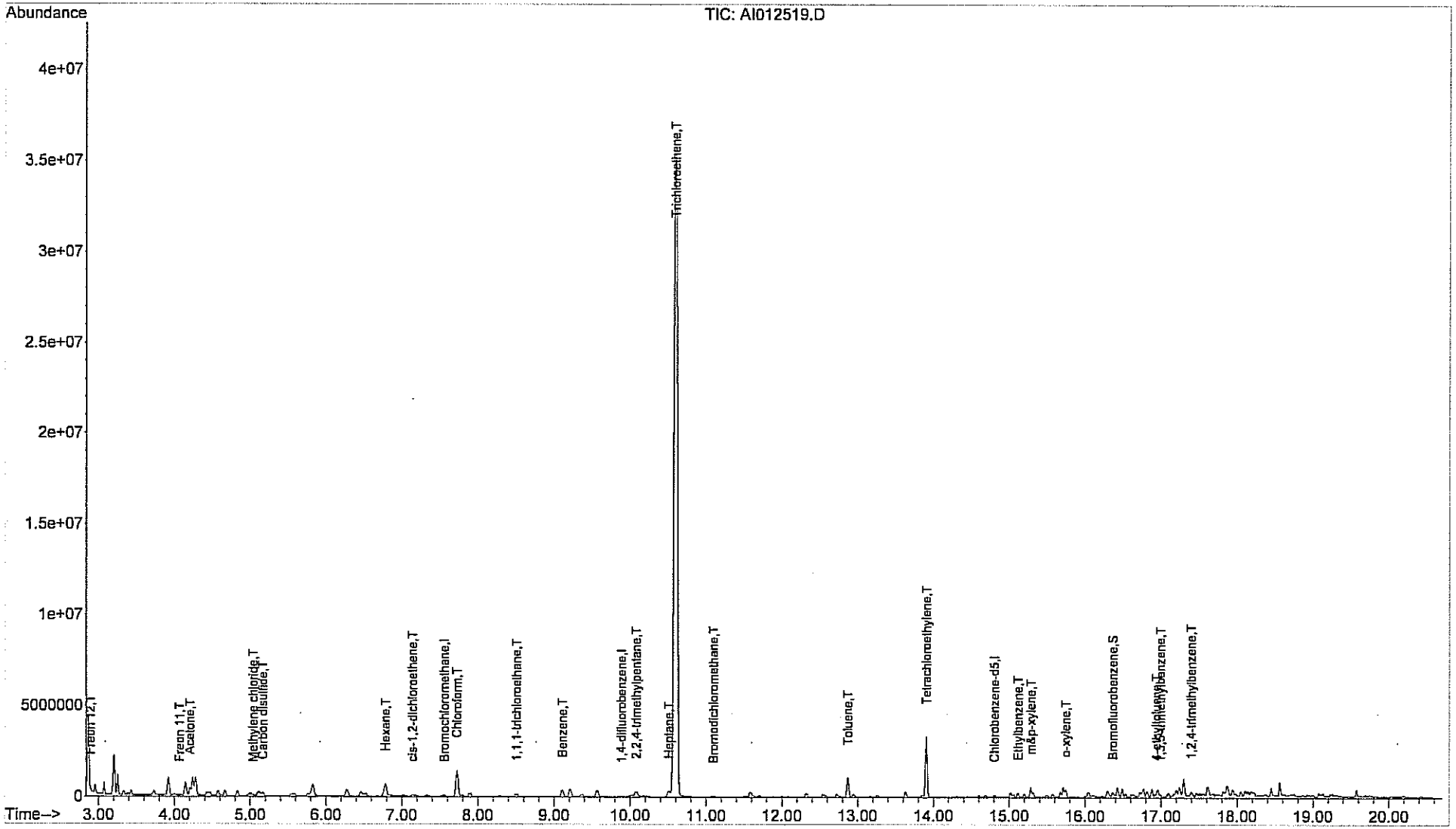
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	21713	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	74225	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	77776	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	48021m	1.22	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 122.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	48493	0.76	ppb		99
11) Freon 11	4.07	101	19290	0.52	ppb		97
12) Acetone	4.20	58	161813	27.63	ppb	#	70
16) Methylene chloride	5.05	84	19255	1.08	ppb		97
18) Carbon disulfide	5.16	76	283685	5.14	ppb		97
24) cis-1,2-dichloroethene	7.14	61	57608	2.73	ppb		93
25) Hexane	6.79	41	324427	21.76	ppb	#	49
27) Chloroform	7.73	83	1238946	27.14	ppb		100
31) 1,1,1-trichloroethane	8.50	97	106306	2.25	ppb		99
34) Benzene	9.11	78	410019	7.98	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	325309	5.88	ppb	#	51
37) Heptane	10.51	43	166341	9.04	ppb		93
38) Trichloroethene	10.60	130	19375728	594.60	ppb		95
40) Bromodichloromethane	11.10	83	34291	0.59	ppb		98
45) Toluene	12.87	92	460011	14.18	ppb		99
50) Tetrachloroethylene	13.91	164	730489	19.58	ppb		99
52) Ethylbenzene	15.12	91	156752	2.52	ppb		98
53) m&p-xylene	15.29	91	397569	7.81	ppb		97
56) o-xylene	15.74	91	182747	3.01	ppb		95
59) 4-ethyltoluene	16.93	105	36511m	0.65	ppb		
60) 1,3,5-trimethylbenzene	16.99	105	52080	1.05	ppb		97
61) 1,2,4-trimethylbenzene	17.40	105	104534	2.67	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

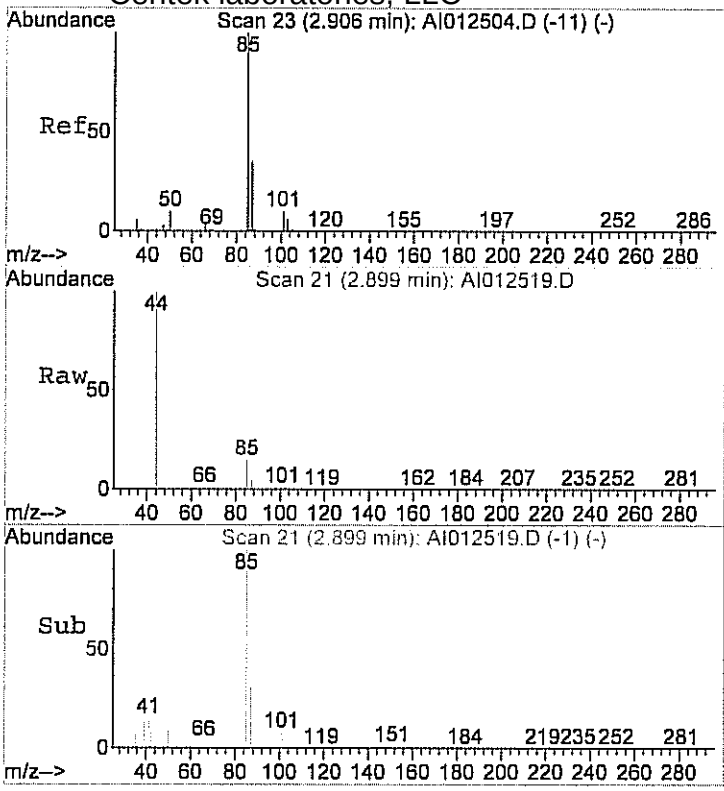
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012519.D Vial: 2
Acq On : 25 Jan 2011 7:18 pm Operator: RJP
Sample : C1101031-001A Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:13 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



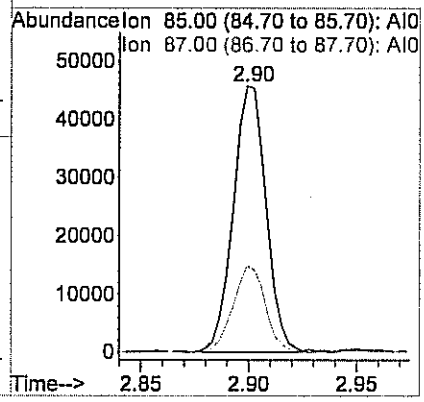
Centek laboratories, LLC

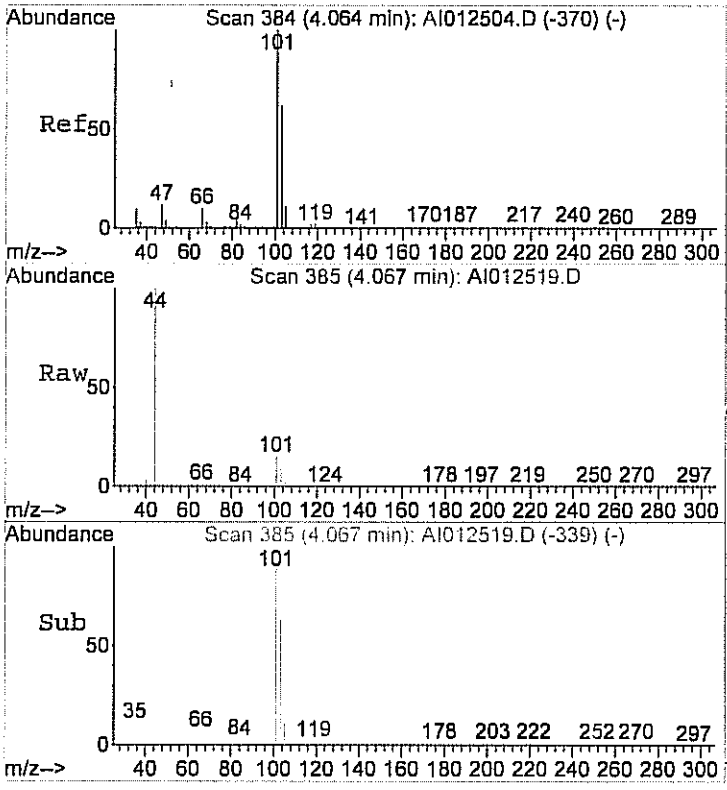


#3
Freon 12
Concen: 0.76 ppb
RT: 2.90 min Scan# 21
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 85 Resp: 48493

Ion	Ratio	Lower	Upper
85	100		
87	31.8	12.2	52.2

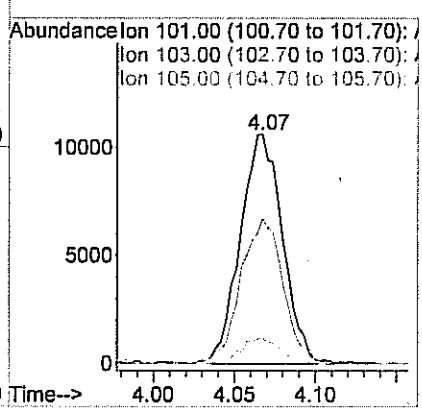


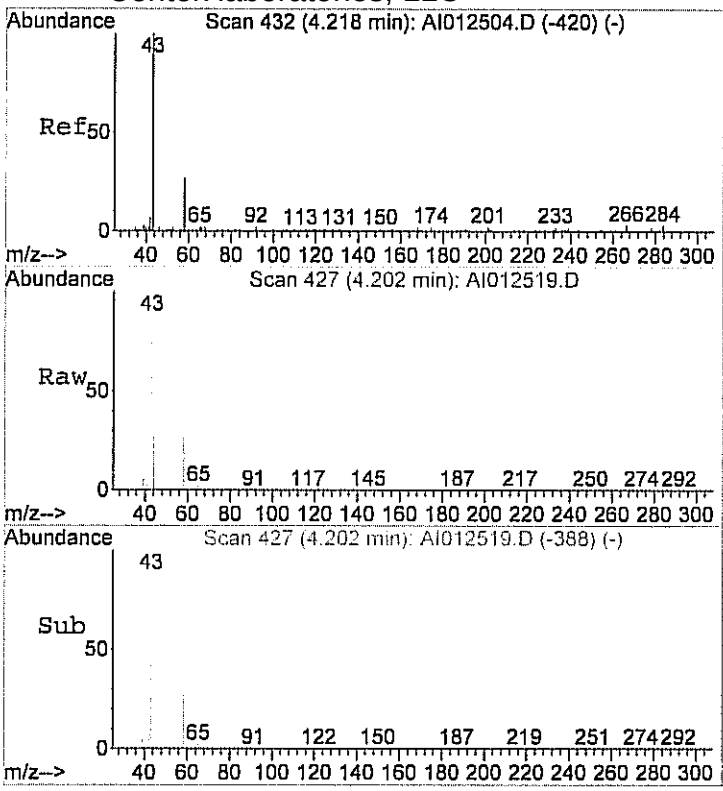


#11
Freon 11
Concen: 0.52 ppb
RT: 4.07 min Scan# 385
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:101 Resp: 19290

Ion	Ratio	Lower	Upper
101	100		
103	63.6	46.3	86.3
105	10.6	0.0	31.0

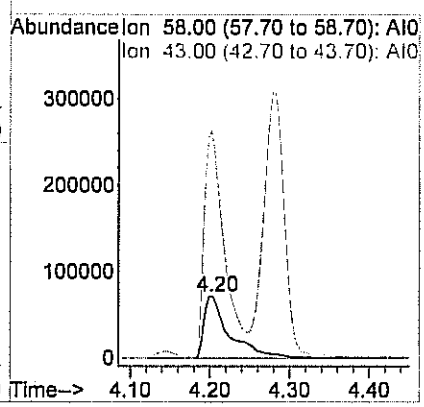


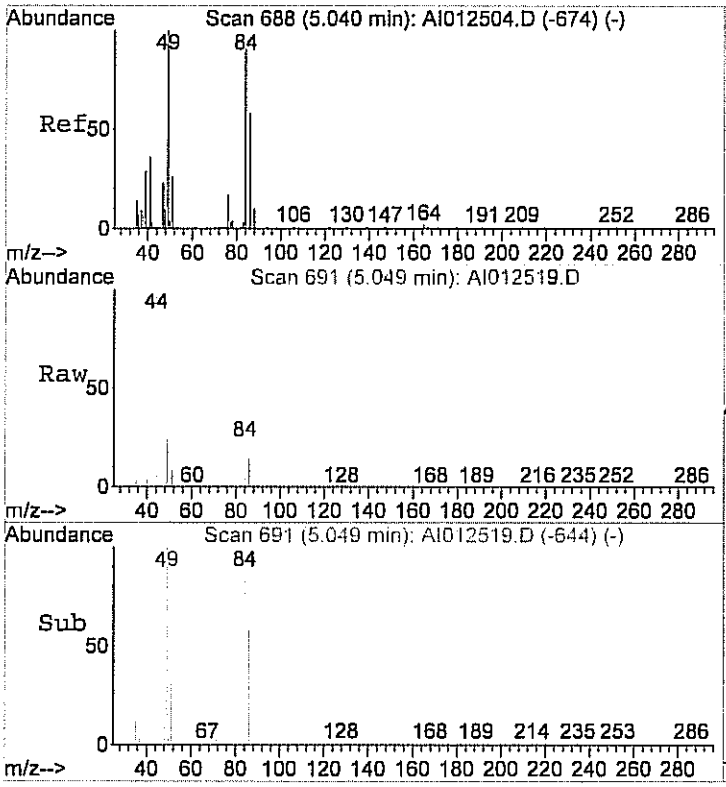


#12
Acetone
Concen: 27.63 ppb
RT: 4.20 min Scan# 427
Delta R.T. -0.03 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 58 Resp: 161813

Ion	Ratio	Lower	Upper
58	100		
43	292.6	329.0	389.0#

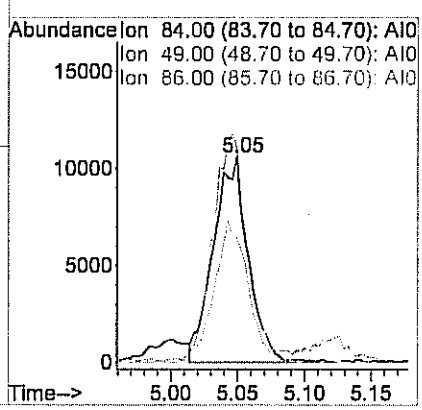


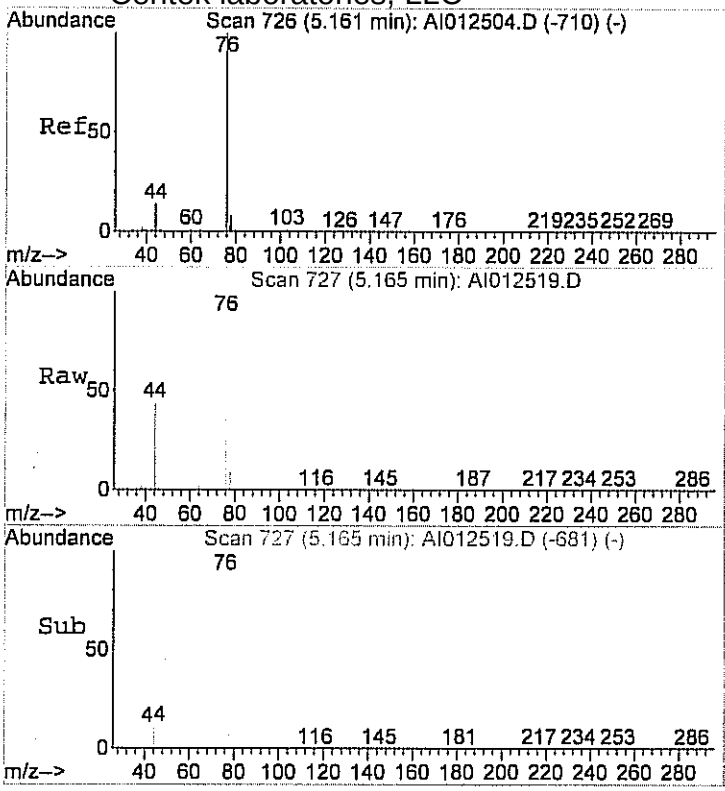


#16
Methylene chloride
Concen: 1.08 ppb
RT: 5.05 min Scan# 691
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 84 Resp: 19255

Ion	Ratio	Lower	Upper
84	100		
49	126.6	109.7	149.7
86	65.7	47.8	87.8

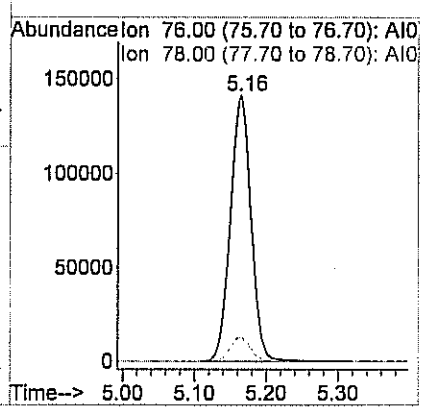


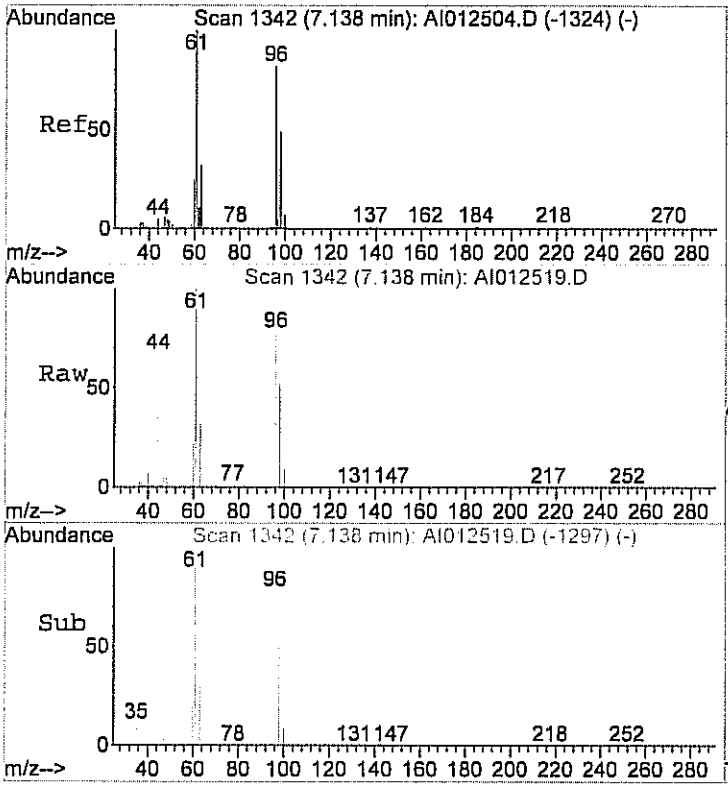


#18
Carbon disulfide
Concen: 5.14 ppb
RT: 5.16 min Scan# 727
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 76 Resp: 283685

Ion	Ratio	Lower	Upper
76	100		
78	9.1	0.0	30.1

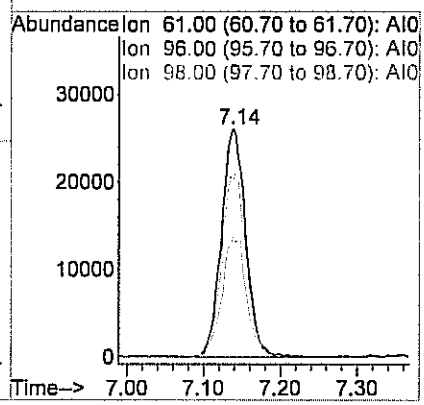


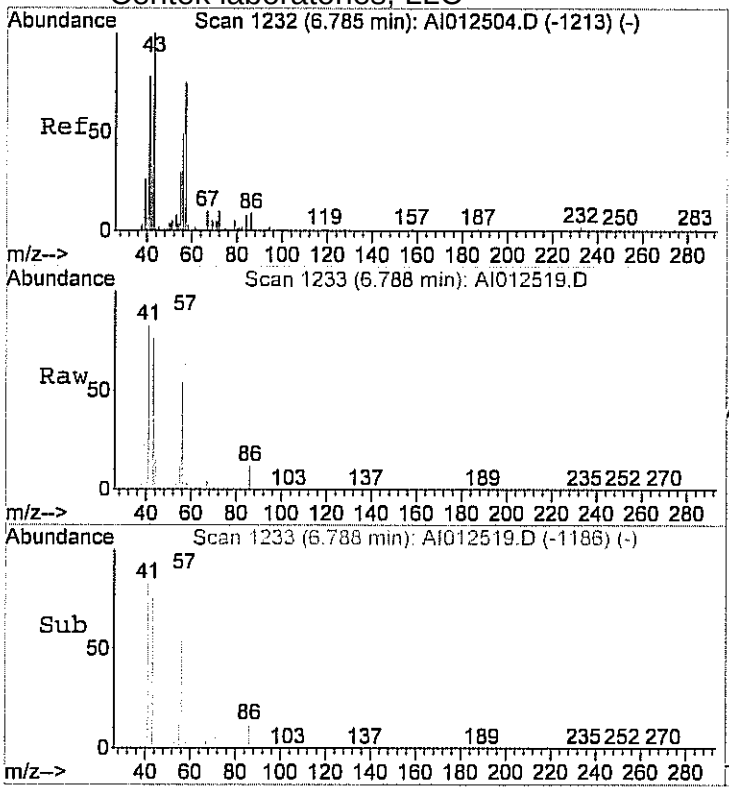


#24
cis-1,2-dichloroethene
Concen: 2.73 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 61 Resp: 57608

Ion	Ratio	Lower	Upper
61	100		
96	81.5	68.1	108.1
98	52.6	37.3	77.3

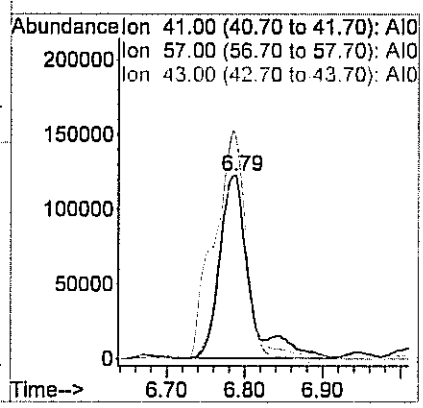


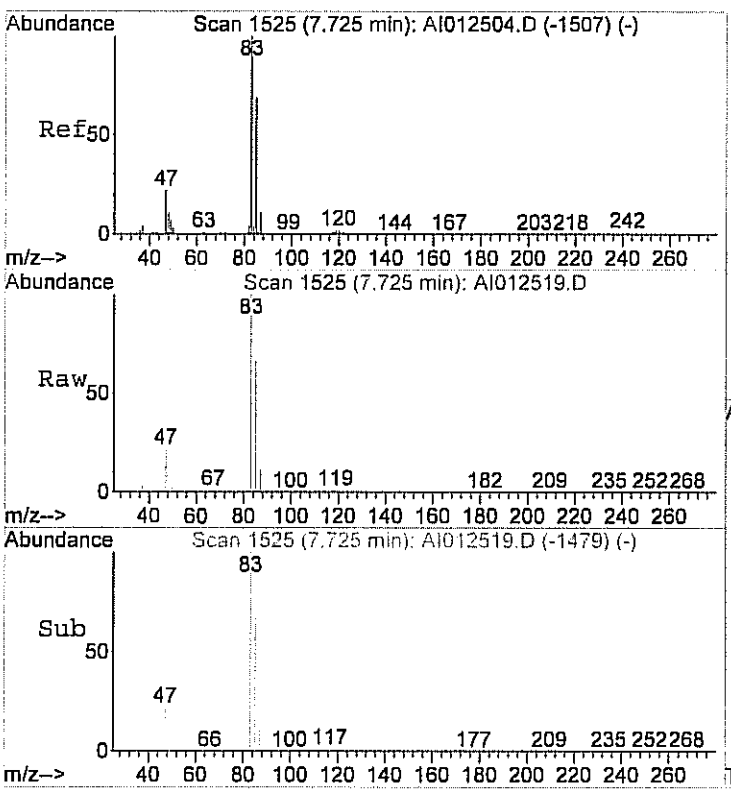


#25
Hexane
Concen: 21.76 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 41 Resp: 324427

Ion	Ratio	Lower	Upper
41	100		
57	107.9	114.8	154.8#
43	121.8	213.3	253.3#

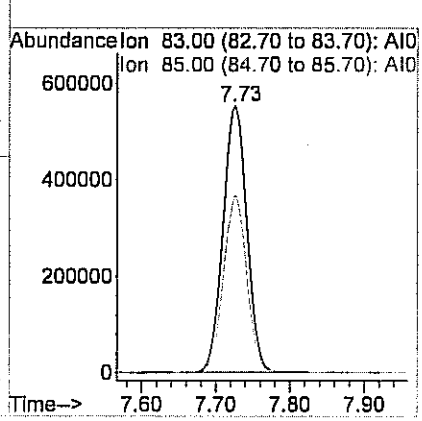


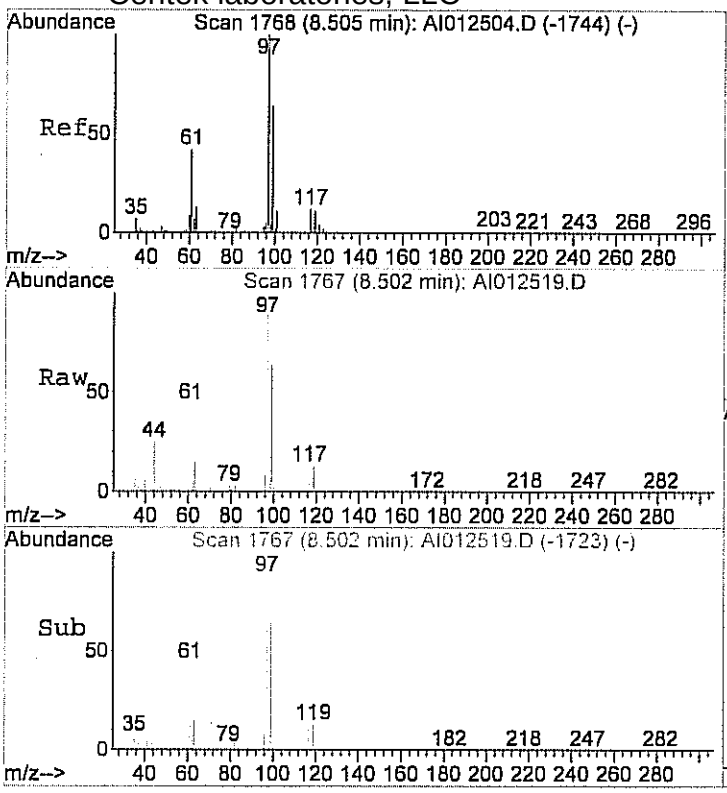


#27
Chloroform
Concen: 27.14 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 83 Resp: 1238946

Ion	Ratio	Lower	Upper
83	100		
85	66.3	46.5	86.5

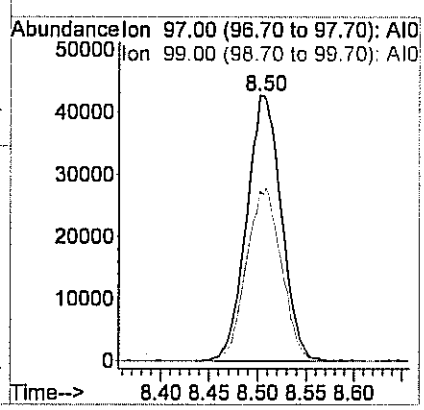


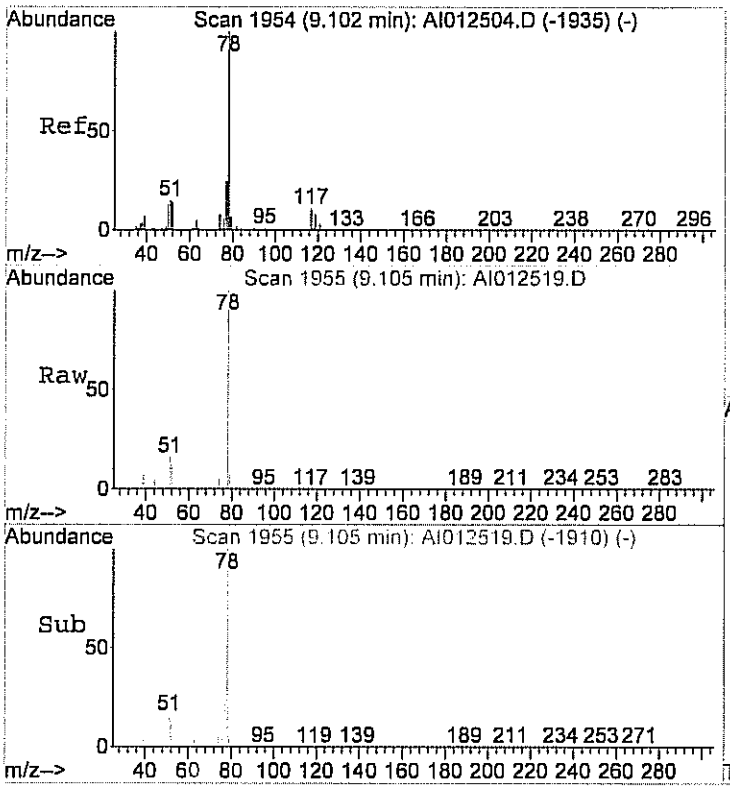


#31
1,1,1-trichloroethane
Concen: 2.25 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 97 Resp: 106306

Ion	Ratio	Lower	Upper
97	100		
99	65.8	45.4	85.4

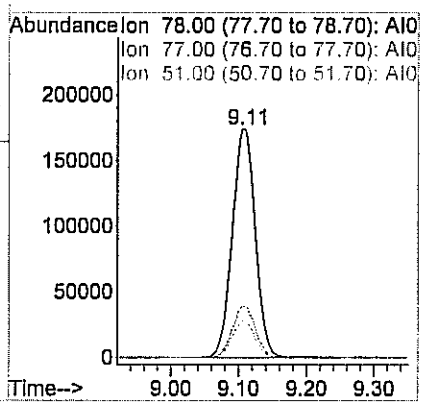


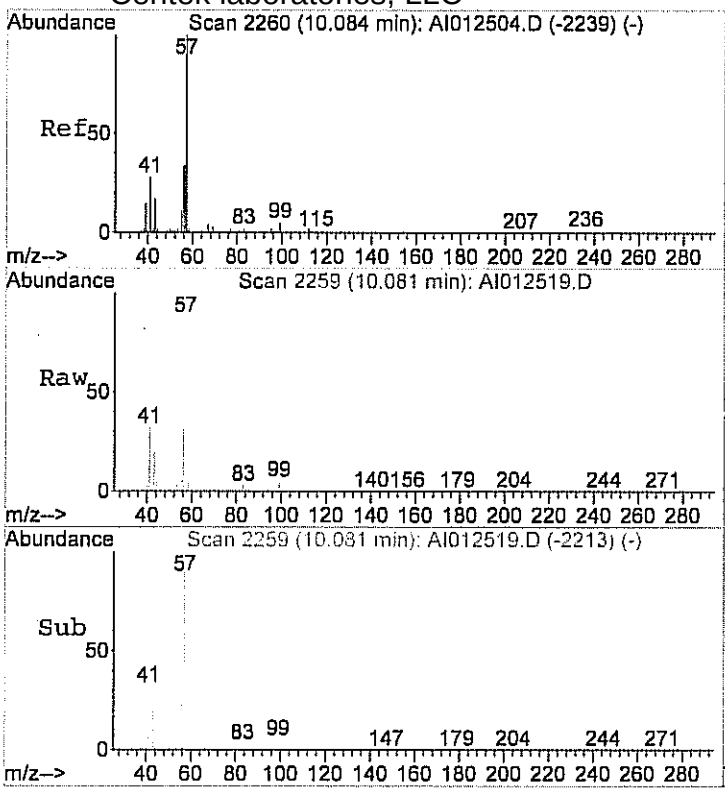


#34
Benzene
Concen: 7.98 ppb
RT: 9.11 min Scan# 1955
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 78 Resp: 410019

Ion	Ratio	Lower	Upper
78	100		
77	23.5	2.6	42.6
51	15.7	0.0	34.0

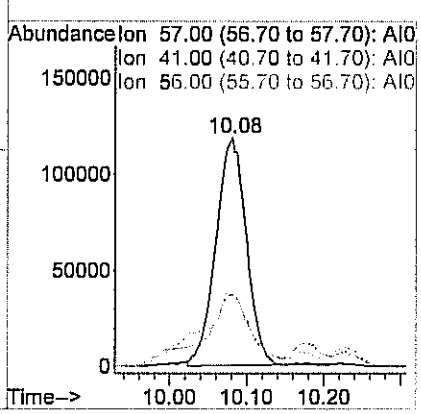


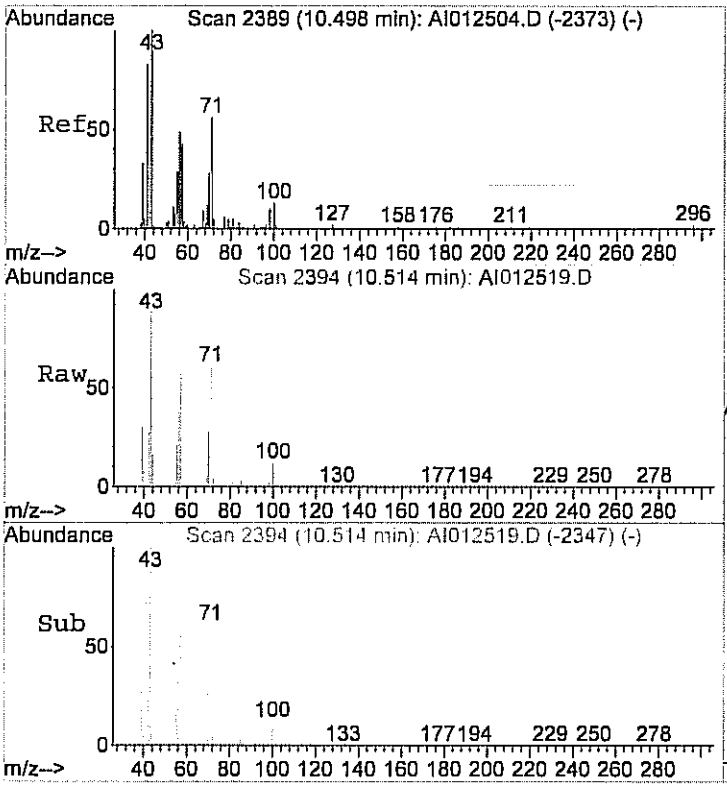


#36
2,2,4-trimethylpentane
Concen: 5.88 ppb
RT: 10.08 min Scan# 2259
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 57 Resp: 325309

Ion	Ratio	Lower	Upper
57	100		
41	59.6	12.1	52.1#
56	61.9	13.7	53.7#

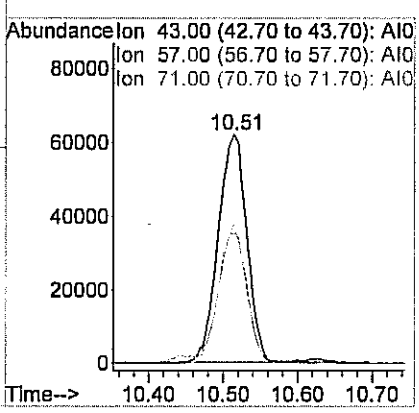


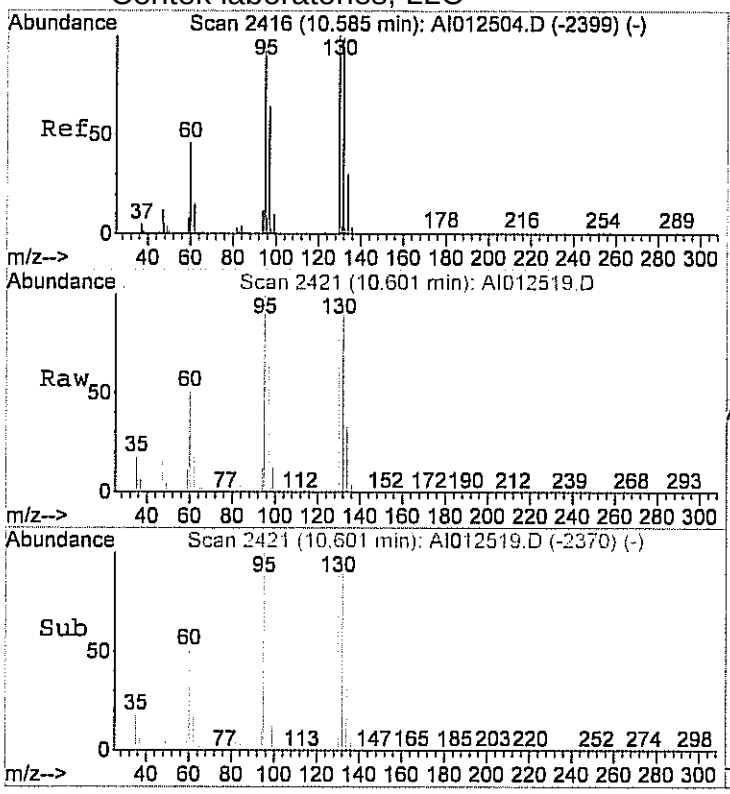


#37
Heptane
Concen: 9.04 ppb
RT: 10.51 min Scan# 2394
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 43 Resp: 166341

Ion	Ratio	Lower	Upper
43	100		
57	61.0	37.9	77.9
71	59.3	46.6	86.6

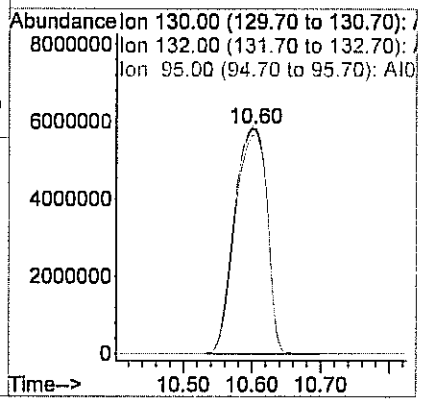


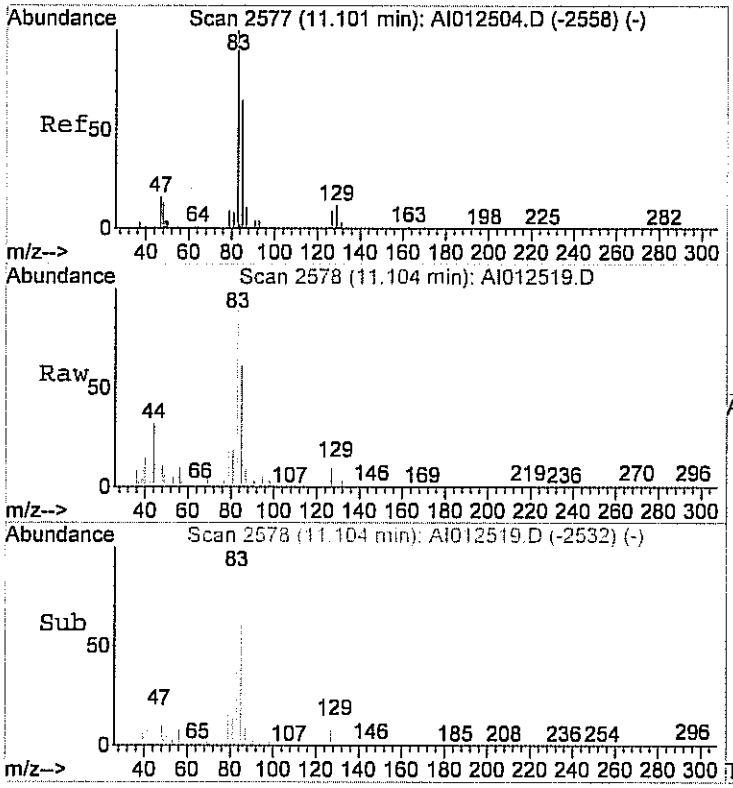


#38
Trichloroethene
Concen: 594.60 ppb
RT: 10.60 min Scan# 2421
Delta R.T. 0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:130 Resp:19375728

Ion	Ratio	Lower	Upper
130	100		
132	96.6	77.0	117.0
95	100.4	70.8	110.8

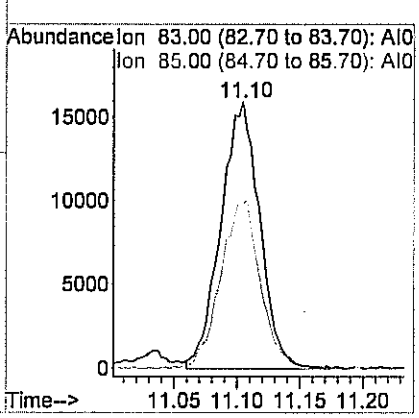


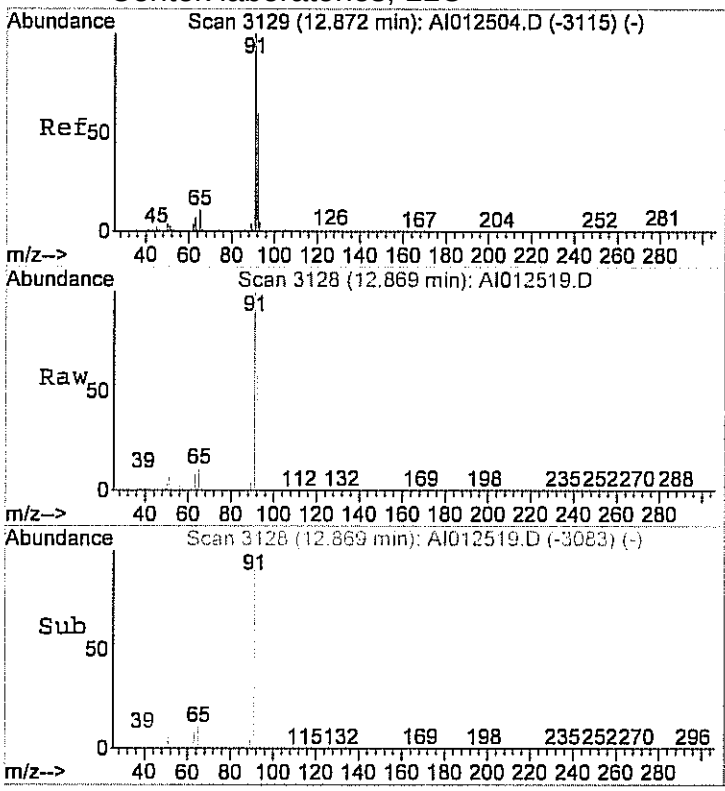


#40
Bromodichloromethane
Concen: 0.59 ppb
RT: 11.10 min Scan# 2578
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 83 Resp: 34291

Ion	Ratio	Lower	Upper
83	100		
85	64.1	45.7	85.7

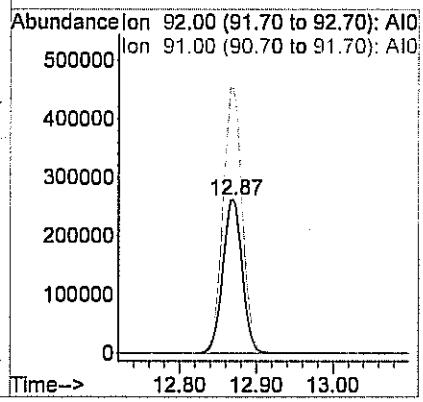


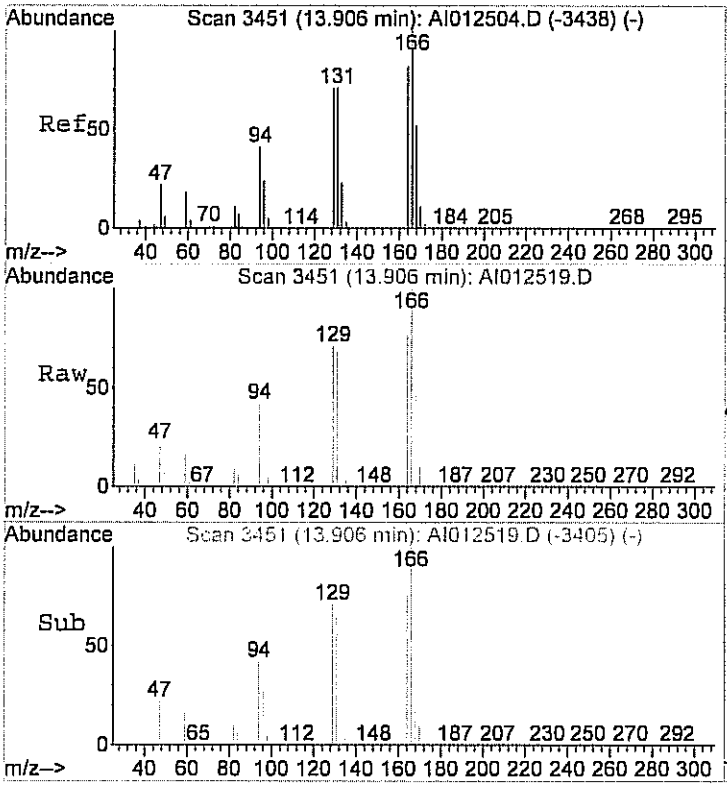


#45
Toluene
Concen: 14.18 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 92 Resp: 460011

Ion	Ratio	Lower	Upper
92	100		
91	172.0	150.0	190.0

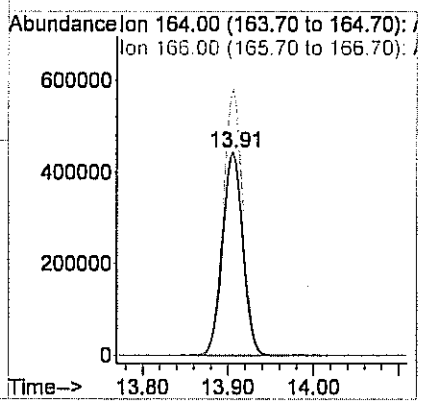


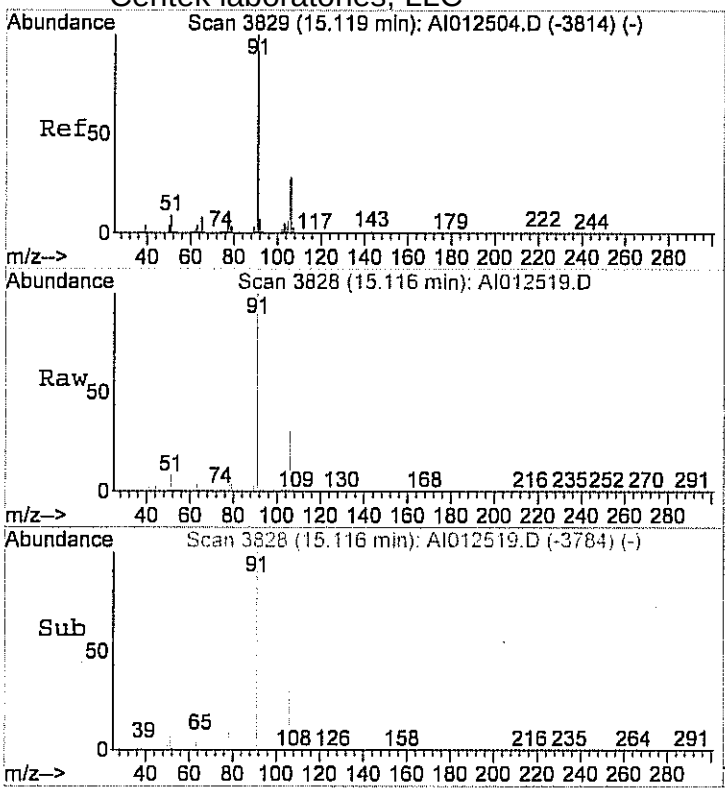


#50
Tetrachloroethylene
Concen: 19.58 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:164 Resp: 730489

Ion	Ratio	Lower	Upper
164	100		
166	128.4	109.0	149.0

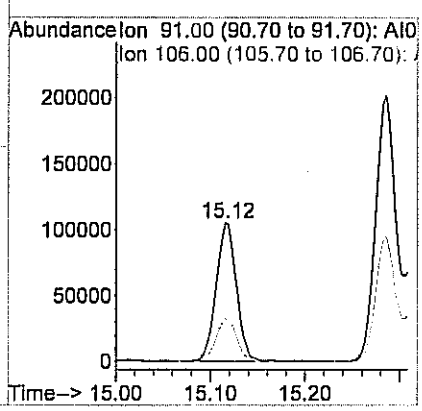


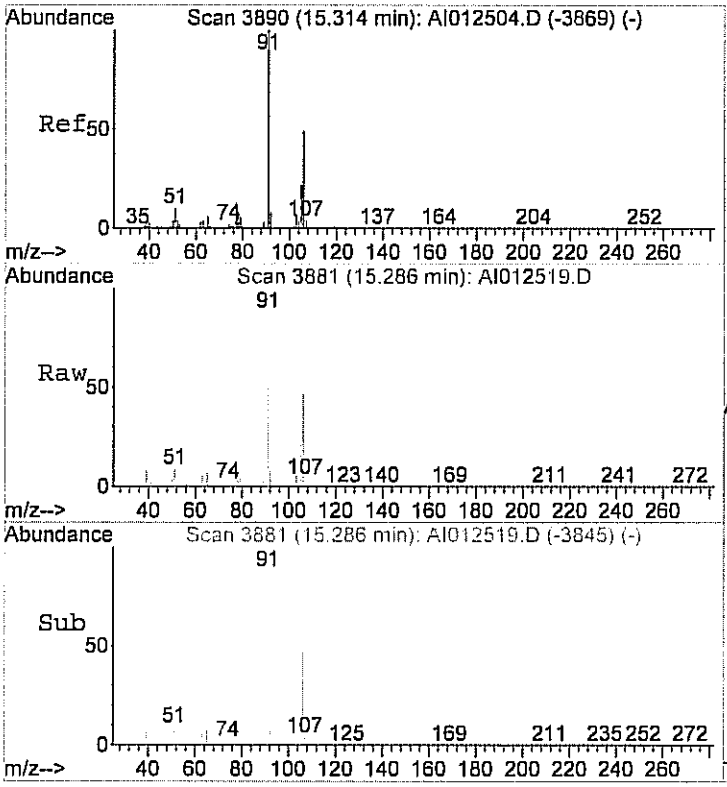


#52
Ethylbenzene
Concen: 2.52 ppb
RT: 15.12 min Scan# 3828
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 156752

Ion	Ratio	Lower	Upper
91	100		
106	31.7	12.9	52.9

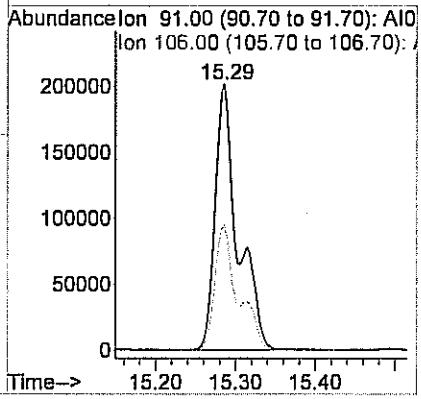


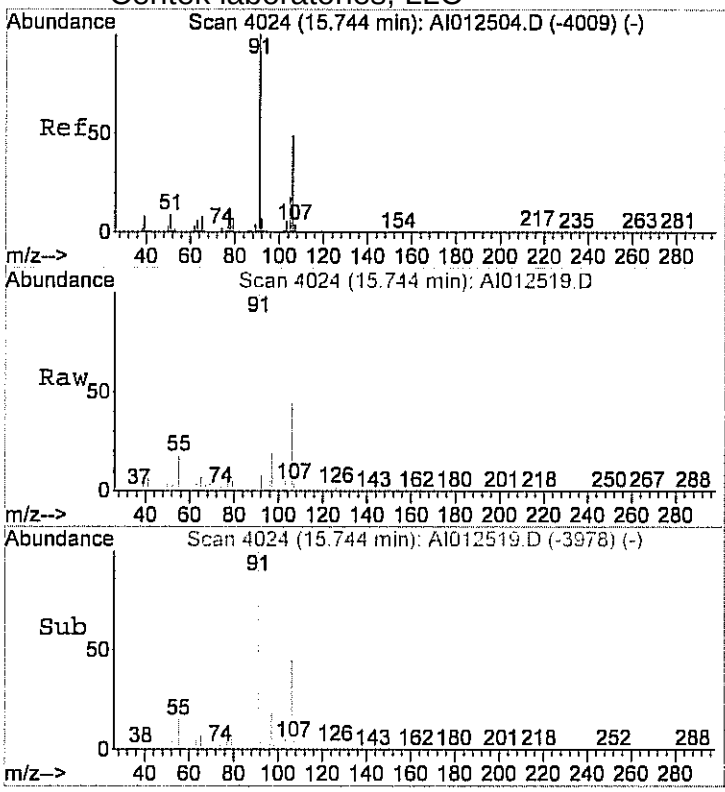


#53
m&p-xylene
Concen: 7.81 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 397569

Ion	Ratio	Lower	Upper
91	100		
106	47.9	29.9	69.9

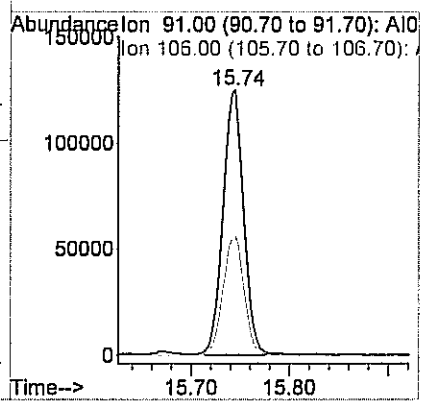


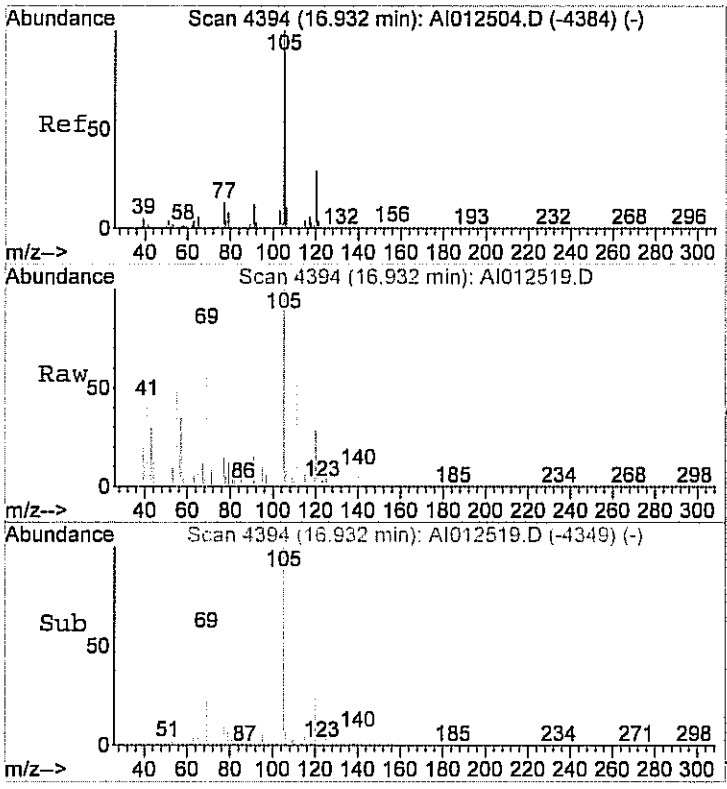


#56
o-xylene
Concen: 3.01 ppb
RT: 15.74 min Scan# 4024
Delta R.T. -0.00 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion: 91 Resp: 182747

Ion	Ratio	Lower	Upper
91	100		
106	45.9	29.0	69.0

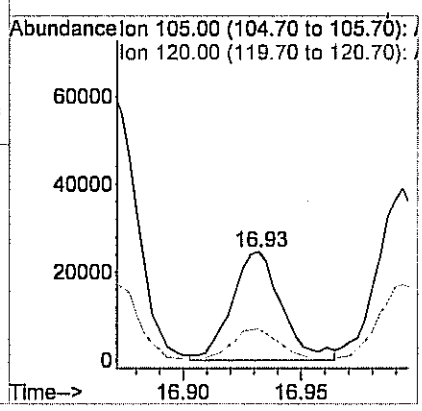


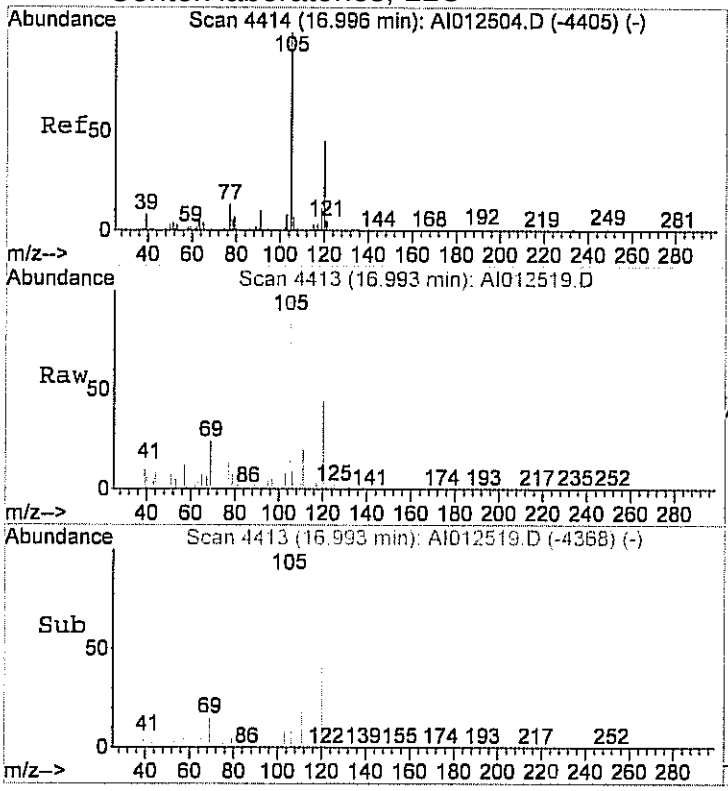


#59
4-ethyltoluene
Concen: 0.65 ppb m
RT: 16.93 min Scan# 4394
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 36511

Ion	Ratio	Lower	Upper
105	100		
120	27.8	10.3	50.3

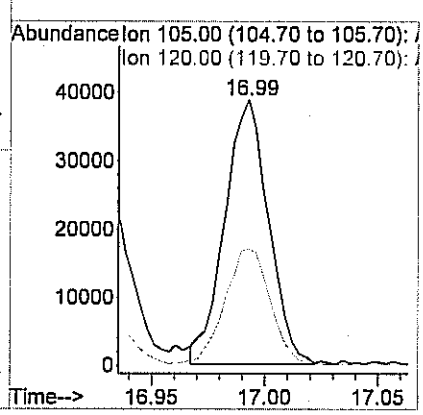


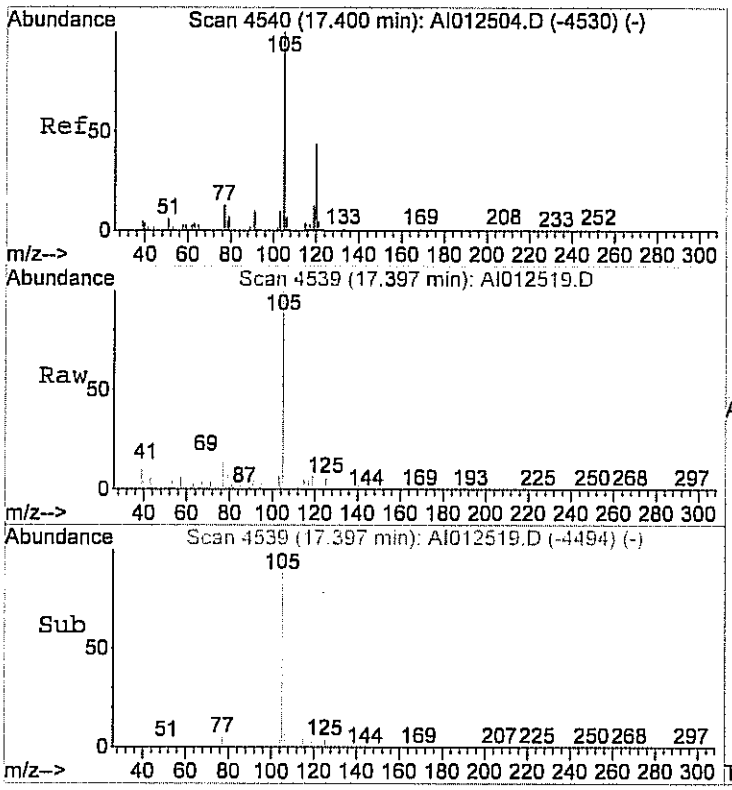


#60
1,3,5-trimethylbenzene
Concen: 1.05 ppb
RT: 16.99 min Scan# 4413
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 52080

Ion	Ratio	Lower	Upper
105	100		
120	46.7	28.6	68.6

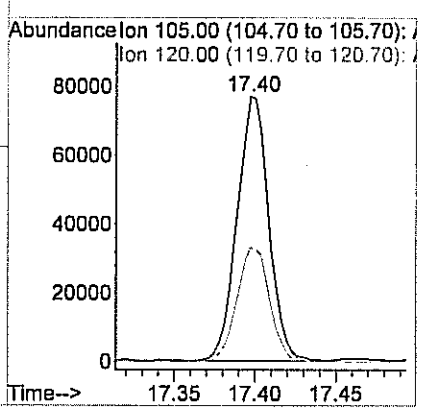




#61
1,2,4-trimethylbenzene
Concen: 2.67 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012519.D
Acq: 25 Jan 2011 7:18 pm

Tgt Ion:105 Resp: 104534

Ion	Ratio	Lower	Upper
105	100		
120	44.5	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012713.D Vial: 2
Acq On : 27 Jan 2011 4:56 pm Operator: RJP
Sample : C1101031-001A 10X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 17:17:42 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

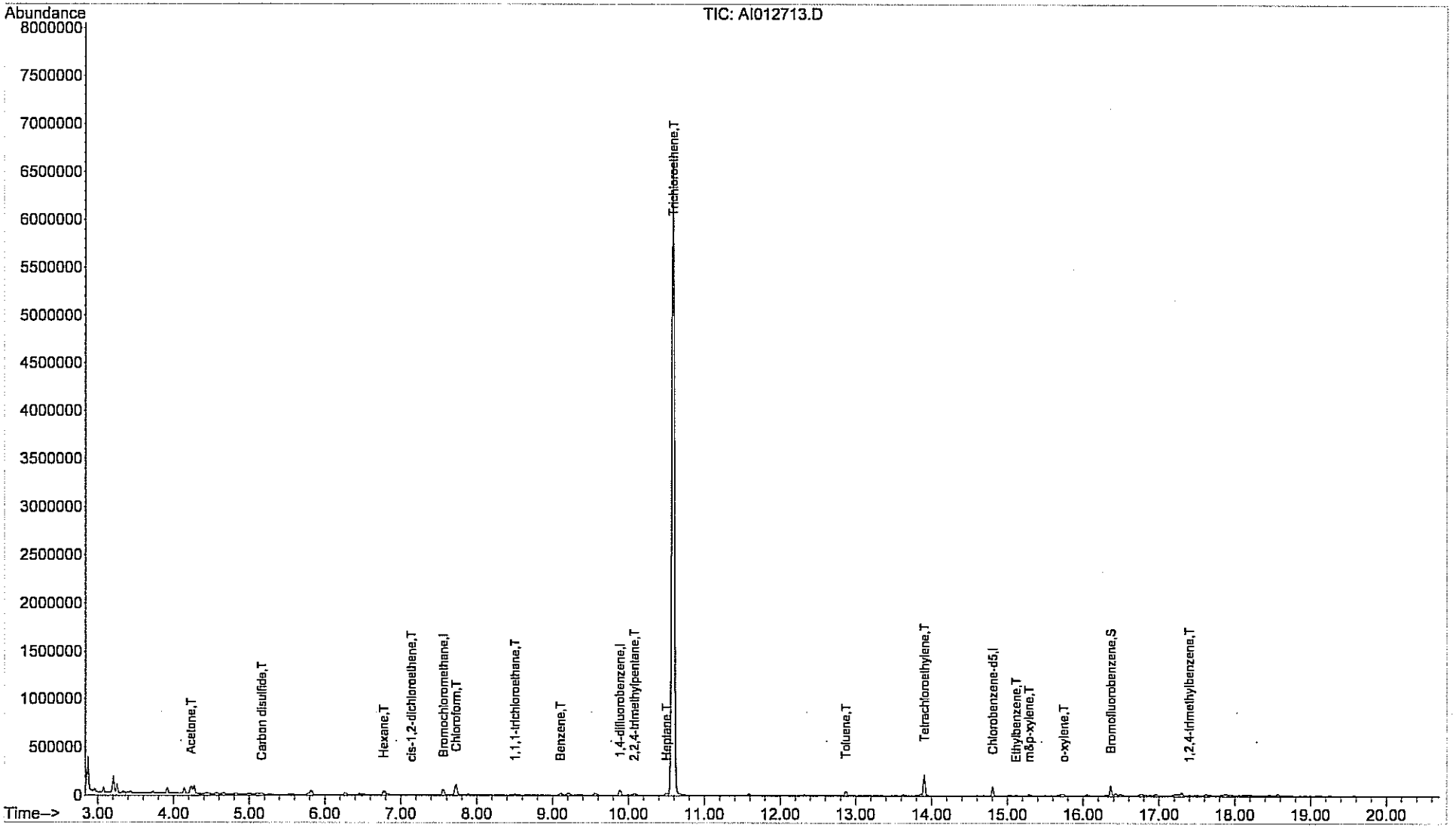
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	18349	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.89	114	54249	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	50726	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	29509	1.15	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 115.00%				
Target Compounds							Qvalue
12) Acetone	4.22	58	12285m	2.48	ppb		
18) Carbon disulfide	5.17	76	22455	0.48	ppb		98
24) cis-1,2-dichloroethene	7.14	61	4260	0.24	ppb		87
25) Hexane	6.78	41	18415	1.46	ppb	#	43
27) Chloroform	7.73	83	95451	2.47	ppb		100
31) 1,1,1-trichloroethane	8.50	97	7778	0.22	ppb		93
34) Benzene	9.10	78	22206	0.59	ppb		97
36) 2,2,4-trimethylpentane	10.07	57	16418	0.41	ppb	#	76
37) Heptane	10.50	43	8010	0.60	ppb		95
38) Trichloroethene	10.58	130	2800653	117.59	ppb		96
45) Toluene	12.87	92	19305	0.91	ppb		97
50) Tetrachloroethylene	13.91	164	49979	2.05	ppb		98
52) Ethylbenzene	15.11	91	6093	0.15	ppb		99
53) m&p-xylene	15.29	91	13003	0.39	ppb		99
56) o-xylene	15.75	91	6797	0.17	ppb		96
61) 1,2,4-trimethylbenzene	17.40	105	3884m	0.15	ppb		

(#) = qualifier out of range (m) = manual integration (+) = signals summed

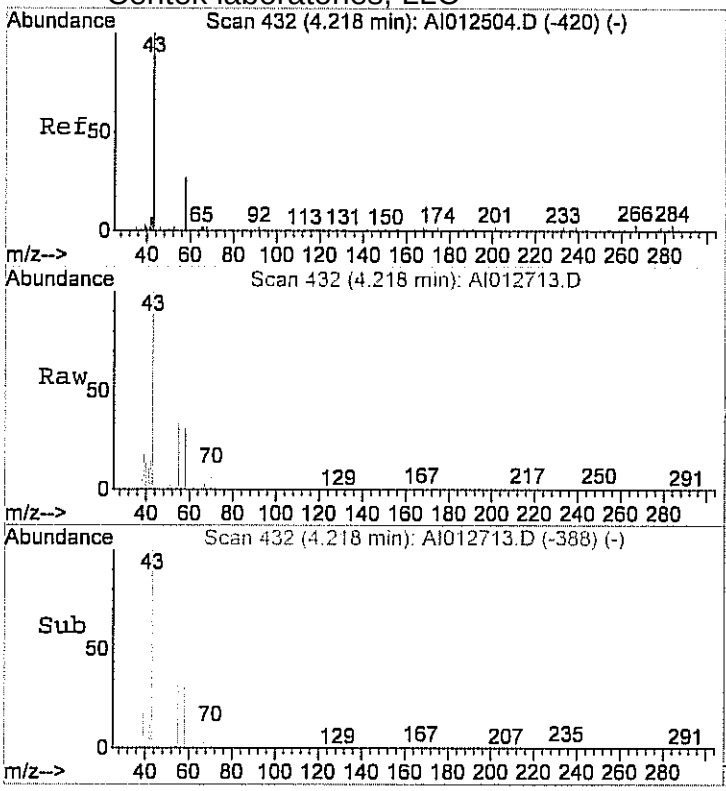
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012713.D Vial: 2
Acq On : 27 Jan 2011 4:56 pm Operator: RJP
Sample : C1101031-001A 10X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:03 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



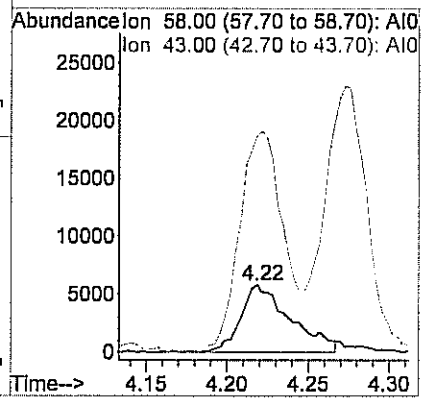
Centek laboratories, LLC

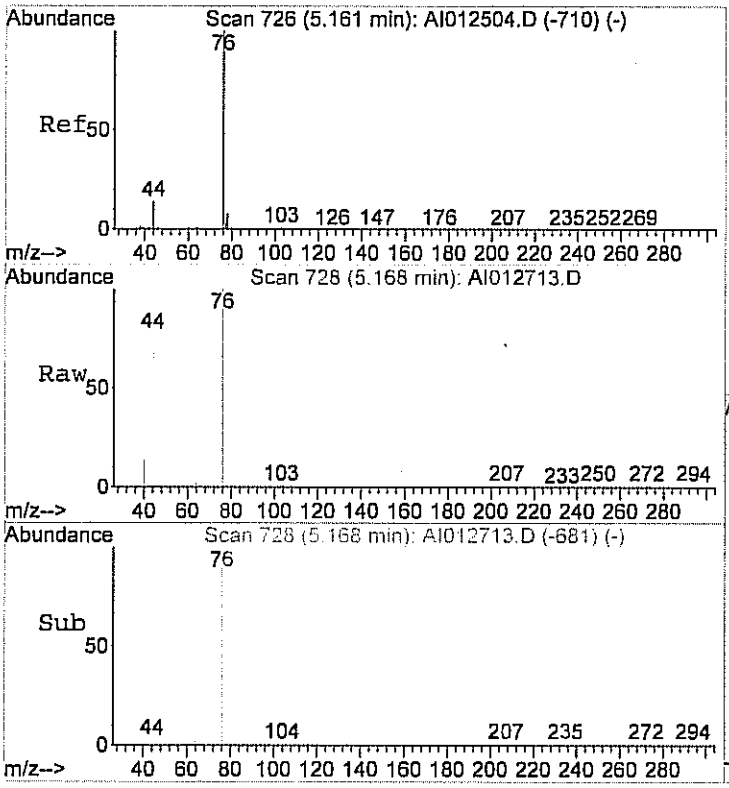


#12
Acetone
Concen: 2.48 ppb m
RT: 4.22 min Scan# 432
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 58 Resp: 12285

Ion	Ratio	Lower	Upper
58	100		
43	0.0	329.0	389.0#

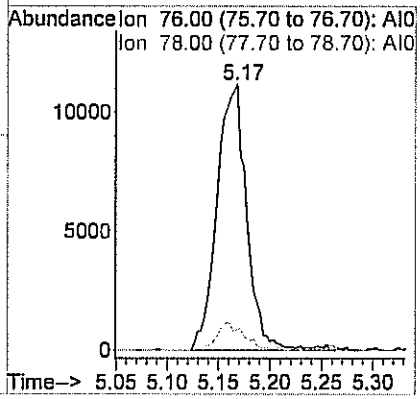


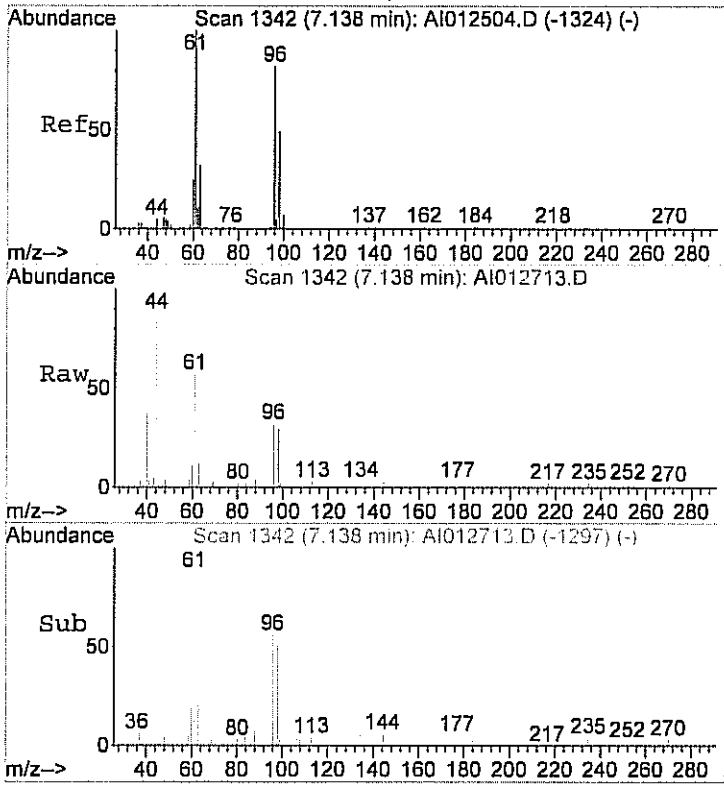


#18
Carbon disulfide
Concen: 0.48 ppb
RT: 5.17 min Scan# 728
Delta R.T. 0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 76 Resp: 22455

Ion	Ratio	Lower	Upper
76	100		
78	9.5	0.0	30.1

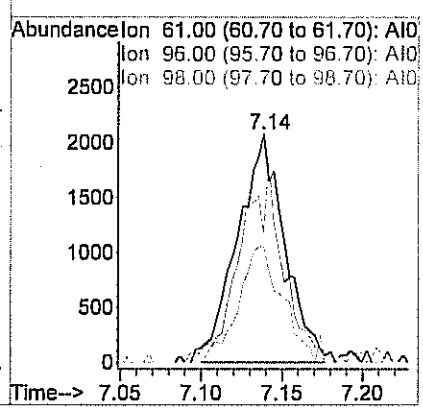


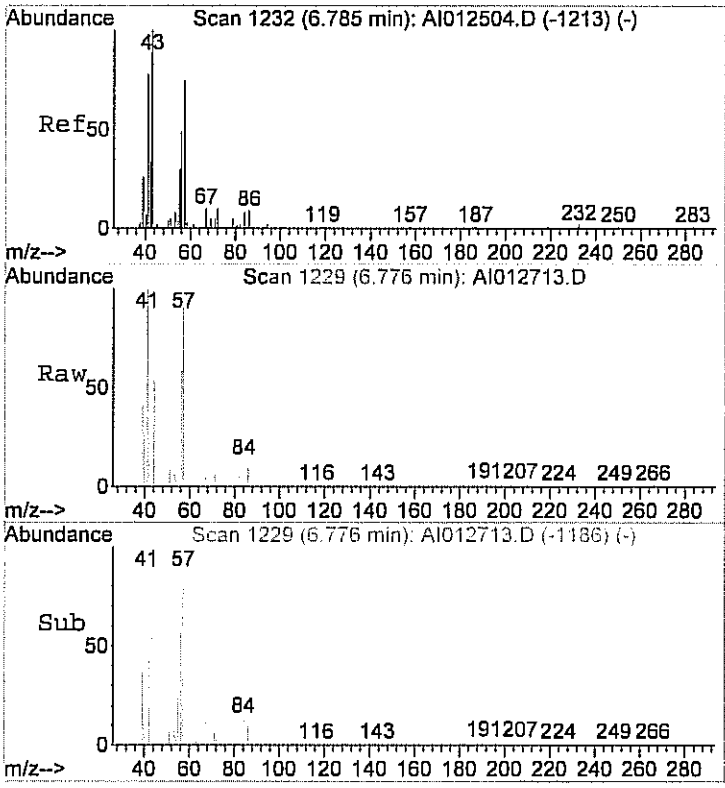


#24
cis-1,2-dichloroethene
Concen: 0.24 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 61 Resp: 4260

Ion	Ratio	Lower	Upper
61	100		
96	77.4	68.1	108.1
98	46.5	37.3	77.3

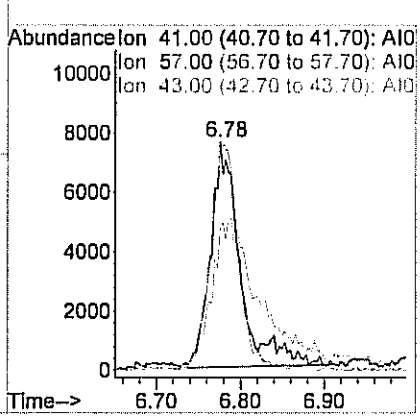


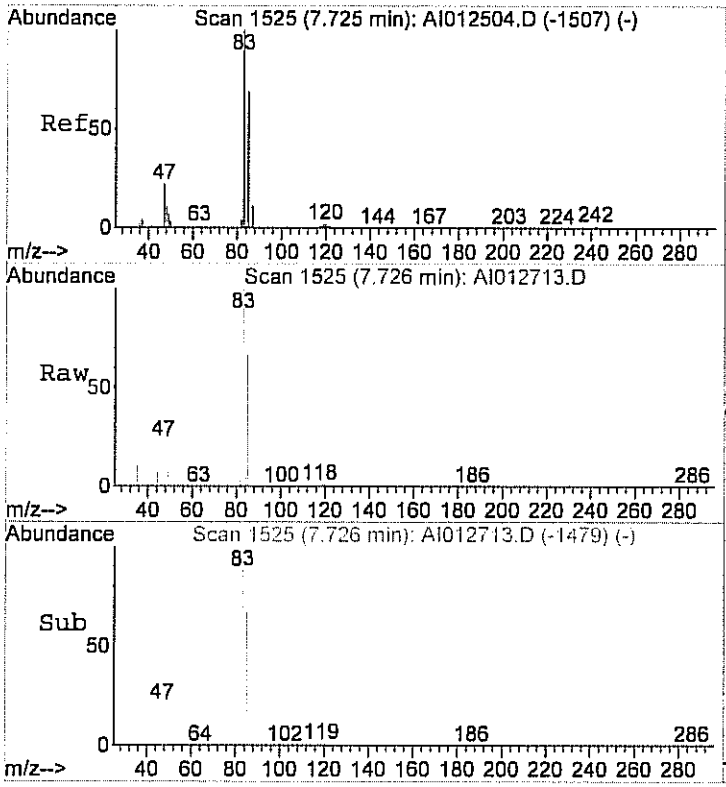


#25
Hexane
Concen: 1.46 ppb
RT: 6.78 min Scan# 1229
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 41 Resp: 18415

Ion	Ratio	Lower	Upper
41	100		
57	97.1	114.8	154.8#
43	113.2	213.3	253.3#

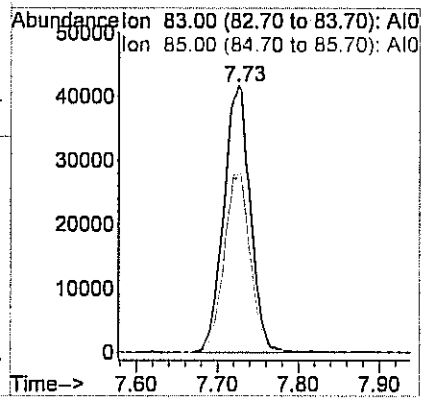


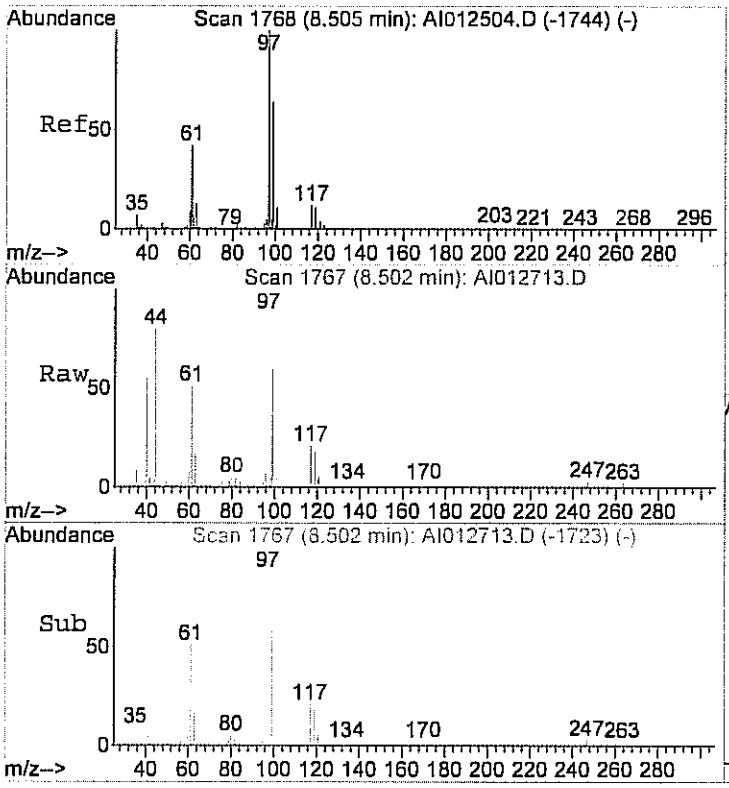


#27
Chloroform
Concen: 2.47 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 83 Resp: 95451

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5

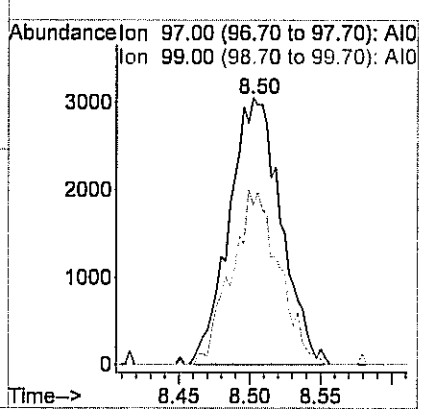


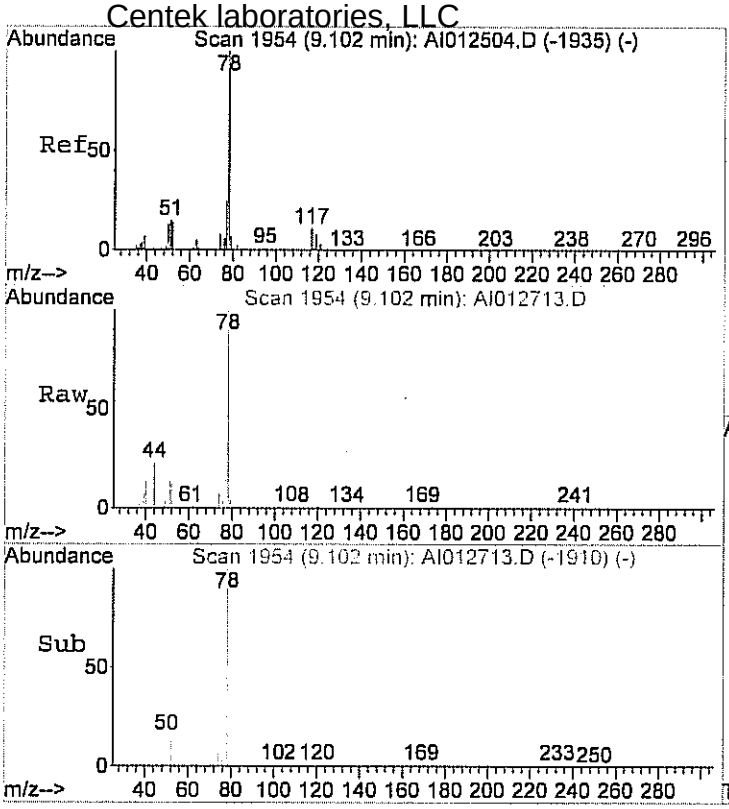


#31
1,1,1-trichloroethane
Concen: 0.22 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 97 Resp: 7778

Ion	Ratio	Lower	Upper
97	100		
99	60.2	45.4	85.4

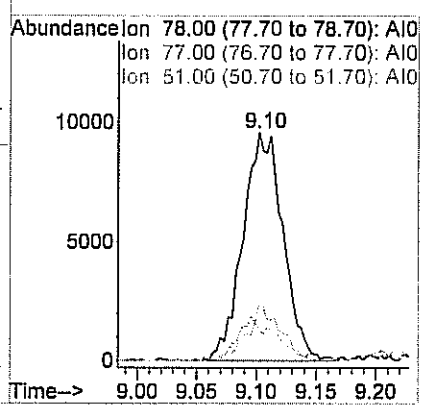


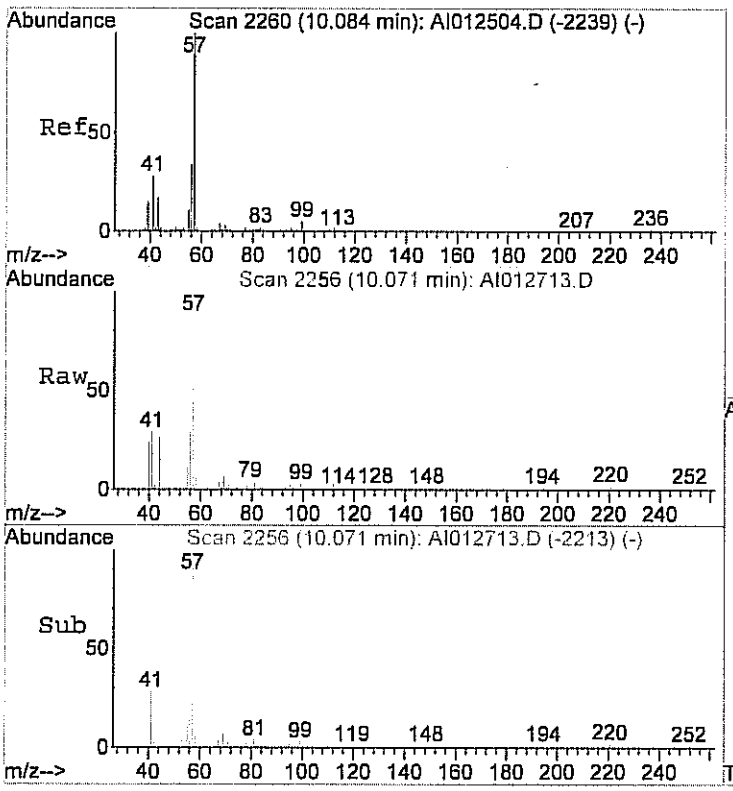


#34
Benzene
Concen: 0.59 ppb
RT: 9.10 min Scan# 1954
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 78 Resp: 22206

Ion	Ratio	Lower	Upper
78	100		
77	23.3	2.6	42.6
51	15.9	0.0	34.0

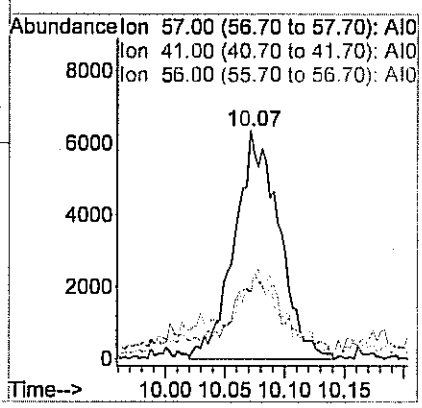


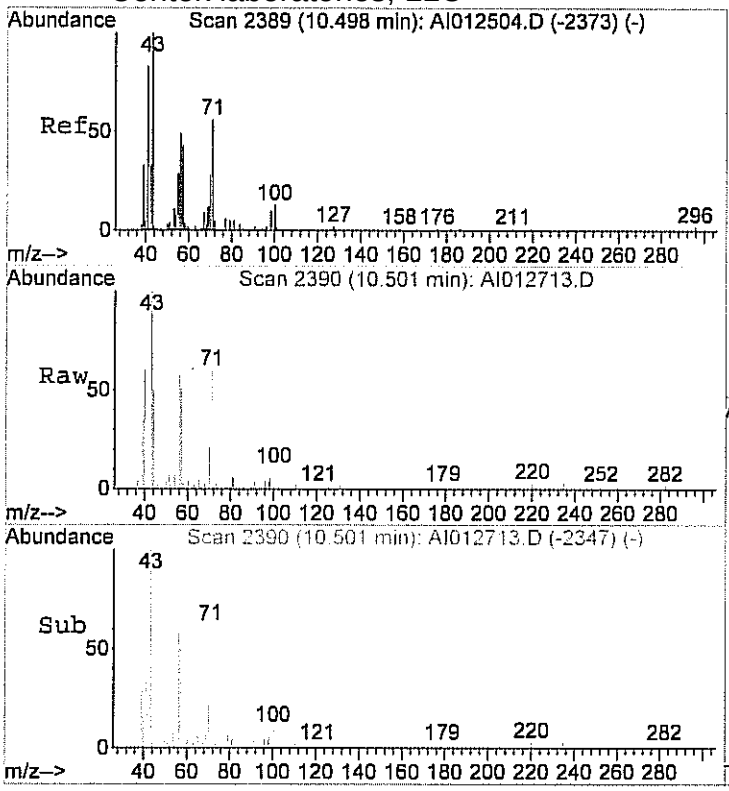


#36
2,2,4-trimethylpentane
Concen: 0.41 ppb
RT: 10.07 min Scan# 2256
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 57 Resp: 16418

Ion	Ratio	Lower	Upper
57	100		
41	58.9	12.1	52.1#
56	33.1	13.7	53.7

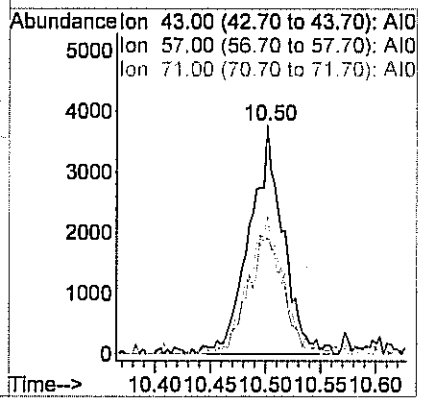


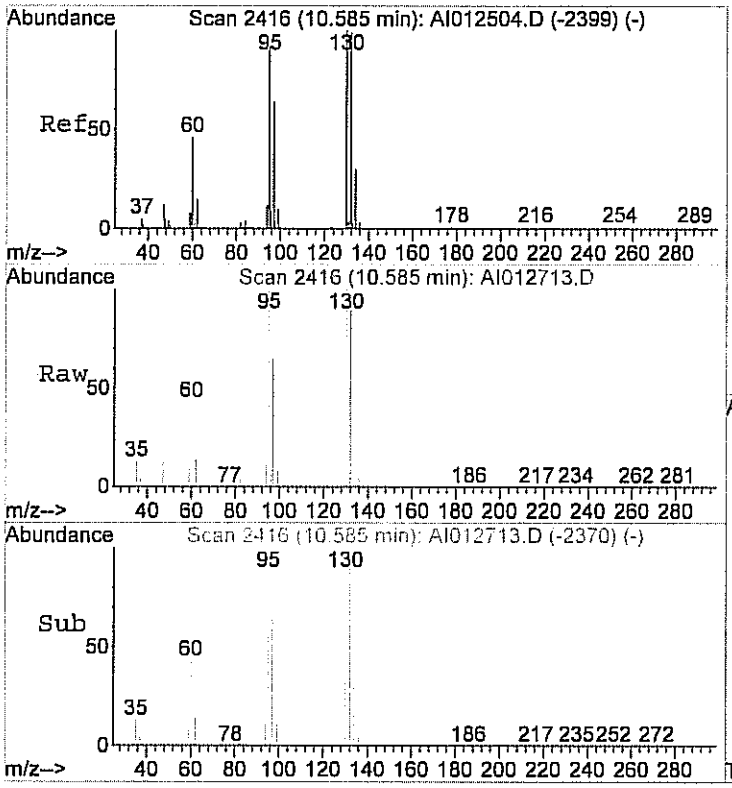


#37
Heptane
Concen: 0.60 ppb
RT: 10.50 min Scan# 2390
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 43 Resp: 8010

Ion	Ratio	Lower	Upper
43	100		
57	56.9	37.9	77.9
71	60.5	46.6	86.6

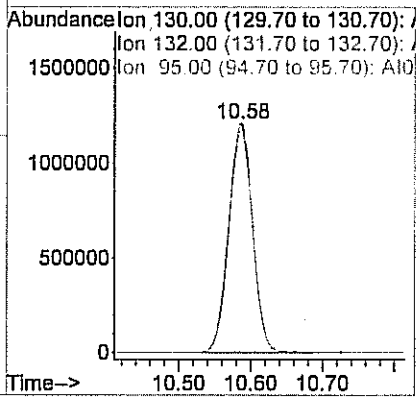


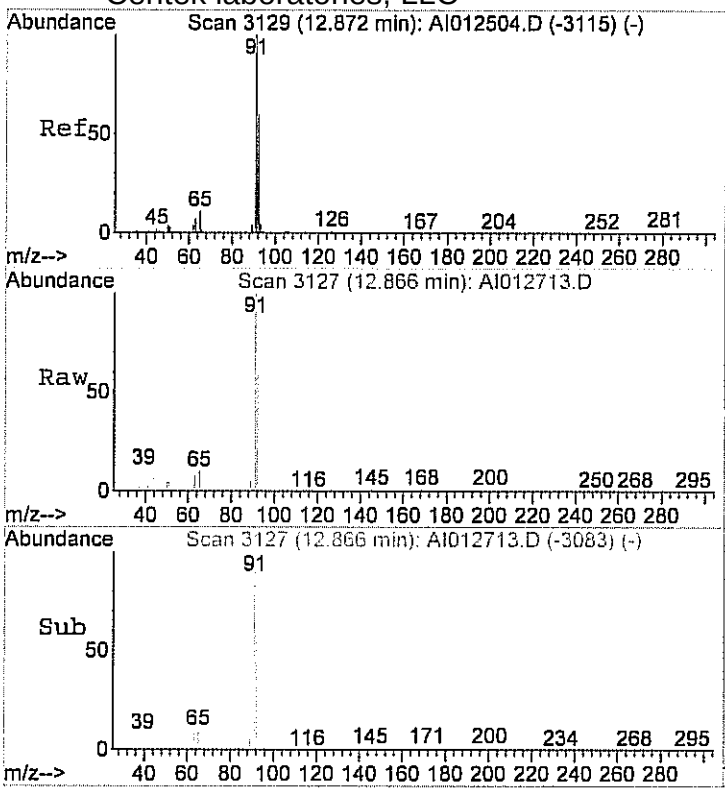


#38
Trichloroethene
Concen: 117.59 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:130 Resp: 2800653

Ion	Ratio	Lower	Upper
130	100		
132	96.9	77.0	117.0
95	99.4	70.8	110.8

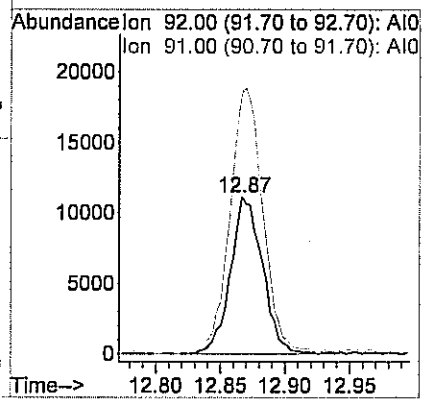


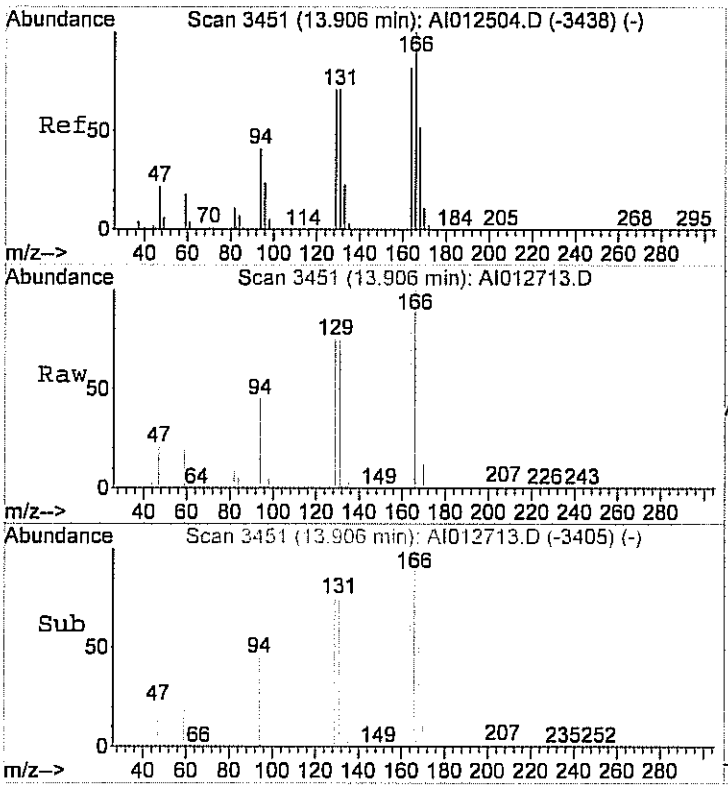


#45
Toluene
Concen: 0.91 ppb
RT: 12.87 min Scan# 3127
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 92 Resp: 19305

Ion	Ratio	Lower	Upper
92	100		
91	173.6	150.0	190.0

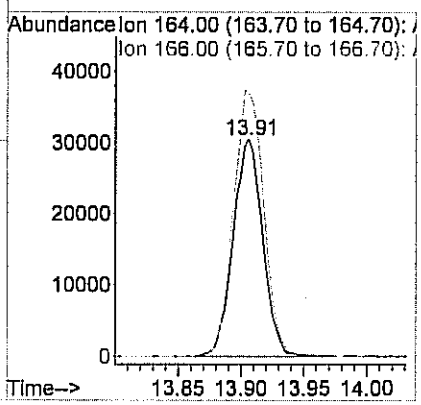


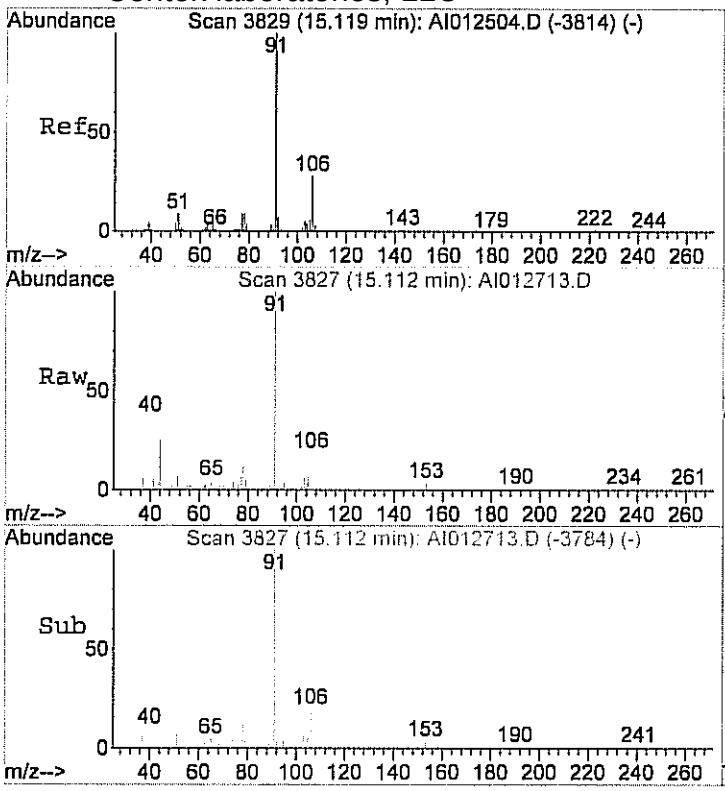


#50
Tetrachloroethylene
Concen: 2.05 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:164 Resp: 49979

Ion	Ratio	Lower	Upper
164	100		
166	126.2	109.0	149.0

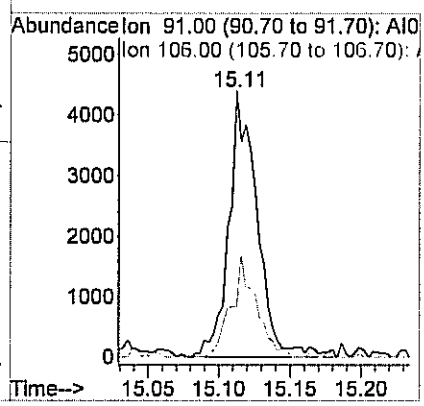


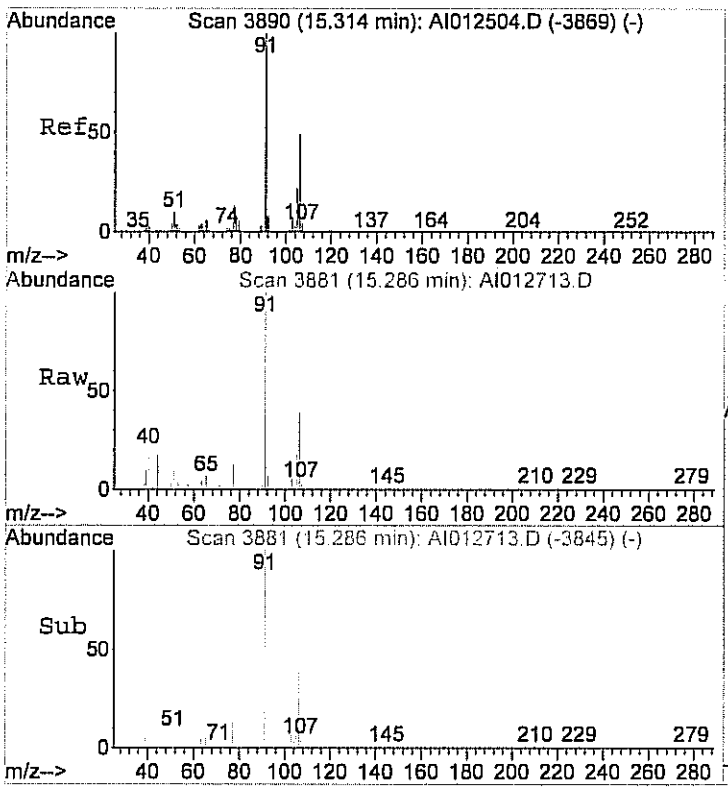


#52
Ethylbenzene
Concen: 0.15 ppb
RT: 15.11 min Scan# 3827
Delta R.T. -0.01 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 6093

Ion	Ratio	Lower	Upper
91	100		
106	33.5	12.9	52.9

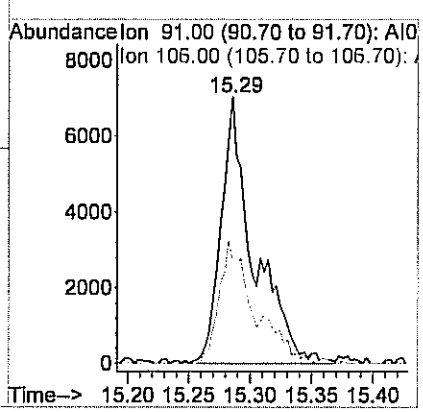


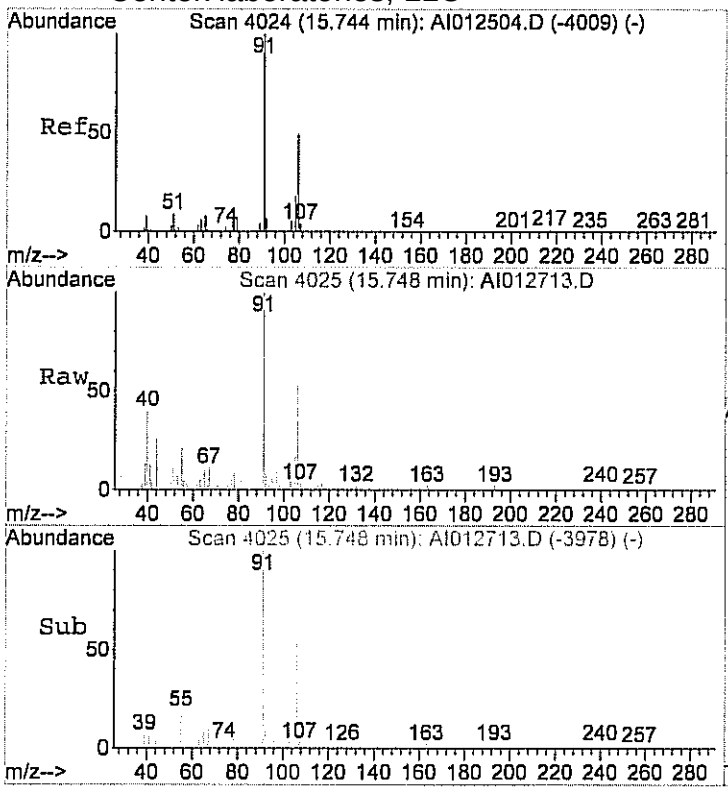


#53
m&p-xylene
Concen: 0.39 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 13003

Ion	Ratio	Lower	Upper
91	100		
106	49.1	29.9	69.9

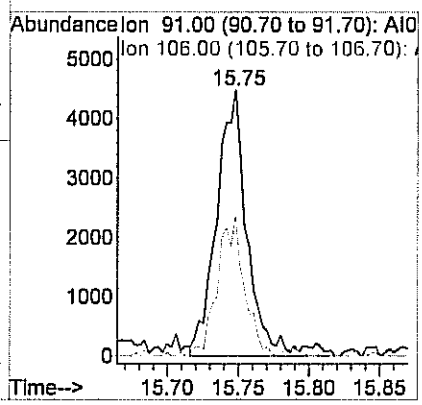


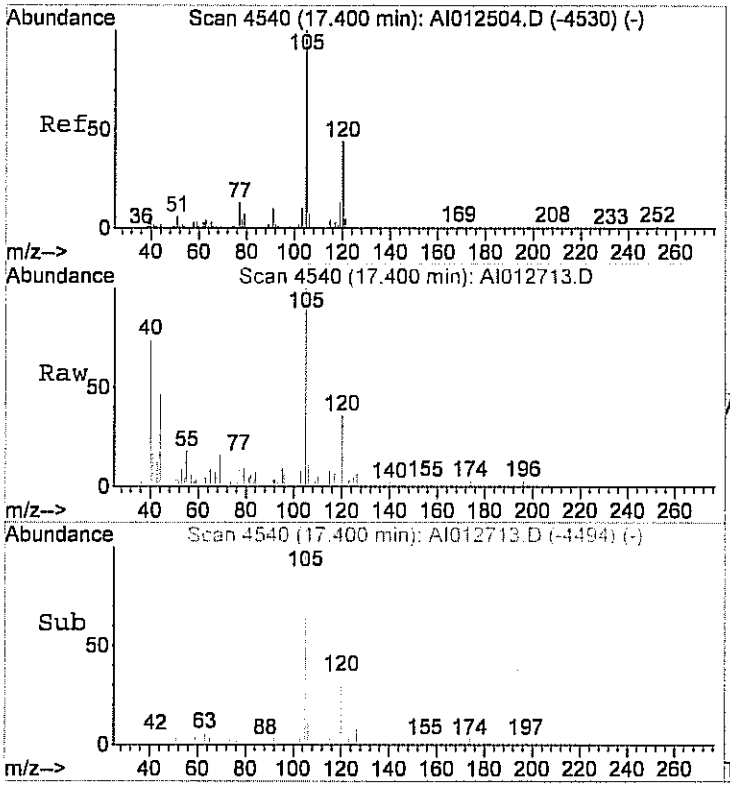


#56
o-xylene
Concen: 0.17 ppb
RT: 15.75 min Scan# 4025
Delta R.T. 0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion: 91 Resp: 6797

Ion	Ratio	Lower	Upper
91	100		
106	45.9	29.0	69.0

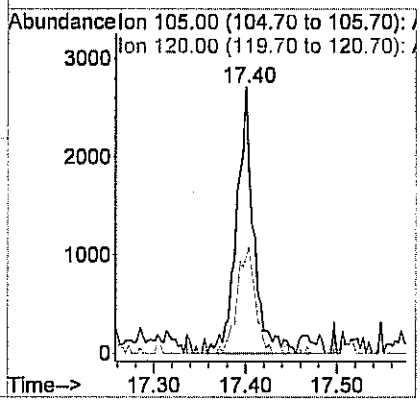




#61
1,2,4-trimethylbenzene
Concen: 0.15 ppb m
RT: 17.40 min Scan# 4540
Delta R.T. -0.00 min
Lab File: AI012713.D
Acq: 27 Jan 2011 4:56 pm

Tgt Ion:105 Resp: 3884

Ion	Ratio	Lower	Upper
105	100		
120	37.9	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012714.D Vial: 3
Acq On : 27 Jan 2011 5:29 pm Operator: RJP
Sample : C1101031-001A 40X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 17:49:58 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

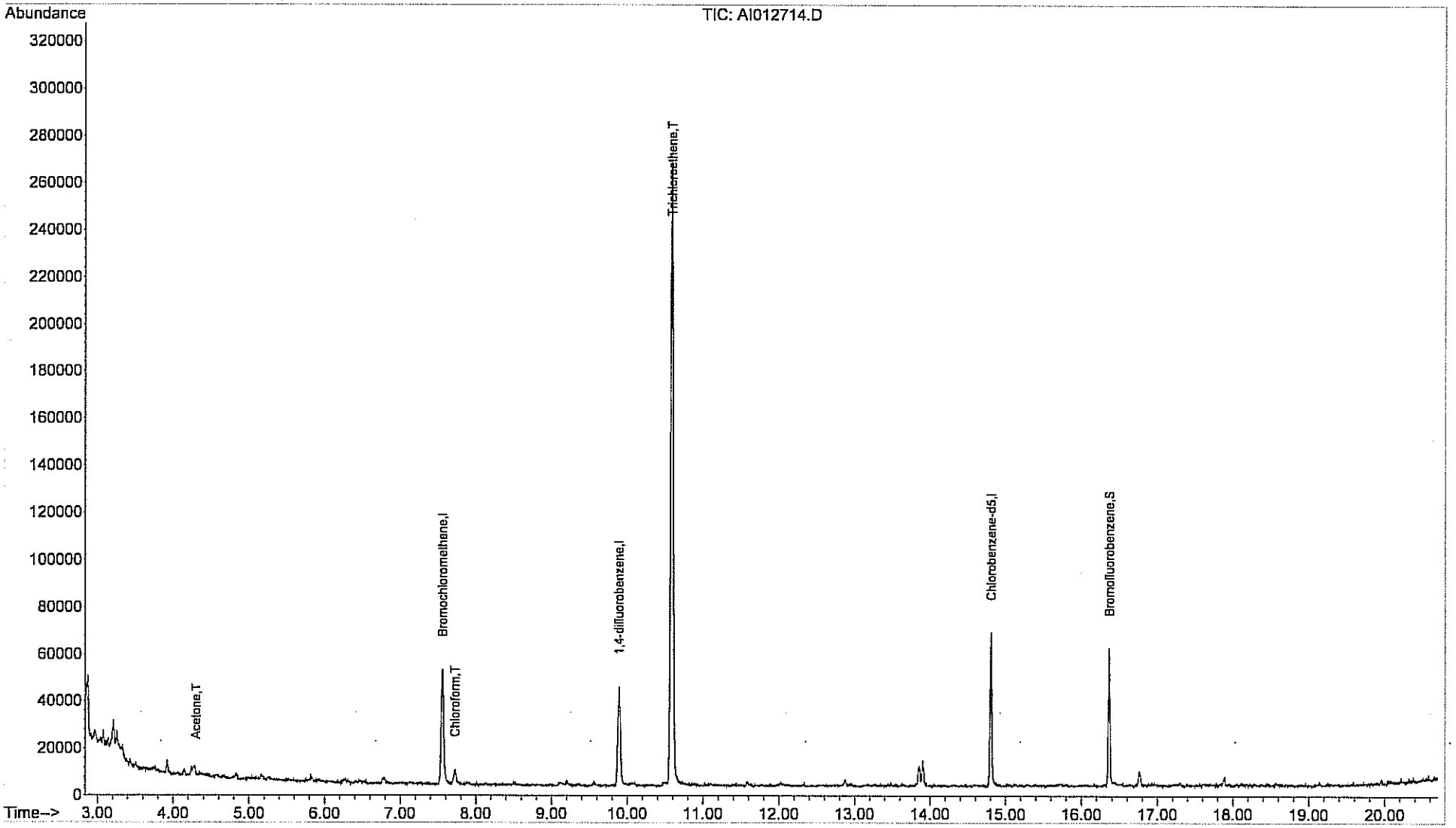
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17353	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	42790	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	35099	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	16599	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
12) Acetone	4.31	58	1497m N	0.32	ppb	
27) Chloroform	7.73	83	5317	0.15	ppb	99
38) Trichloroethene	10.59	130	112961	6.01	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012714.D A106_1UG.M Tue Feb 08 15:45:01 2011 MSD1 Page 1

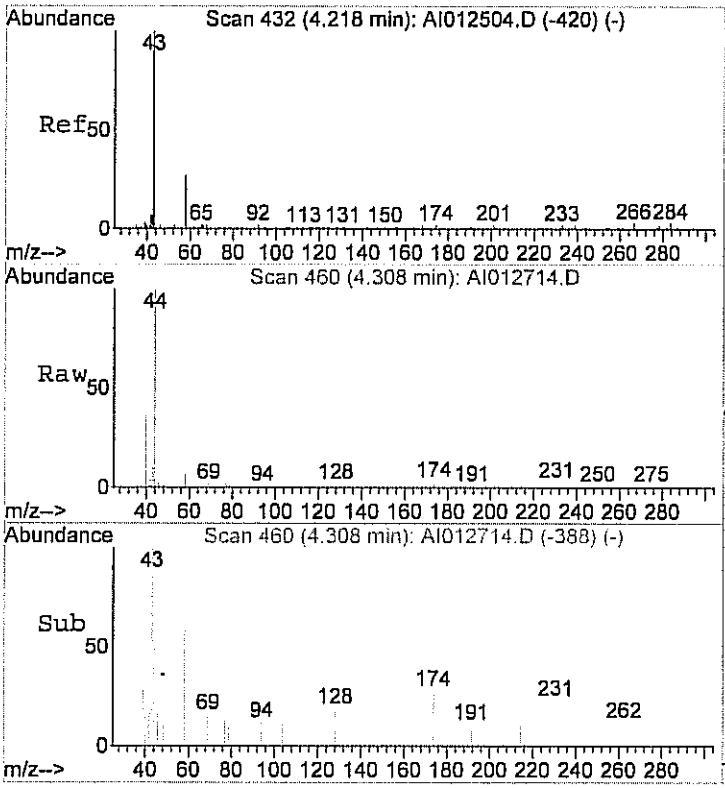
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012714.D Vial: 3
Acq On : 27 Jan 2011 5:29 pm Operator: RJP
Sample : C1101031-001A 40X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:03 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



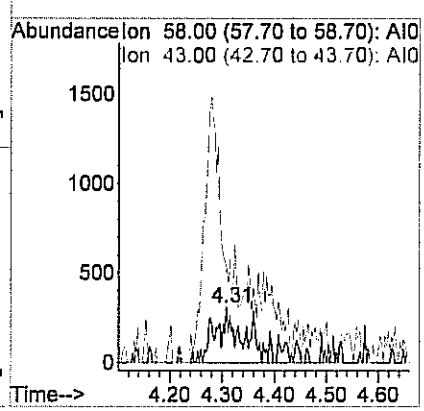
Centek laboratories, LLC

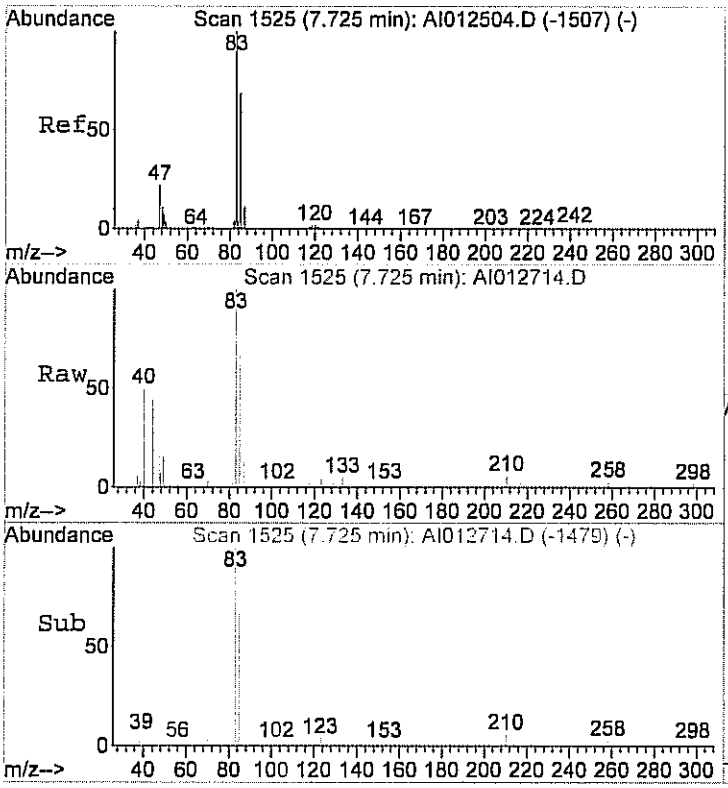


#12
Acetone
Concen: 0.32 ppb m
RT: 4.31 min Scan# 460
Delta R.T. 0.08 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion: 58 Resp: 1497

Ion	Ratio	Lower	Upper
58	100		
43	0.0	329.0	389.0#

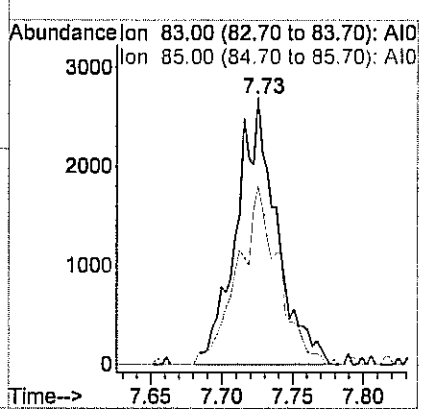


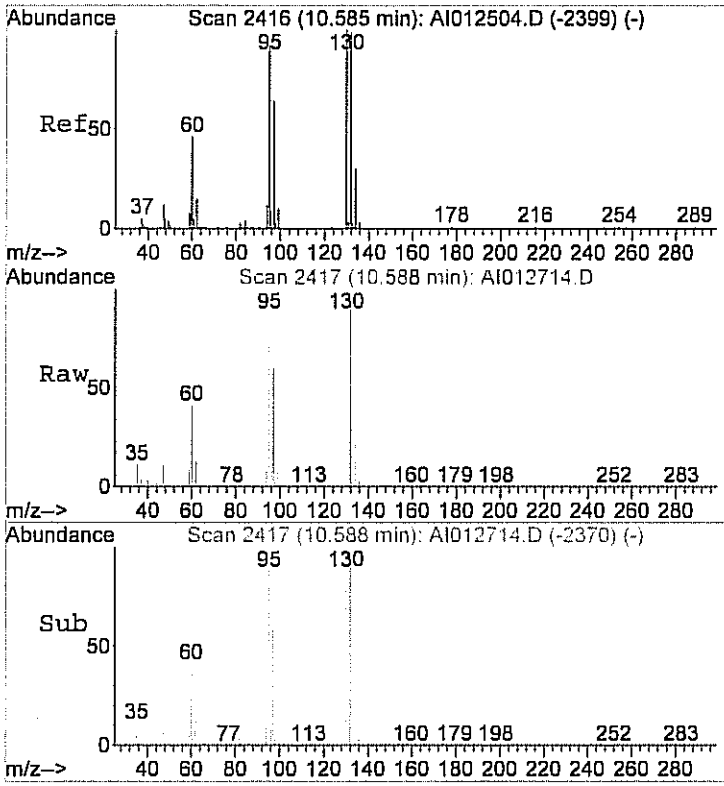


#27
Chloroform
Concen: 0.15 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion: 83 Resp: 5317

Ion	Ratio	Lower	Upper
83	100		
85	67.4	46.5	86.5

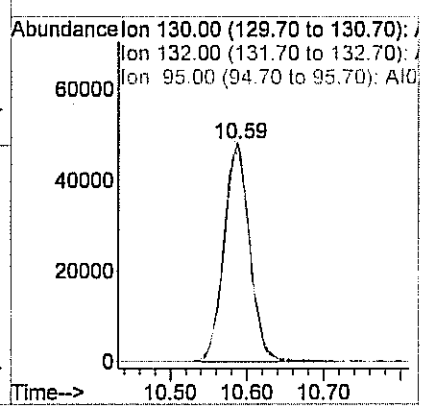




#38
Trichloroethene
Concen: 6.01 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012714.D
Acq: 27 Jan 2011 5:29 pm

Tgt Ion:130 Resp: 112961

Ion	Ratio	Lower	Upper
130	100		
132	97.6	77.0	117.0
95	102.5	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012809.D Vial: 1
Acq On : 28 Jan 2011 3:50 pm Operator: RJP
Sample : C1101031-001A 810X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 16:11:09 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

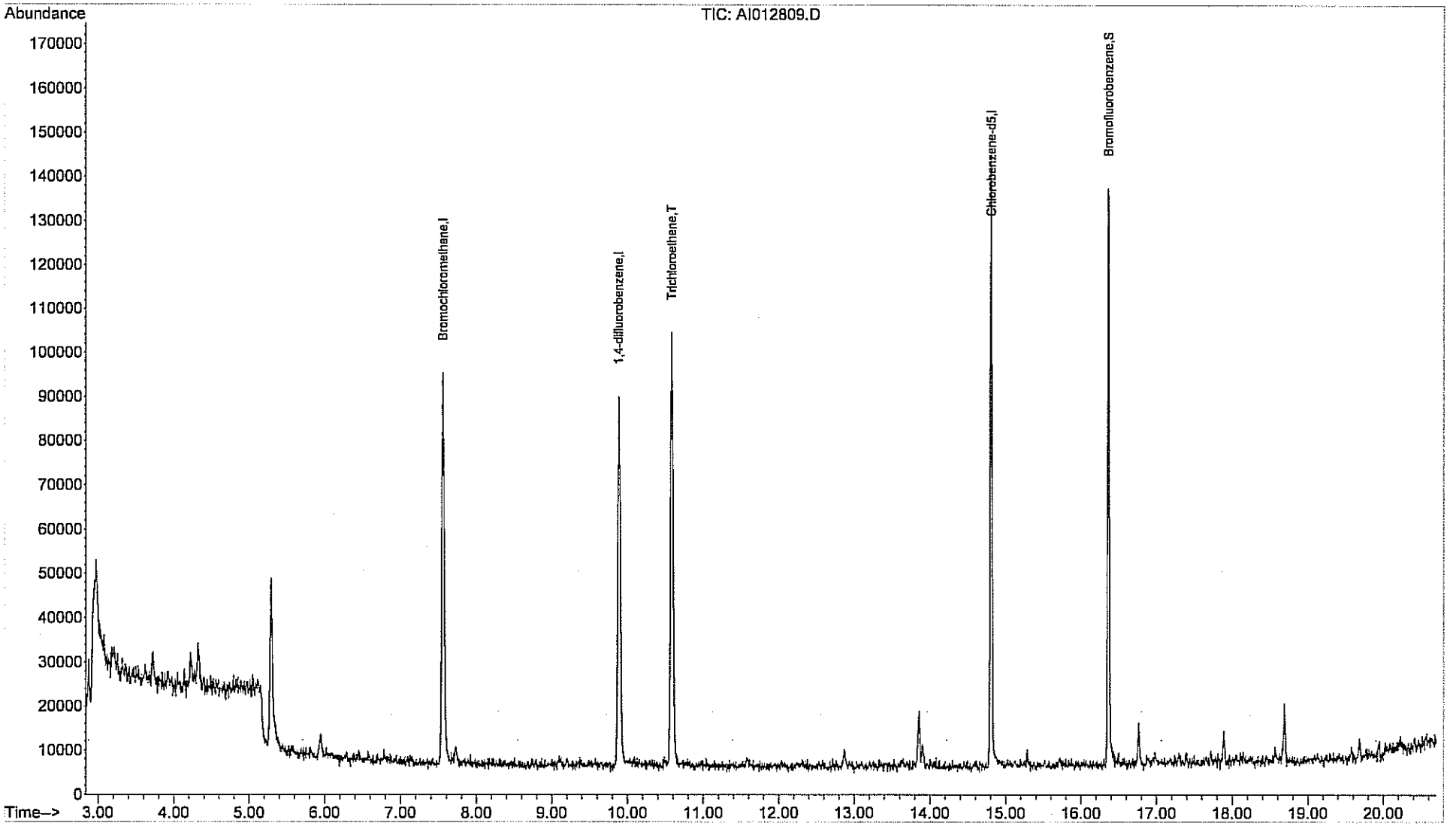
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	30614	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	85882	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	76826	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	37242	0.96	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 96.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.58	130	41986	1.11	ppb	93

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012809.D A106_1UG.M Tue Feb 08 15:45:36 2011 MSD1 Page 1

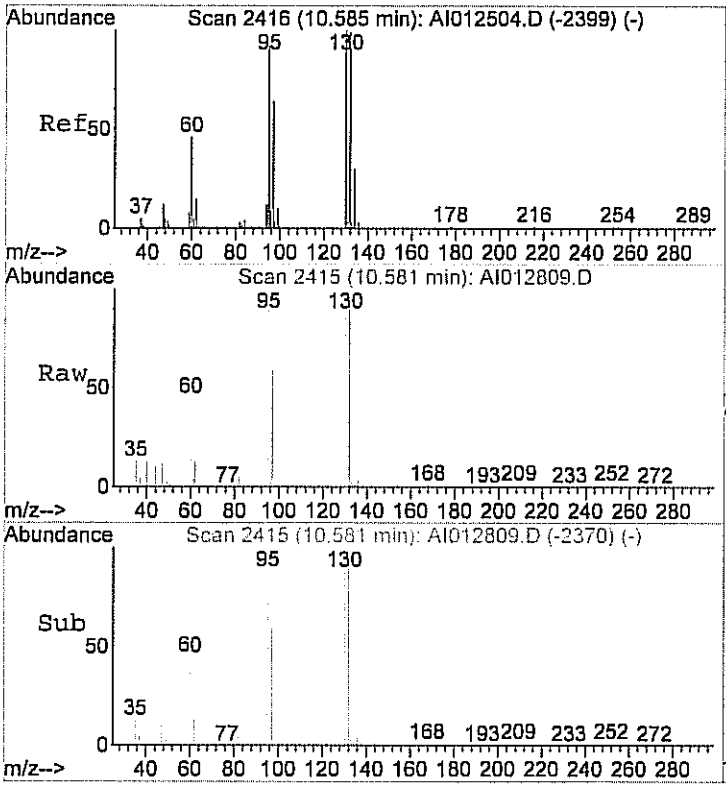
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012809.D Vial: 1
Acq On : 28 Jan 2011 3:50 pm Operator: RJP
Sample : C1101031-001A 810X Inst : MSD #1
Misc : C1101031-001A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:04 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



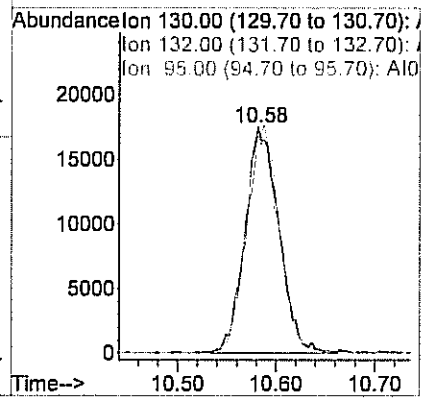
Centek laboratories, LLC



#38
Trichloroethene
Concen: 1.11 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012809.D
Acq: 28 Jan 2011 3:50 pm

Tgt Ion:130 Resp: 41986

Ion	Ratio	Lower	Upper
130	100		
132	95.2	77.0	117.0
95	102.4	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.7	1.5		ppbV	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	0.91	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	0.37	0.15		ppbV	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.19	0.15		ppbV	1	1/25/2011 7:50:00 PM
Acetone	20	3.0		ppbV	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromodichloromethane	1.1	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon disulfide	1.7	0.15		ppbV	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Chloroform	120	14		ppbV	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	0.35	0.15		ppbV	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	0.34	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 11	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 113	0.47	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Freon 12	0.69	0.15		ppbV	1	1/25/2011 7:50:00 PM
Heptane	1.4	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
m&p-Xylene	1.1	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	2.2	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	5.0	3.0		ppbV	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	1.6	0.30		ppbV	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Methylene chloride	0.40	0.15		ppbV	1	1/25/2011 7:50:00 PM
o-Xylene	0.50	0.15		ppbV	1	1/25/2011 7:50:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	1.6	0.15		ppbV	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	5.2	1.5		ppbV	10	1/27/2011 6:01:00 PM
Toluene	1.8	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Trichloroethene	140	14		ppbV	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 7:50:00 PM
Surr: Bromofluorobenzene	122	70-130		%REC	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
1,1,1-Trichloroethane	15	8.3		ug/m3	10	1/27/2011 6:01:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 7:50:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
1,2,4-Trimethylbenzene	4.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 7:50:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
1,3,5-Trimethylbenzene	1.7	0.75		ug/m3	1	1/25/2011 7:50:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 7:50:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM
2,2,4-trimethylpentane	1.8	0.71		ug/m3	1	1/25/2011 7:50:00 PM
4-ethyltoluene	0.95	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Acetone	49	7.2		ug/m3	10	1/27/2011 6:01:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 7:50:00 PM
Benzene	4.6	0.49		ug/m3	1	1/25/2011 7:50:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 7:50:00 PM
Bromodichloromethane	7.4	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 7:50:00 PM
Carbon disulfide	5.3	0.47		ug/m3	1	1/25/2011 7:50:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 7:50:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 7:50:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 7:50:00 PM
Chloroform	620	69		ug/m3	90	1/28/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,2-Dichloroethene	1.4	0.60		ug/m3	1	1/25/2011 7:50:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 7:50:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 7:50:00 PM
Ethylbenzene	1.5	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Freon 11	2.7	0.86		ug/m3	1	1/25/2011 7:50:00 PM
Freon 113	3.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0202AA
Lab Order:	C1101031	**Tag Number:**	428
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-002A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.5	0.75		ug/m3	1	1/25/2011 7:50:00 PM
Heptane	5.8	0.62		ug/m3	1	1/25/2011 7:50:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 7:50:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 7:50:00 PM
m&p-Xylene	4.8	1.3		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Butyl Ketone	9.2	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl Ethyl Ketone	15	9.0		ug/m3	10	1/27/2011 6:01:00 PM
Methyl Isobutyl Ketone	6.7	1.2		ug/m3	1	1/25/2011 7:50:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 7:50:00 PM
Methylene chloride	1.4	0.53		ug/m3	1	1/25/2011 7:50:00 PM
o-Xylene	2.2	0.66		ug/m3	1	1/25/2011 7:50:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 7:50:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 7:50:00 PM
Tetrachloroethylene	11	1.0		ug/m3	1	1/25/2011 7:50:00 PM
Tetrahydrofuran	16	4.5		ug/m3	10	1/27/2011 6:01:00 PM
Toluene	6.7	0.57		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 7:50:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 7:50:00 PM
Trichloroethene	740	76		ug/m3	90	1/28/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 7:50:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 7:50:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012520.D Vial: 3
Acq On : 25 Jan 2011 7:50 pm Operator: RJP
Sample : C1101031-002A Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 20:11:13 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20529	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	69329	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	68796	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	42289	1.22	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 122.00%				
Target Compounds							Qvalue
3) Freon 12	2.91	85	41628	0.69	ppb		97
11) Freon 11	4.07	101	16509	0.47	ppb		100
12) Acetone	4.20	58	176640	31.90	ppb	#	68
15) Freon 113	4.82	101	18941	0.47	ppb		93
16) Methylene chloride	5.04	84	6784	0.40	ppb		94
18) Carbon disulfide	5.16	76	86416	1.66	ppb		98
23) Methyl Ethyl Ketone	6.75	43	297632	10.06	ppb	#	67
24) cis-1,2-dichloroethene	7.13	61	7004	0.35	ppb		94
27) Chloroform	7.72	83	3879690	89.90	ppb		99
28) Tetrahydrofuran	7.91	42	71414	7.91	ppb		89
31) 1,1,1-trichloroethane	8.50	97	103482	2.34	ppb		100
34) Benzene	9.10	78	68254	1.42	ppb		98
36) 2,2,4-trimethylpentane	10.07	57	19199	0.37	ppb	#	1
37) Heptane	10.50	43	24102	1.40	ppb	#	73
38) Trichloroethene	10.58	130	2986027	98.11	ppb		95
40) Bromodichloromethane	11.10	83	58337	1.08	ppb		100
45) Toluene	12.87	92	50272	1.75	ppb		94
46) Methyl Isobutyl Ketone	11.99	43	34112	1.62	ppb		95
48) Methyl Butyl Ketone	13.38	43	39435	2.20	ppb		96
50) Tetrachloroethylene	13.91	164	53788	1.63	ppb		98
52) Ethylbenzene	15.12	91	18851	0.34	ppb		99
53) m&p-xylene	15.28	91	49037	1.09	ppb		95
56) o-xylene	15.74	91	26642	0.50	ppb		94
59) 4-ethyltoluene	16.93	105	9565	0.19	ppb		97
60) 1,3,5-trimethylbenzene	16.99	105	14815	0.34	ppb		93
61) 1,2,4-trimethylbenzene	17.40	105	31357	0.91	ppb		96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

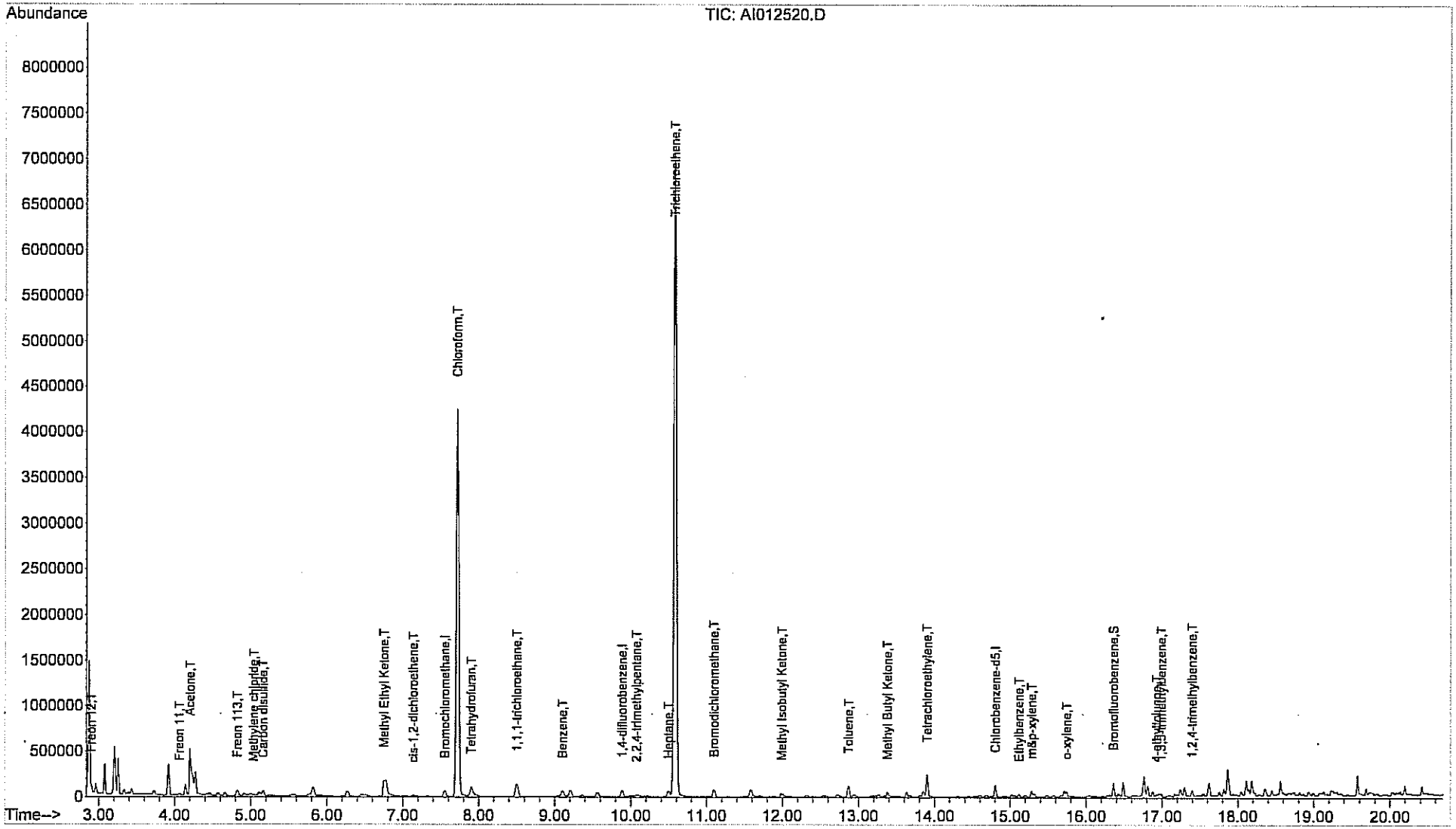
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012520.D
Acq On : 25 Jan 2011 7:50 pm
Sample : C1101031-002A
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:14 2011

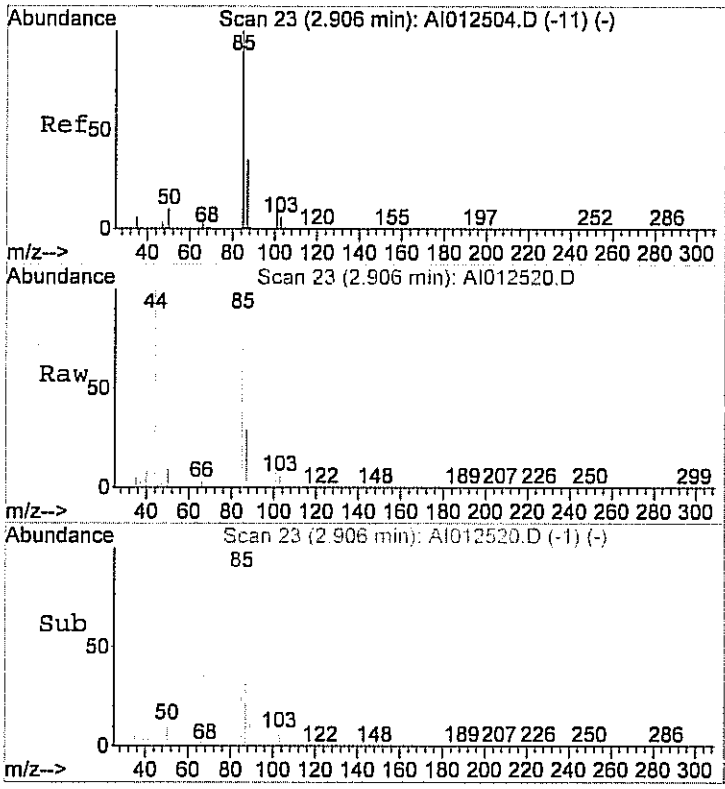
Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



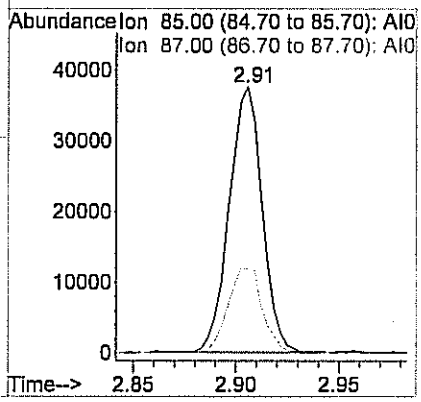
Centek laboratories, LLC

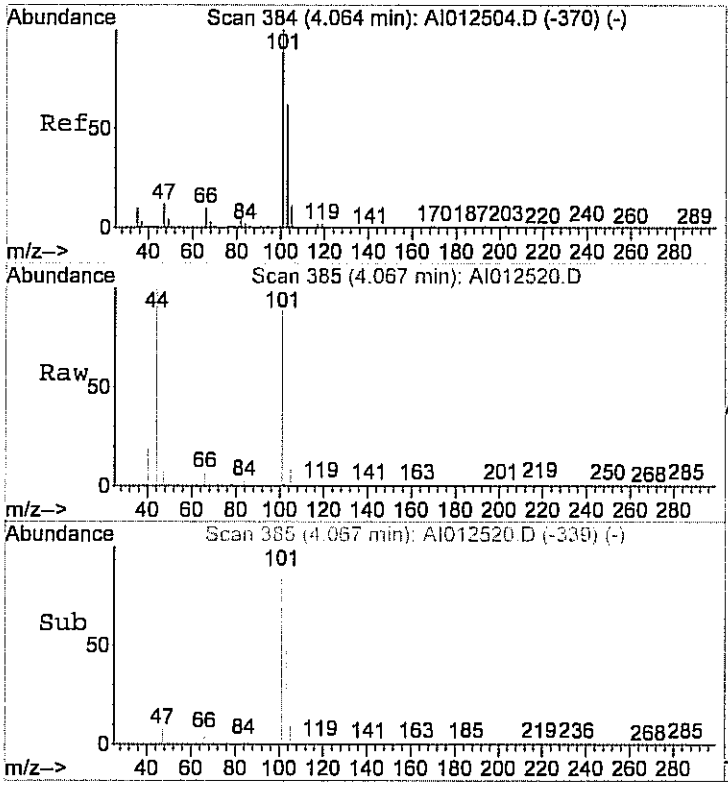


#3
Freon 12
Concen: 0.69 ppb
RT: 2.91 min Scan# 23
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 85 Resp: 41628

Ion	Ratio	Lower	Upper
85	100		
87	33.7	12.2	52.2

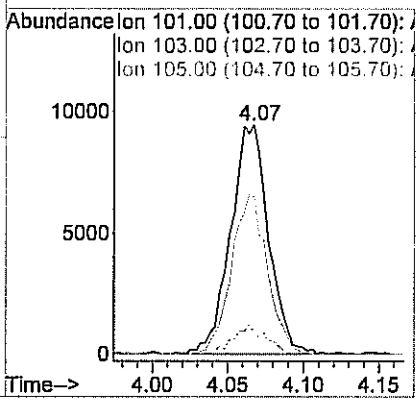


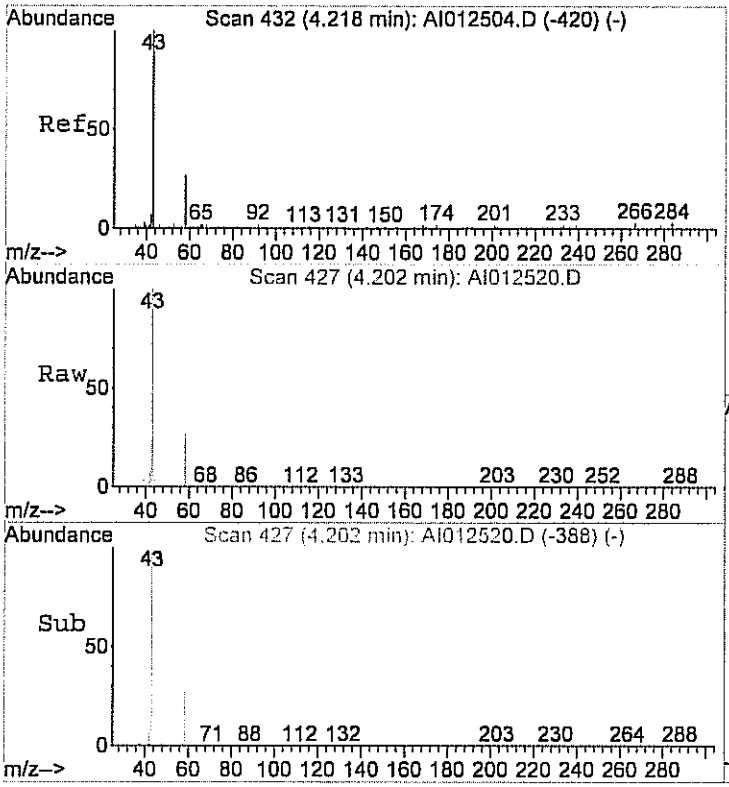


#11
Freon 11
Concen: 0.47 ppb
RT: 4.07 min Scan# 385
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:101 Resp: 16509

Ion	Ratio	Lower	Upper
101	100		
103	66.0	46.3	86.3
105	11.3	0.0	31.0

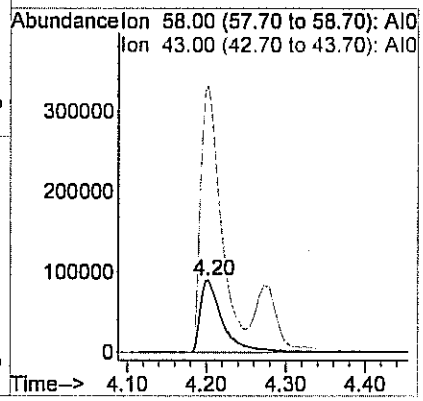


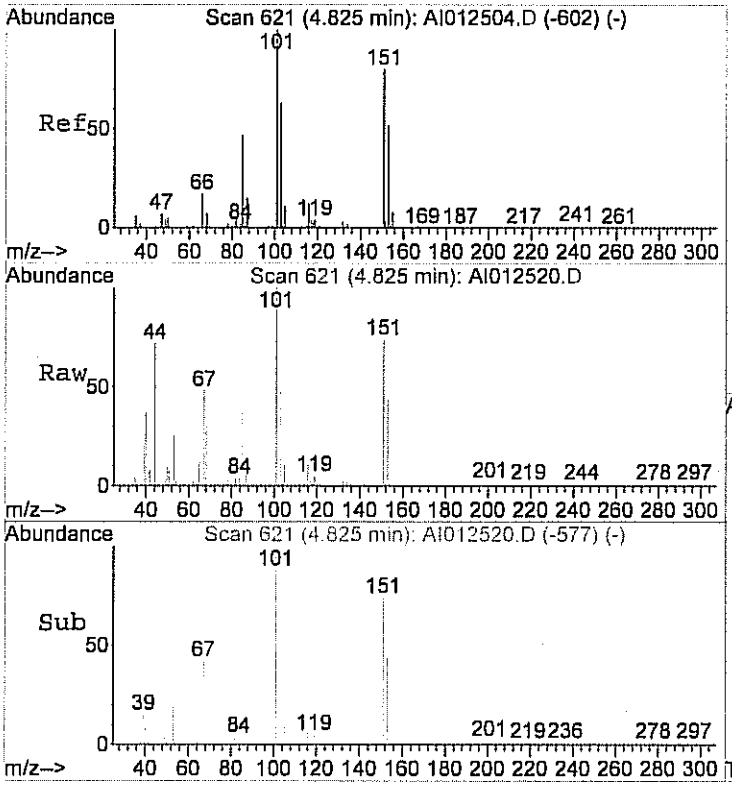


#12
Acetone
Concen: 31.90 ppb
RT: 4.20 min Scan# 427
Delta R.T. -0.03 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 58 Resp: 176640

Ion	Ratio	Lower	Upper
58	100		
43	429.9	329.0	389.0#

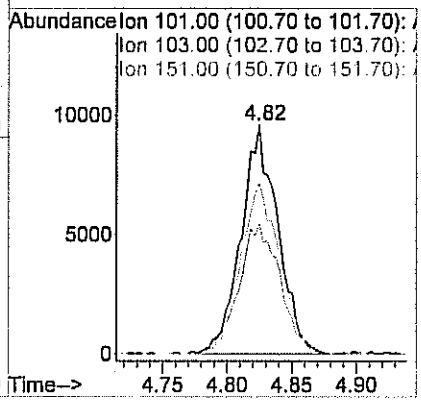


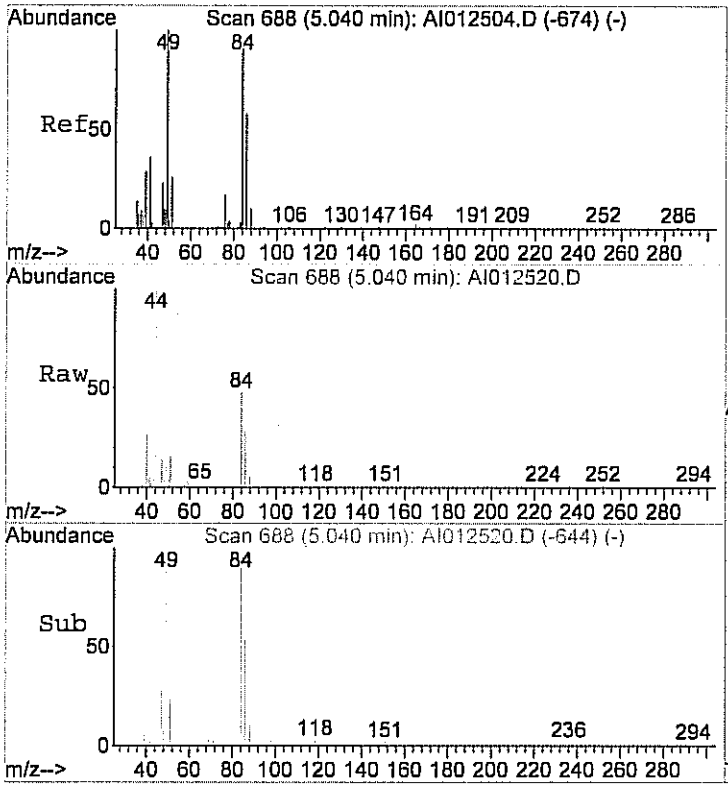


#15
Freon 113
Concen: 0.47 ppb
RT: 4.82 min Scan# 621
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:101 Resp: 18941

Ion	Ratio	Lower	Upper
101	100		
103	63.4	44.7	84.7
151	80.2	71.0	111.0

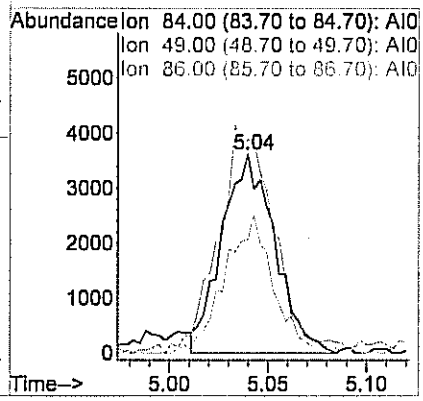


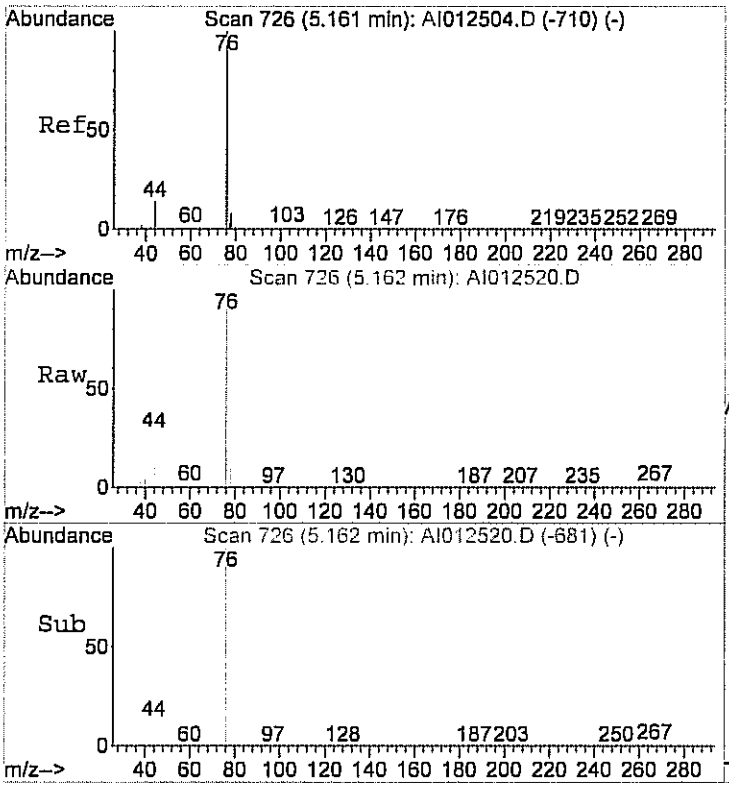


#16
Methylene chloride
Concen: 0.40 ppb
RT: 5.04 min Scan# 688
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 84 Resp: 6784

Ion	Ratio	Lower	Upper
84	100		
49	121.9	109.7	149.7
86	64.2	47.8	87.8

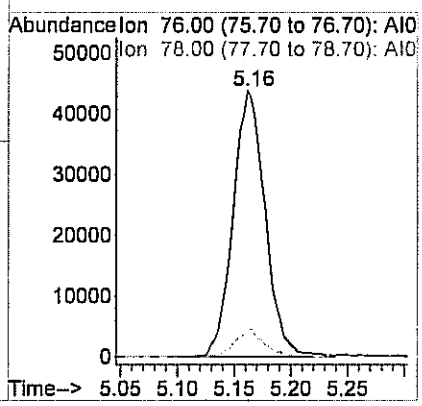


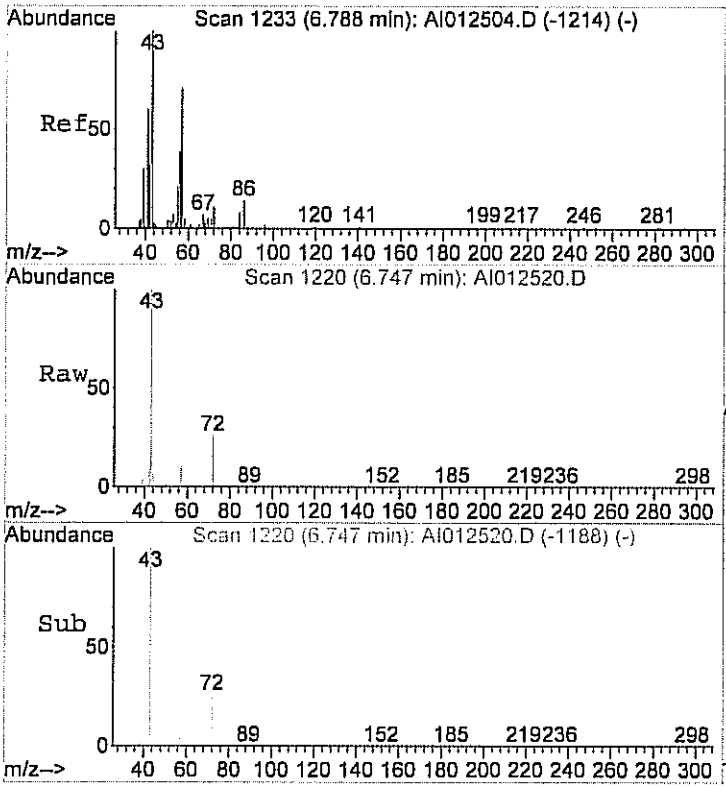


#18
Carbon disulfide
Concen: 1.66 ppb
RT: 5.16 min Scan# 726
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 76 Resp: 86416

Ion	Ratio	Lower	Upper
76	100		
78	9.3	0.0	30.1

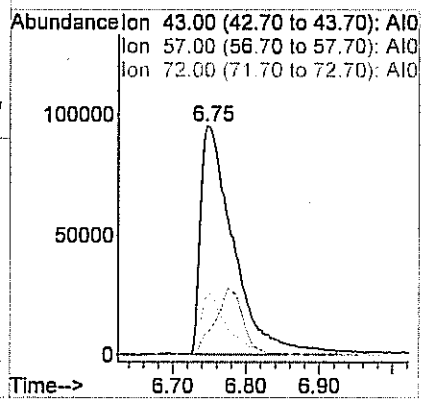


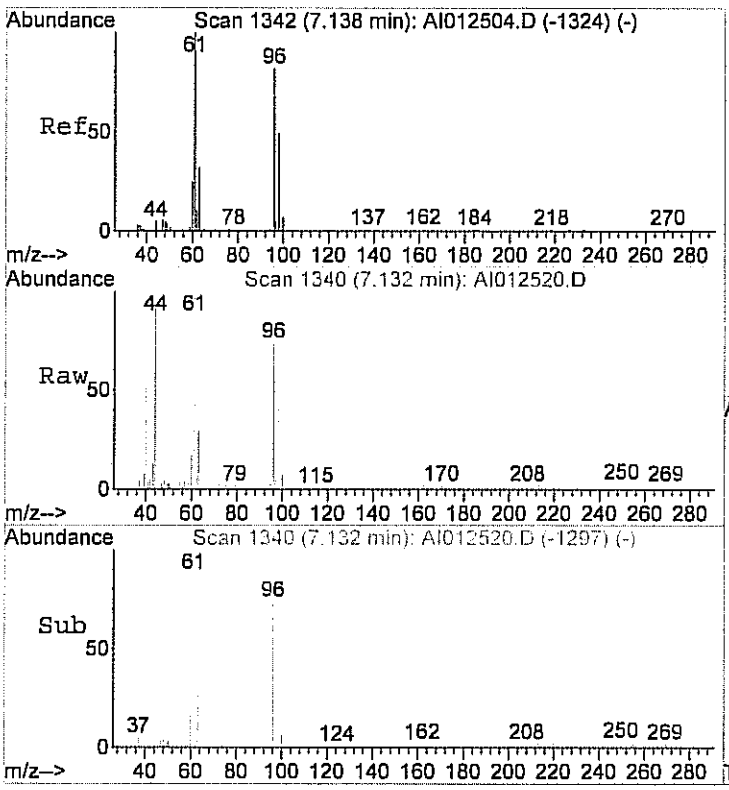


#23
Methyl Ethyl Ketone
Concen: 10.06 ppb
RT: 6.75 min Scan# 1220
Delta R.T. -0.05 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 297632

Ion	Ratio	Lower	Upper
43	100		
57	25.3	37.8	77.8#
72	23.0	1.1	41.1

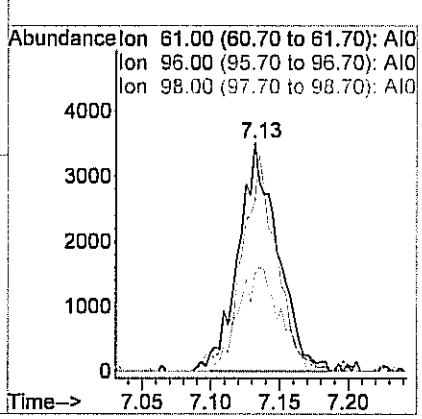


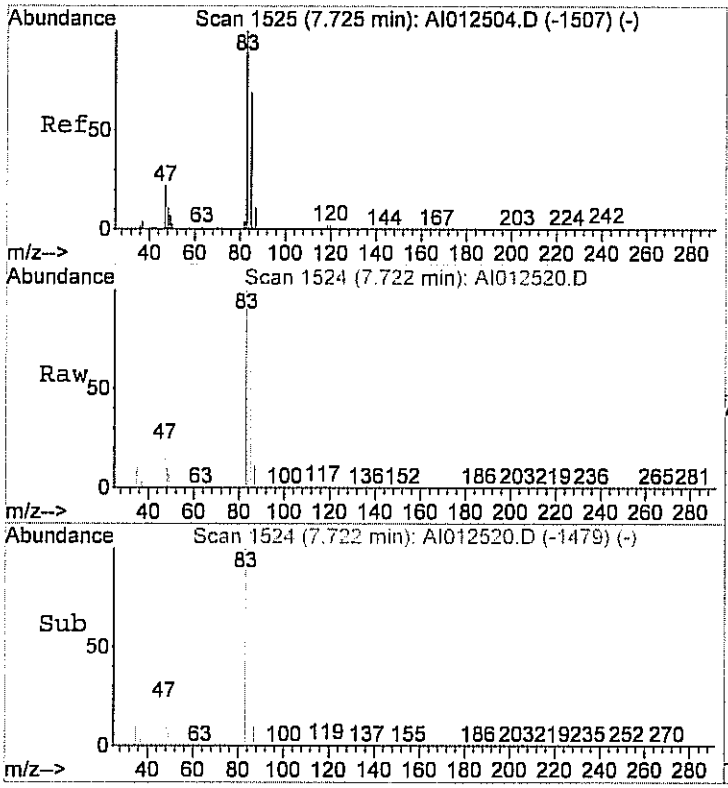


#24
cis-1,2-dichloroethene
Concen: 0.35 ppb
RT: 7.13 min Scan# 1340
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 61 Resp: 7004

Ion	Ratio	Lower	Upper
61	100		
96	86.1	68.1	108.1
98	48.1	37.3	77.3

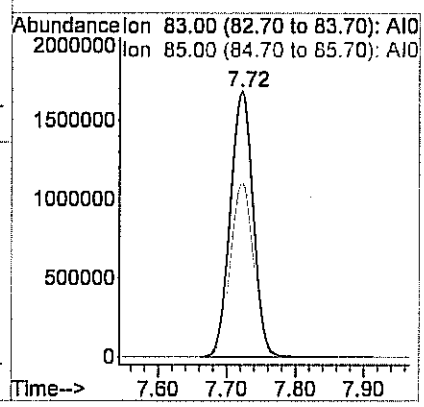


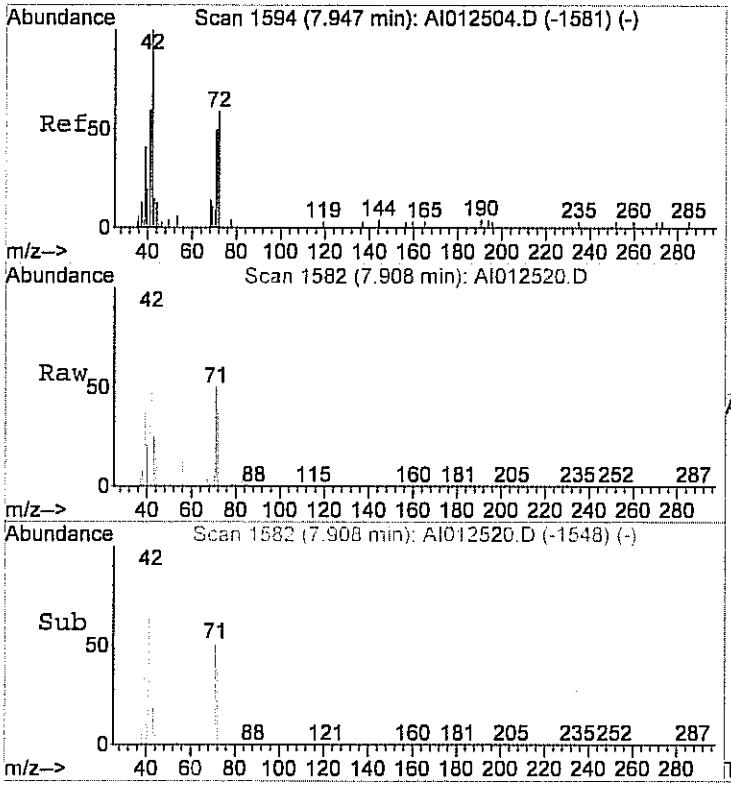


#27
Chloroform
Concen: 89.90 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 83 Resp: 3879690

Ion	Ratio	Lower	Upper
83	100		
85	65.9	46.5	86.5

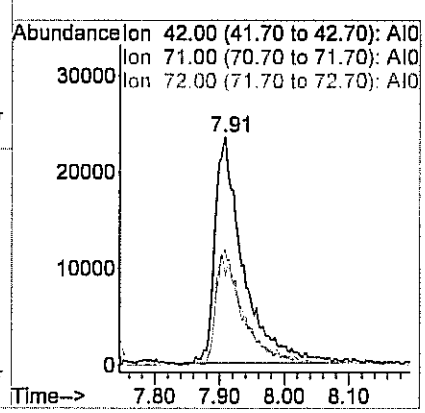


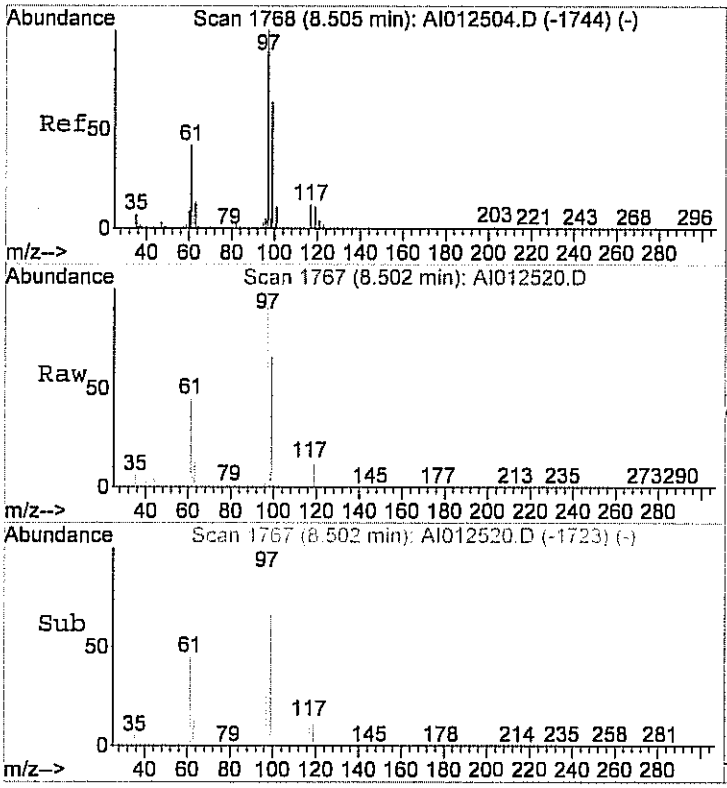


#28
Tetrahydrofuran
Concen: 7.91 ppb
RT: 7.91 min Scan# 1582
Delta R.T. -0.04 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 42 Resp: 71414

Ion	Ratio	Lower	Upper
42	100		
71	51.1	37.9	77.9
72	48.2	38.0	78.0

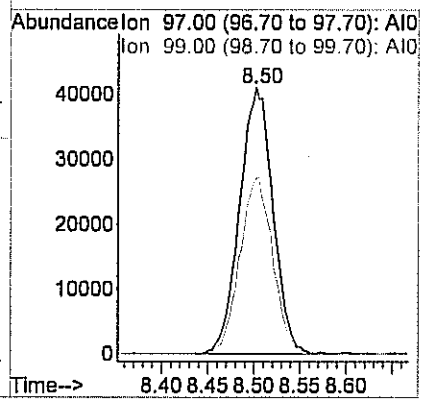


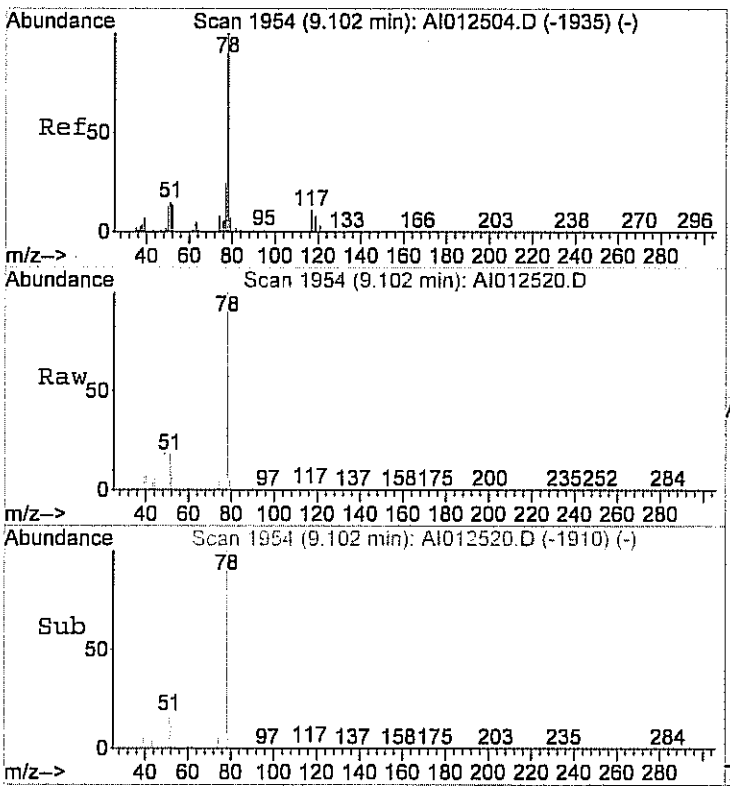


#31
1,1,1-trichloroethane
Concen: 2.34 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 97 Resp: 103482

Ion	Ratio	Lower	Upper
97	100		
99	65.4	45.4	85.4

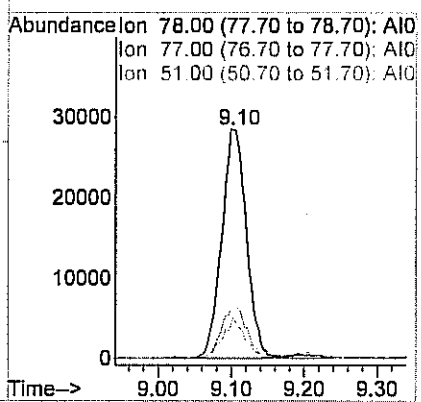


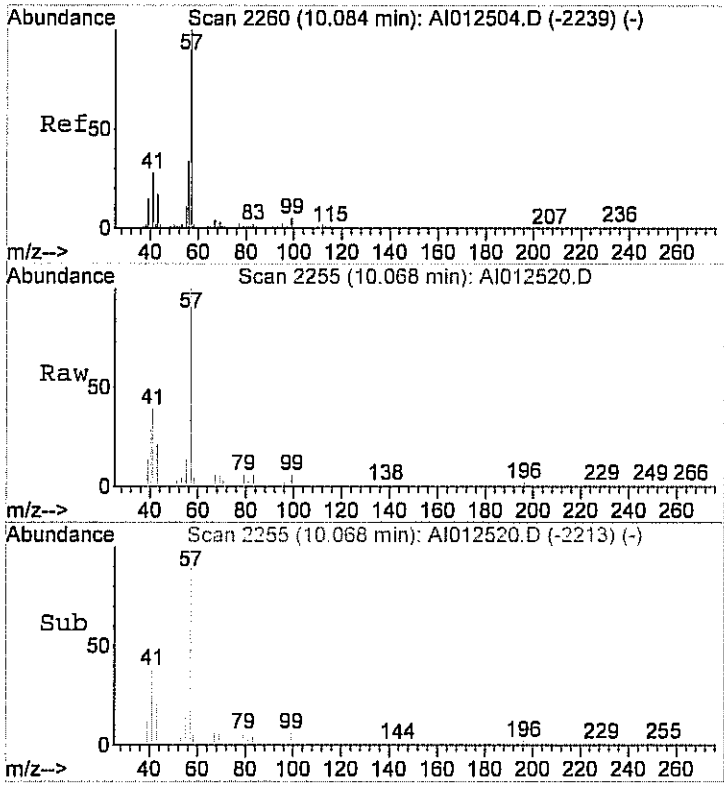


#34
Benzene
Concen: 1.42 ppb
RT: 9.10 min Scan# 1954
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 78 Resp: 68254

Ion	Ratio	Lower	Upper
78	100		
77	22.9	2.6	42.6
51	15.5	0.0	34.0

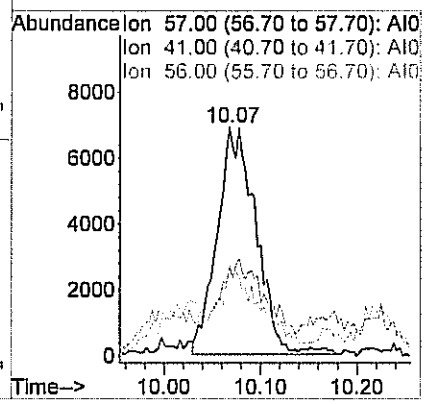


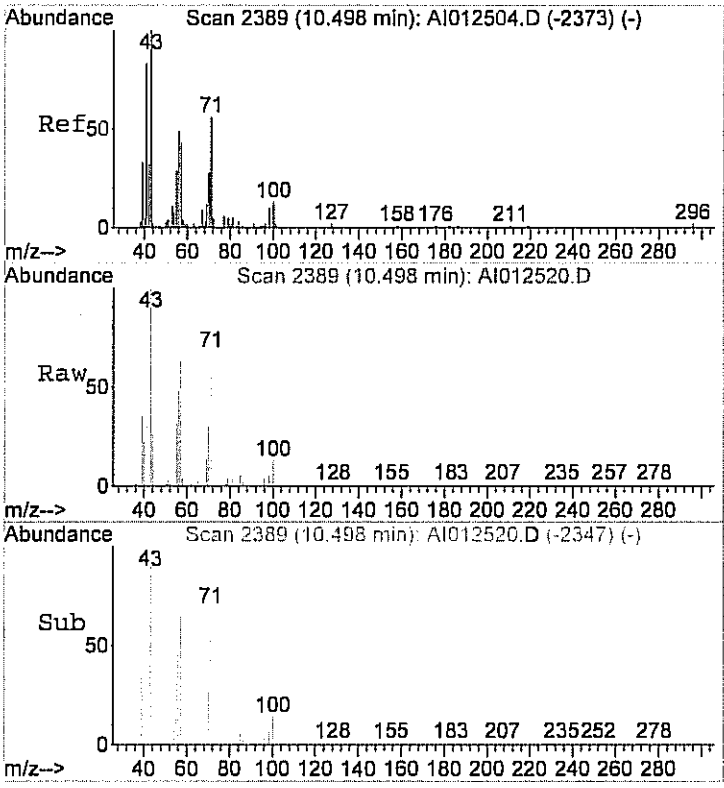


#36
2,2,4-trimethylpentane
Concen: 0.37 ppb
RT: 10.07 min Scan# 2255
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 57 Resp: 19199

Ion	Ratio	Lower	Upper
57	100		
41	97.8	12.1	52.1#
56	87.0	13.7	53.7#

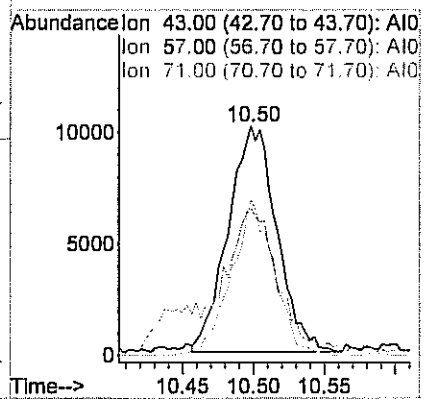


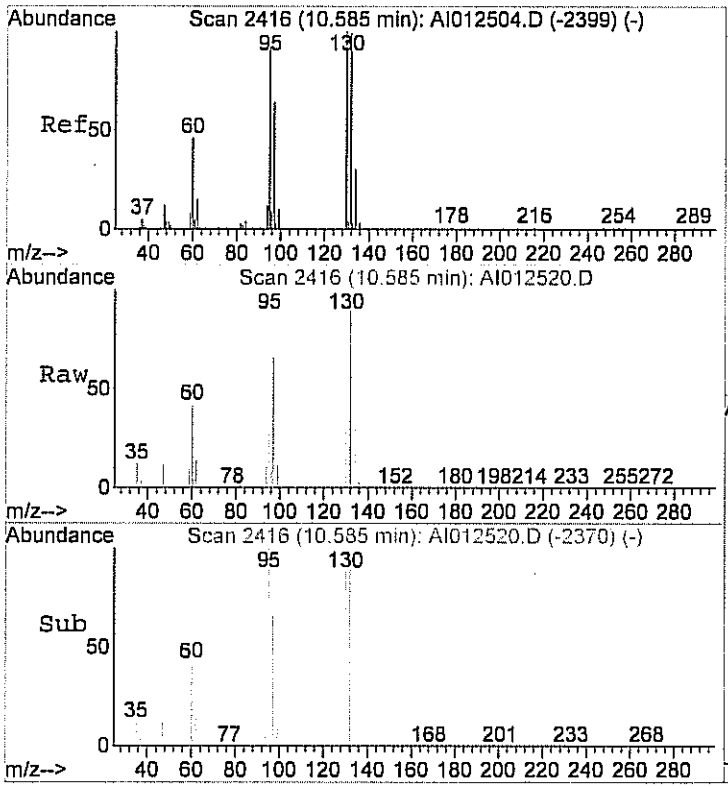


#37
Heptane
Concen: 1.40 ppb
RT: 10.50 min Scan# 2389
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 24102

Ion	Ratio	Lower	Upper
43	100		
57	93.6	37.9	77.9#
71	60.3	46.6	86.6

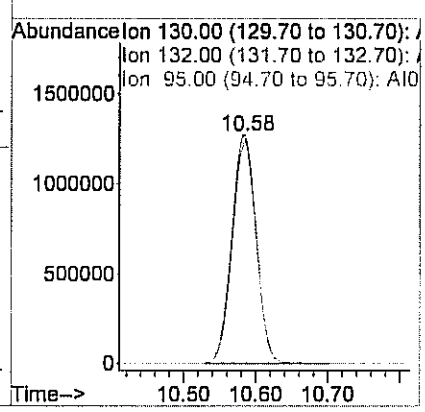


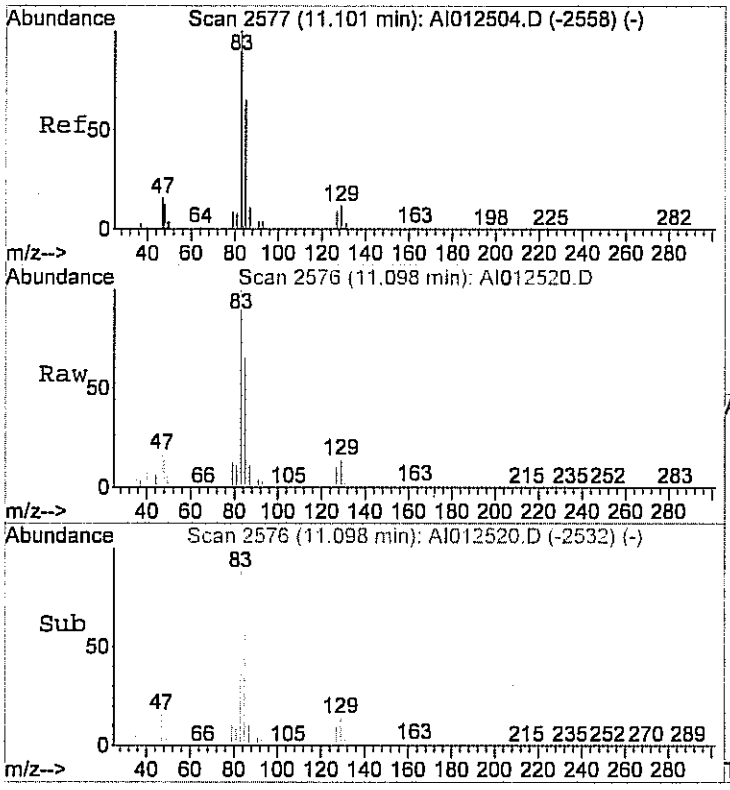


#38
Trichloroethene
Concen: 98.11 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:130 Resp: 2986027

Ion	Ratio	Lower	Upper
130	100		
132	96.5	77.0	117.0
95	100.2	70.8	110.8

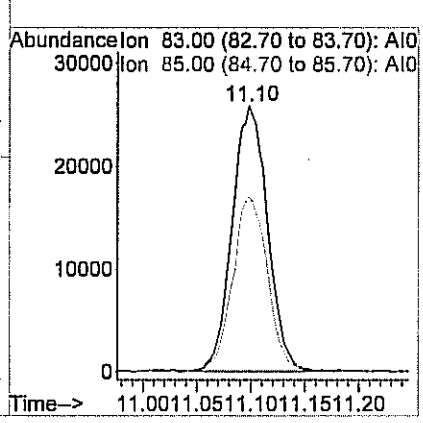


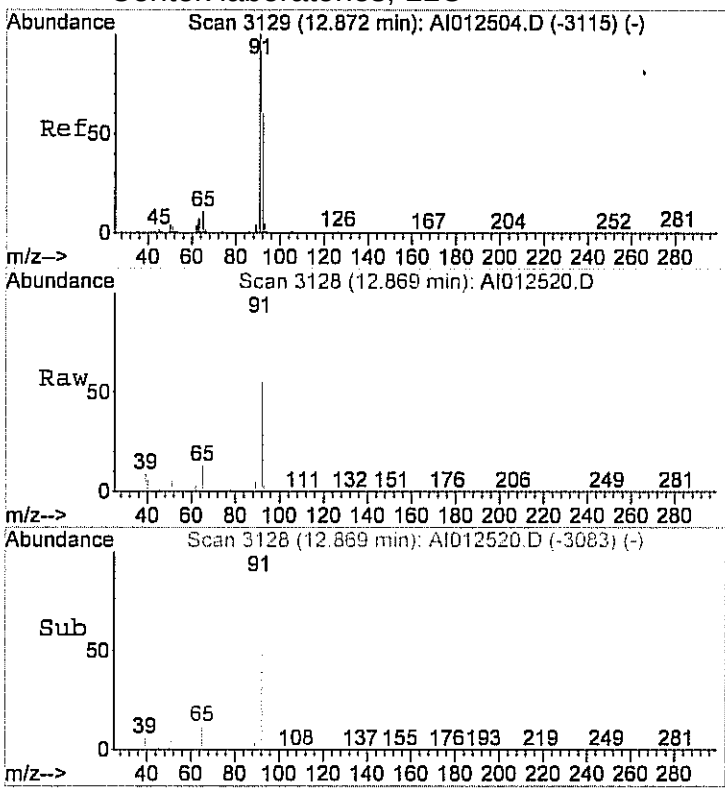


#40
Bromodichloromethane
Concen: 1.08 ppb
RT: 11.10 min Scan# 2576
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 83 Resp: 58337

Ion	Ratio	Lower	Upper
83	100		
85	65.6	45.7	85.7

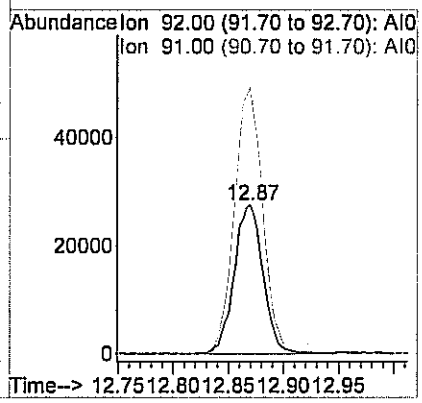


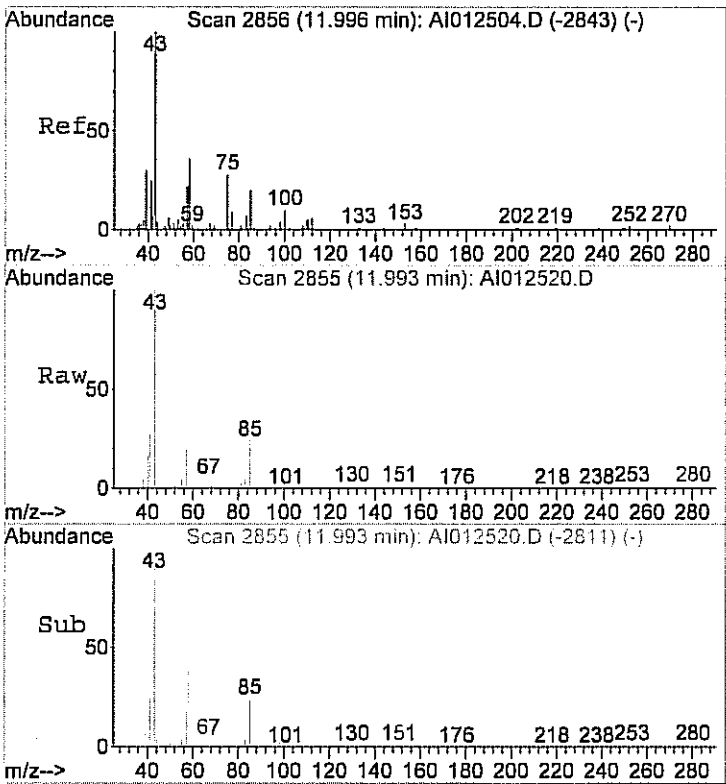


#45
Toluene
Concen: 1.75 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 92 Resp: 50272

Ion	Ratio	Lower	Upper
92	100		
91	178.3	150.0	190.0

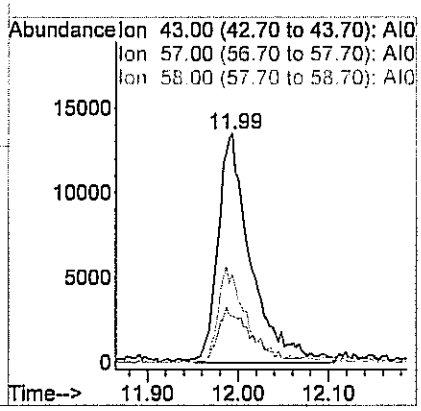


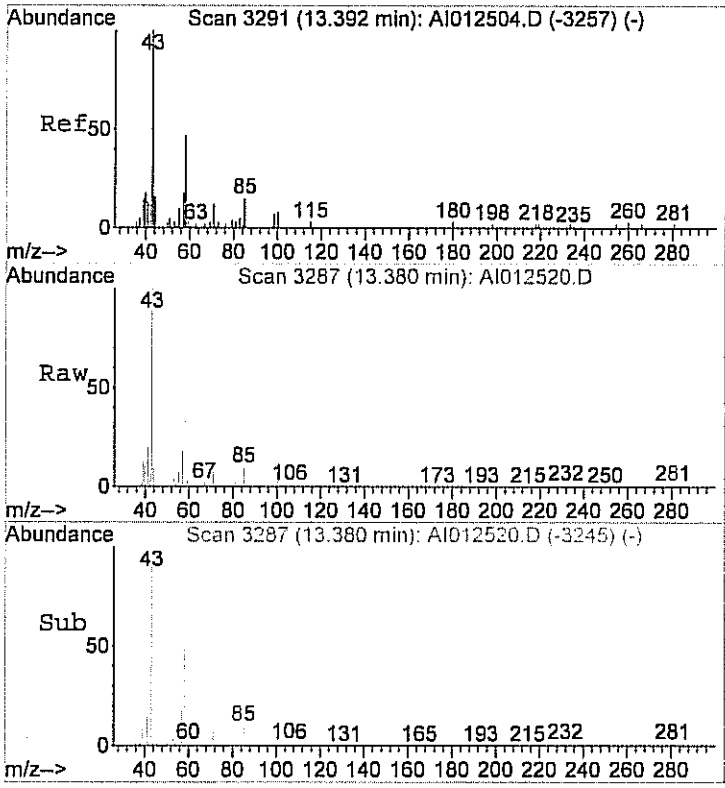


#46
Methyl Isobutyl Ketone
Concen: 1.62 ppb
RT: 11.99 min Scan# 2855
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 34112

Ion	Ratio	Lower	Upper
43	100		
57	25.4	5.4	45.4
58	37.4	22.9	62.9

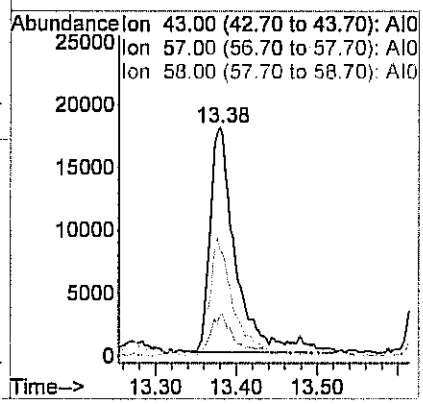


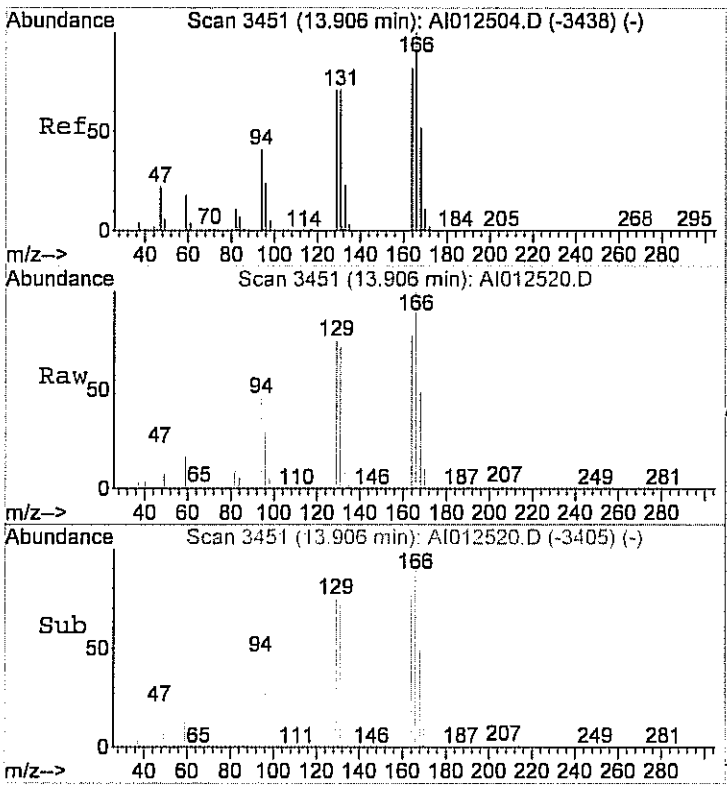


#48
Methyl Butyl Ketone
Concen: 2.20 ppb
RT: 13.38 min Scan# 3287
Delta R.T. -0.02 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 43 Resp: 39435

Ion	Ratio	Lower	Upper
43	100		
57	16.4	0.0	38.5
58	50.4	33.3	73.3

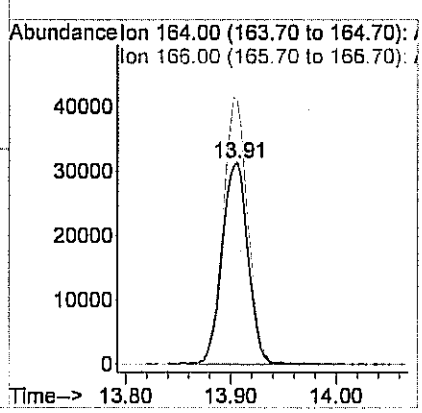


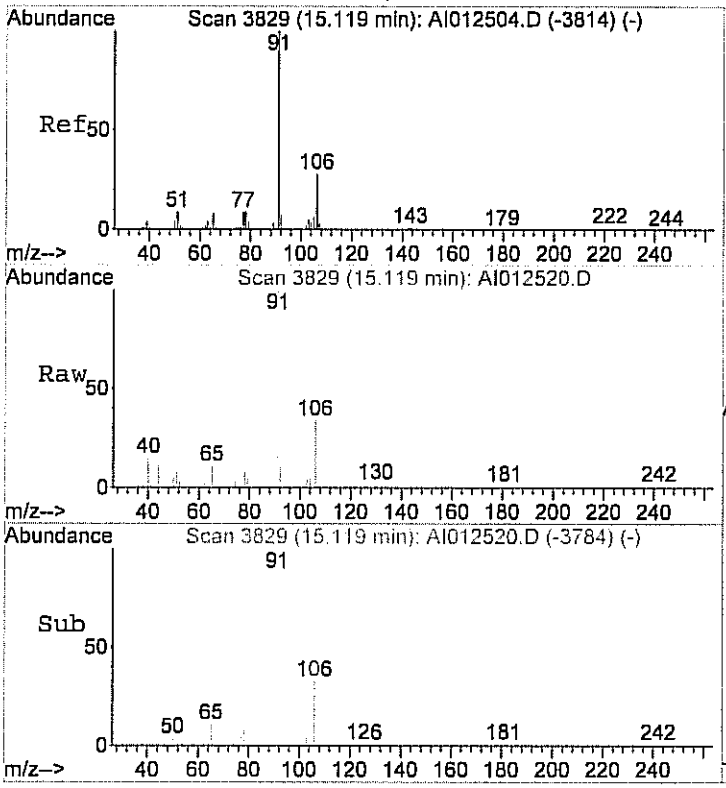


#50
Tetrachloroethylene
Concen: 1.63 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:164 Resp: 53788

Ion	Ratio	Lower	Upper
164	100		
166	127.1	109.0	149.0

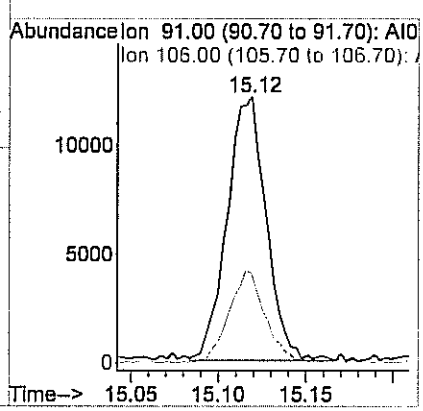


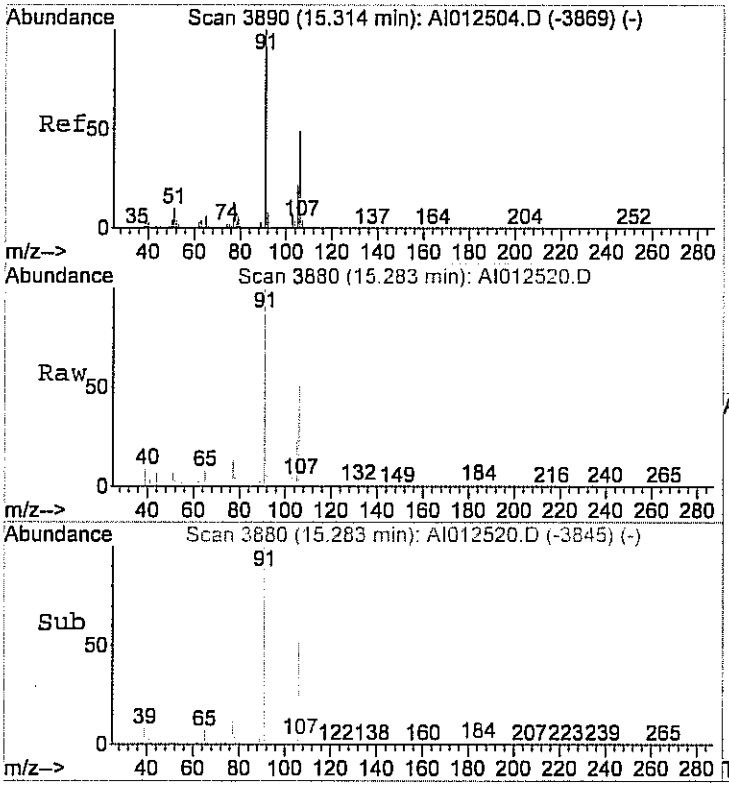


#52
Ethylbenzene
Concen: 0.34 ppb
RT: 15.12 min Scan# 3829
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 18851

Ion	Ratio	Lower	Upper
91	100		
106	32.4	12.9	52.9

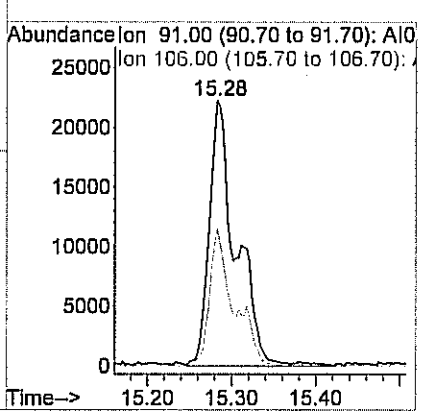


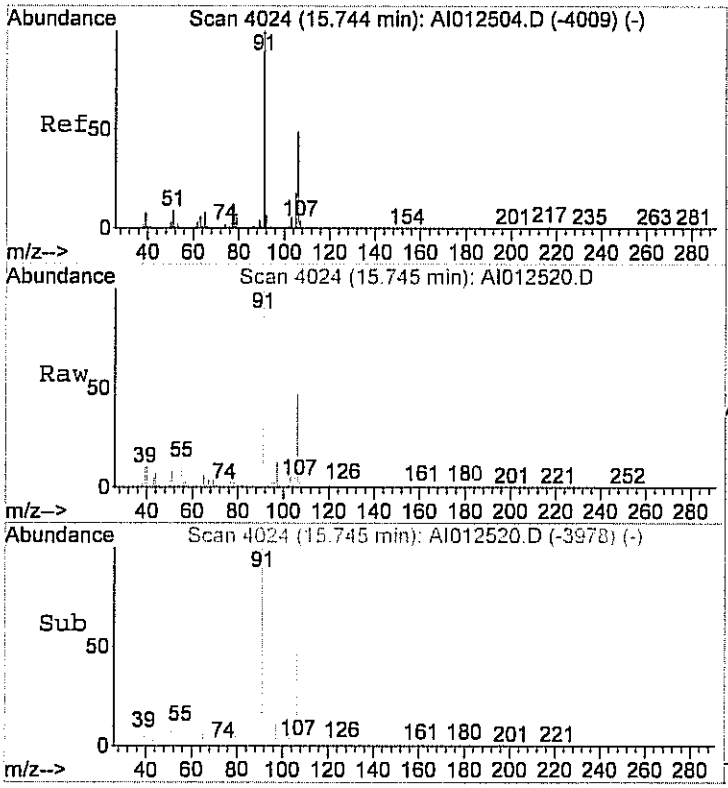


#53
m&p-xylene
Concen: 1.09 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 49037

Ion	Ratio	Lower	Upper
91	100		
106	46.8	29.9	69.9

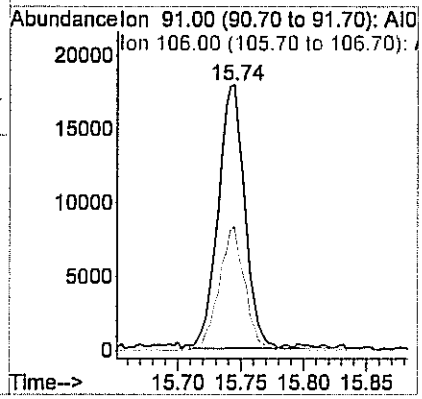


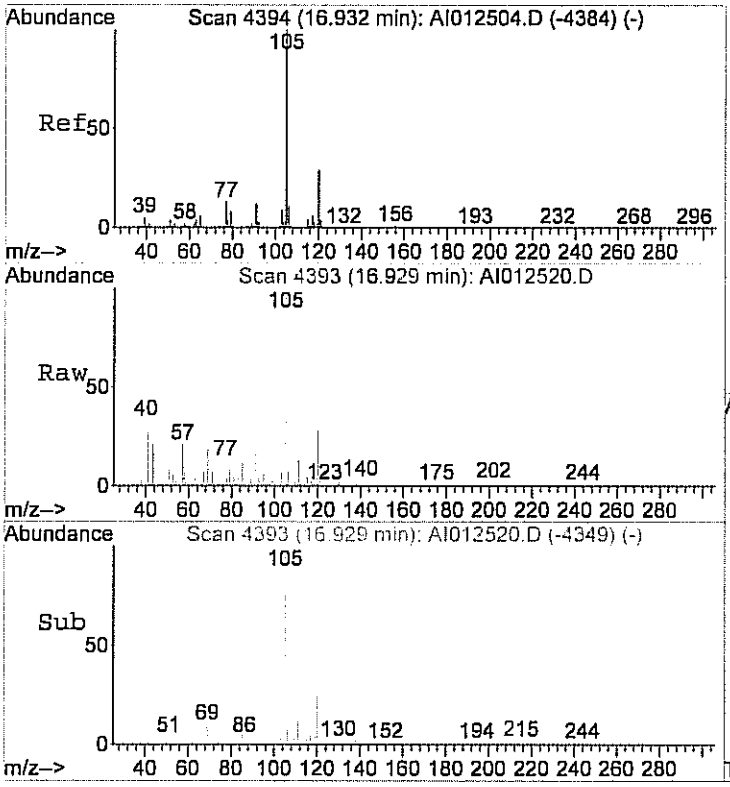


#56
o-xylene
Concen: 0.50 ppb
RT: 15.74 min Scan# 4024
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion: 91 Resp: 26642

Ion	Ratio	Lower	Upper
91	100		
106	44.7	29.0	69.0

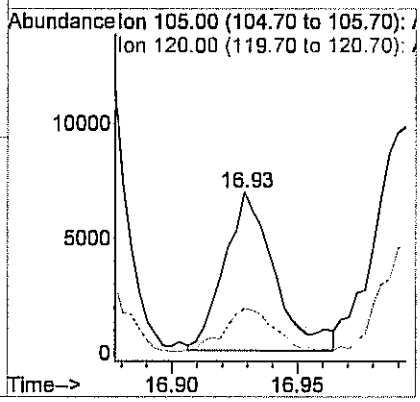


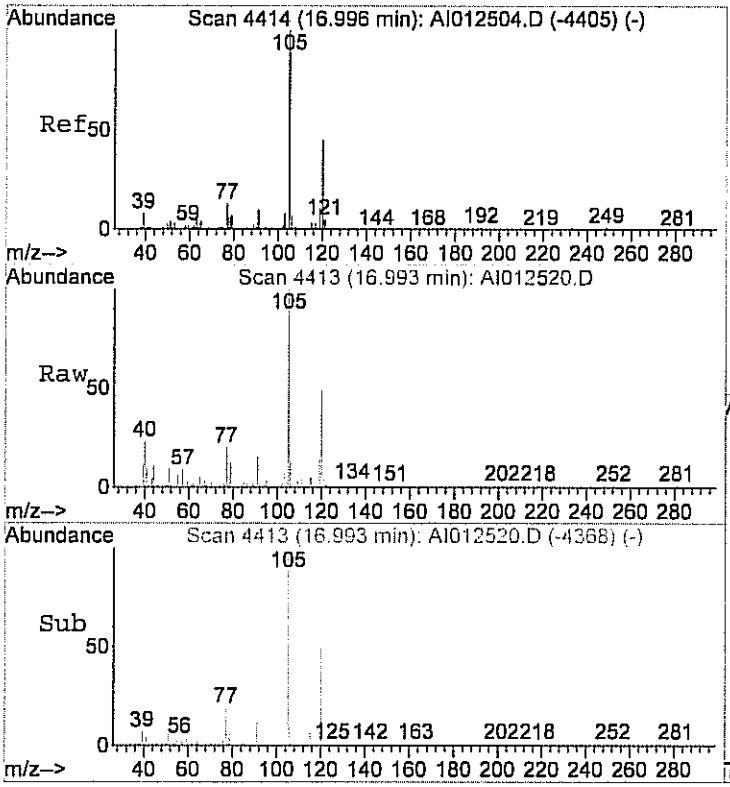


#59
4-ethyltoluene
Concen: 0.19 ppb
RT: 16.93 min Scan# 4393
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 9565

Ion	Ratio	Lower	Upper
105	100		
120	28.8	10.3	50.3

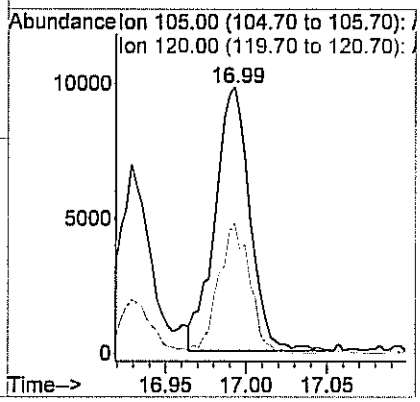


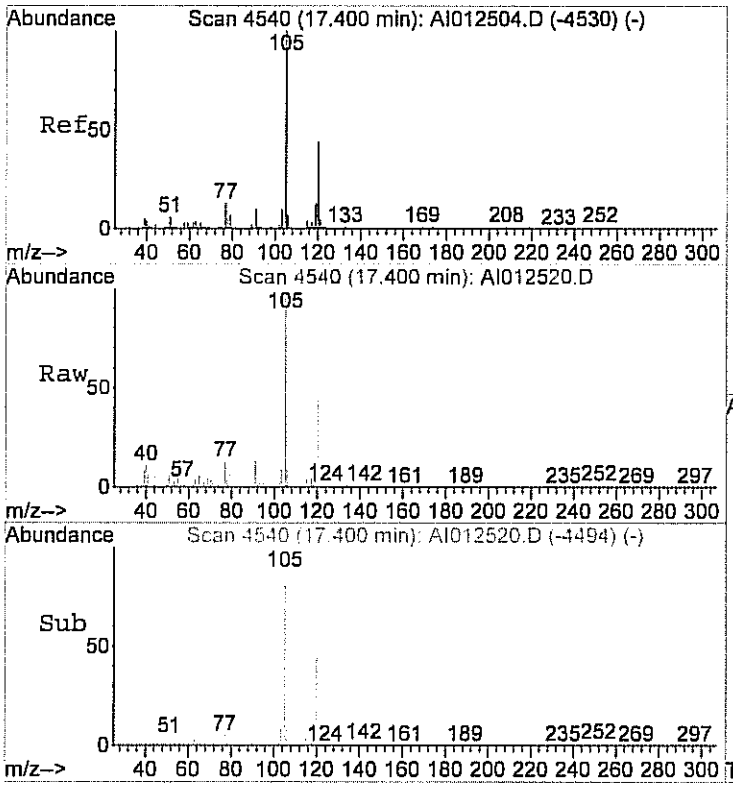


#60
1,3,5-trimethylbenzene
Concen: 0.34 ppb
RT: 16.99 min Scan# 4413
Delta R.T. -0.01 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 14815

Ion	Ratio	Lower	Upper
105	100		
120	44.0	28.6	68.6

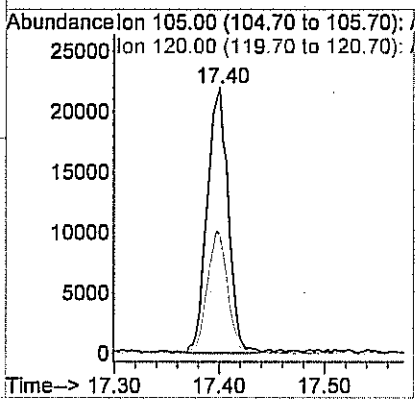




#61
1,2,4-trimethylbenzene
Concen: 0.91 ppb
RT: 17.40 min Scan# 4540
Delta R.T. -0.00 min
Lab File: AI012520.D
Acq: 25 Jan 2011 7:50 pm

Tgt Ion:105 Resp: 31357

Ion	Ratio	Lower	Upper
105	100		
120	44.4	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012715.D Vial: 4
Acq On : 27 Jan 2011 6:01 pm Operator: RJP
Sample : C1101031-002A 10X Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 18:22:08 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17666	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	46549	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	40921	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	18764	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue
12) Acetone	4.24	58	9677	2.03	ppb	# 60
23) Methyl Ethyl Ketone	6.83	43	12812m p	0.50	ppb	
27) Chloroform	7.72	83	293393	7.90	ppb	100
28) Tetrahydrofuran	7.97	42	4017m p	0.52	ppb	
31) 1,1,1-trichloroethane	8.50	97	7921	0.27	ppb	99
38) Trichloroethene	10.58	130	201806	9.88	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

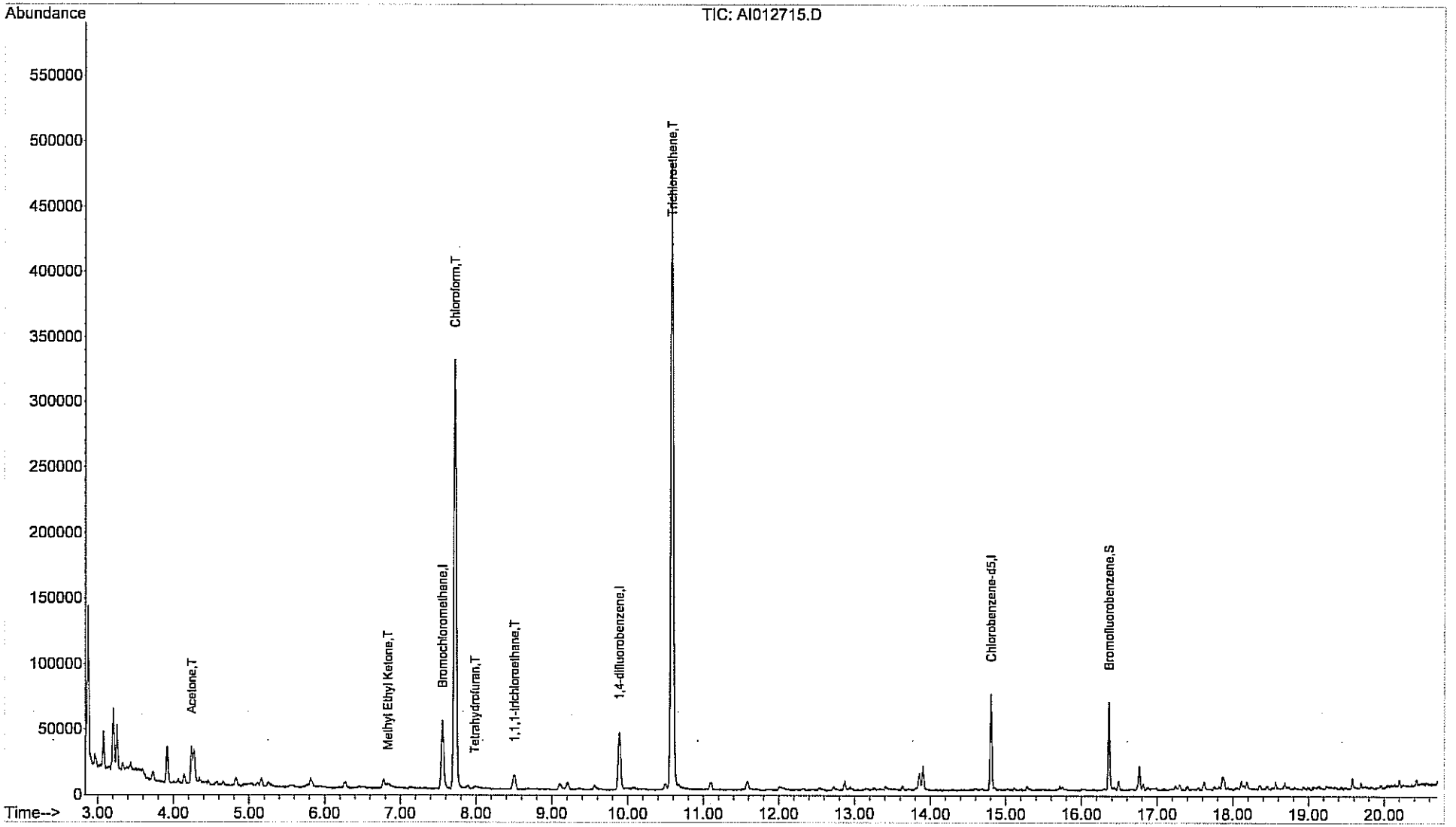
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012715.D
Acq On : 27 Jan 2011 6:01 pm
Sample : C1101031-002A 10X
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:10 2011

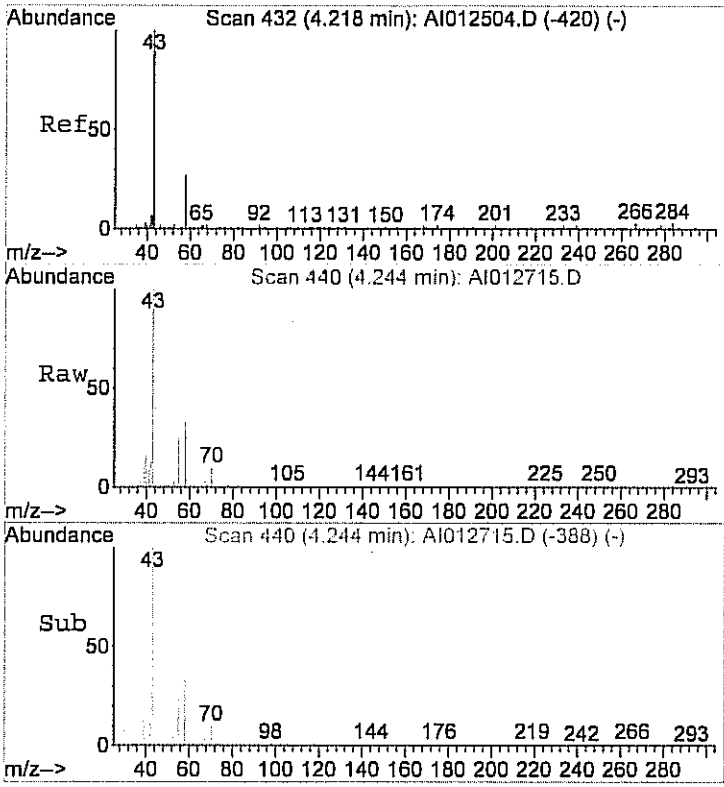
Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



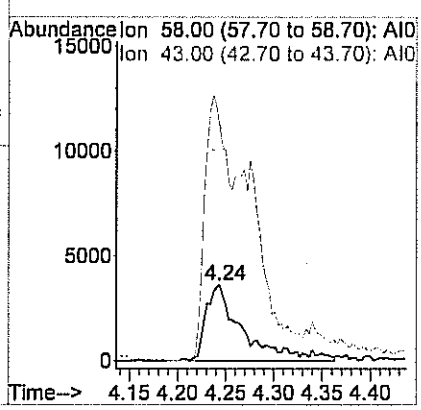
Centek laboratories, LLC

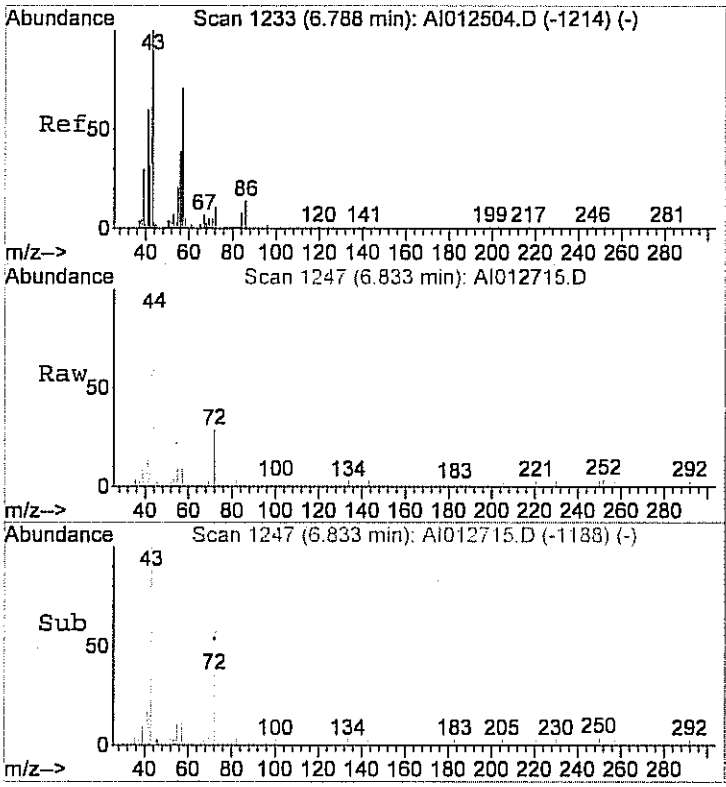


#12
Acetone
Concen: 2.03 ppb
RT: 4.24 min Scan# 440
Delta R.T. 0.02 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 58 Resp: 9677

Ion	Ratio	Lower	Upper
58	100		
43	448.0	329.0	389.0#

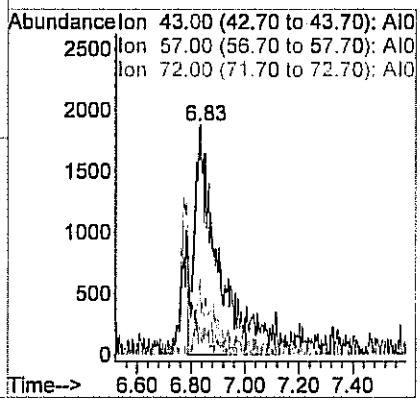


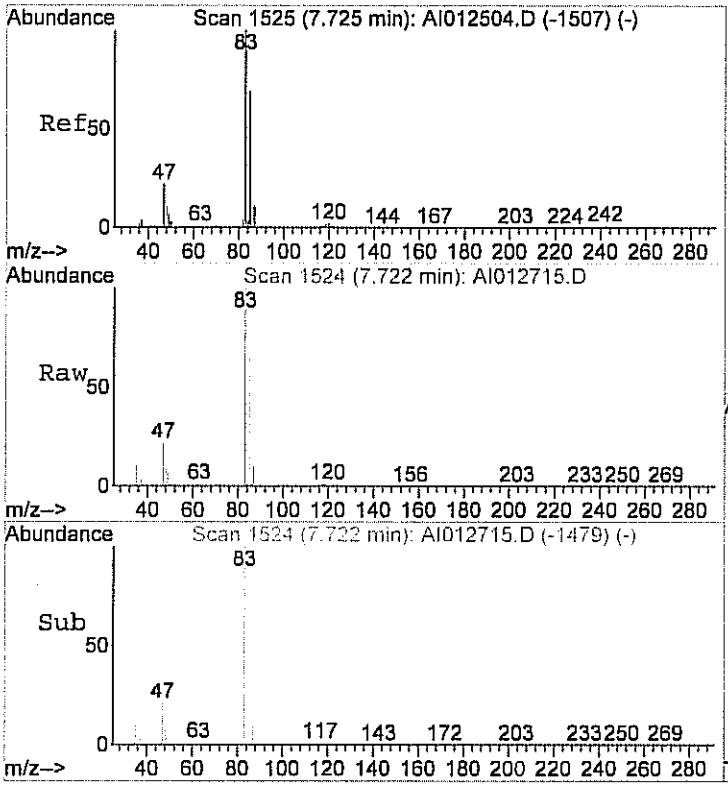


#23
Methyl Ethyl Ketone
Concen: 0.50 ppb m
RT: 6.83 min Scan# 1247
Delta R.T. 0.04 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 43 Resp: 12812

Ion	Ratio	Lower	Upper
43	100		
57	27.9	37.8	77.8#
72	0.0	1.1	41.1#

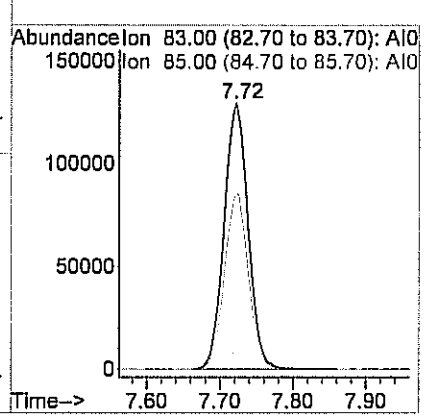


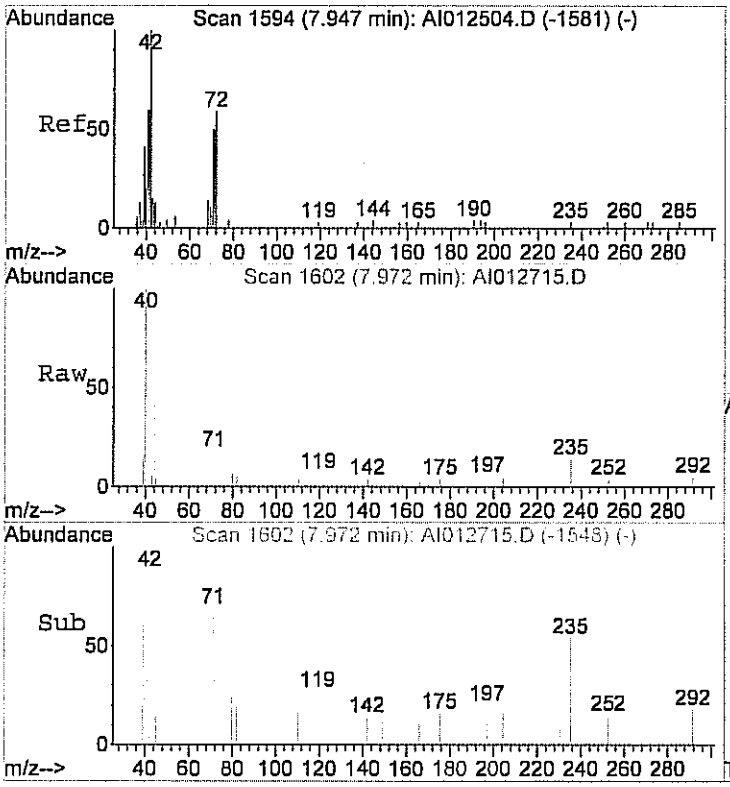


#27
Chloroform
Concen: 7.90 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 83 Resp: 293393

Ion	Ratio	Lower	Upper
83	100		
85	66.5	46.5	86.5

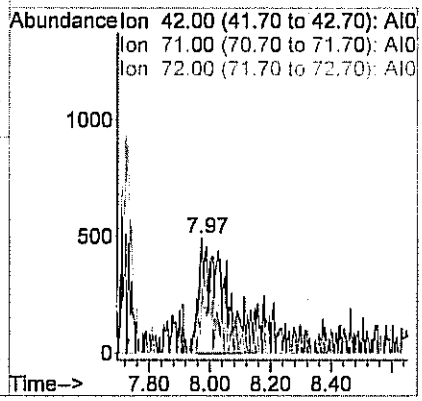


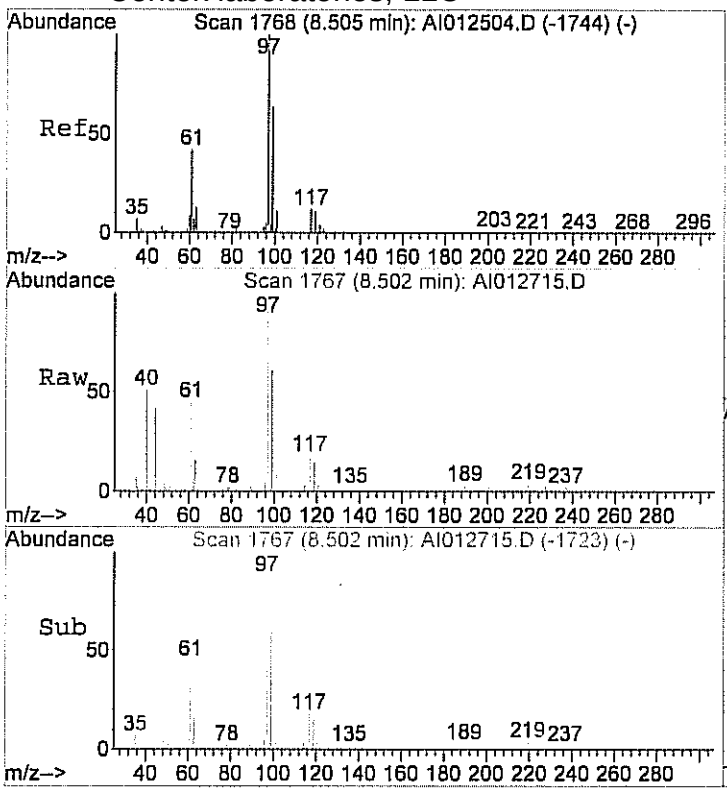


#28
Tetrahydrofuran
Concen: 0.52 ppb m
RT: 7.97 min Scan# 1602
Delta R.T. 0.02 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 42 Resp: 4017

Ion	Ratio	Lower	Upper
42	100		
71	16.0	37.9	77.9#
72	14.8	38.0	78.0#

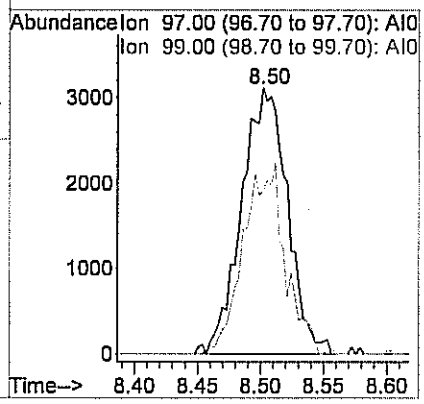


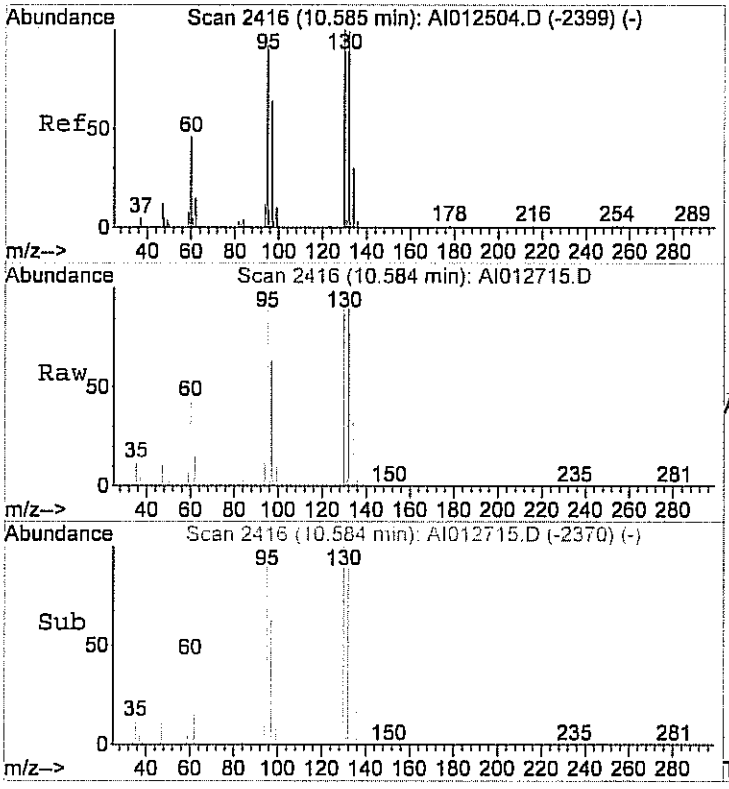


#31
1,1,1-trichloroethane
Concen: 0.27 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion: 97 Resp: 7921

Ion	Ratio	Lower	Upper
97	100		
99	64.5	45.4	85.4

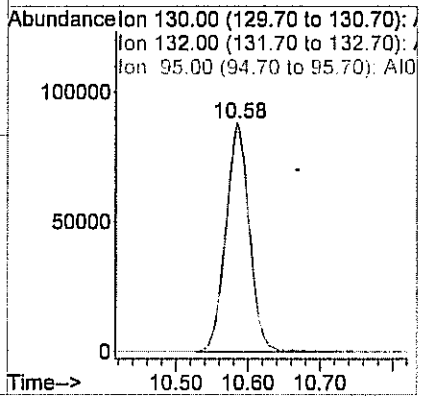




#38
Trichloroethene
Concen: 9.88 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012715.D
Acq: 27 Jan 2011 6:01 pm

Tgt Ion:130 Resp: 201806

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	99.5	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012810.D Vial: 2
Acq On : 28 Jan 2011 4:23 pm Operator: RJP
Sample : C1101031-002A 90X Inst : MSD #1
Misc : C1101031-002A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 16:44:33 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	29161	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	78493	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	71639	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	35076	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue
27) Chloroform	7.72	83	84604	1.38	ppb	97
38) Trichloroethene	10.58	130	52173	1.51	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012810.D A106_1UG.M Tue Feb 08 15:45:39 2011 MSD1 Page 1

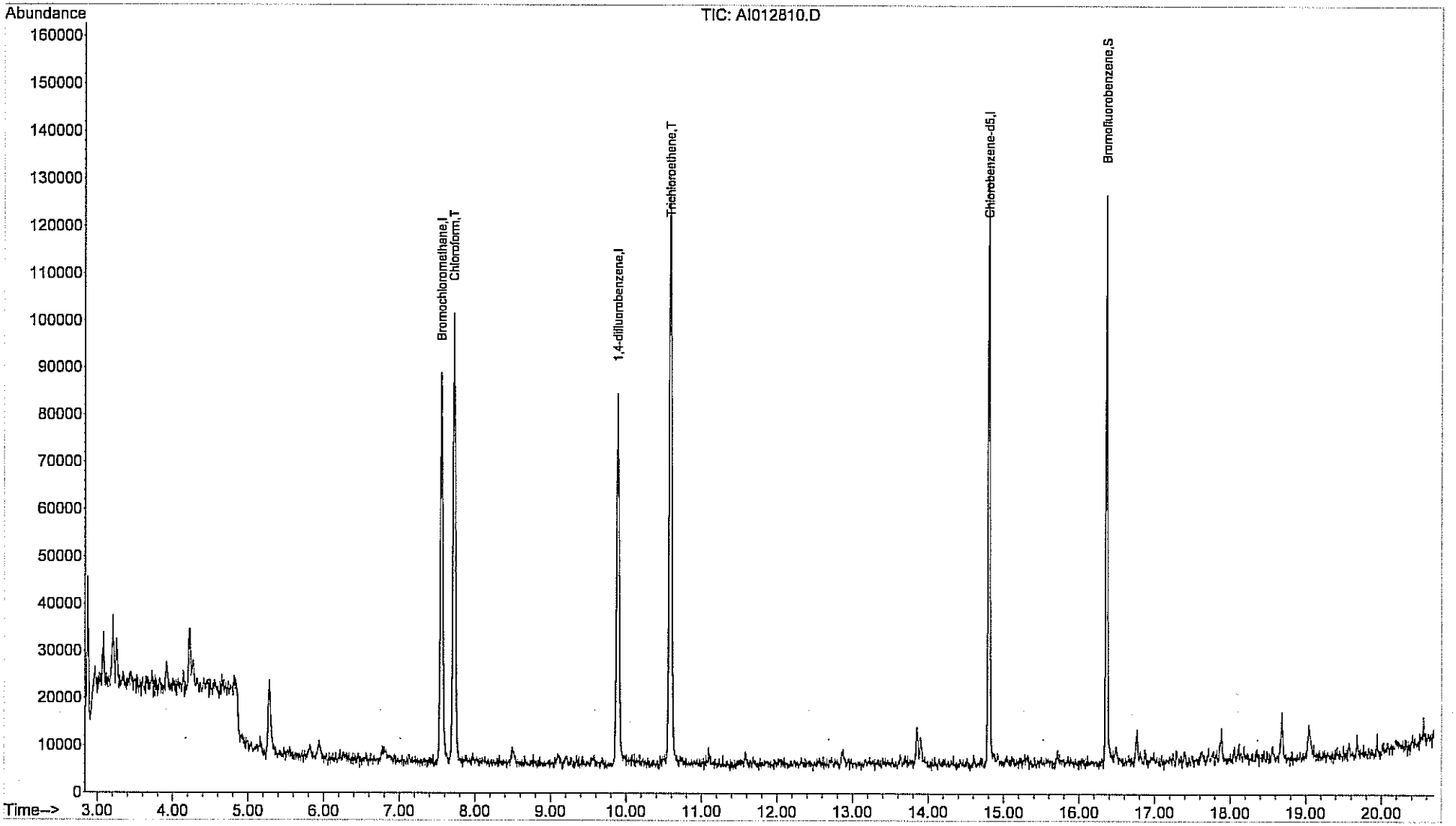
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012810.D
Acq On : 28 Jan 2011 4:23 pm
Sample : C1101031-002A 90X
Misc : C1101031-002A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:11 2011

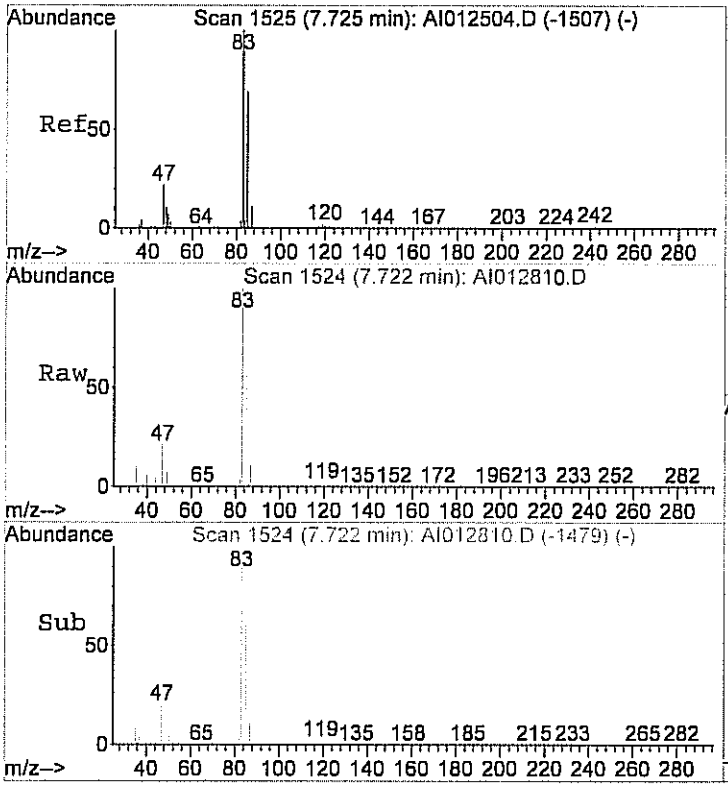
Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



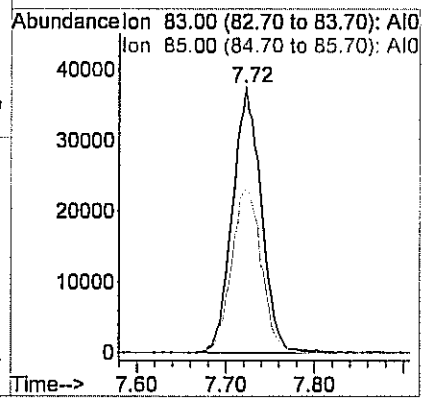
Centek laboratories, LLC

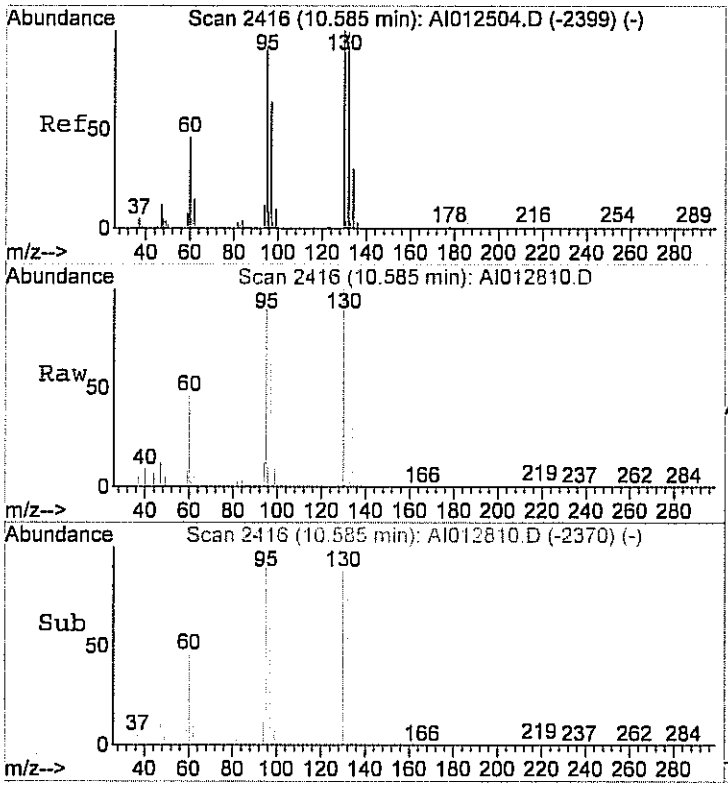


#27
Chloroform
Concen: 1.38 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012810.D
Acq: 28 Jan 2011 4:23 pm

Tgt Ion: 83 Resp: 84604

Ion	Ratio	Lower	Upper
83	100		
85	64.3	46.5	86.5

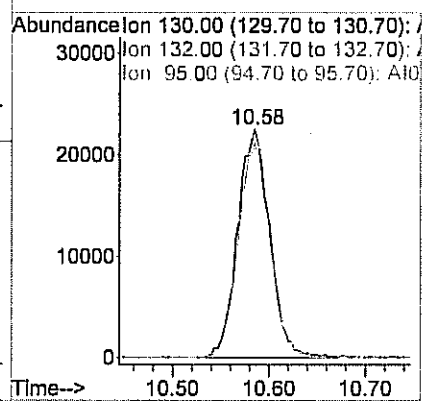




#38
Trichloroethene
Concen: 1.51 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012810.D
Acq: 28 Jan 2011 4:23 pm

Tgt Ion:130 Resp: 52173

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	98.3	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	2.8	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	0.33	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	2.7	1.5		ppbV	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	2.0	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
4-ethyltoluene	1.6	0.15		ppbV	1	1/25/2011 8:22:00 PM
Acetone	21	12		ppbV	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzene	1.4	0.15		ppbV	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromodichloromethane	0.42	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon disulfide	0.97	0.15		ppbV	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Chloroform	9.4	1.5		ppbV	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	0.27	0.15		ppbV	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	2.2	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 11	0.56	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 113	0.44	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Heptane	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
m&p-Xylene	3.6	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	1.8	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	6.3	3.0		ppbV	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
o-Xylene	1.4	1.5	J	ppbV	10	1/27/2011 7:03:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Styrene	1.1	0.15		ppbV	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	12	6.0		ppbV	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	12	1.5		ppbV	10	1/27/2011 7:03:00 PM
Toluene	4.1	1.5		ppbV	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Trichloroethene	400	120		ppbV	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:22:00 PM
Surr: Bromofluorobenzene	127	70-130		%REC	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	16	8.3		ug/m3	10	1/27/2011 7:03:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:22:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethane	1.4	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
1,2,4-Trimethylbenzene	13	7.5		ug/m3	10	1/27/2011 7:03:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:22:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
1,3,5-Trimethylbenzene	9.9	0.75		ug/m3	1	1/25/2011 8:22:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:22:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/25/2011 8:22:00 PM
4-ethyltoluene	8.1	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Acetone	50	29		ug/m3	40	1/27/2011 7:34:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:22:00 PM
Benzene	4.7	0.49		ug/m3	1	1/25/2011 8:22:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:22:00 PM
Bromodichloromethane	2.9	1.0		ug/m3	1	1/25/2011 8:22:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:22:00 PM
Carbon disulfide	3.1	0.47		ug/m3	1	1/25/2011 8:22:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:22:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:22:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:22:00 PM
Chloroform	47	7.4		ug/m3	10	1/27/2011 7:03:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,2-Dichloroethene	1.1	0.60		ug/m3	1	1/25/2011 8:22:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:22:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:22:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:22:00 PM
Ethylbenzene	9.8	0.66		ug/m3	1	1/25/2011 8:22:00 PM
Freon 11	3.2	0.86		ug/m3	1	1/25/2011 8:22:00 PM
Freon 113	3.4	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786VMP0302AA
Lab Order:	C1101031	**Tag Number:**	241
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-003A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/25/2011 8:22:00 PM
Heptane	4.7	0.62		ug/m3	1	1/25/2011 8:22:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:22:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:22:00 PM
m&p-Xylene	16	13		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Butyl Ketone	7.6	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl Ethyl Ketone	19	9.0		ug/m3	10	1/27/2011 7:03:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:22:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:22:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:22:00 PM
o-Xylene	6.2	6.6	J	ug/m3	10	1/27/2011 7:03:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:22:00 PM
Styrene	4.8	0.65		ug/m3	1	1/25/2011 8:22:00 PM
Tetrachloroethylene	85	41		ug/m3	40	1/27/2011 7:34:00 PM
Tetrahydrofuran	36	4.5		ug/m3	10	1/27/2011 7:03:00 PM
Toluene	16	5.7		ug/m3	10	1/27/2011 7:03:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:22:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:22:00 PM
Trichloroethene	2200	660		ug/m3	810	1/28/2011 4:57:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:22:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/25/2011 8:22:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012521.D Vial: 4
Acq On : 25 Jan 2011 8:22 pm Operator: RJP
Sample : C1101031-003A Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 20:43:09 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20918	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	66726	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	68119	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	43564	1.27	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 127.00%				
Target Compounds							Qvalue
11) Freon 11	4.06	101	20366	0.56	ppb		99
12) Acetone	4.20	58	319503	56.63	ppb		100
15) Freon 113	4.82	101	18345	0.44	ppb		93
18) Carbon disulfide	5.15	76	51813	0.97	ppb		100
21) 1,1-dichloroethane	6.27	63	9954	0.33	ppb		94
23) Methyl Ethyl Ketone	6.73	43	462567	15.34	ppb	#	51
24) cis-1,2-dichloroethene	7.14	61	5543	0.27	ppb		92
27) Chloroform	7.73	83	466102	10.60	ppb		99
28) Tetrahydrofuran	7.88	42	208006	22.61	ppb		91
31) 1,1,1-trichloroethane	8.51	97	123802	2.91	ppb		98
34) Benzene	9.11	78	66538	1.44	ppb		98
37) Heptane	10.49	43	18931	1.14	ppb	#	54
38) Trichloroethene	10.59	130	13078428	446.46	ppb		95
40) Bromodichloromethane	11.10	83	22194	0.42	ppb		99
45) Toluene	12.87	92	192868	6.79	ppb		99
48) Methyl Butyl Ketone	13.37	43	32299	1.82	ppb		93
50) Tetrachloroethylene	13.91	164	785504	24.04	ppb		100
52) Ethylbenzene	15.12	91	121138	2.23	ppb		98
53) m&p-xylene	15.28	91	353709	7.93	ppb		98
54) Styrene	15.71	104	30569	1.11	ppb	#	65
56) o-xylene	15.74	91	157462	2.96	ppb		96
59) 4-ethyltoluene	16.93	105	80657	1.63	ppb		98
60) 1,3,5-trimethylbenzene	16.99	105	86385	1.99	ppb		98
61) 1,2,4-trimethylbenzene	17.40	105	259653	7.59	ppb		97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

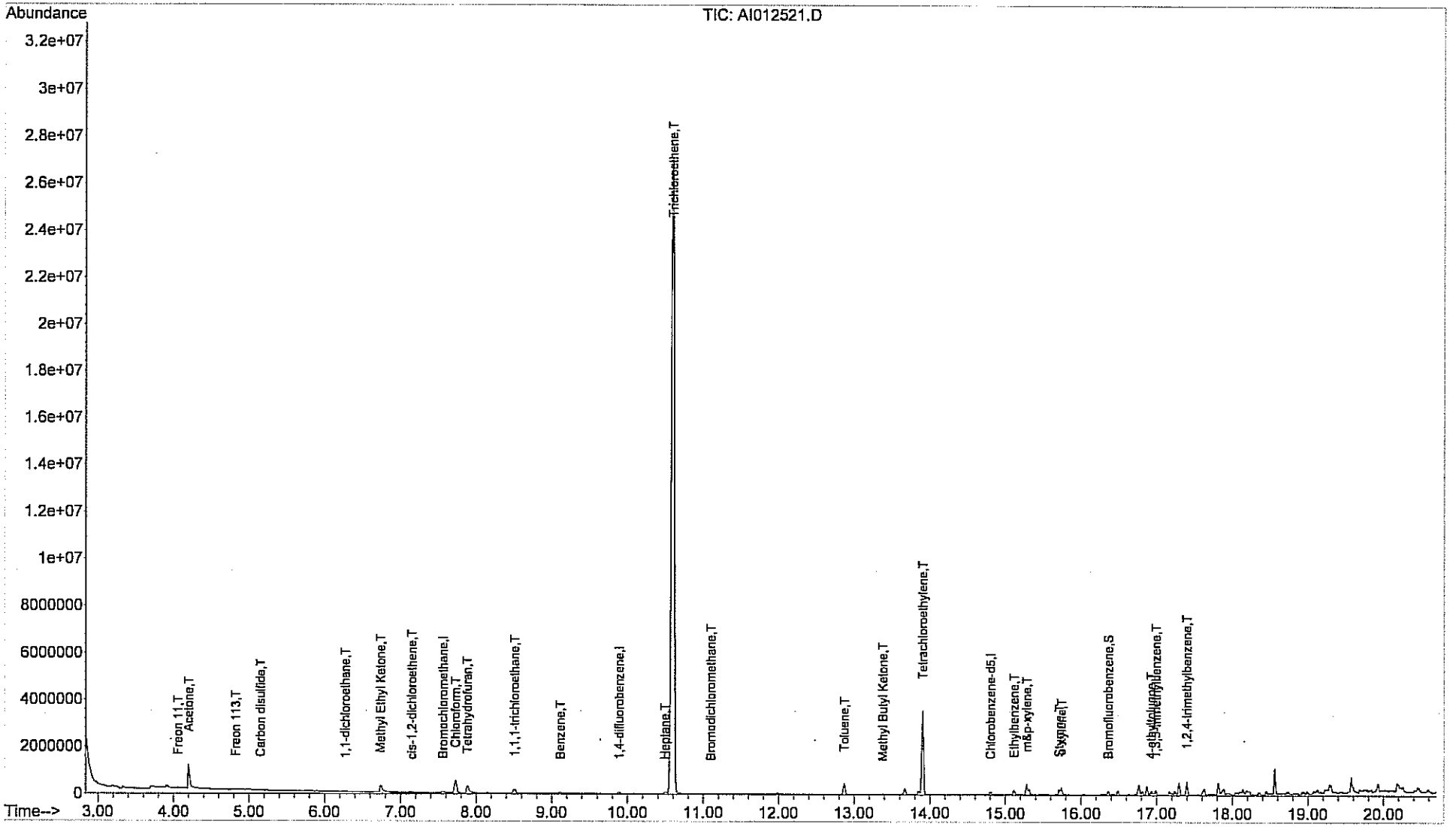
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012521.D
Acq On : 25 Jan 2011 8:22 pm
Sample : C1101031-003A
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:17 2011

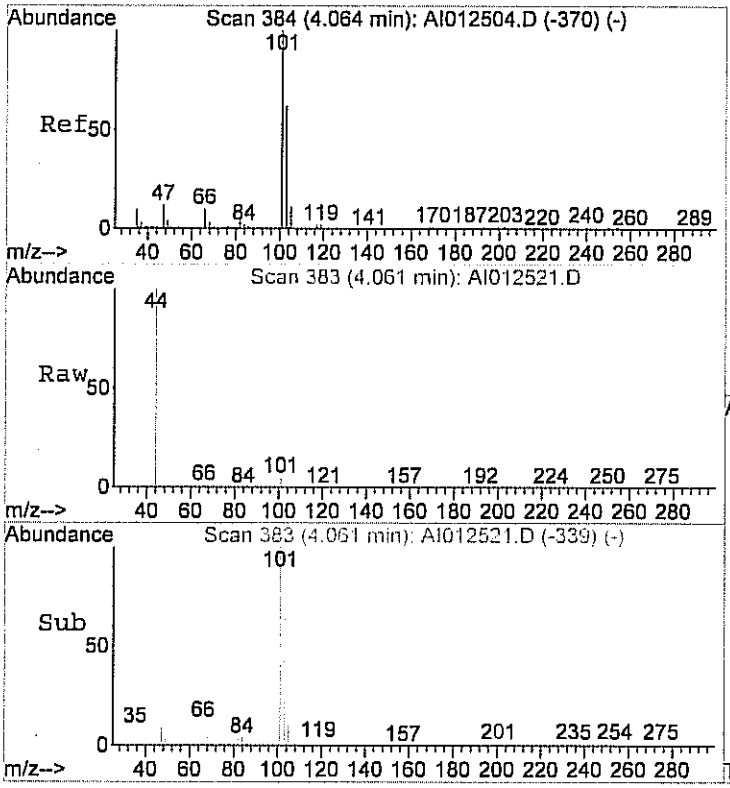
Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



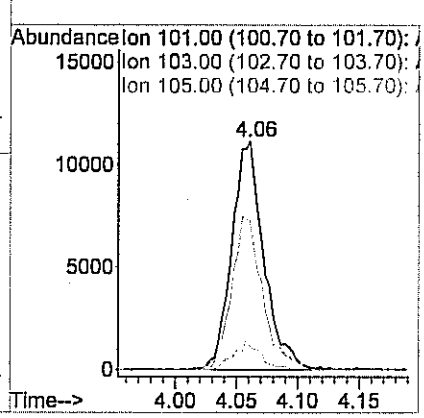
Centek laboratories, LLC

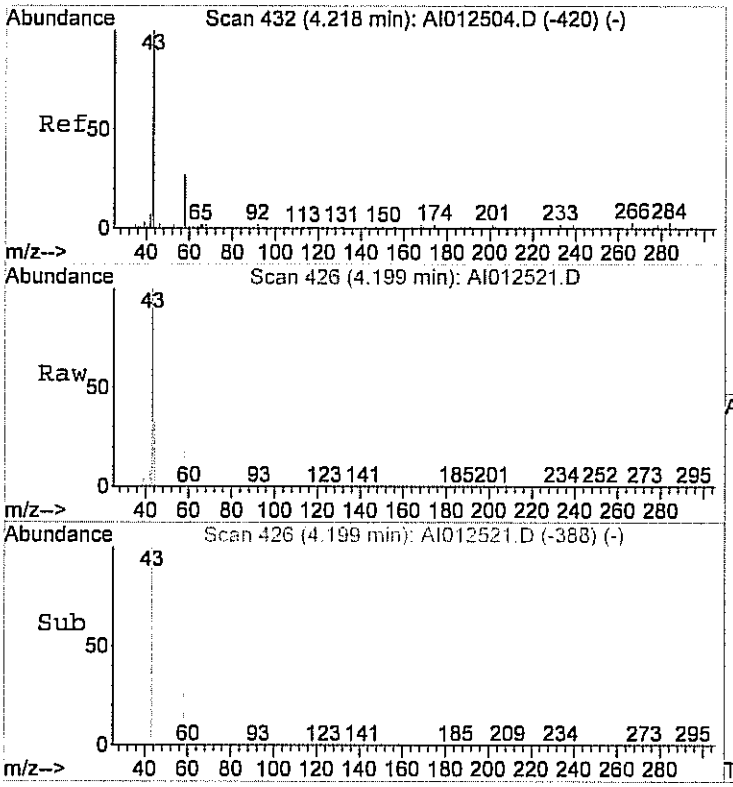


#11
Freon 11
Concen: 0.56 ppb
RT: 4.06 min Scan# 383
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:101 Resp: 20366

Ion	Ratio	Lower	Upper
101	100		
103	65.5	46.3	86.3
105	10.8	0.0	31.0

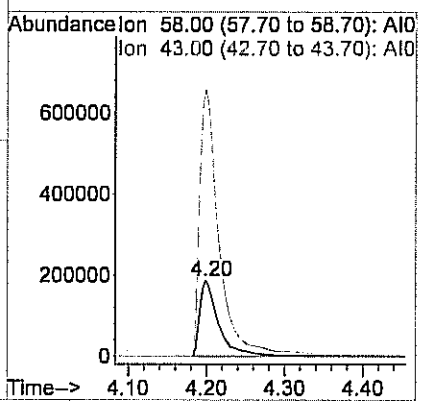


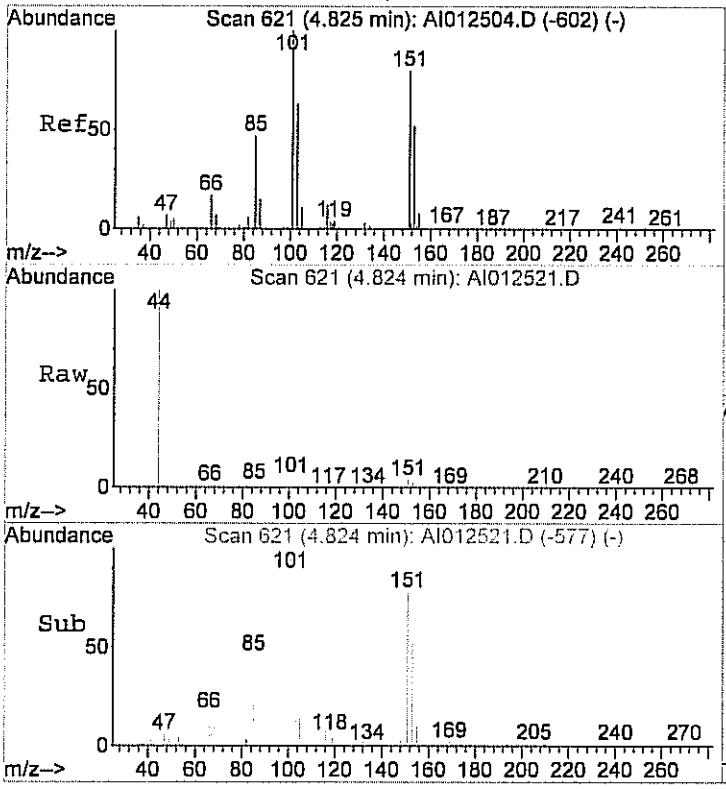


#12
Acetone
Concen: 56.63 ppb
RT: 4.20 min Scan# 426
Delta R.T. -0.03 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 58 Resp: 319503

Ion	Ratio	Lower	Upper
58	100		
43	358.3	329.0	389.0

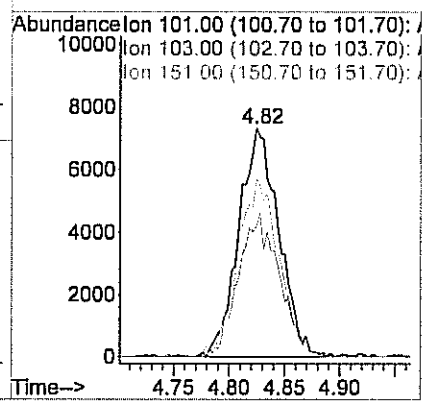


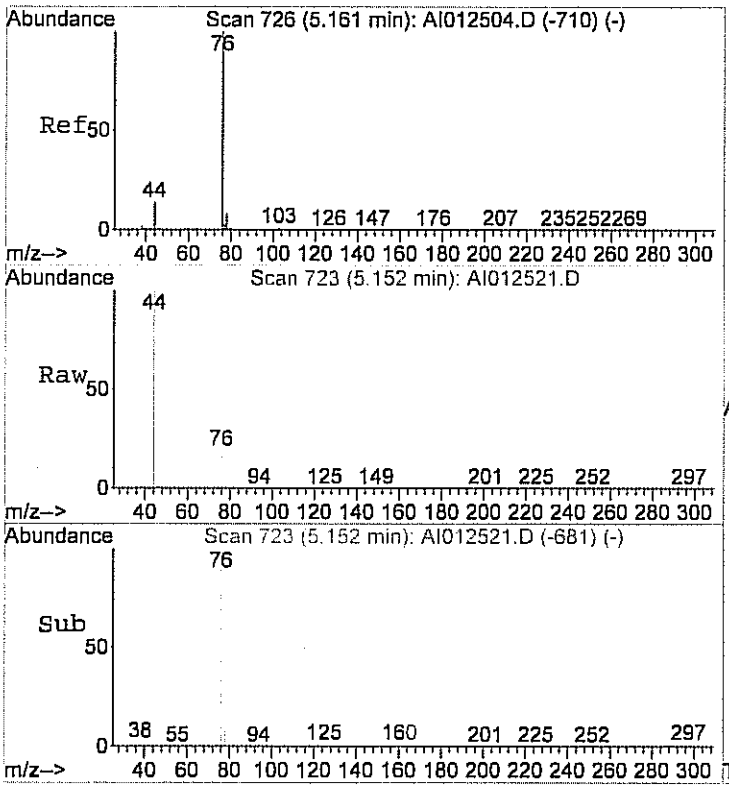


#15
Freon 113
Concen: 0.44 ppb
RT: 4.82 min Scan# 621
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:101 Resp: 18345

Ion	Ratio	Lower	Upper
101	100		
103	64.4	44.7	84.7
151	80.6	71.0	111.0

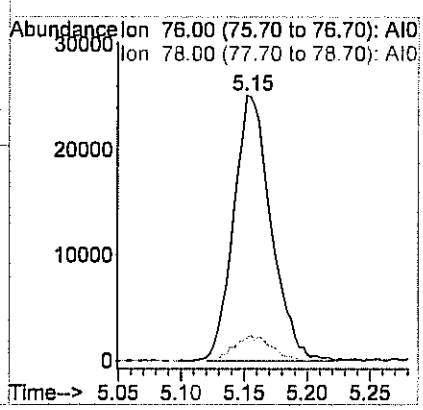


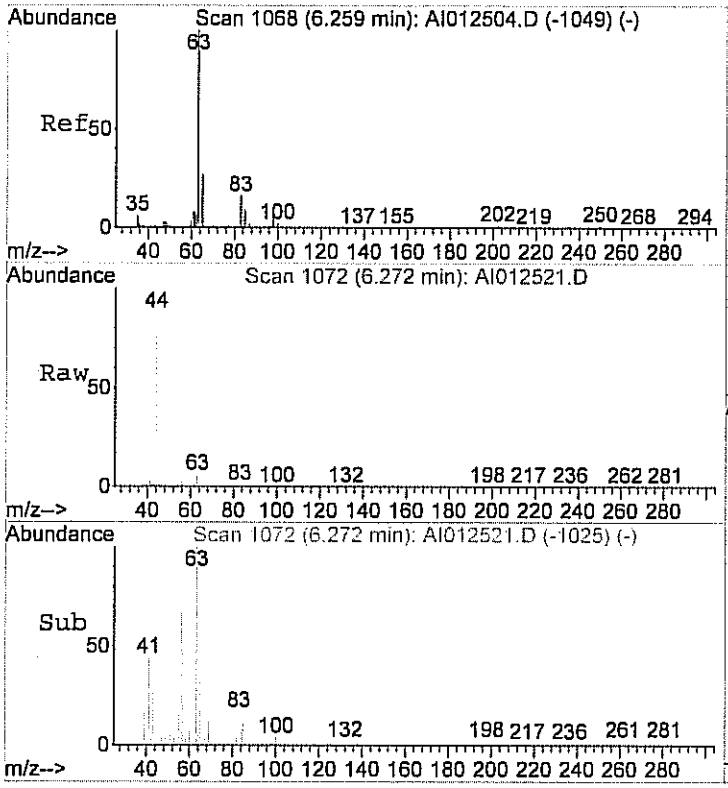


#18
Carbon disulfide
Concen: 0.97 ppb
RT: 5.15 min Scan# 723
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 76 Resp: 51813

Ion	Ratio	Lower	Upper
76	100		
78	9.9	0.0	30.1

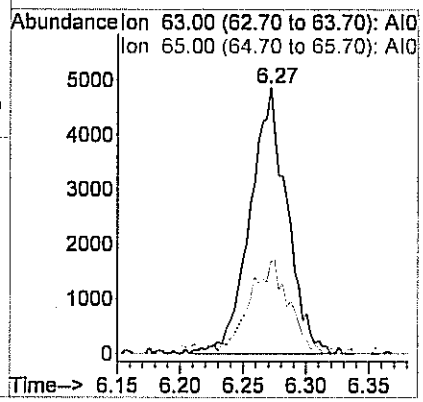


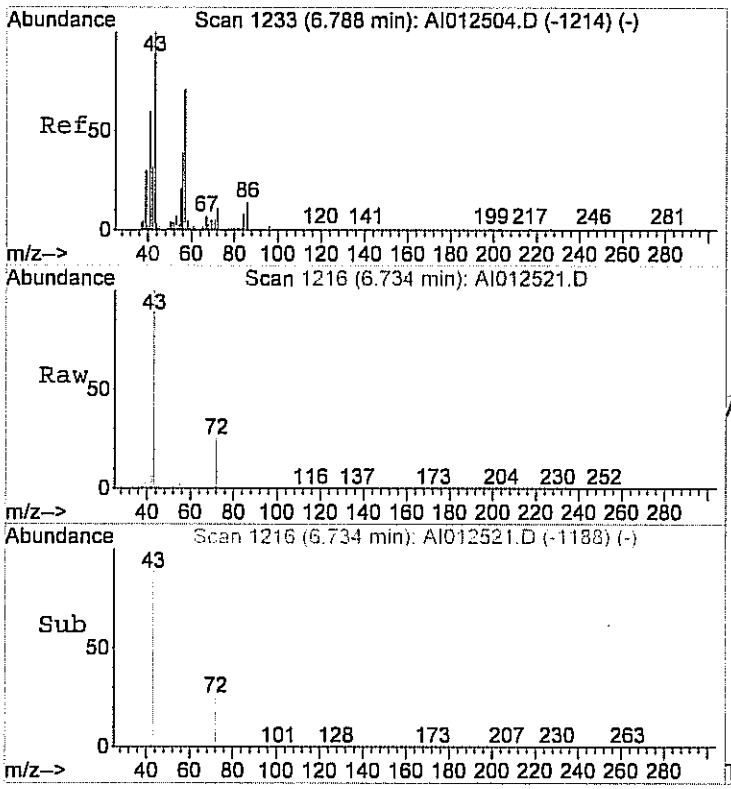


#21
1,1-dichloroethane
Concen: 0.33 ppb
RT: 6.27 min Scan# 1072
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 63 Resp: 9954

Ion	Ratio	Lower	Upper
63	100		
65	37.1	13.8	53.8

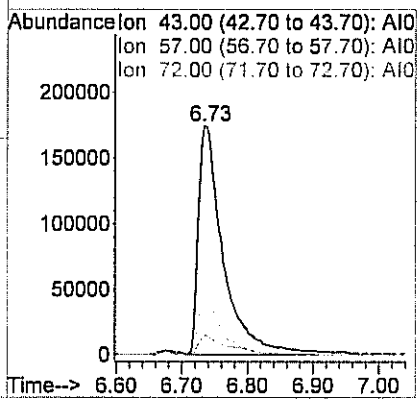


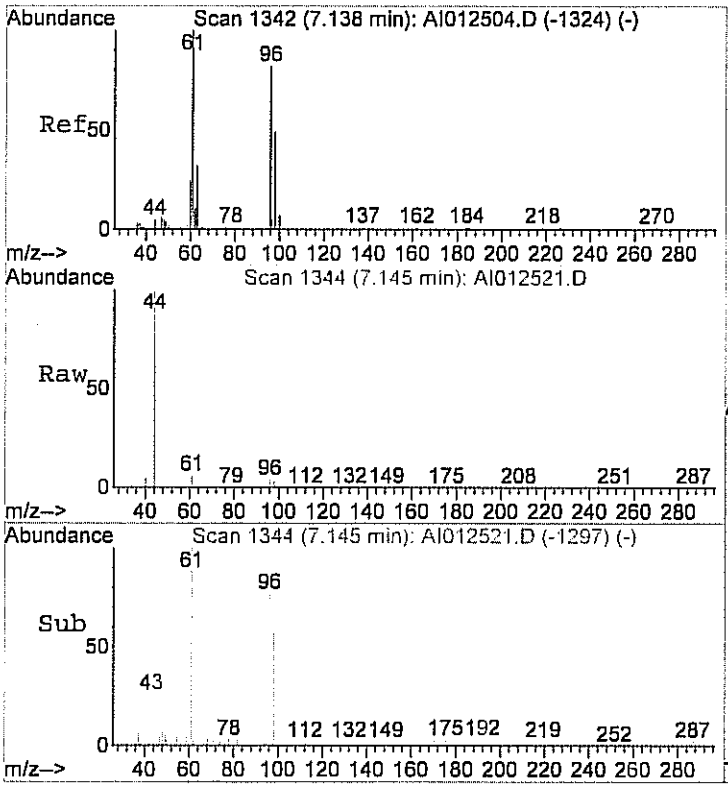


#23
Methyl Ethyl Ketone
Concen: 15.34 ppb
RT: 6.73 min Scan# 1216
Delta R.T. -0.06 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 462567

Ion	Ratio	Lower	Upper
43	100		
57	9.8	37.8	77.8#
72	23.9	1.1	41.1

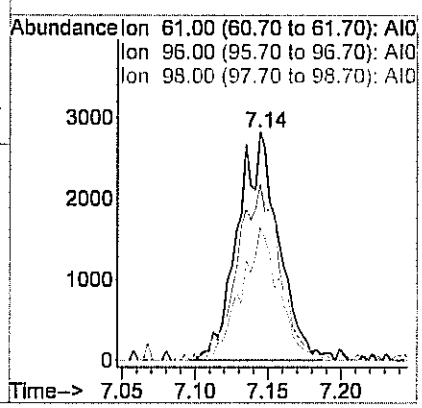


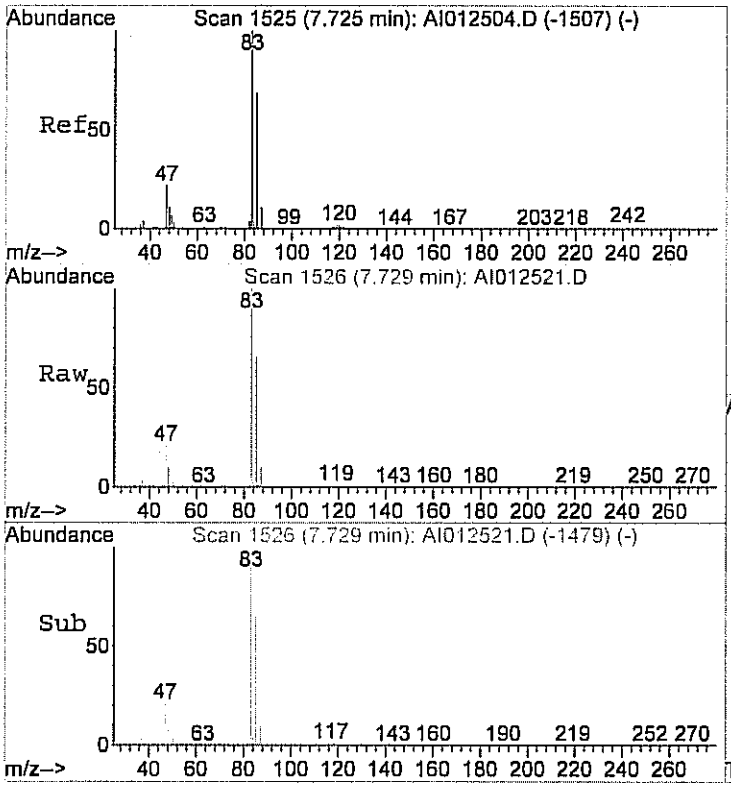


#24
cis-1,2-dichloroethene
Concen: 0.27 ppb
RT: 7.14 min Scan# 1344
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 61 Resp: 5543

Ion	Ratio	Lower	Upper
61	100		
96	79.6	68.1	108.1
98	53.3	37.3	77.3

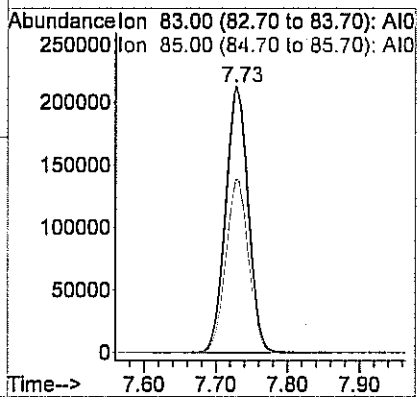


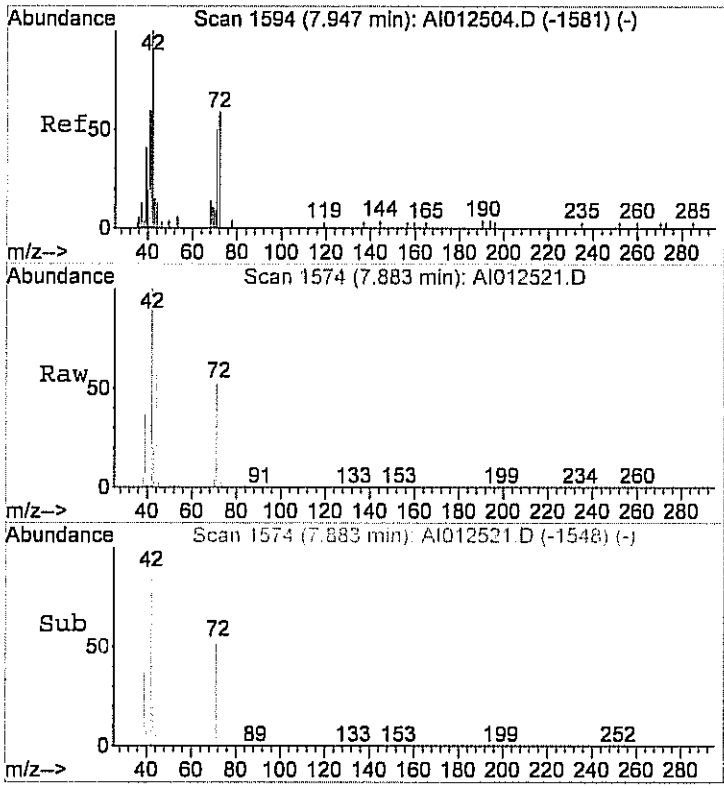


#27
Chloroform
Concen: 10.60 ppb
RT: 7.73 min Scan# 1526
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 83 Resp: 466102

Ion	Ratio	Lower	Upper
83	100		
85	65.6	46.5	86.5

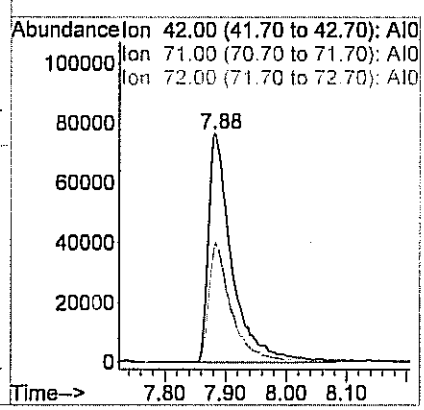


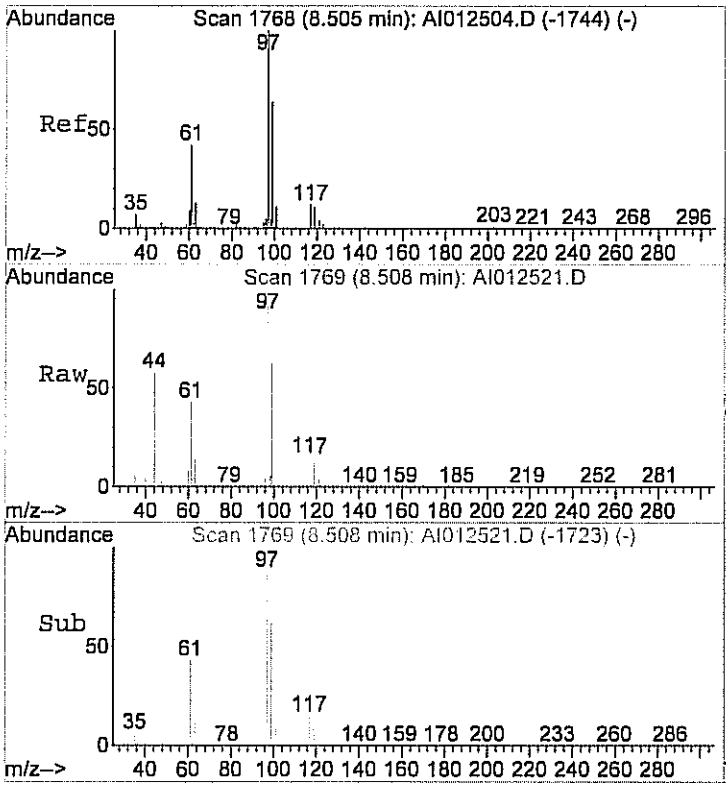


#28
Tetrahydrofuran
Concen: 22.61 ppb
RT: 7.88 min Scan# 1574
Delta R.T. -0.07 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 42 Resp: 208006

Ion	Ratio	Lower	Upper
42	100		
71	51.2	37.9	77.9
72	51.0	38.0	78.0

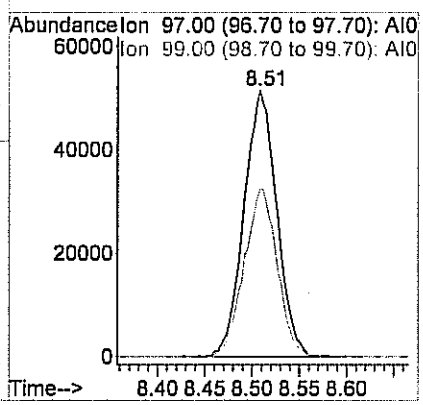


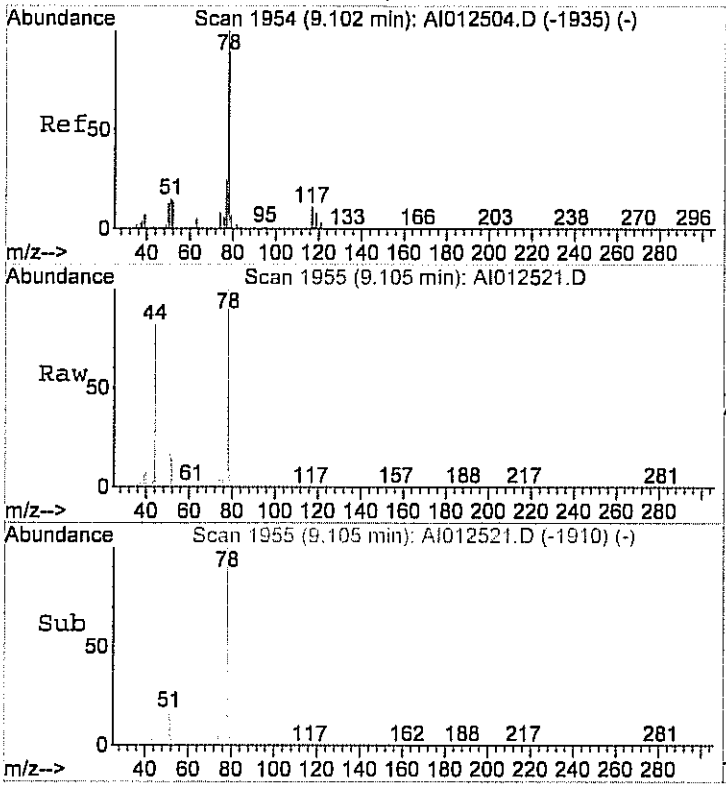


#31
1,1,1-trichloroethane
Concen: 2.91 ppb
RT: 8.51 min Scan# 1769
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 97 Resp: 123802

Ion	Ratio	Lower	Upper
97	100		
99	63.8	45.4	85.4

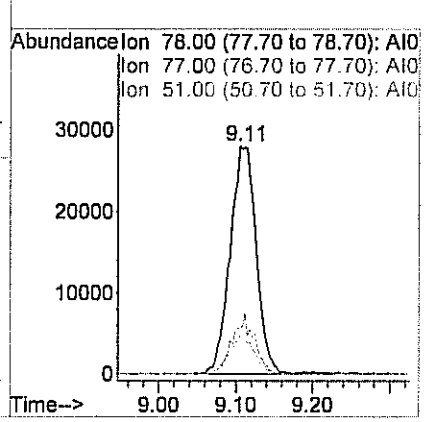


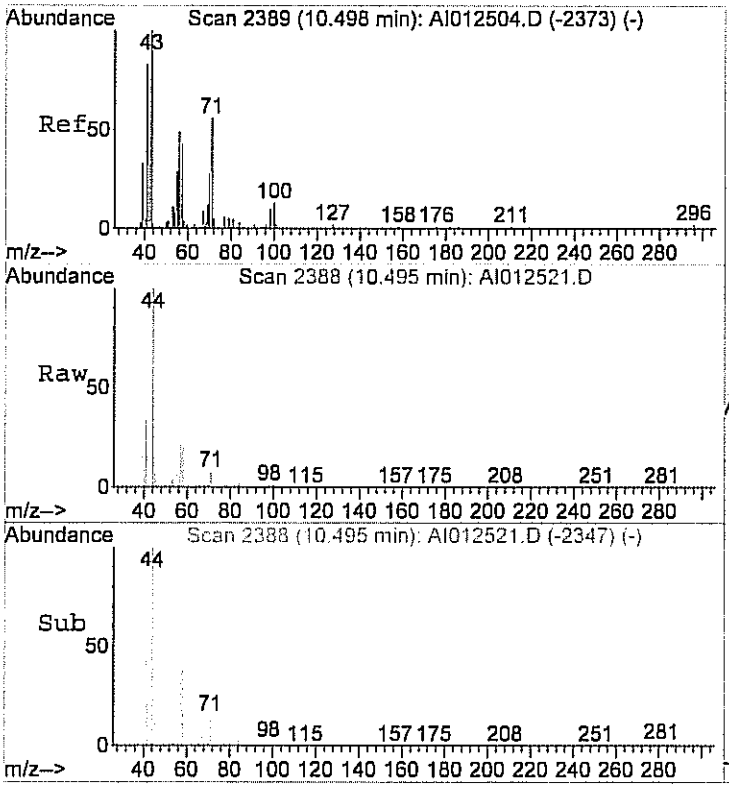


#34
Benzene
Concen: 1.44 ppb
RT: 9.11 min Scan# 1955
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 78 Resp: 66538

Ion	Ratio	Lower	Upper
78	100		
77	22.3	2.6	42.6
51	16.0	0.0	34.0

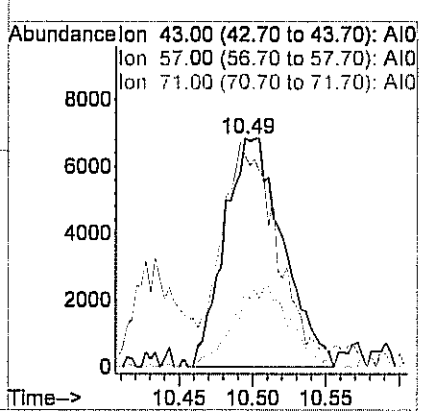


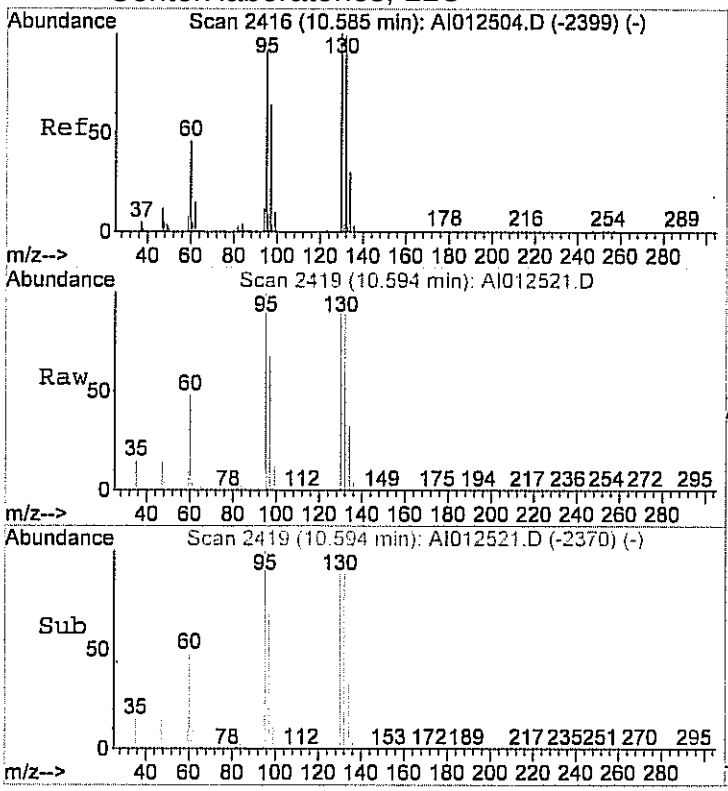


#37
Heptane
Concen: 1.14 ppb
RT: 10.49 min Scan# 2388
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 18931

Ion	Ratio	Lower	Upper
43	100		
57	95.3	37.9	77.9#
71	33.0	46.6	86.6#

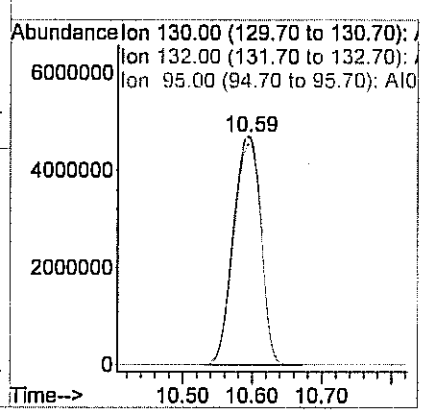


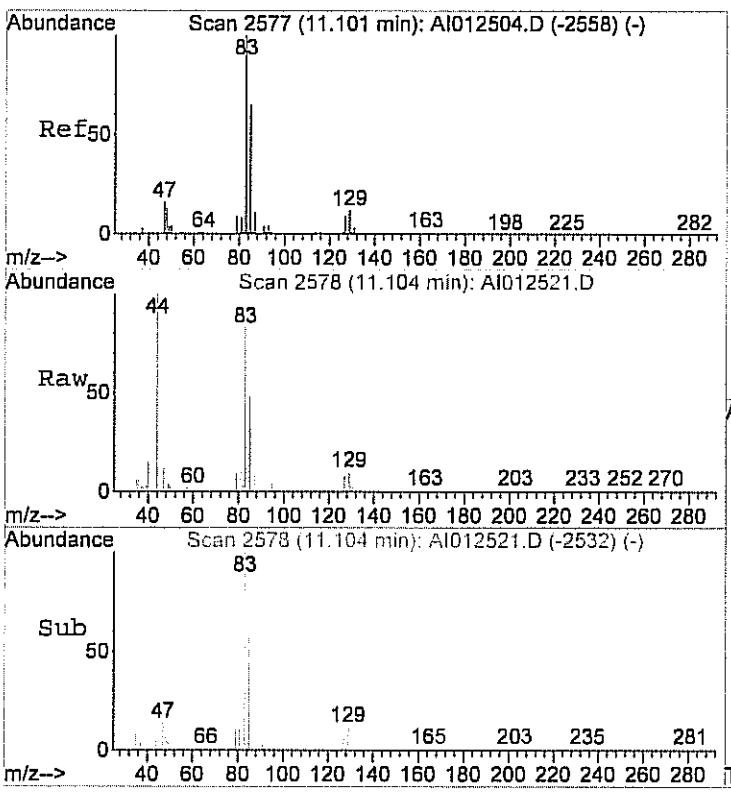


#38
Trichloroethene
Concen: 446.46 ppb
RT: 10.59 min Scan# 2419
Delta R.T. 0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:130 Resp:13078428

Ion	Ratio	Lower	Upper
130	100		
132	96.4	77.0	117.0
95	99.7	70.8	110.8

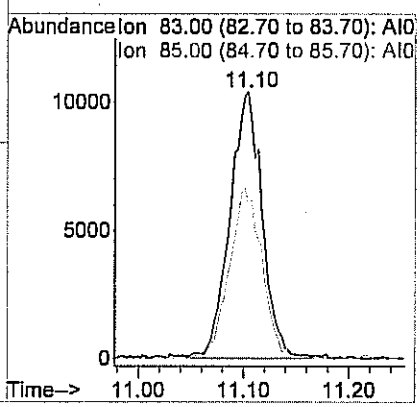


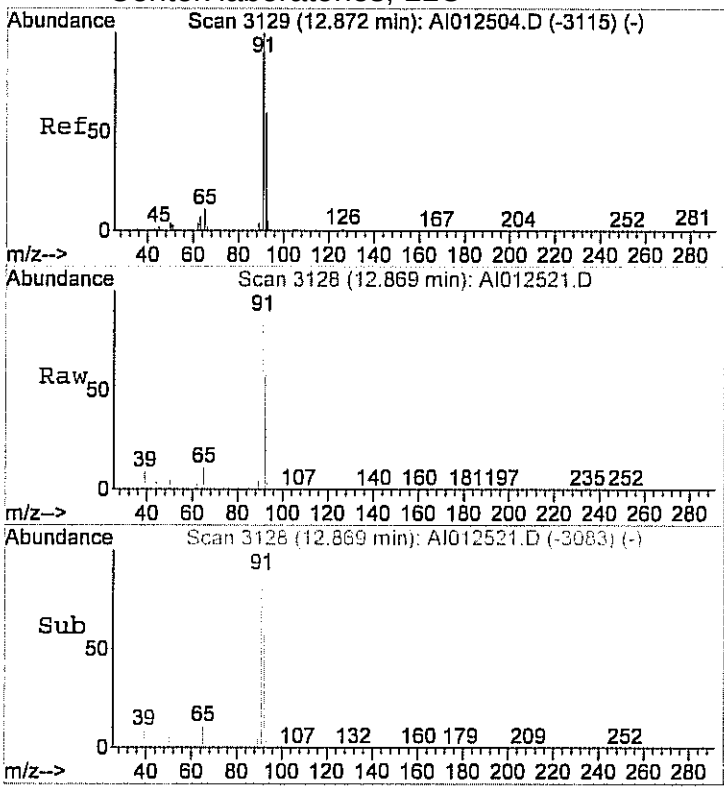


#40
Bromodichloromethane
Concen: 0.42 ppb
RT: 11.10 min Scan# 2578
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 83 Resp: 22194

Ion	Ratio	Lower	Upper
83	100		
85	64.9	45.7	85.7

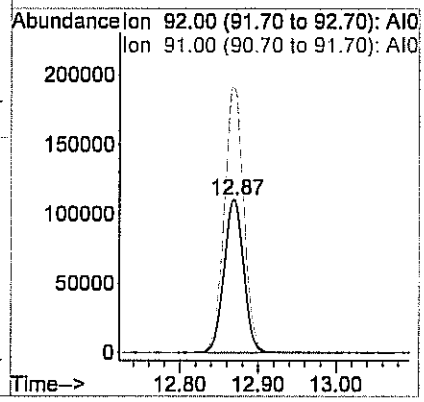


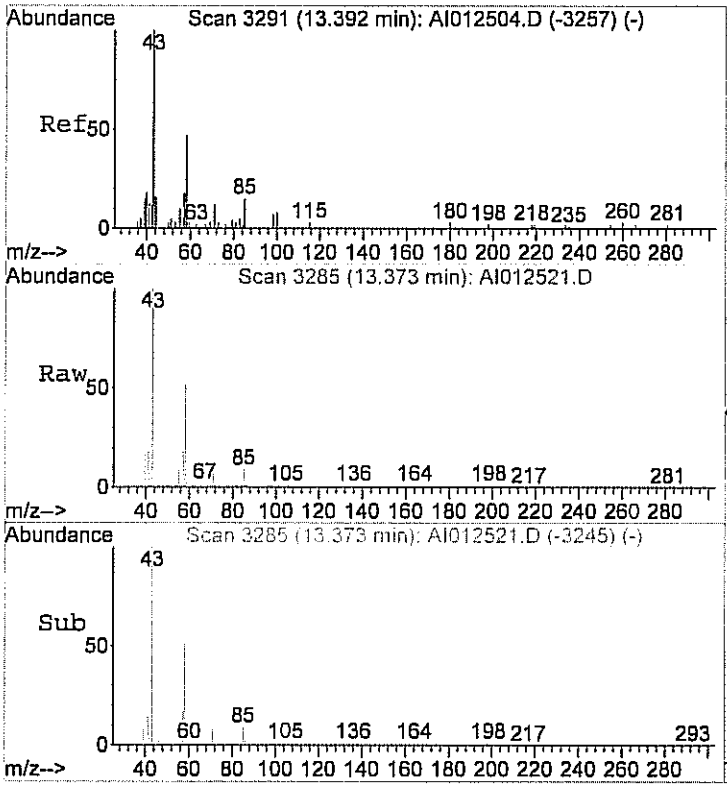


#45
Toluene
Concen: 6.79 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 92 Resp: 192868

Ion	Ratio	Lower	Upper
92	100		
91	171.7	150.0	190.0

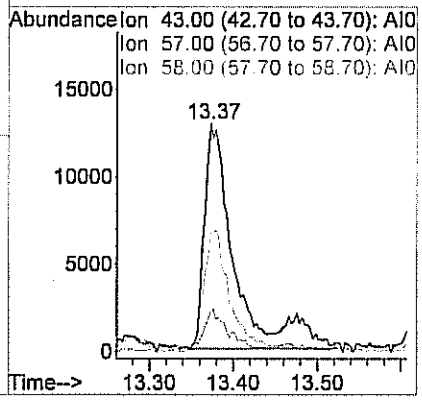


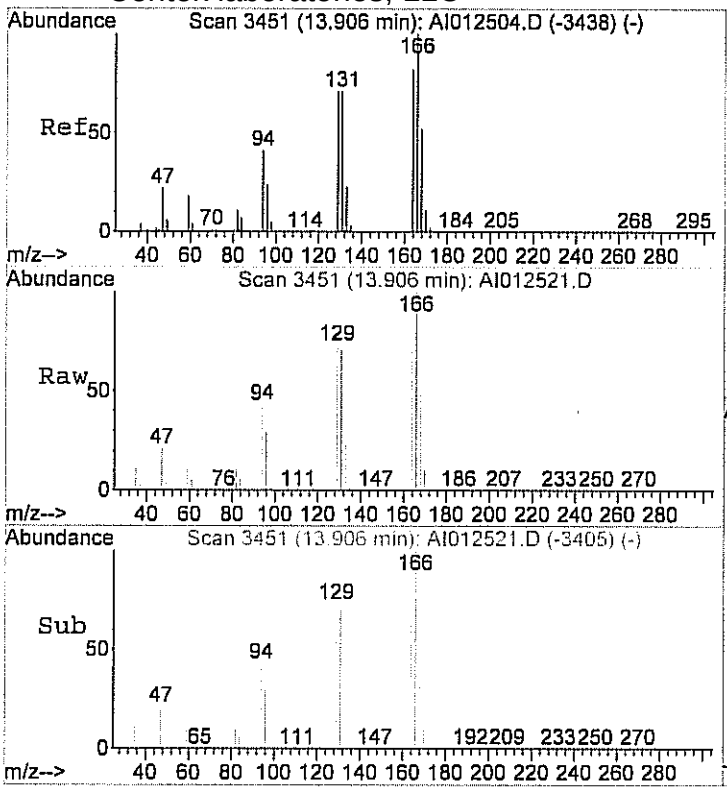


#48
Methyl Butyl Ketone
Concen: 1.82 ppb
RT: 13.37 min Scan# 3285
Delta R.T. -0.02 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 43 Resp: 32299

Ion	Ratio	Lower	Upper
43	100		
57	15.7	0.0	38.5
58	47.7	33.3	73.3

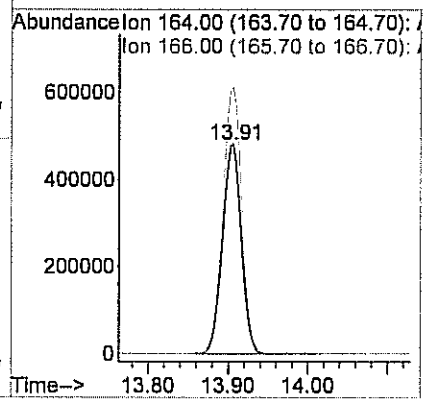


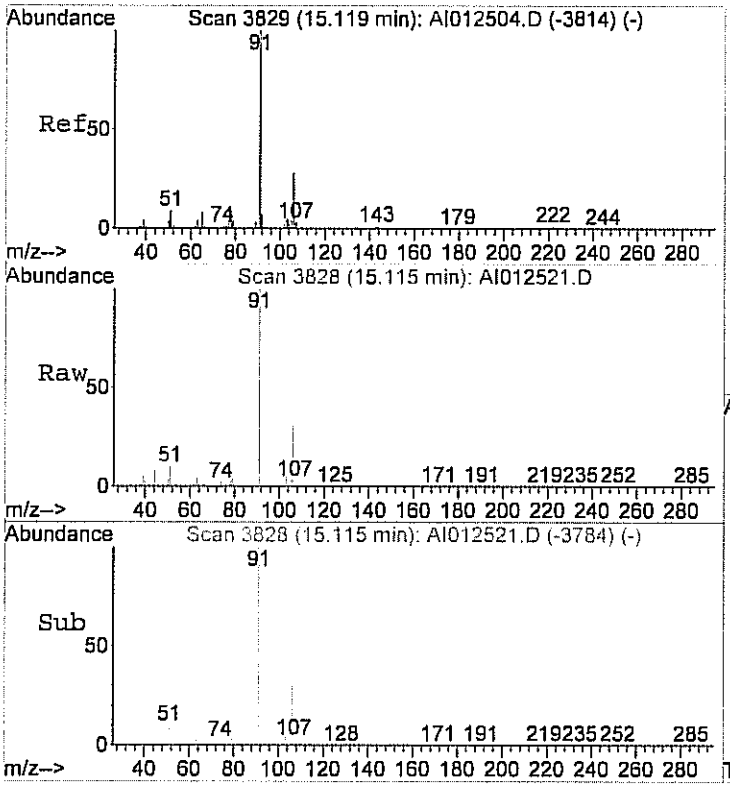


#50
Tetrachloroethylene
Concen: 24.04 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:164 Resp: 785504

Ion	Ratio	Lower	Upper
164	100		
166	128.5	109.0	149.0

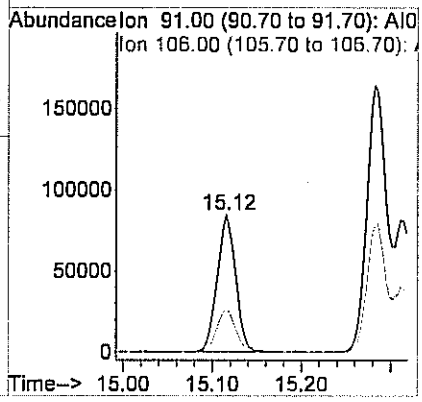


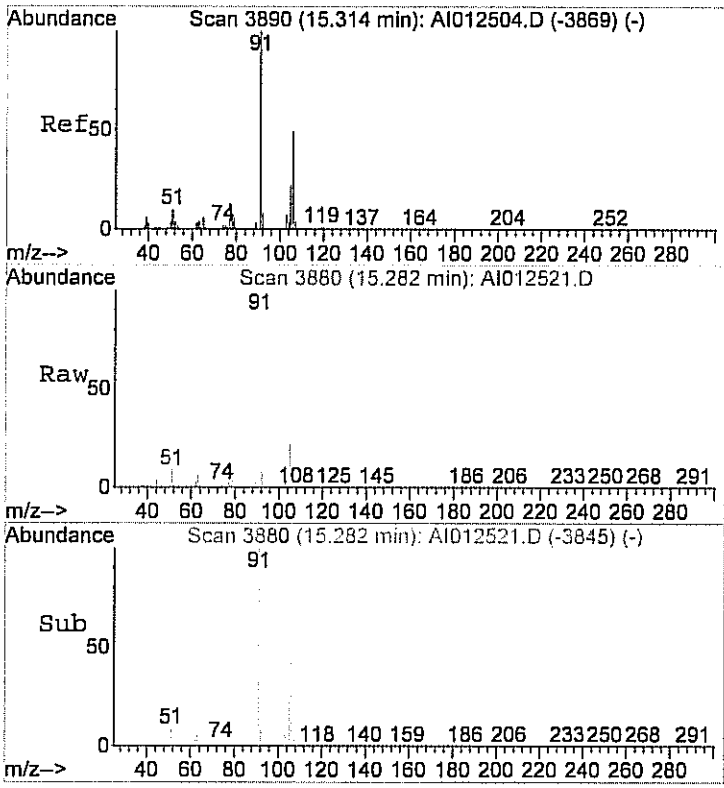


#52
Ethylbenzene
Concen: 2.23 ppb
RT: 15.12 min Scan# 3828
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 121138

Ion	Ratio	Lower	Upper
91	100		
106	31.9	12.9	52.9

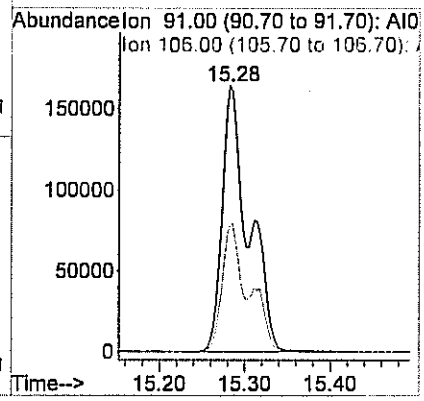


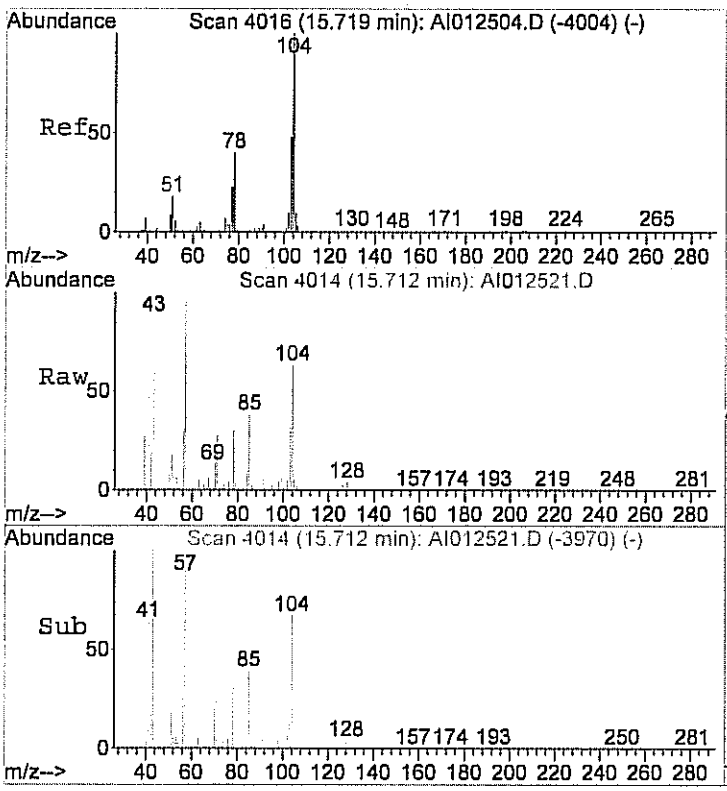


#53
m&p-xylene
Concen: 7.93 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 353709

Ion	Ratio	Lower	Upper
91	100		
106	48.7	29.9	69.9

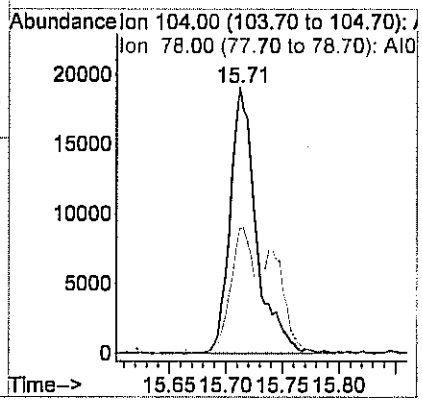


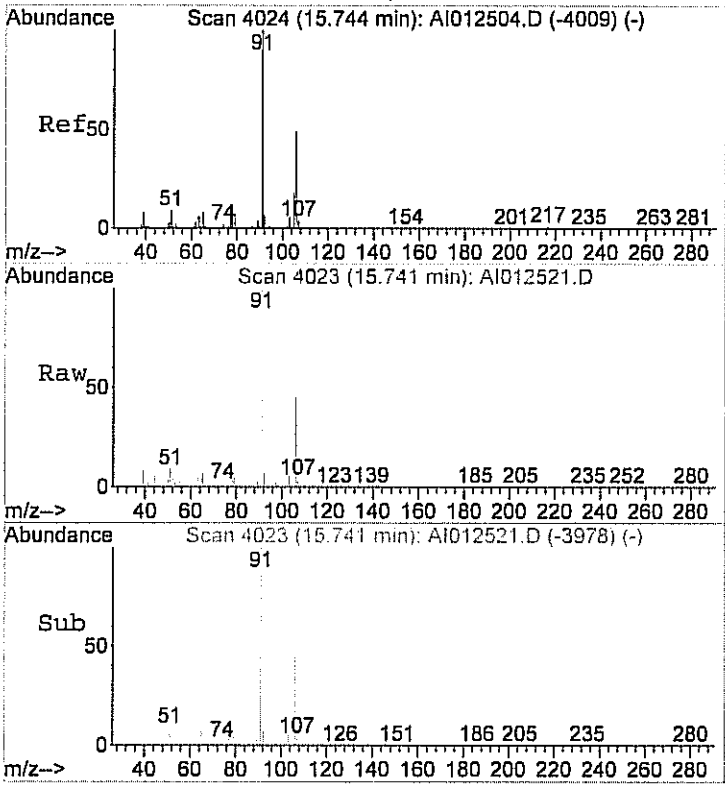


#54
Styrene
Concen: 1.11 ppb
RT: 15.71 min Scan# 4014
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:104 Resp: 30569

Ion	Ratio	Lower	Upper
104	100		
78	75.9	31.5	71.5#

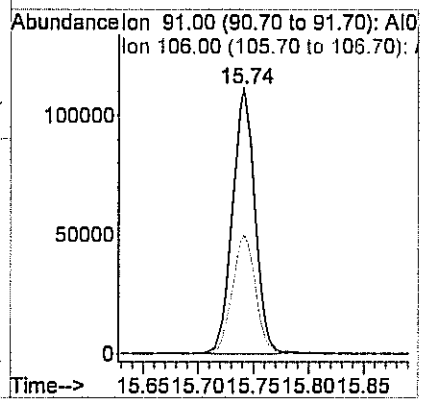


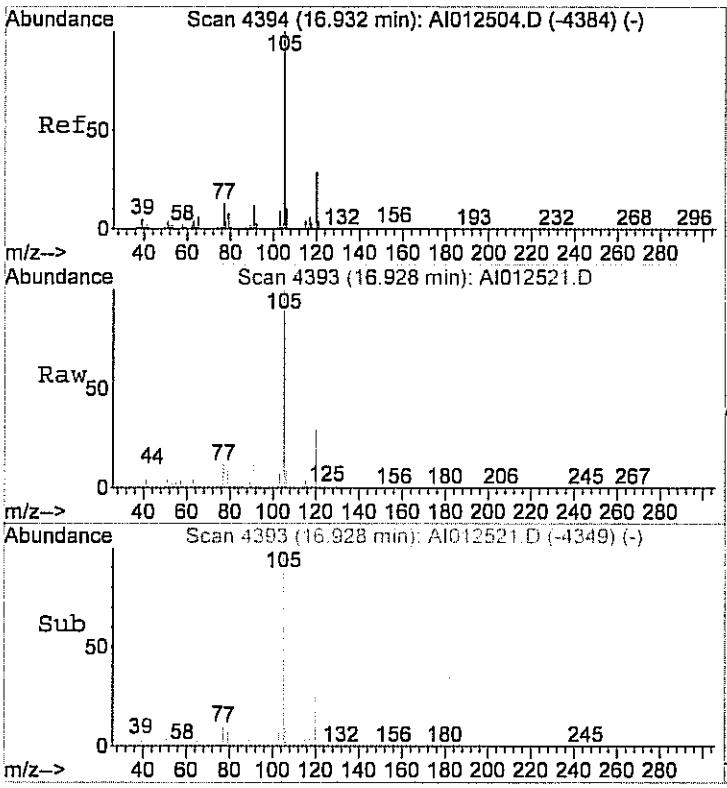


#56
o-xylene
Concen: 2.96 ppb
RT: 15.74 min Scan# 4023
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion: 91 Resp: 157462

Ion	Ratio	Lower	Upper
91	100		
106	46.2	29.0	69.0

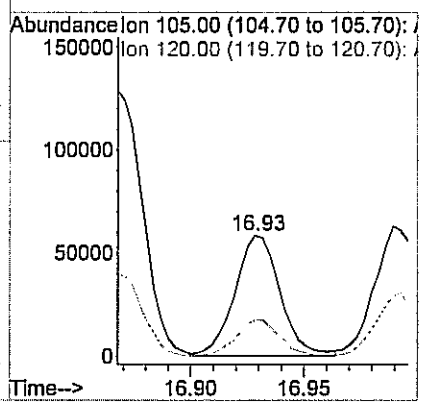


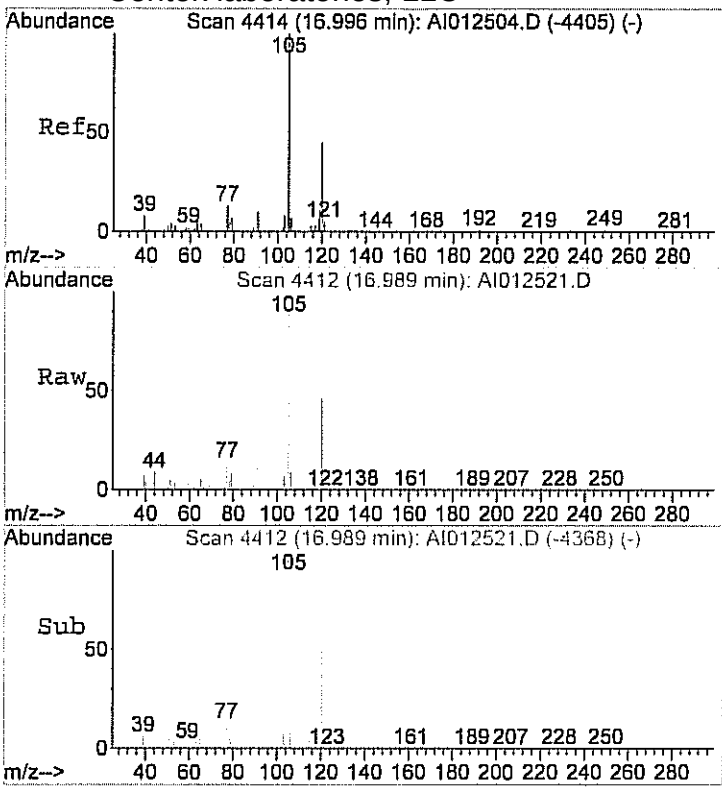


#59
4-ethyltoluene
Concen: 1.63 ppb
RT: 16.93 min Scan# 4393
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 80657

Ion	Ratio	Lower	Upper
105	100		
120	29.4	10.3	50.3

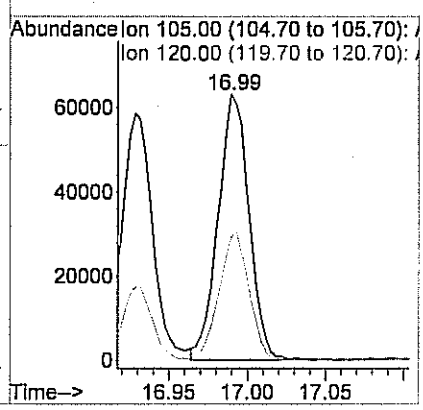


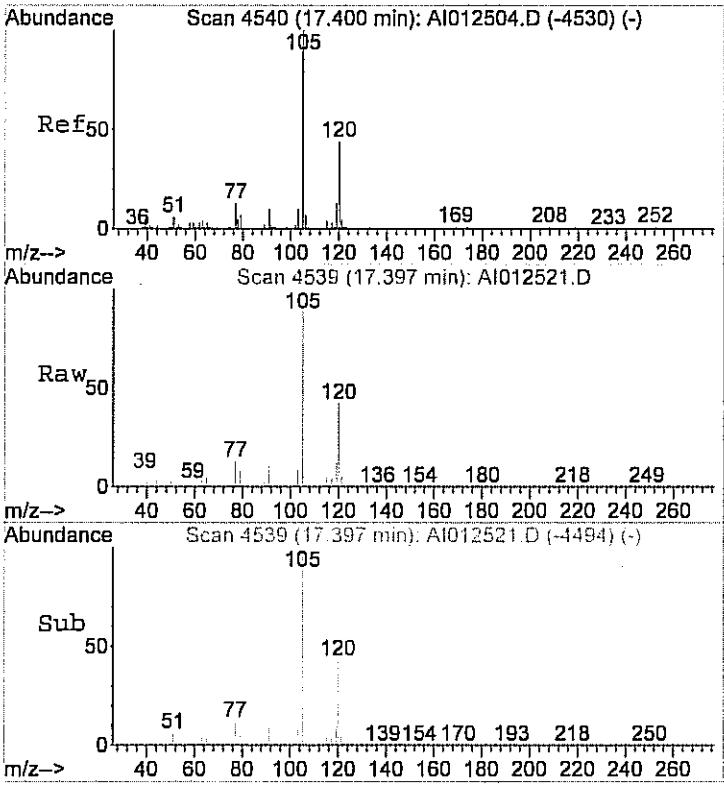


#60
1,3,5-trimethylbenzene
Concen: 1.99 ppb
RT: 16.99 min Scan# 4412
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 86385

Ion	Ratio	Lower	Upper
105	100		
120	47.5	28.6	68.6

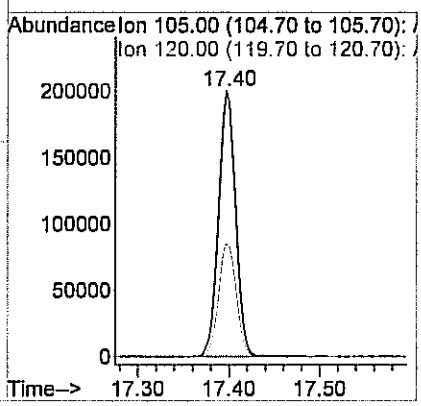




#61
1,2,4-trimethylbenzene
Concen: 7.59 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012521.D
Acq: 25 Jan 2011 8:22 pm

Tgt Ion:105 Resp: 259653

Ion	Ratio	Lower	Upper
105	100		
120	45.0	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012717.D Vial: 6
Acq On : 27 Jan 2011 7:03 pm Operator: RJP
Sample : C1101031-003A 10X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 19:24:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	16838	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	43991	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	41856	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	19653	0.93	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 93.00%				
Target Compounds							Qvalue
12) Acetone	4.23	58	19185	4.22	ppb		96
23) Methyl Ethyl Ketone	6.80	43	15387	0.63	ppb	#	51
27) Chloroform	7.73	83	33107	0.94	ppb		100
28) Tetrahydrofuran	7.96	42	8910m	1.20	ppb		
31) 1,1,1-trichloroethane	8.50	97	7969	0.28	ppb		94
38) Trichloroethene	10.58	130	1309324	67.80	ppb		95
45) Toluene	12.87	92	7197	0.41	ppb		98
50) Tetrachloroethylene	13.91	164	47092	2.35	ppb		100
53) m&p-xylene	15.28	91	9876m	0.36	ppb		
56) o-xylene	15.74	91	4551m	0.14	ppb		
61) 1,2,4-trimethylbenzene	17.40	105	5750	0.27	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012717.D A106_1UG.M Tue Feb 08 15:45:10 2011 MSD1 Page 1

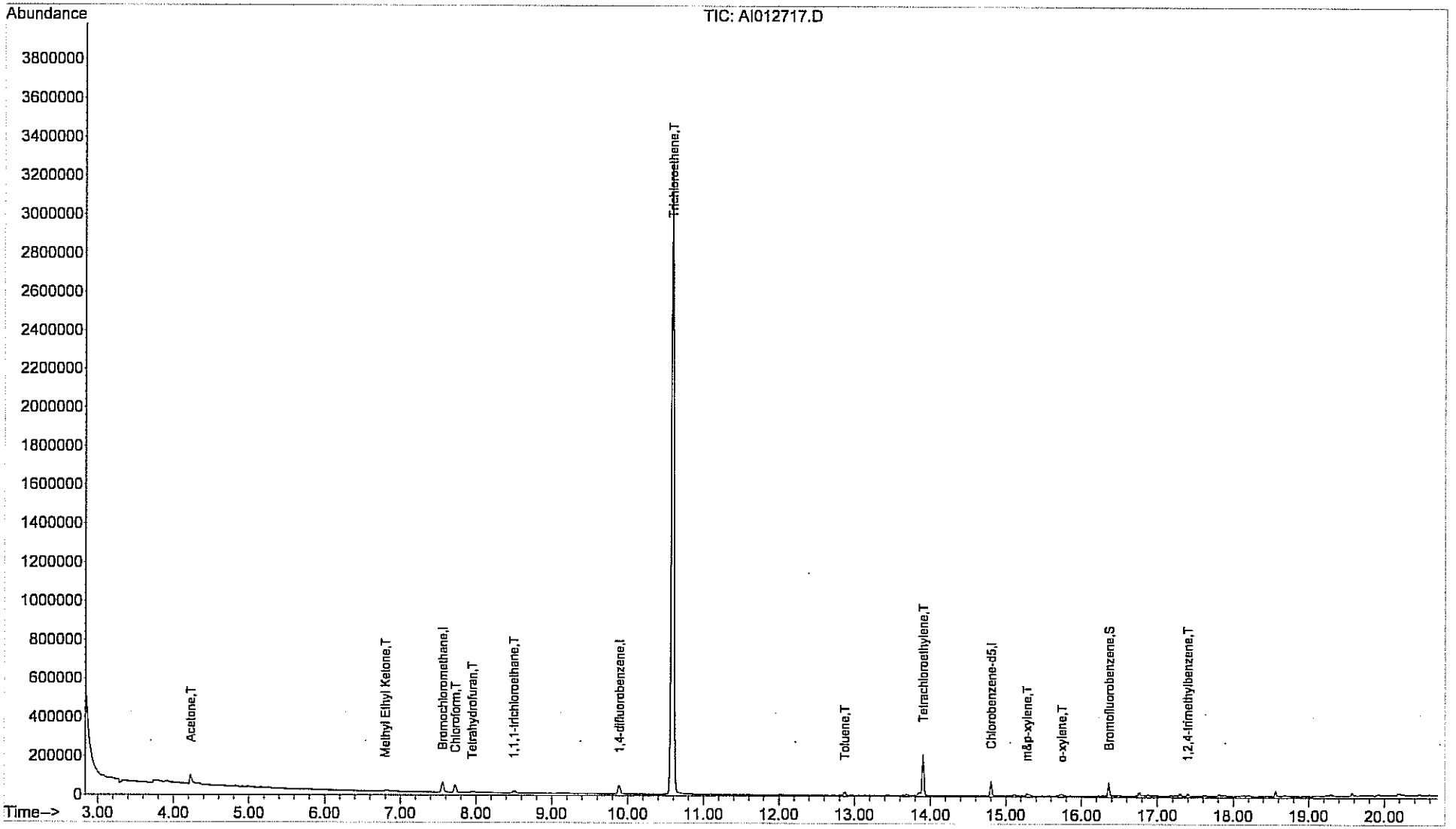
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012717.D
Acq On : 27 Jan 2011 7:03 pm
Sample : C1101031-003A 10X
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 15:20 2011

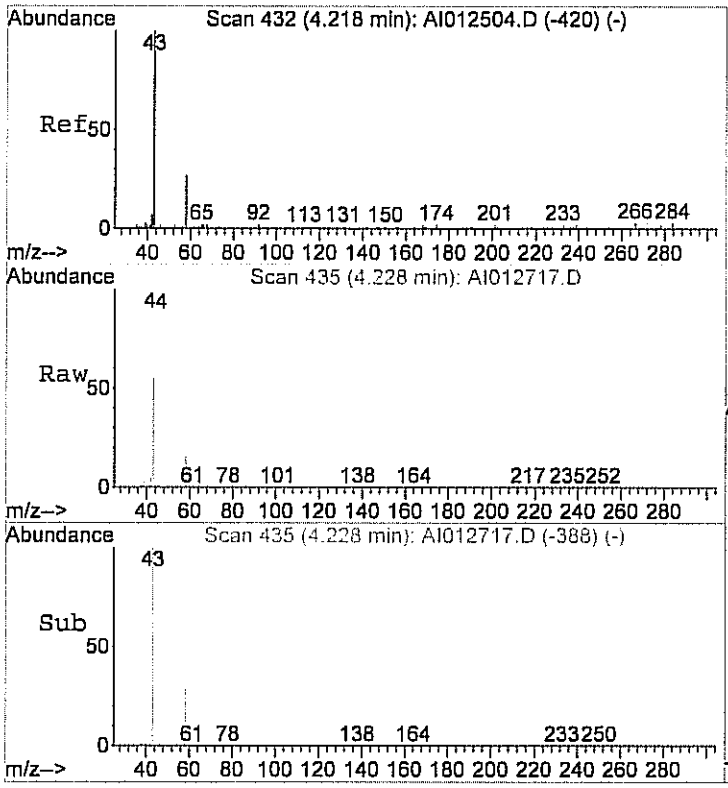
Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



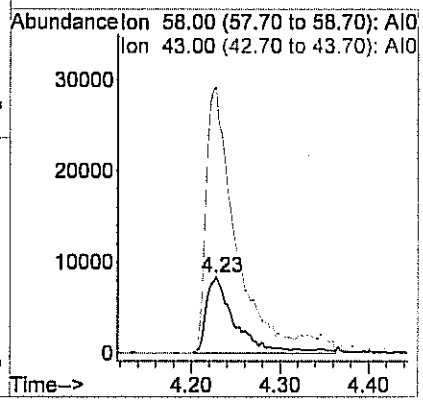
Centek laboratories, LLC

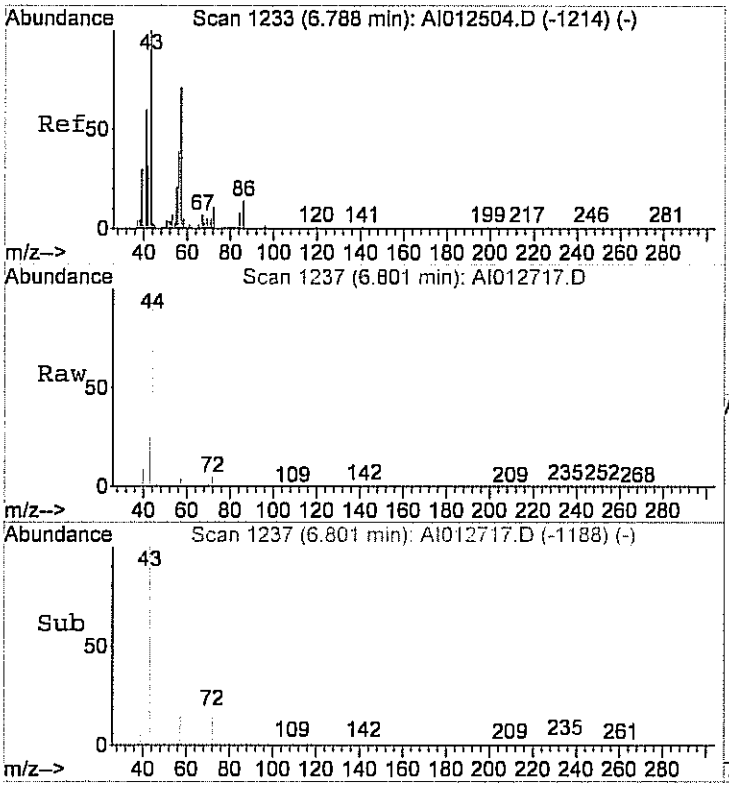


#12
Acetone
Concen: 4.22 ppb
RT: 4.23 min Scan# 435
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 58 Resp: 19185

Ion	Ratio	Lower	Upper
58	100		
43	368.0	329.0	389.0

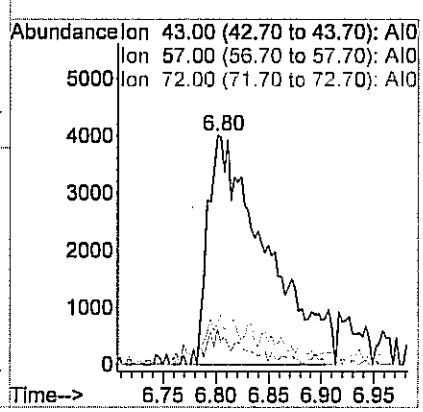


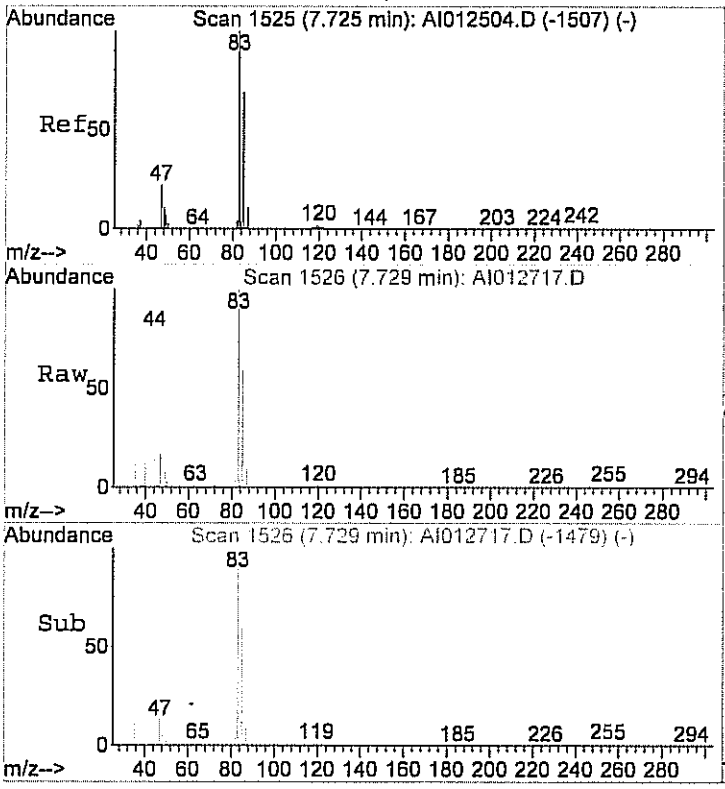


#23
Methyl Ethyl Ketone
Concen: 0.63 ppb
RT: 6.80 min Scan# 1237
Delta R.T. 0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 43 Resp: 15387

Ion	Ratio	Lower	Upper
43	100		
57	8.9	37.8	77.8#
72	22.2	1.1	41.1

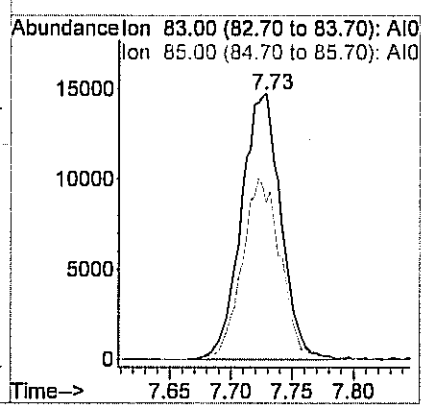


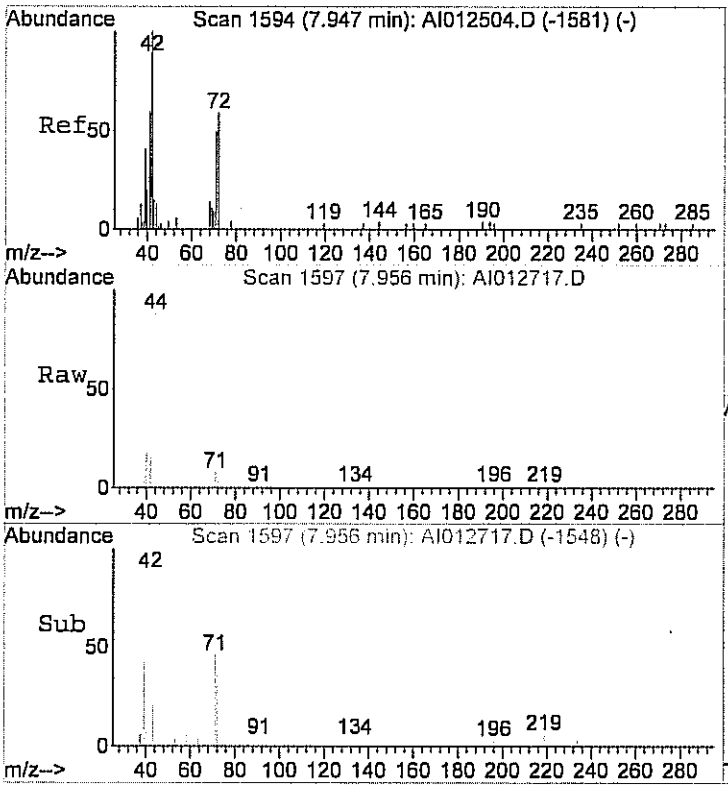


#27
Chloroform
Concen: 0.94 ppb
RT: 7.73 min Scan# 1526
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 83 Resp: 33107

Ion	Ratio	Lower	Upper
83	100		
85	66.8	46.5	86.5

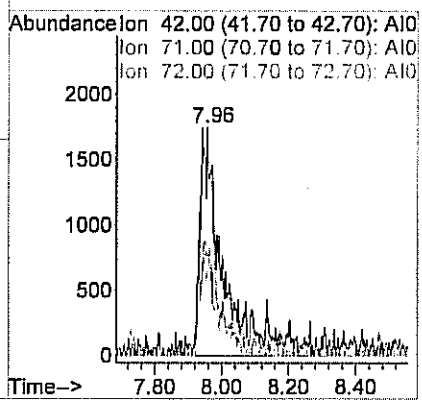


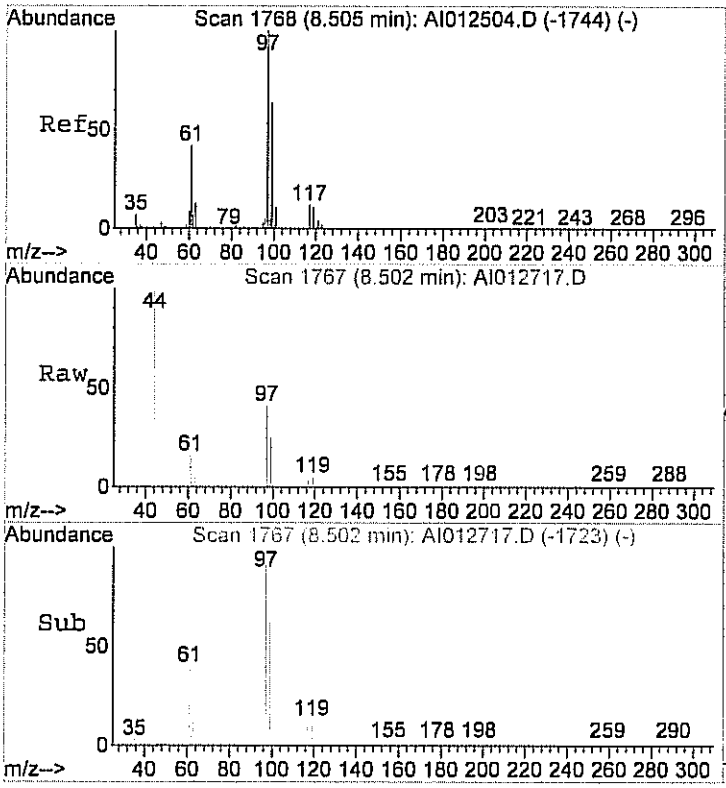


#28
Tetrahydrofuran
Concen: 1.20 ppb m
RT: 7.96 min Scan# 1597
Delta R.T. 0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 42 Resp: 8910

Ion	Ratio	Lower	Upper
42	100		
71	36.4	37.9	77.9#
72	33.1	38.0	78.0#

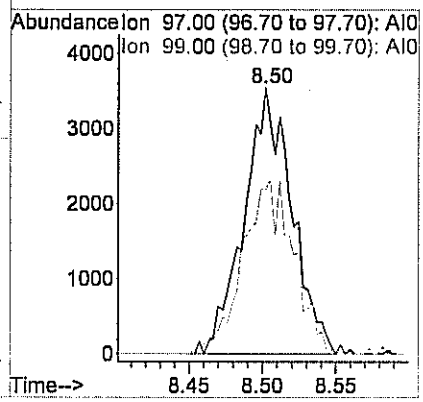


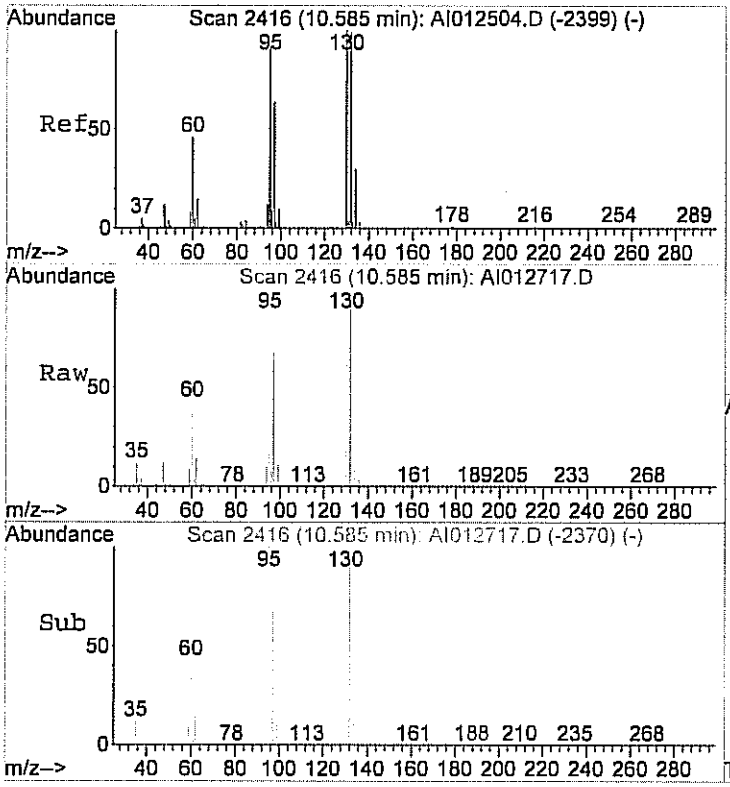


#31
1,1,1-trichloroethane
Concen: 0.28 ppb
RT: 8.50 min Scan# 1767
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 97 Resp: 7969

Ion	Ratio	Lower	Upper
97	100		
99	69.8	45.4	85.4

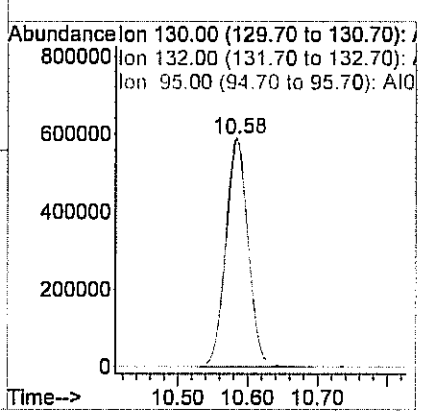


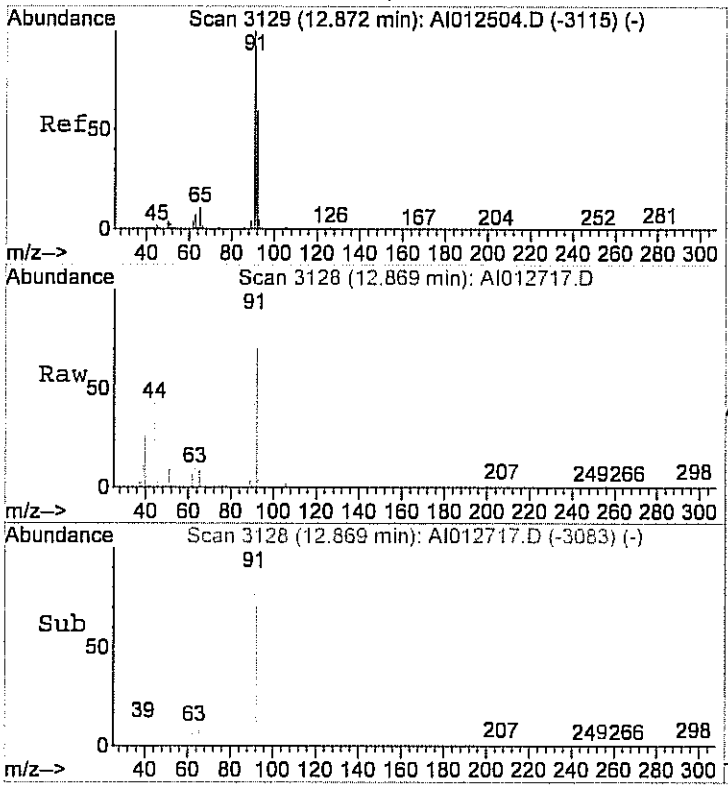


#38
Trichloroethene
Concen: 67.80 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:130 Resp: 1309324

Ion	Ratio	Lower	Upper
130	100		
132	97.9	77.0	117.0
95	99.8	70.8	110.8

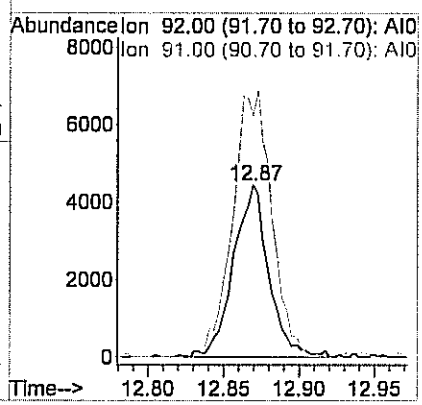


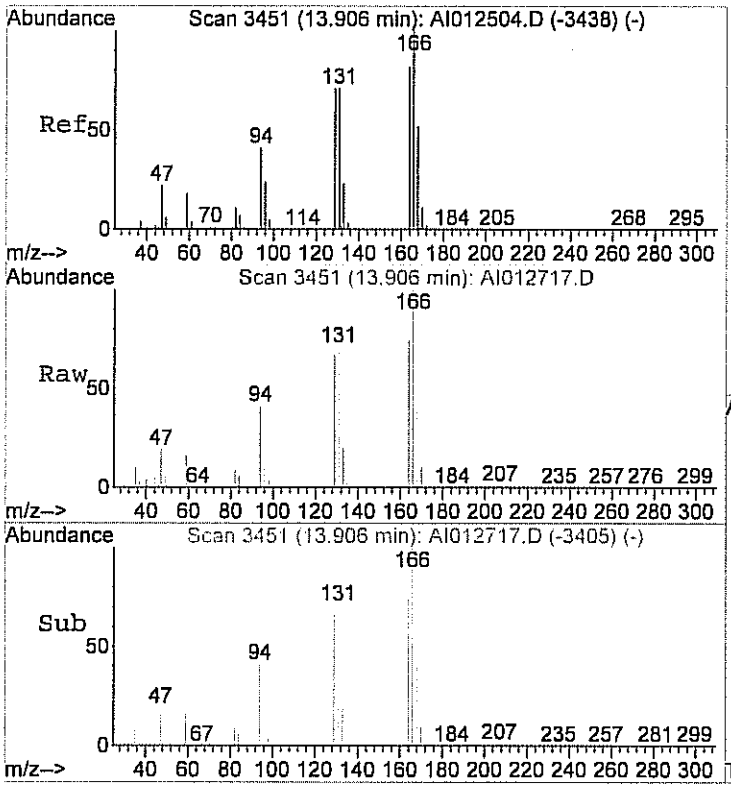


#45
Toluene
Concen: 0.41 ppb
RT: 12.87 min Scan# 3128
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 92 Resp: 7197

Ion	Ratio	Lower	Upper
92	100		
91	172.2	150.0	190.0

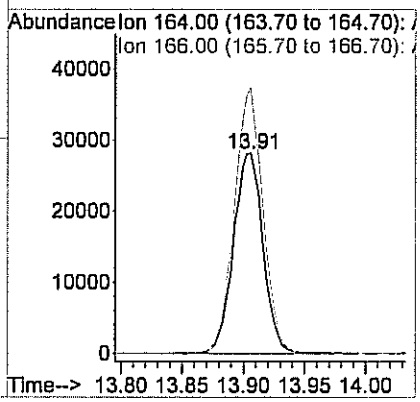


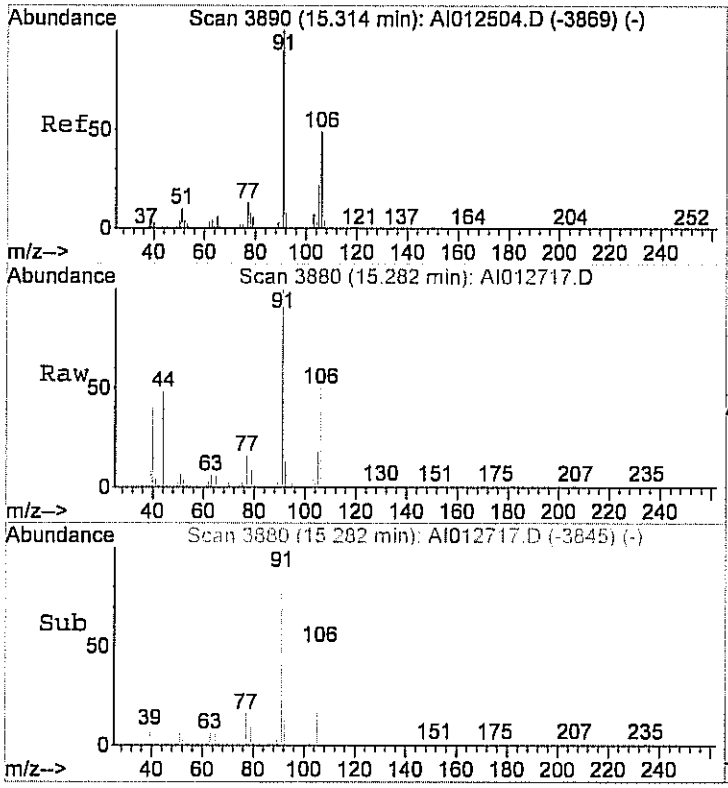


#50
Tetrachloroethylene
Concen: 2.35 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:164 Resp: 47092

Ion	Ratio	Lower	Upper
164	100		
166	128.6	109.0	149.0

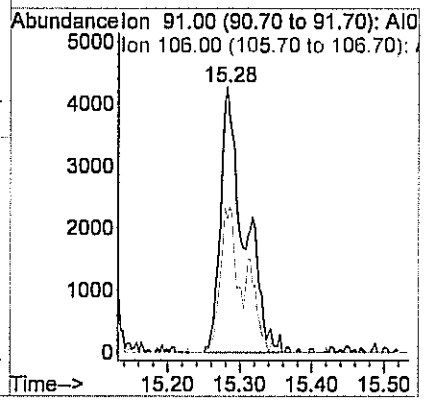


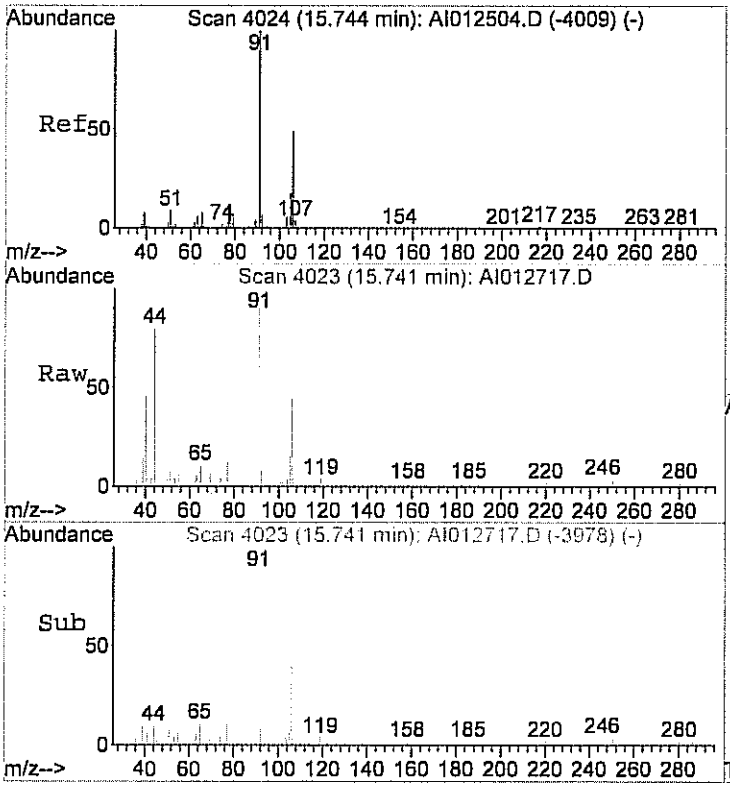


#53
m&p-xylene
Concen: 0.36 ppb m
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 91 Resp: 9876

Ion	Ratio	Lower	Upper
91	100		
106	0.0	29.9	69.9#

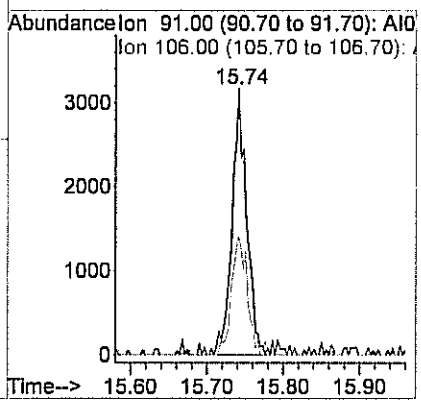


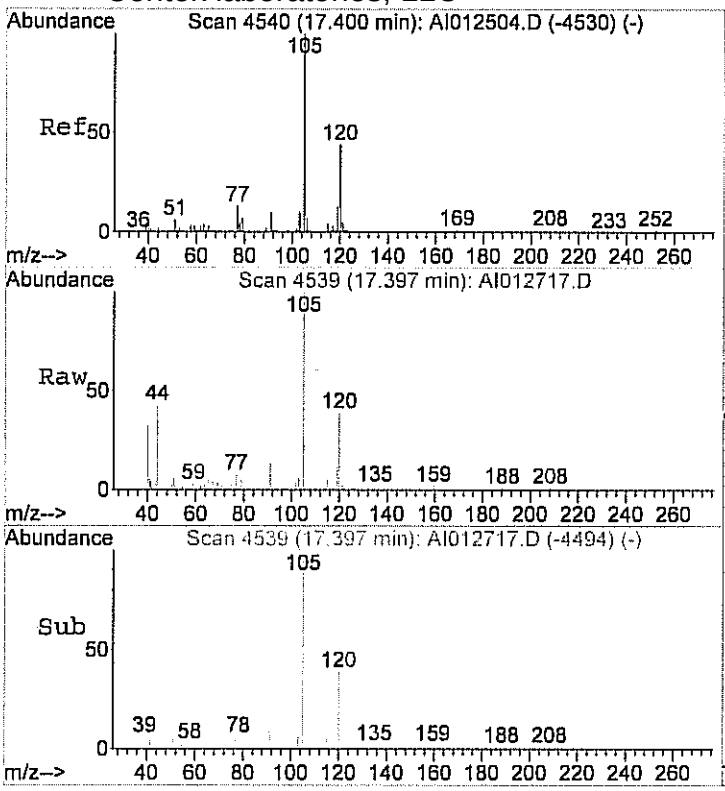


#56
o-xylene
Concen: 0.14 ppb m
RT: 15.74 min Scan# 4023
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion: 91 Resp: 4551

Ion	Ratio	Lower	Upper
91	100		
106	0.0	29.0	69.0#

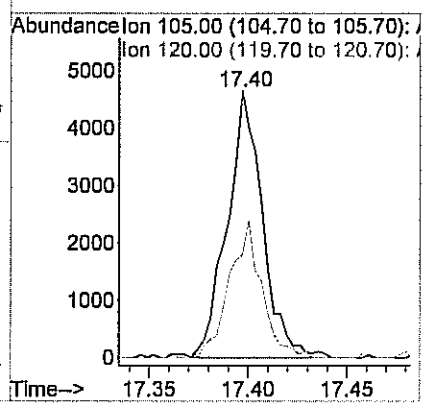




#61
1,2,4-trimethylbenzene
Concen: 0.27 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012717.D
Acq: 27 Jan 2011 7:03 pm

Tgt Ion:105 Resp: 5750

Ion	Ratio	Lower	Upper
105	100		
120	47.4	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012718.D Vial: 7
Acq On : 27 Jan 2011 7:34 pm Operator: RJP
Sample : C1101031-003A 40X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 19:55:44 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.55	128	17679	1.00	ppb	-0.01
30) 1,4-difluorobenzene	9.89	114	42833	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	34836	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	16534	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
12) Acetone	4.28	58	2491m	0.52	ppb	
38) Trichloroethene	10.58	130	122910	6.54	ppb	94
50) Tetrachloroethylene	13.90	164	5117	0.31	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

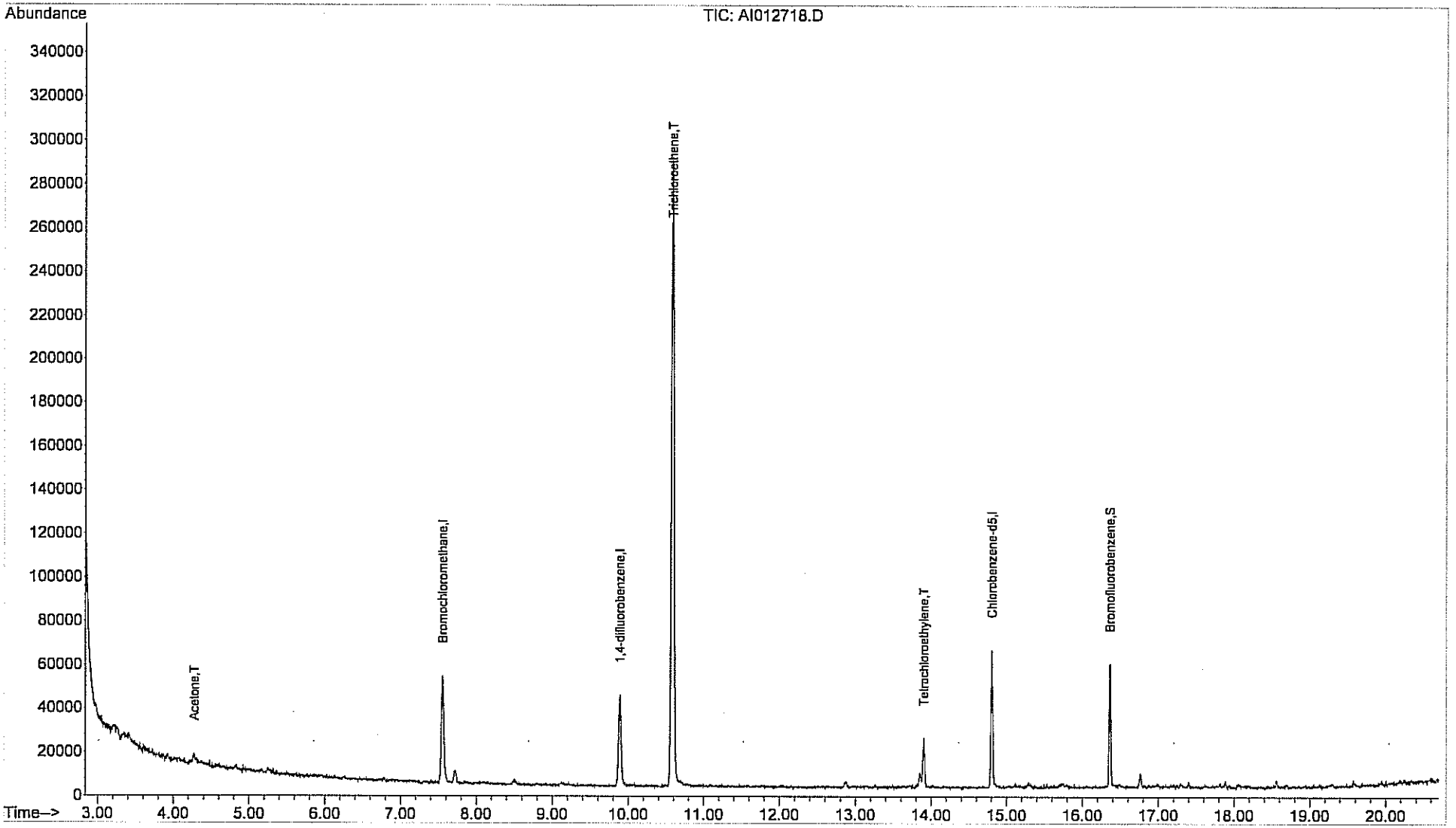
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012718.D
Acq On : 27 Jan 2011 7:34 pm
Sample : C1101031-003A 40X
Misc : C1101031-003A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:20 2011

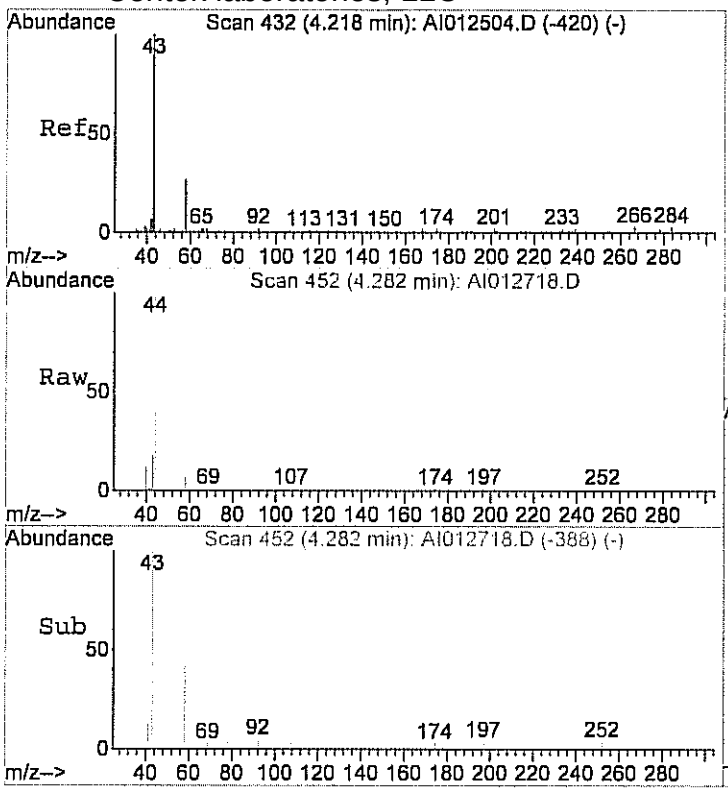
Vial: 7
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



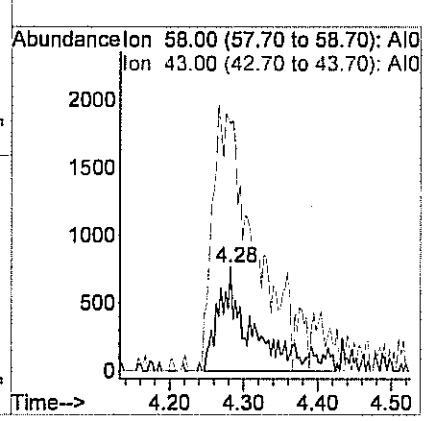
Centek laboratories, LLC

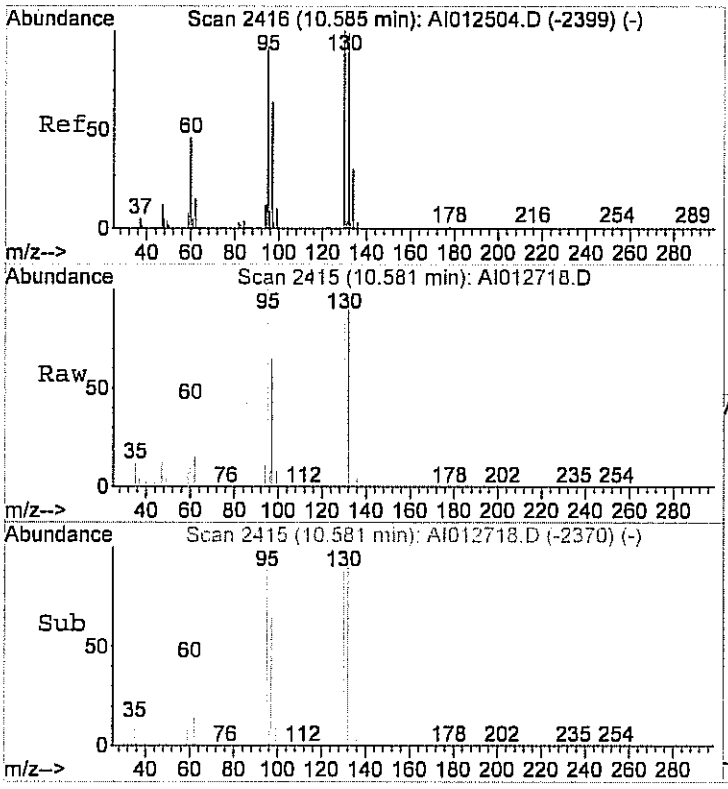


#12
Acetone
Concen: 0.52 ppb m
RT: 4.28 min Scan# 452
Delta R.T. 0.05 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion: 58 Resp: 2491

Ion	Ratio	Lower	Upper
58	100		
43	284.1	329.0	389.0#

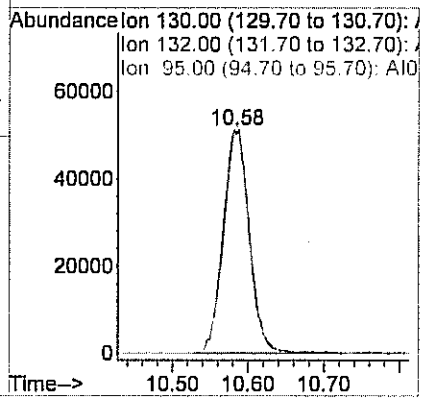


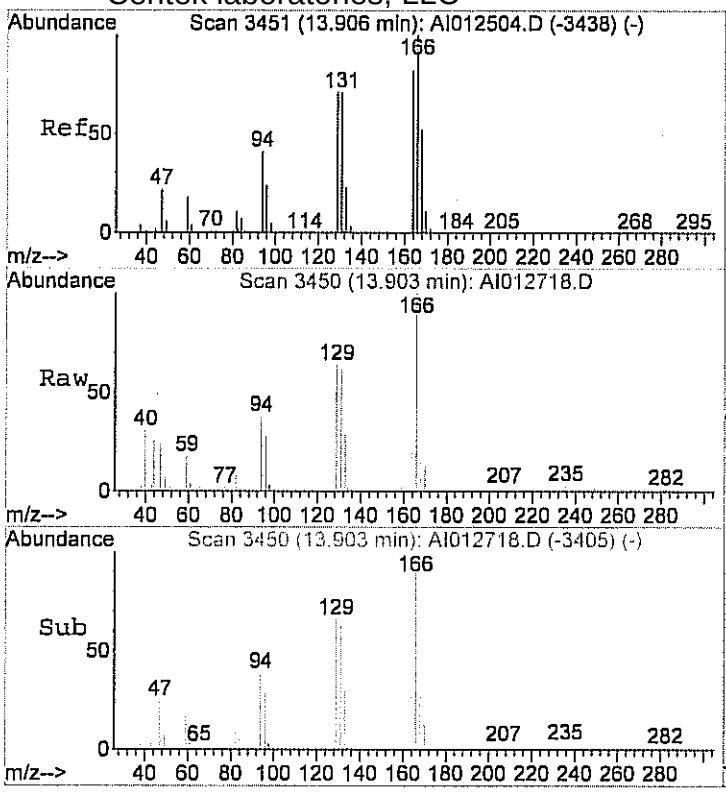


#38
Trichloroethene
Concen: 6.54 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion:130 Resp: 122910

Ion	Ratio	Lower	Upper
130	100		
132	98.1	77.0	117.0
95	100.4	70.8	110.8

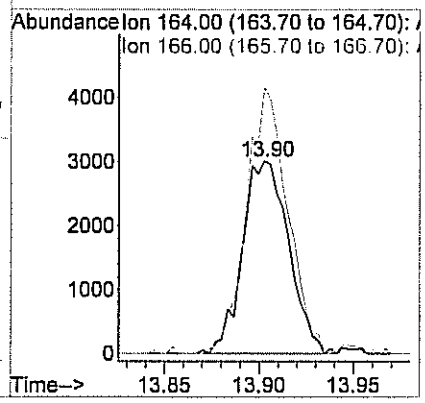




#50
Tetrachloroethylene
Concen: 0.31 ppb
RT: 13.90 min Scan# 3450
Delta R.T. -0.01 min
Lab File: AI012718.D
Acq: 27 Jan 2011 7:34 pm

Tgt Ion:164 Resp: 5117

Ion	Ratio	Lower	Upper
164	100		
166	122.7	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012811.D Vial: 3
Acq On : 28 Jan 2011 4:57 pm Operator: RJP
Sample : C1101031-003A 810X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 17:18:03 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

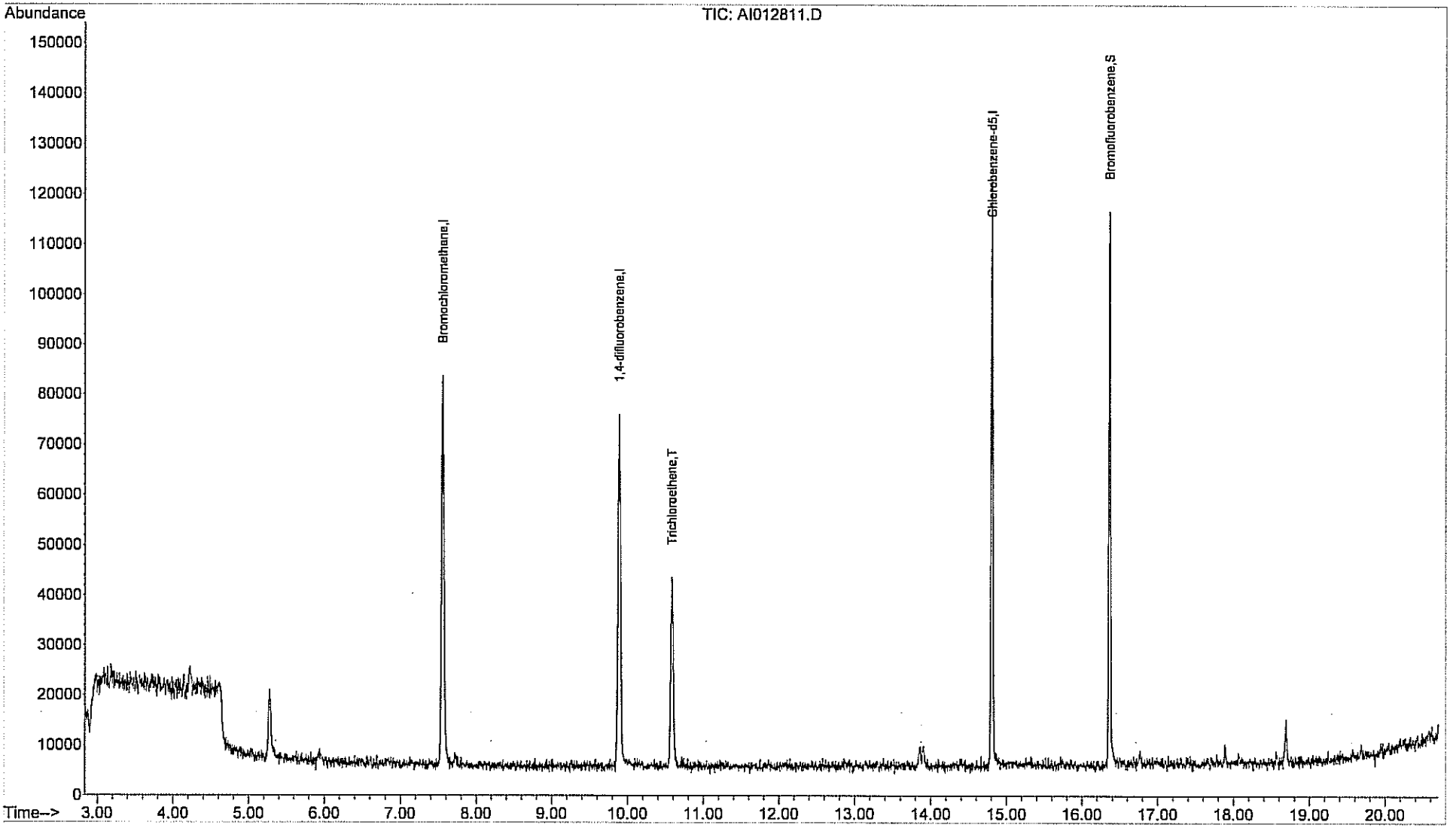
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	28195	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	71974	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	66131	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	31811	0.95	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%			
Target Compounds						Qvalue
38) Trichloroethene	10.59	130	15948	0.50	ppb	93

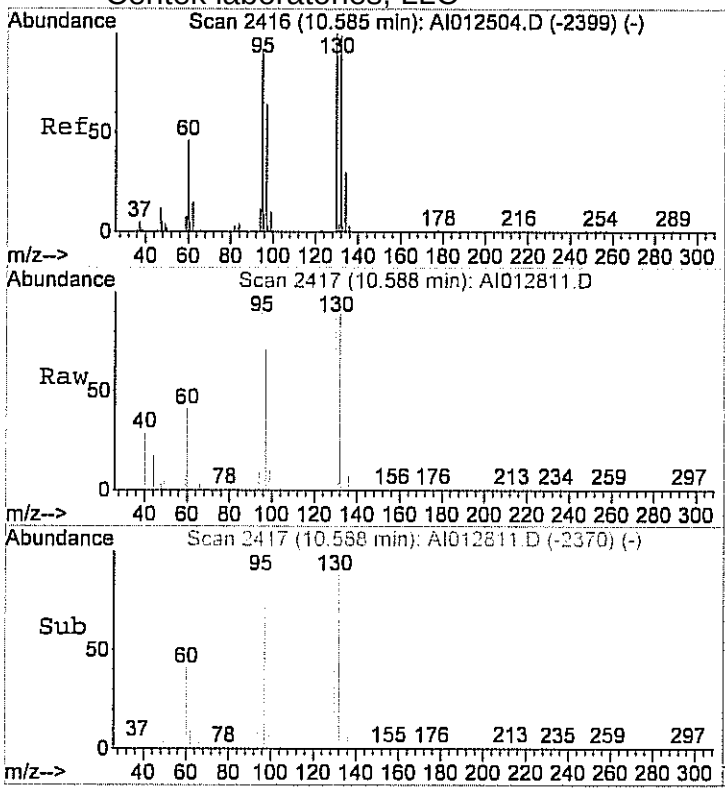
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012811.D Vial: 3
Acq On : 28 Jan 2011 4:57 pm Operator: RJP
Sample : C1101031-003A 810X Inst : MSD #1
Misc : C1101031-003A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:20 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

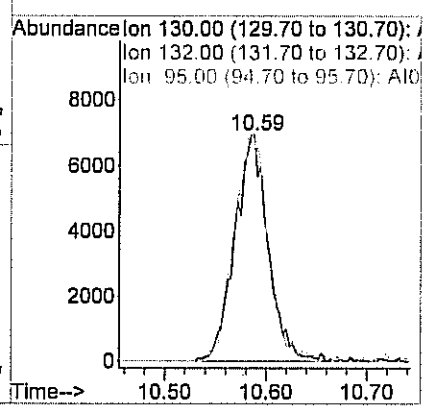




#38
Trichloroethene
Concen: 0.50 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012811.D
Acq: 28 Jan 2011 4:57 pm

Tgt Ion:130 Resp: 15948

Ion	Ratio	Lower	Upper
130	100		
132	100.2	77.0	117.0
95	101.0	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	6.2	1.5		ppbV	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	320	360	J	ppbV	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Acetone	12	3.0		ppbV	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzene	0.74	0.15		ppbV	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Chloroform	58	14		ppbV	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	16	1.5		ppbV	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Ethylbenzene	0.71	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 11	0.49	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 113	0.26	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Freon 12	0.68	0.15		ppbV	1	1/25/2011 8:54:00 PM
Heptane	120	14		ppbV	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Hexane	180	14		ppbV	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
m&p-Xylene	2.1	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	86	14		ppbV	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	170	14		ppbV	90	1/27/2011 8:39:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Trichloroethene	5000	360		ppbV	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.25	0.15		ppbV	1	1/25/2011 8:54:00 PM
Surr: Bromofluorobenzene	103	70-130		%REC	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
1,1,1-Trichloroethane	34	8.3		ug/m3	10	1/27/2011 8:06:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 8:54:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 8:54:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM
2,2,4-trimethylpentane	1500	1700	J	ug/m3	2430	1/28/2011 5:31:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Acetone	30	7.2		ug/m3	10	1/27/2011 8:06:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 8:54:00 PM
Benzene	2.4	0.49		ug/m3	1	1/25/2011 8:54:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 8:54:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 8:54:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 8:54:00 PM
Carbon disulfide	0.79	0.47		ug/m3	1	1/25/2011 8:54:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 8:54:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 8:54:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 8:54:00 PM
Chloroform	290	69		ug/m3	90	1/27/2011 8:39:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/25/2011 8:54:00 PM
cis-1,2-Dichloroethene	64	6.0		ug/m3	10	1/27/2011 8:06:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 8:54:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 8:54:00 PM
Ethylbenzene	3.1	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Freon 11	2.8	0.86		ug/m3	1	1/25/2011 8:54:00 PM
Freon 113	2.0	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0100AA
Lab Order:	C1101031	**Tag Number:**	429
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-004A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	3.4	0.75		ug/m3	1	1/25/2011 8:54:00 PM
Heptane	490	58		ug/m3	90	1/27/2011 8:39:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 8:54:00 PM
Hexane	640	50		ug/m3	90	1/27/2011 8:39:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 8:54:00 PM
m&p-Xylene	9.2	1.3		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/25/2011 8:54:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 8:54:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 8:54:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/25/2011 8:54:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 8:54:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 8:54:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 8:54:00 PM
Tetrachloroethylene	600	97		ug/m3	90	1/27/2011 8:39:00 PM
Tetrahydrofuran	510	42		ug/m3	90	1/27/2011 8:39:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 8:54:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 8:54:00 PM
Trichloroethene	27000	2000		ug/m3	2430	1/28/2011 5:31:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 8:54:00 PM
Vinyl chloride	0.65	0.39		ug/m3	1	1/25/2011 8:54:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012522.D Vial: 5
Acq On : 25 Jan 2011 8:54 pm Operator: RJP
Sample : C1101031-004A Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 21:15:14 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	22139	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	89465	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	83860	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	43717m	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	44163	0.68	ppb		97
6) Vinyl Chloride	3.18	62	3115	0.25	ppb		94
11) Freon 11	4.06	101	18593	0.49	ppb		99
12) Acetone	4.20	58	79272	13.28	ppb	#	40
15) Freon 113	4.83	101	11594	0.26	ppb		94
18) Carbon disulfide	5.16	76	13842	0.25	ppb		91
24) cis-1,2-dichloroethene	7.14	61	413601	19.20	ppb		94
25) Hexane	6.79	41	3331218	219.15	ppb	#	36
27) Chloroform	7.73	83	2663667	57.24	ppb	#	69
28) Tetrahydrofuran	7.85	42	3961393	406.89	ppb	#	71
31) 1,1,1-trichloroethane	8.50	97	353122	6.19	ppb		99
34) Benzene	9.11	78	45682	0.74	ppb		95
36) 2,2,4-trimethylpentane	10.09	57	19272797	288.77	ppb	#	63
37) Heptane	10.55	43	3484444	157.13	ppb		94
38) Trichloroethene	10.61	130	33927068	863.80	ppb		93
50) Tetrachloroethylene	13.91	164	3294182	81.90	ppb		99
52) Ethylbenzene	15.12	91	47463	0.71	ppb		95
53) m&p-xylene	15.29	91	114489	2.09	ppb		90

(#) = qualifier out of range (m) = manual integration (+) = signals summed

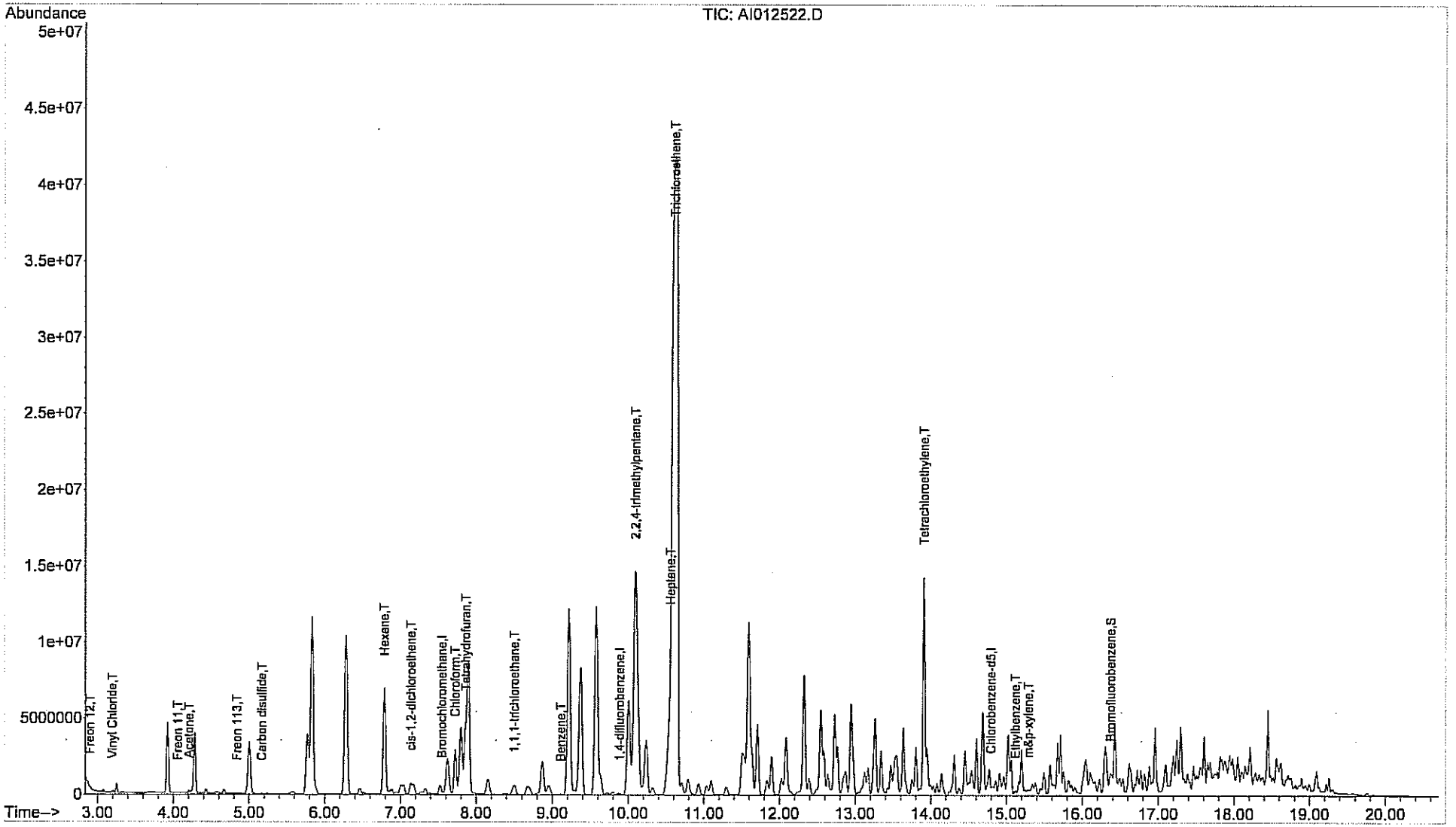
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012522.D
Acq On : 25 Jan 2011 8:54 pm
Sample : C1101031-004A
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:23 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

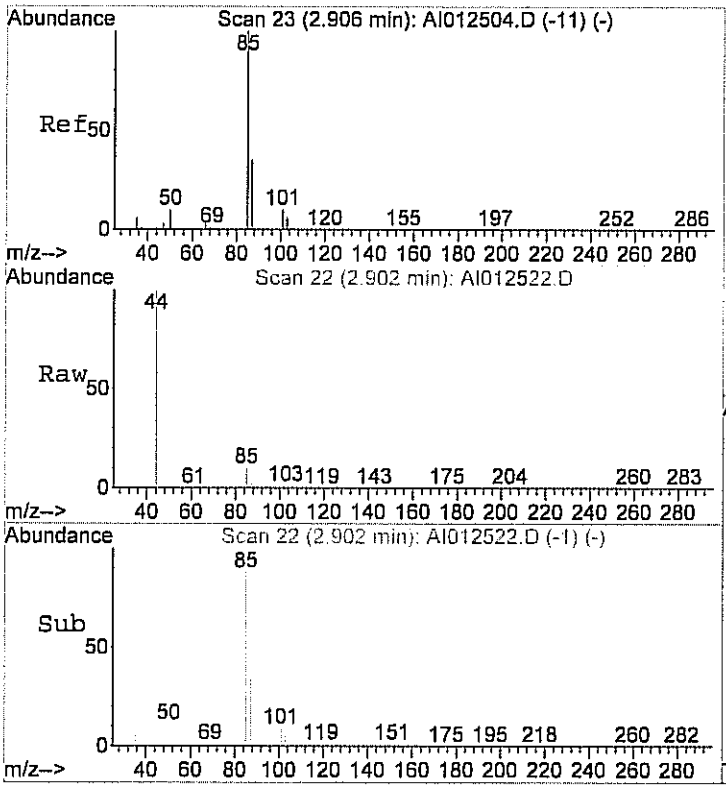
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012522.D A106_1UG.M Tue Feb 08 15:44:35 2011 MSD1 Page 2

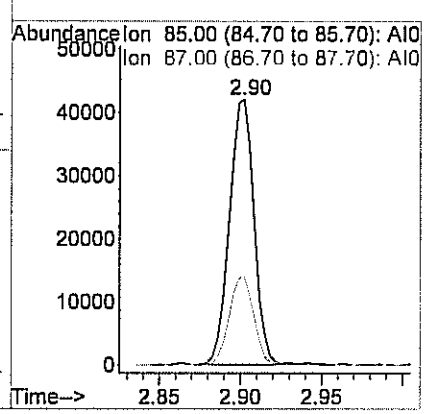
Centek laboratories, LLC

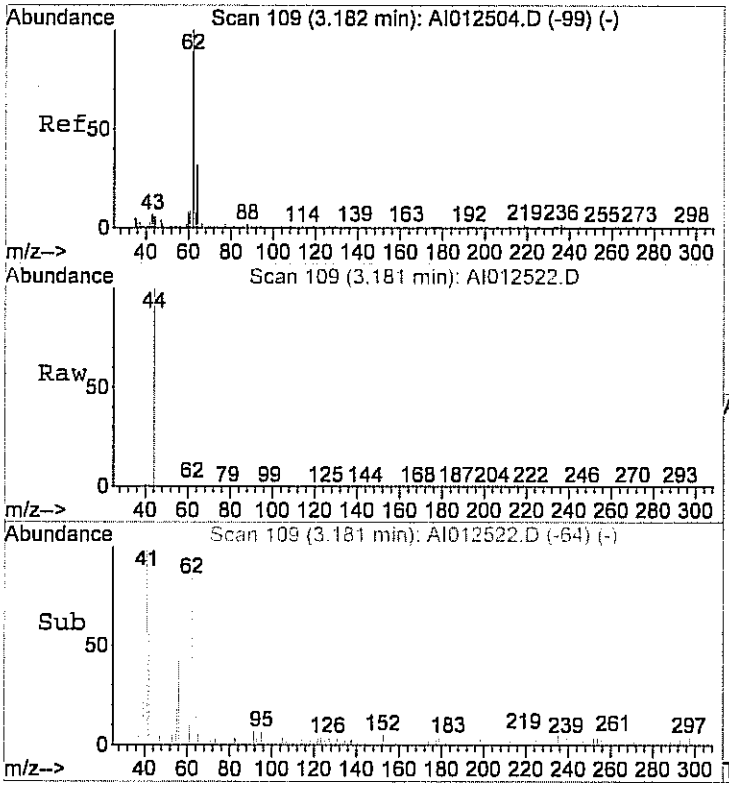


#3
Freon 12
Concen: 0.68 ppb
RT: 2.90 min Scan# 22
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 85 Resp: 44163

Ion	Ratio	Lower	Upper
85	100		
87	33.8	12.2	52.2

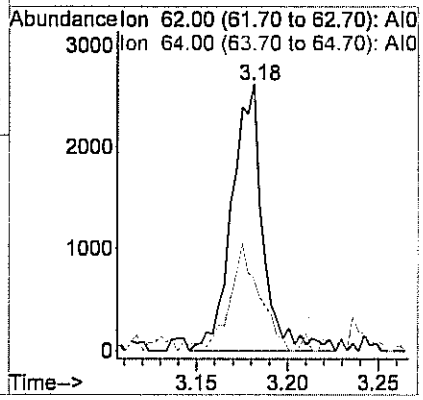


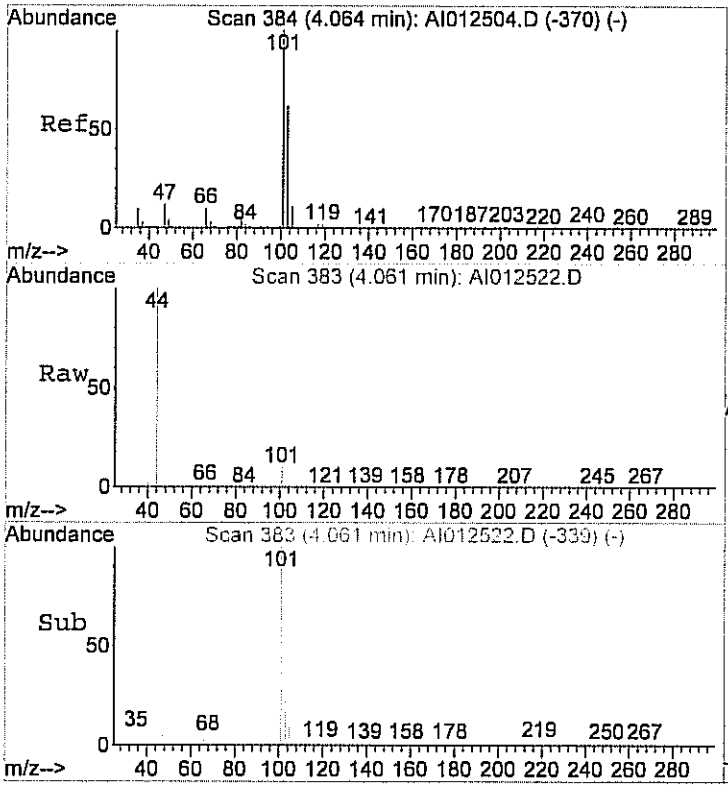


#6
Vinyl Chloride
Concen: 0.25 ppb
RT: 3.18 min Scan# 109
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 62 Resp: 3115

Ion	Ratio	Lower	Upper
62	100		
64	37.4	4.0	64.0

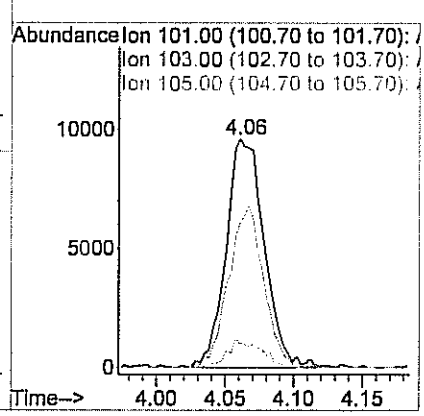


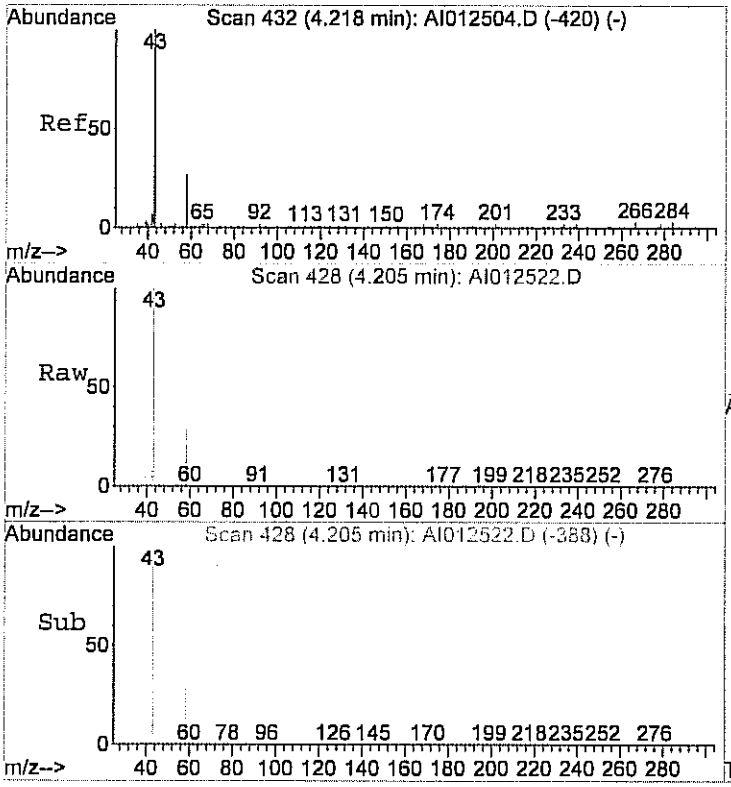


#11
Freon 11
Concen: 0.49 ppb
RT: 4.06 min Scan# 383
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:101 Resp: 18593

Ion	Ratio	Lower	Upper
101	100		
103	65.3	46.3	86.3
105	11.0	0.0	31.0

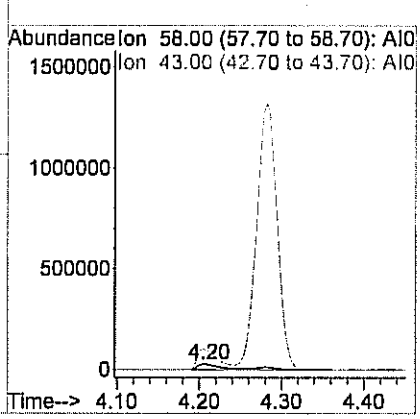


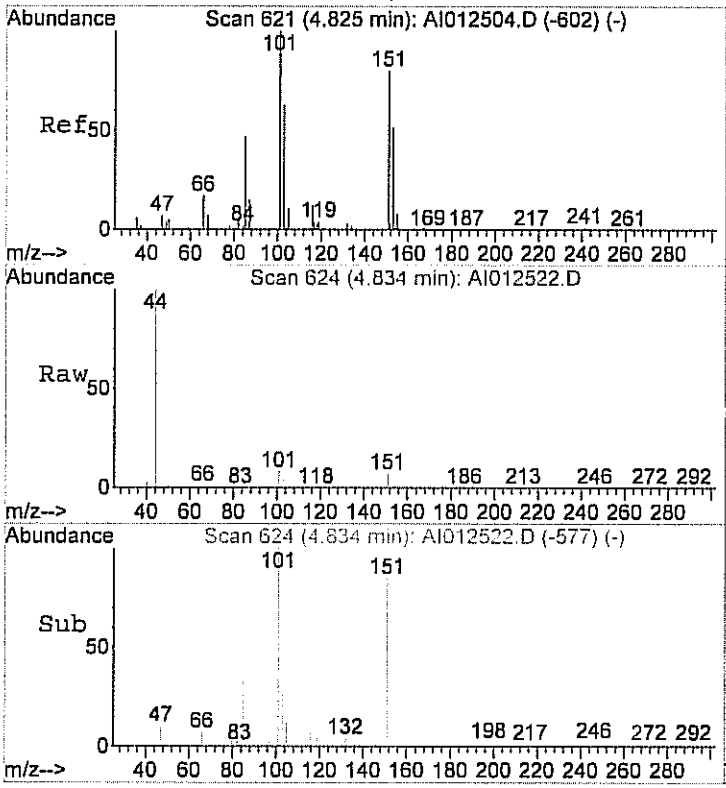


#12
Acetone
Concen: 13.28 ppb
RT: 4.20 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 58 Resp: 79272

Ion	Ratio	Lower	Upper
58	100		
43	226.6	329.0	389.0#

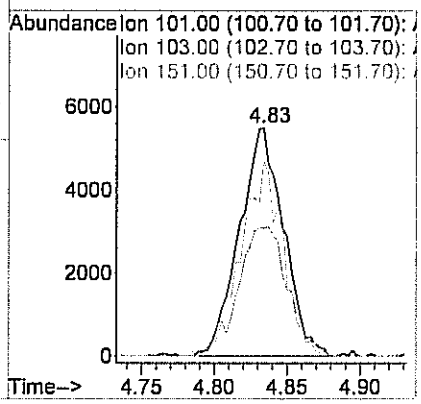


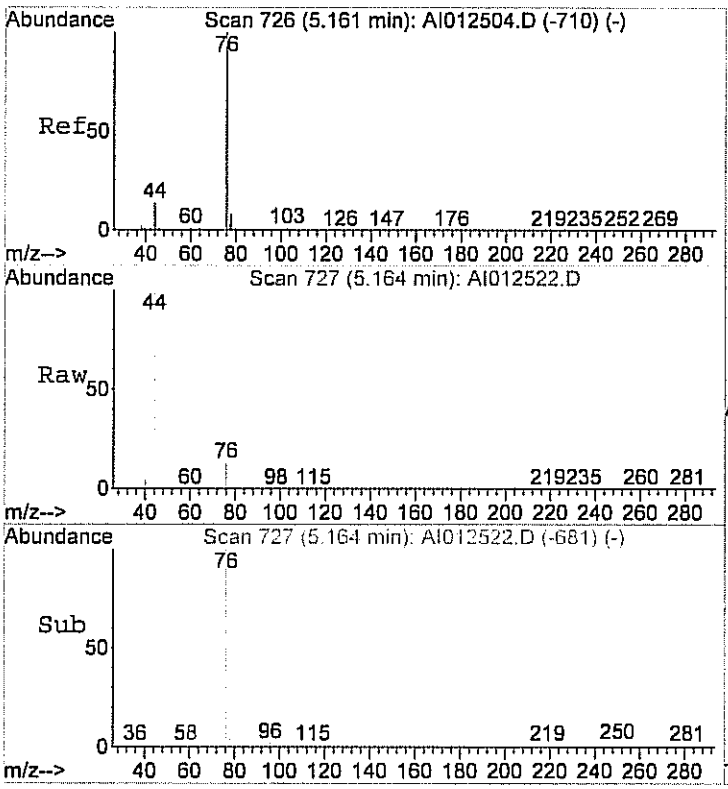


#15
Freon 113
Concen: 0.26 ppb
RT: 4.83 min Scan# 624
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:101 Resp: 11594

Ion	Ratio	Lower	Upper
101	100		
103	62.3	44.7	84.7
151	83.2	71.0	111.0

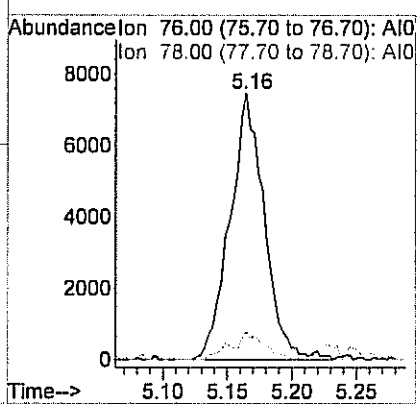


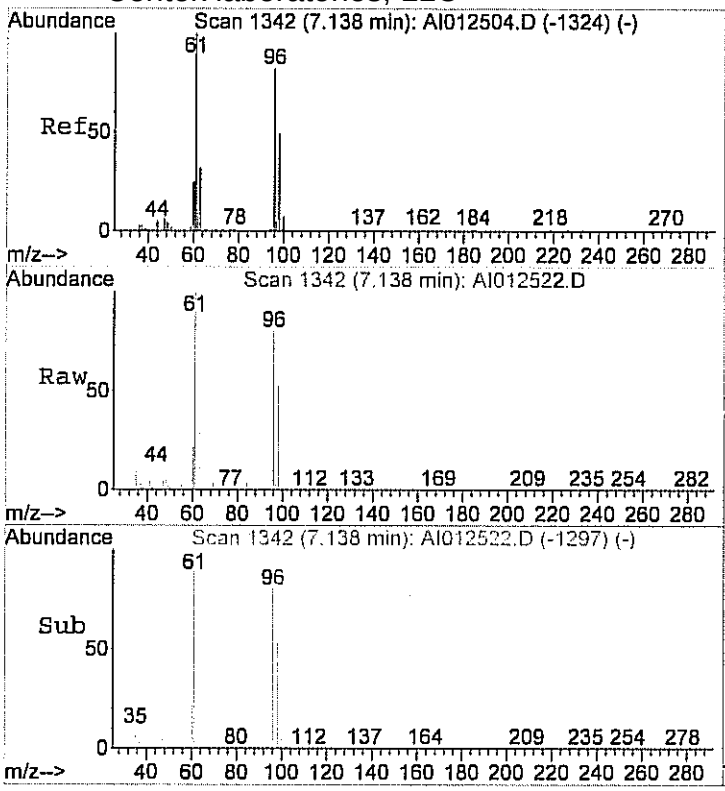


#18
Carbon disulfide
Concen: 0.25 ppb
RT: 5.16 min Scan# 727
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 76 Resp: 13842

Ion	Ratio	Lower	Upper
76	100		
78	6.7	0.0	30.1

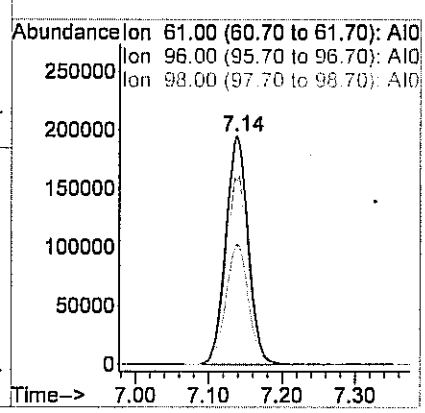


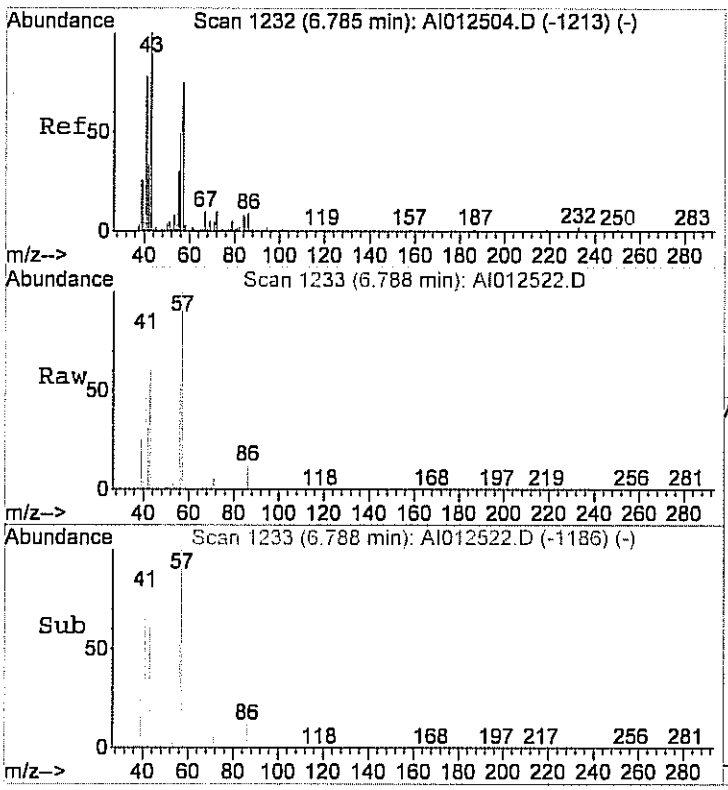


#24
cis-1,2-dichloroethene
Concen: 19.20 ppb
RT: 7.14 min Scan# 1342
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 61 Resp: 413601

Ion	Ratio	Lower	Upper
61	100		
96	82.7	68.1	108.1
98	53.4	37.3	77.3

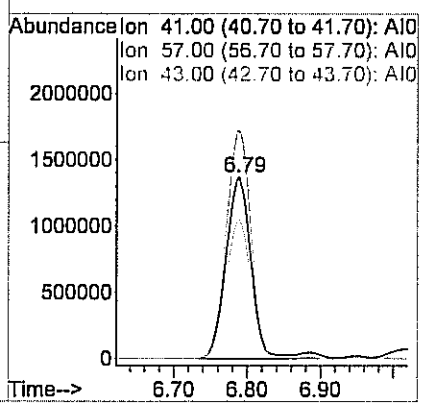


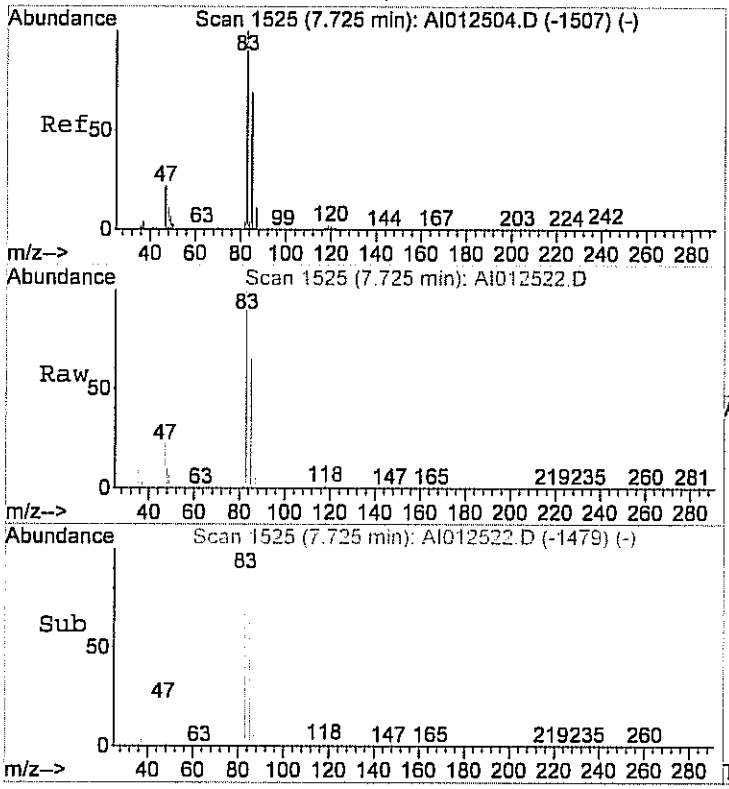


#25
Hexane
Concen: 219.15 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 41 Resp: 3331218

Ion	Ratio	Lower	Upper
41	100		
57	120.6	114.8	154.8
43	75.0	213.3	253.3#

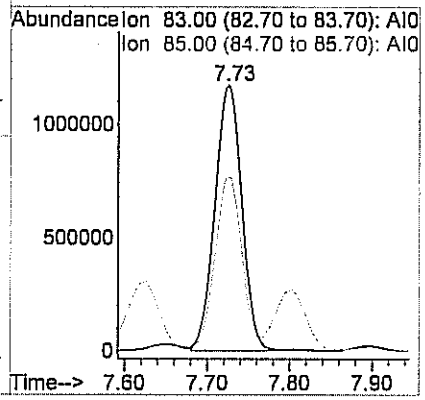


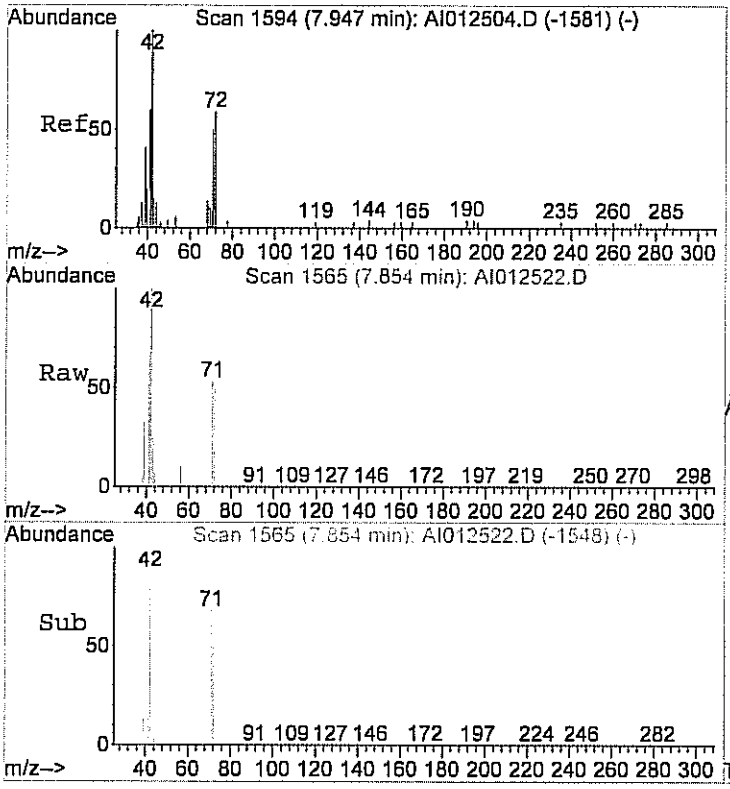


#27
Chloroform
Concen: 57.24 ppb
RT: 7.73 min Scan# 1525
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 83 Resp: 2663667

Ion	Ratio	Lower	Upper
83	100		
85	90.9	46.5	86.5#

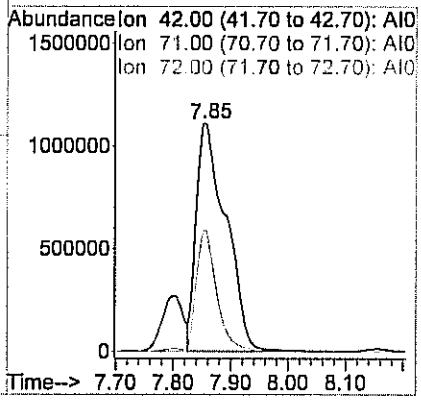


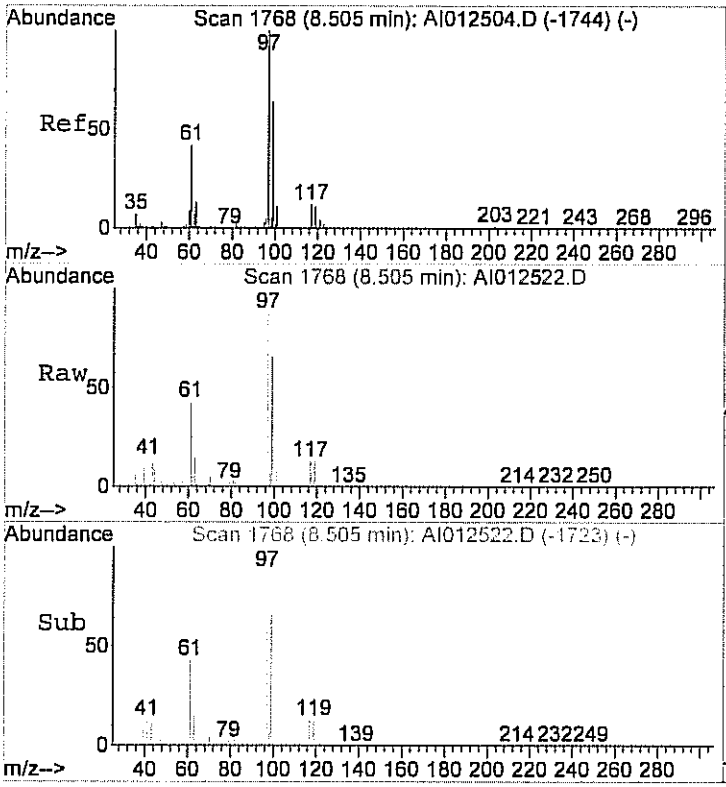


#28
Tetrahydrofuran
Concen: 406.89 ppb
RT: 7.85 min Scan# 1565
Delta R.T. -0.10 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 42 Resp: 3961393

Ion	Ratio	Lower	Upper
42	100		
71	37.2	37.9	77.9#
72	35.8	38.0	78.0#

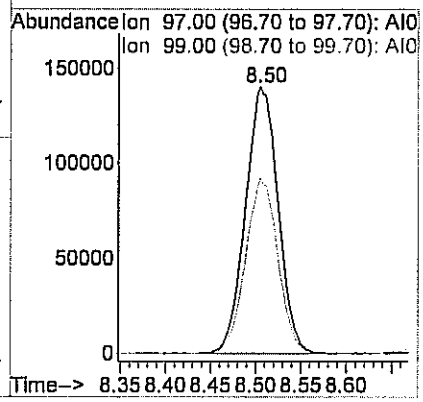


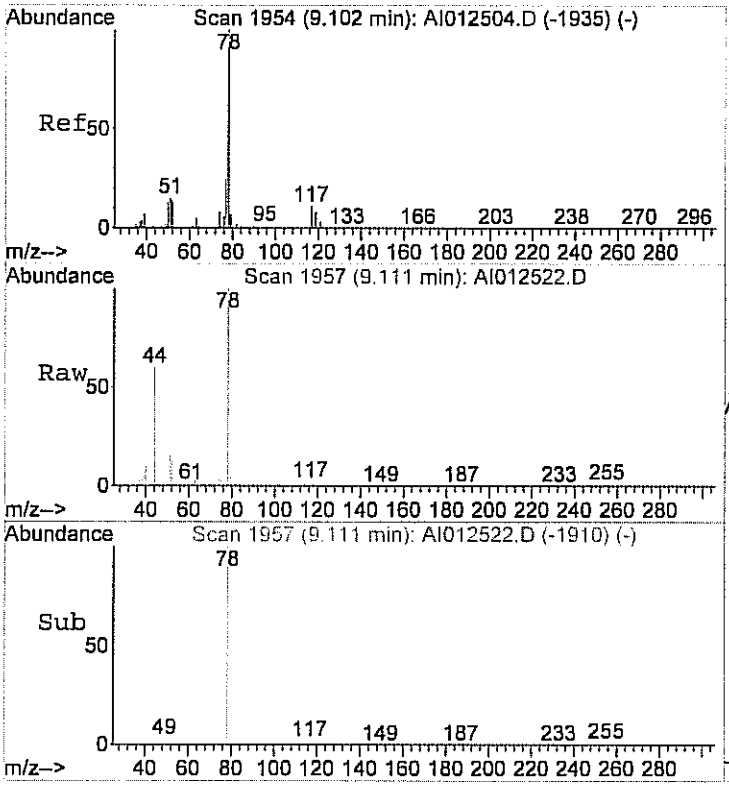


#31
1,1,1-trichloroethane
Concen: 6.19 ppb
RT: 8.50 min Scan# 1768
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 97 Resp: 353122

Ion	Ratio	Lower	Upper
97	100		
99	64.8	45.4	85.4

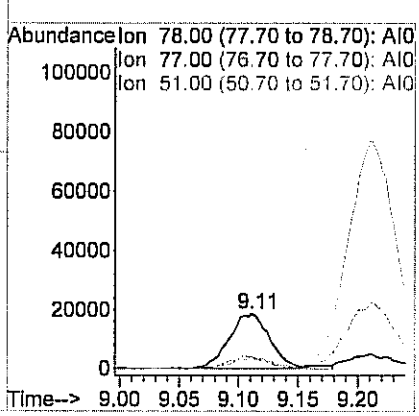


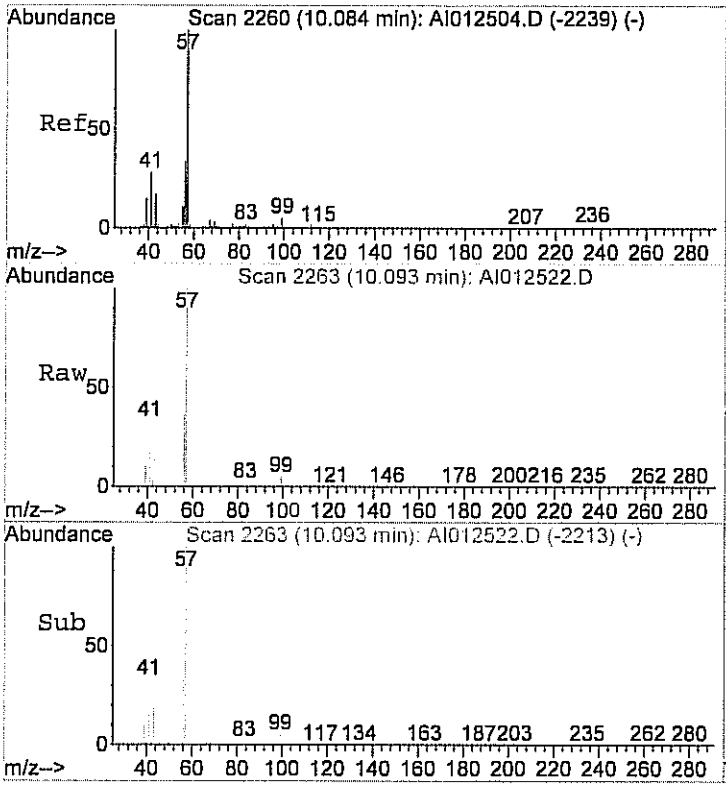


#34
Benzene
Concen: 0.74 ppb
RT: 9.11 min Scan# 1957
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 78 Resp: 45682

Ion	Ratio	Lower	Upper
78	100		
77	20.5	2.6	42.6
51	16.4	0.0	34.0

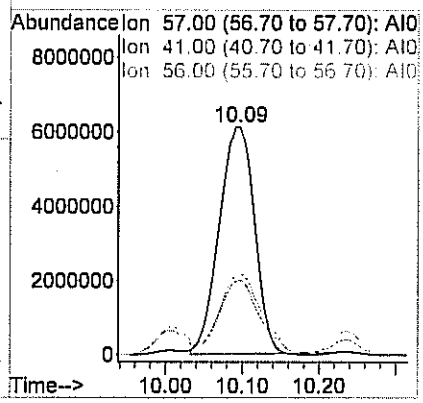


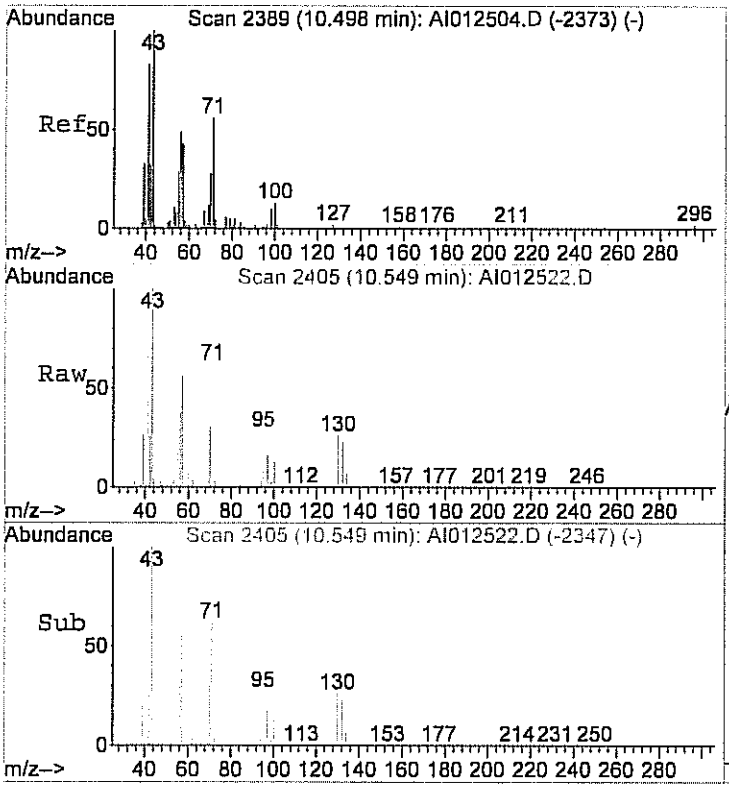


#36
2,2,4-trimethylpentane
Concen: 288.77 ppb
RT: 10.09 min Scan# 2263
Delta R.T. 0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 57 Resp:19272797

Ion	Ratio	Lower	Upper
57	100		
41	50.4	12.1	52.1
56	57.4	13.7	53.7#

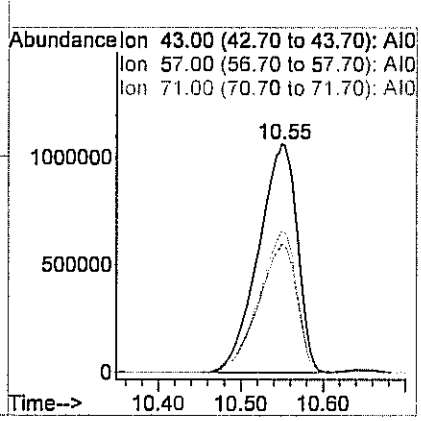


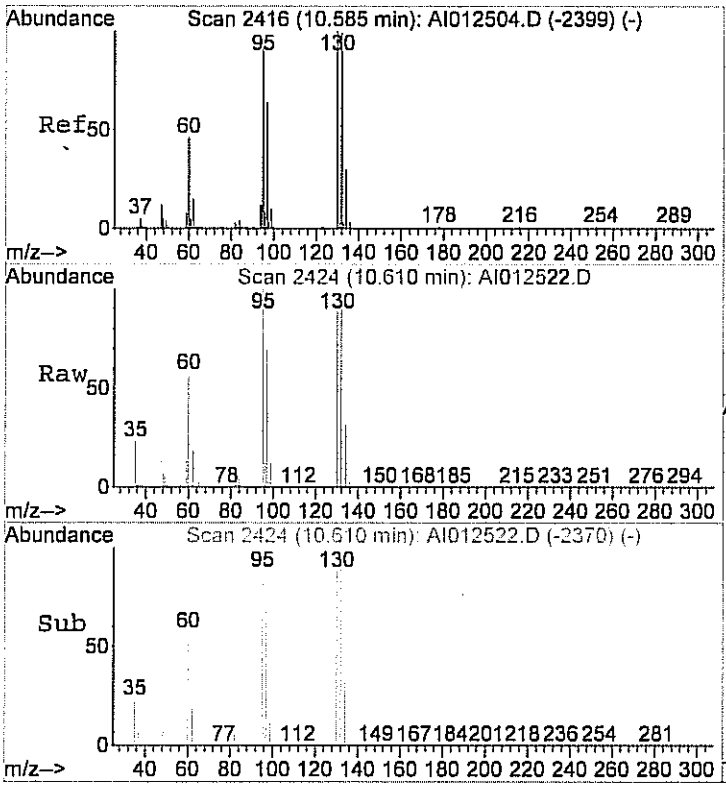


#37
Heptane
Concen: 157.13 ppb
RT: 10.55 min Scan# 2405
Delta R.T. 0.03 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 43 Resp: 3484444

Ion	Ratio	Lower	Upper
43	100		
57	55.7	37.9	77.9
71	60.3	46.6	86.6

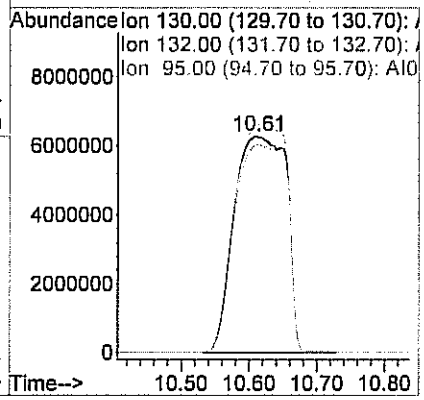


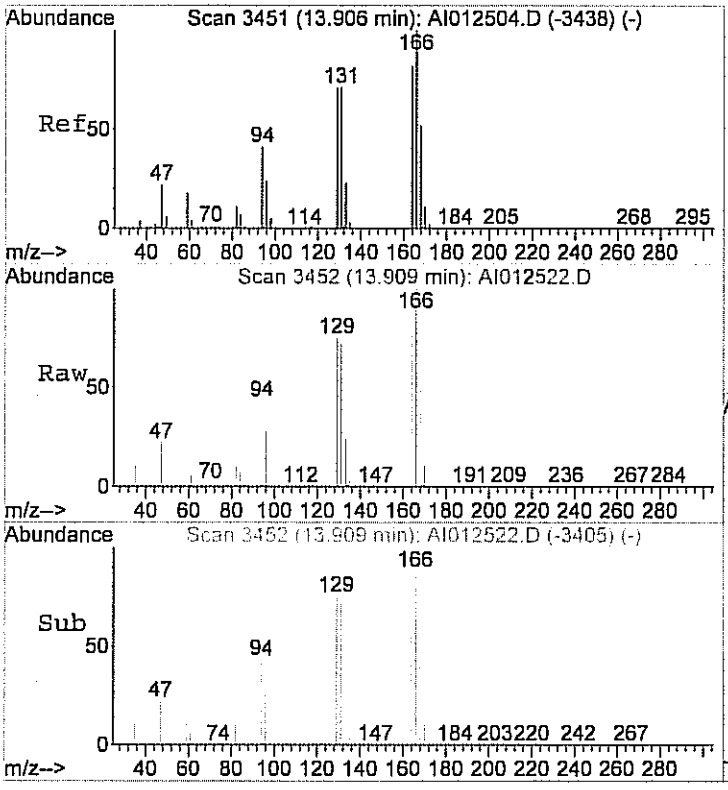


#38
Trichloroethene
Concen: 863.80 ppb
RT: 10.61 min Scan# 2424
Delta R.T. 0.02 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:130 Resp:33927068

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	104.3	70.8	110.8

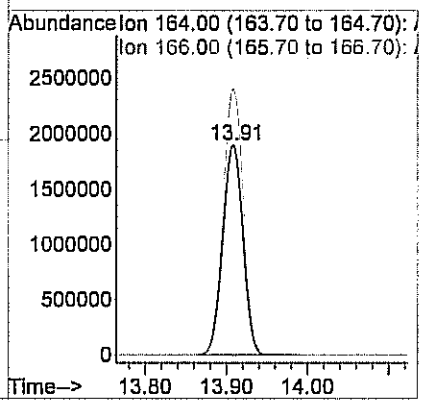


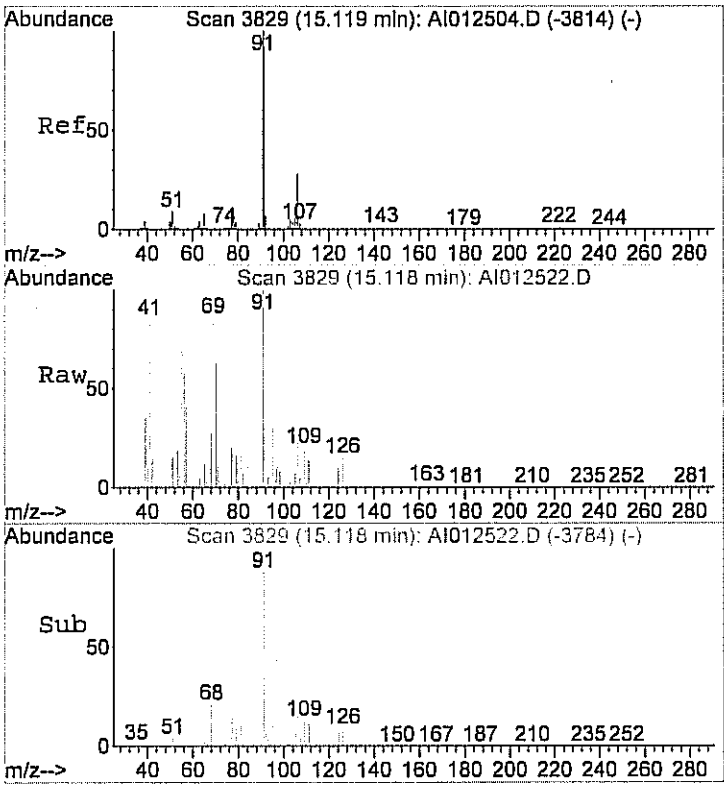


#50
Tetrachloroethylene
Concen: 81.90 ppb
RT: 13.91 min Scan# 3452
Delta R.T. -0.00 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion:164 Resp: 3294182

Ion	Ratio	Lower	Upper
164	100		
166	127.3	109.0	149.0

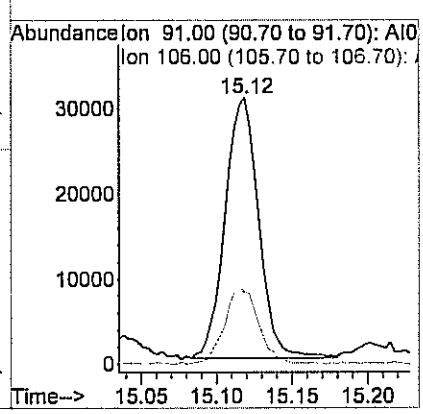


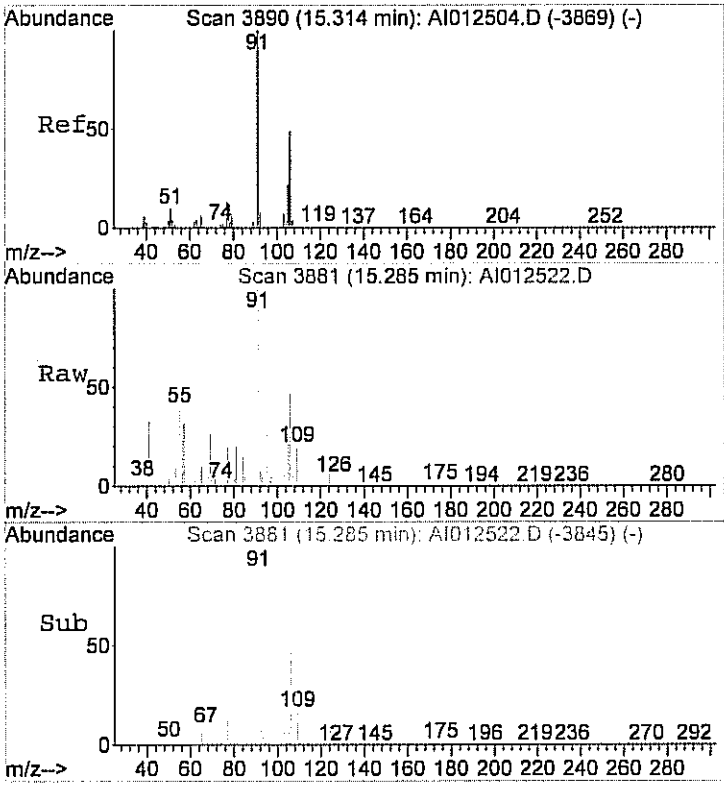


#52
Ethylbenzene
Concen: 0.71 ppb
RT: 15.12 min Scan# 3829
Delta R.T. -0.01 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 91 Resp: 47463

Ion	Ratio	Lower	Upper
91	100		
106	30.0	12.9	52.9

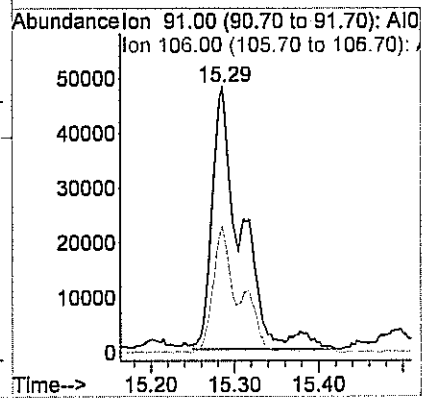




#53
m&p-xylene
Concen: 2.09 ppb
RT: 15.29 min Scan# 3881
Delta R.T. -0.04 min
Lab File: AI012522.D
Acq: 25 Jan 2011 8:54 pm

Tgt Ion: 91 Resp: 114489

Ion	Ratio	Lower	Upper
91	100		
106	43.4	29.9	69.9



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012719.D Vial: 8
Acq On : 27 Jan 2011 8:06 pm Operator: RJP
Sample : C1101031-004A 10X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 20:27:46 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

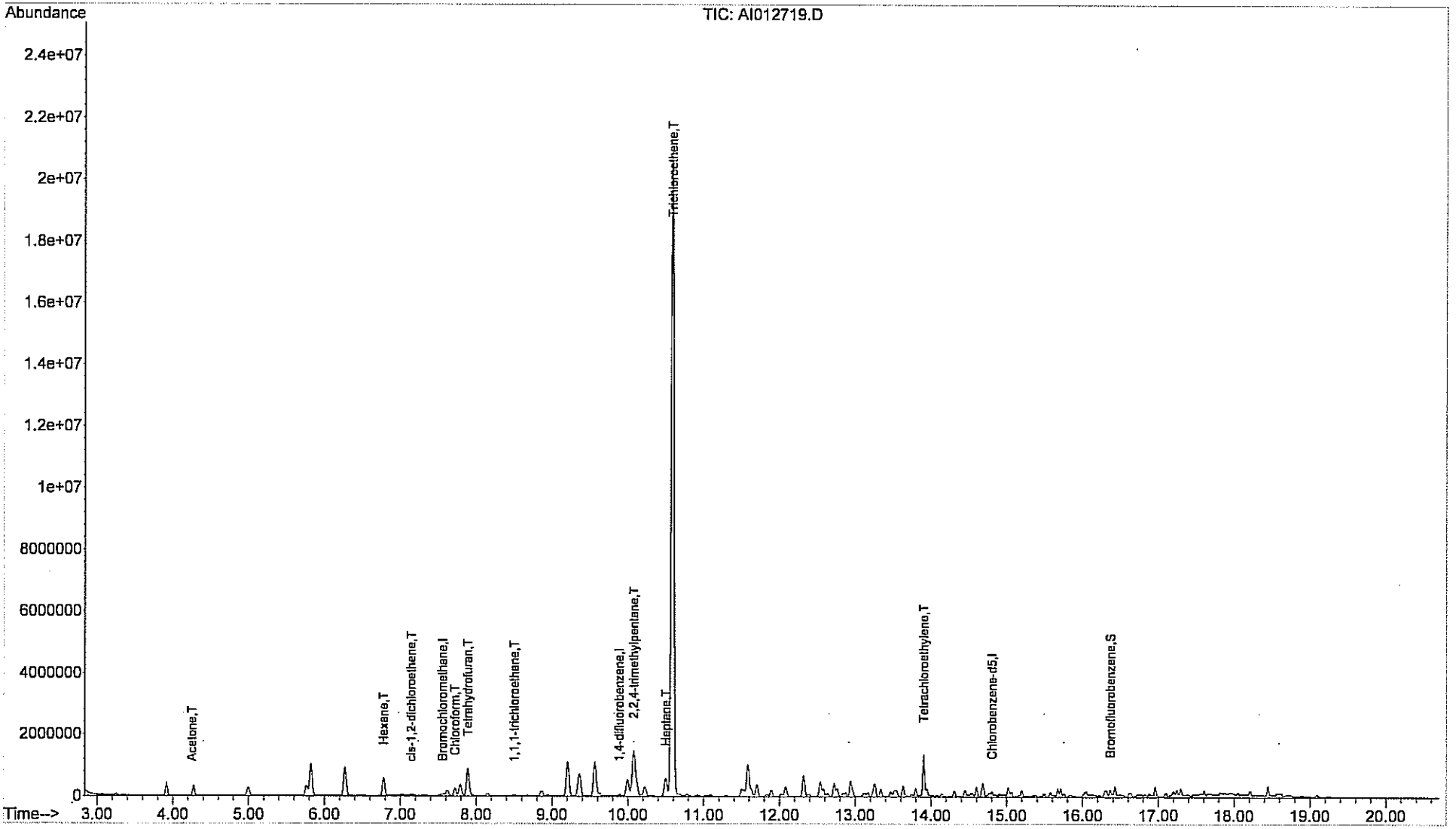
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	19064	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	64461	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	77463	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	46290	1.18	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 118.00%				
Target Compounds							Qvalue
12) Acetone	4.24	58	6332	1.23	ppb	#	1
24) cis-1,2-dichloroethene	7.13	61	29660	1.60	ppb		92
25) Hexane	6.78	41	261253	19.96	ppb	#	33
27) Chloroform	7.72	83	219479	5.48	ppb	#	74
28) Tetrahydrofuran	7.89	42	264861	31.59	ppb	#	70
31) 1,1,1-trichloroethane	8.50	97	25361	0.62	ppb		99
36) 2,2,4-trimethylpentane	10.07	57	1758262	36.56	ppb		70
37) Heptane	10.50	43	281346	17.61	ppb		94
38) Trichloroethene	10.59	130	9507888	335.98	ppb		96
50) Tetrachloroethylene	13.90	164	297961	8.02	ppb		99

(#) = qualifier out of range (m) = manual integration (+) = signals summed

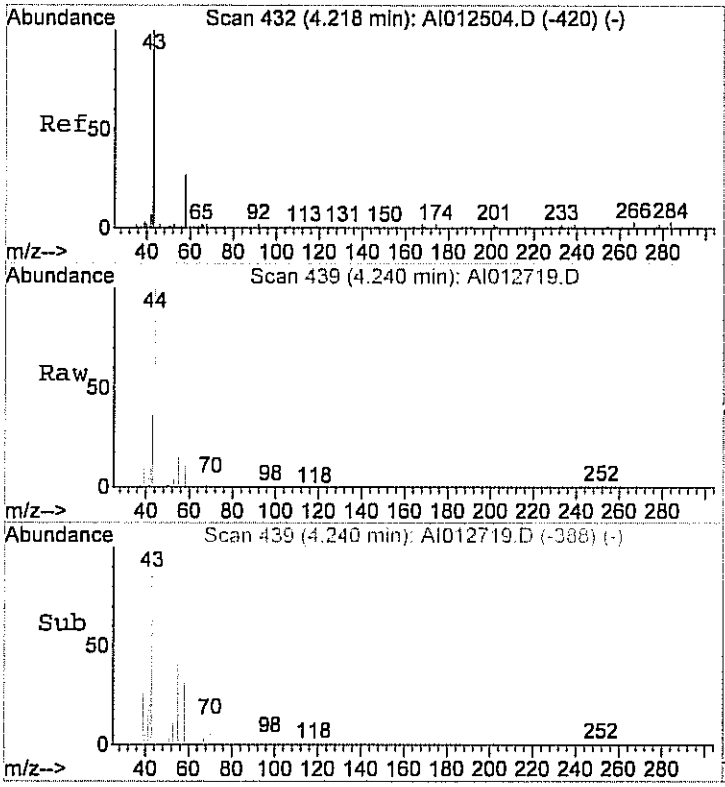
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012719.D Vial: 8
Acq On : 27 Jan 2011 8:06 pm Operator: RJP
Sample : C1101031-004A 10X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:22 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



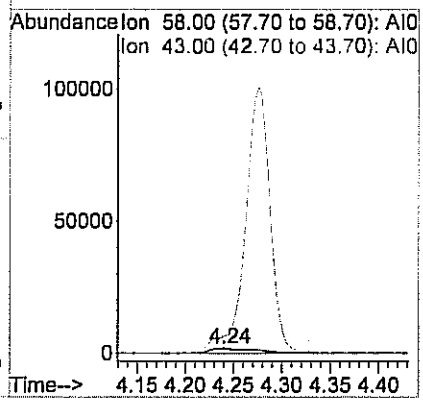
Centek laboratories, LLC

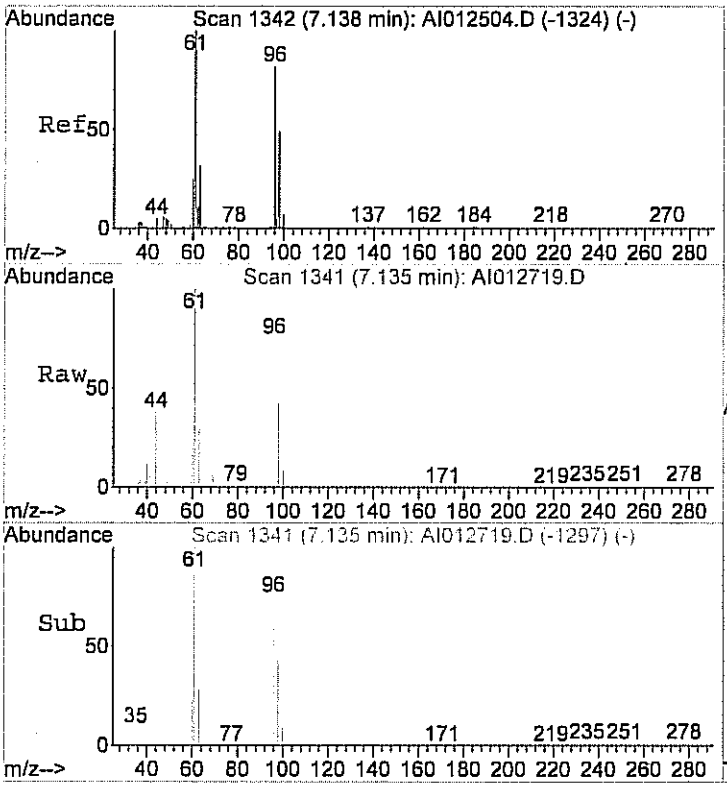


#12
Acetone
Concen: 1.23 ppb
RT: 4.24 min Scan# 439
Delta R.T. 0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 58 Resp: 6332

Ion	Ratio	Lower	Upper
58	100		
43	2838.8	329.0	389.0#

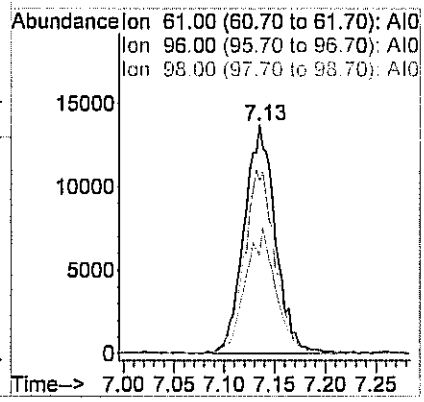


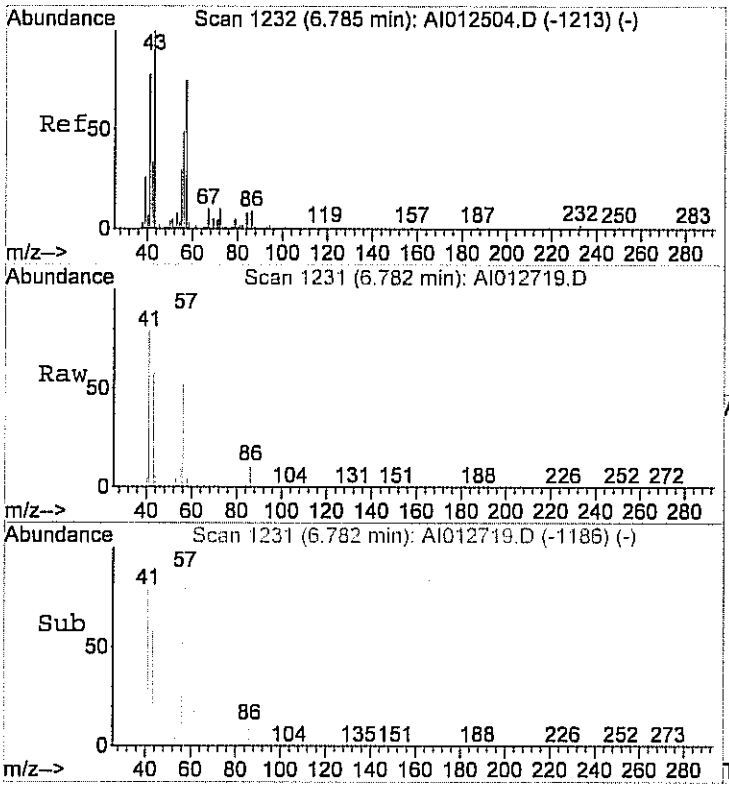


#24
cis-1,2-dichloroethene
Concen: 1.60 ppb
RT: 7.13 min Scan# 1341
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 61 Resp: 29660

Ion	Ratio	Lower	Upper
61	100		
96	79.3	68.1	108.1
98	53.1	37.3	77.3

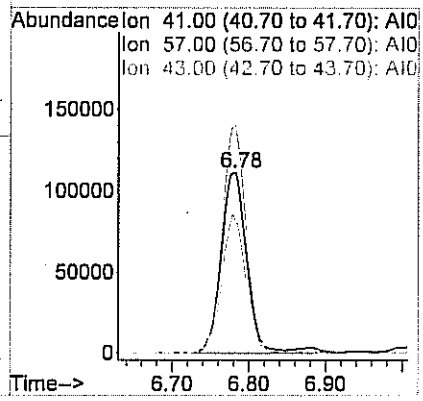


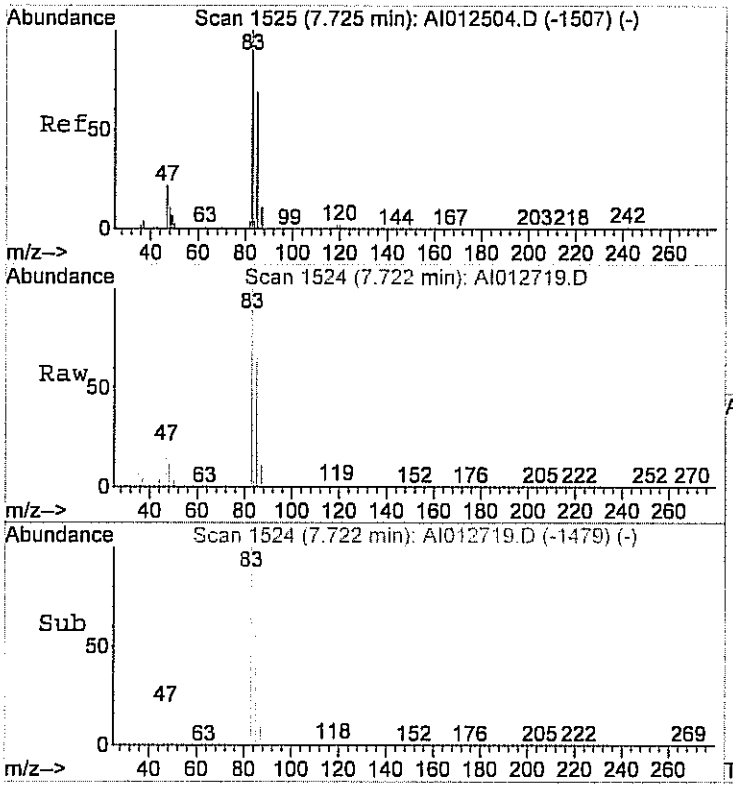


#25
Hexane
Concen: 19.96 ppb
RT: 6.78 min Scan# 1231
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 41 Resp: 261253

Ion	Ratio	Lower	Upper
41	100		
57	116.3	114.8	154.8
43	71.8	213.3	253.3#

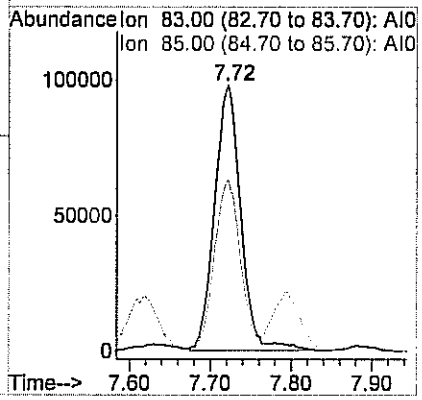


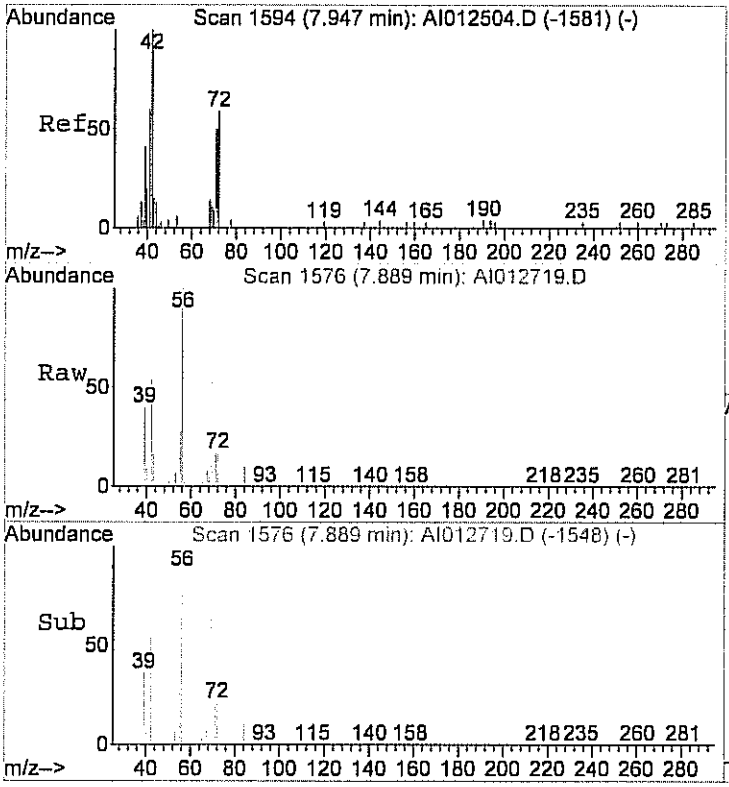


#27
Chloroform
Concen: 5.48 ppb
RT: 7.72 min Scan# 1524
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 83 Resp: 219479

Ion	Ratio	Lower	Upper
83	100		
85	87.2	46.5	86.5#

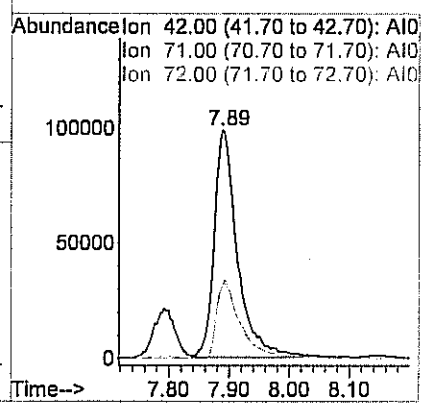


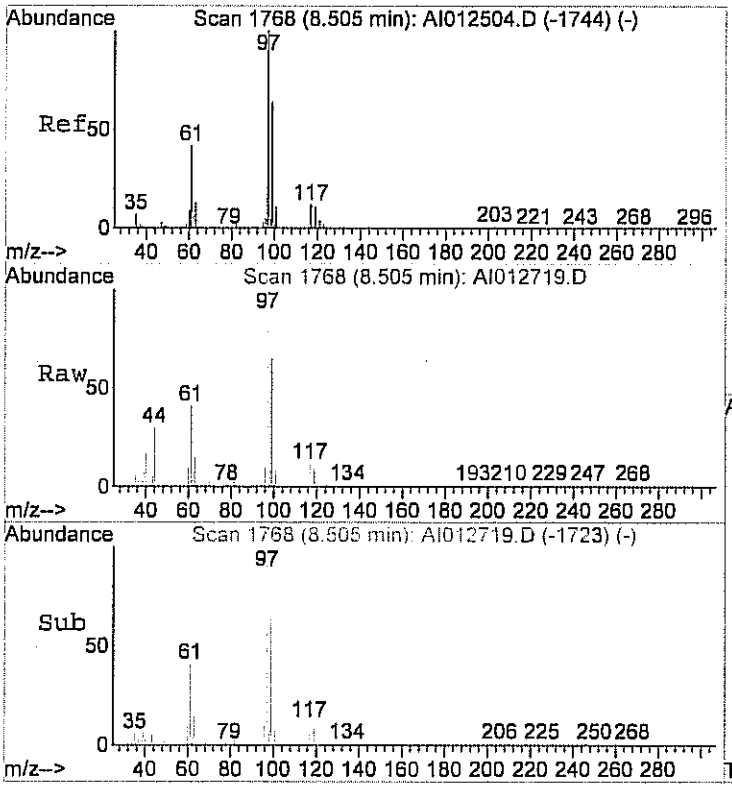


#28
Tetrahydrofuran
Concen: 31.59 ppb
RT: 7.89 min Scan# 1576
Delta R.T. -0.06 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 42 Resp: 264861

Ion	Ratio	Lower	Upper
42	100		
71	36.0	37.9	77.9#
72	35.2	38.0	78.0#

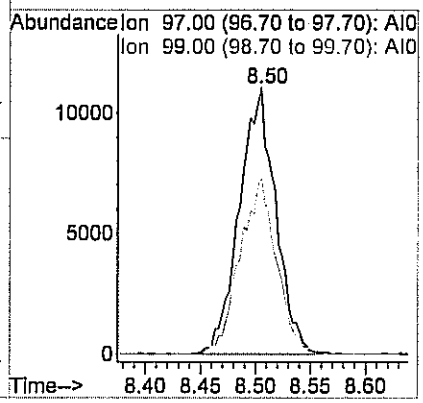


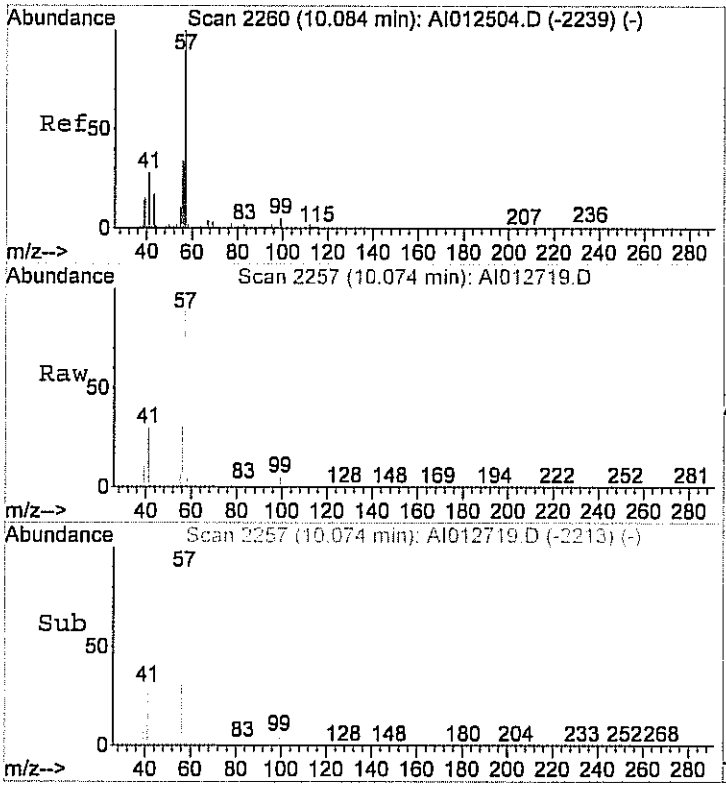


#31
1,1,1-trichloroethane
Concen: 0.62 ppb
RT: 8.50 min Scan# 1768
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 97 Resp: 25361

Ion	Ratio	Lower	Upper
97	100		
99	66.4	45.4	85.4

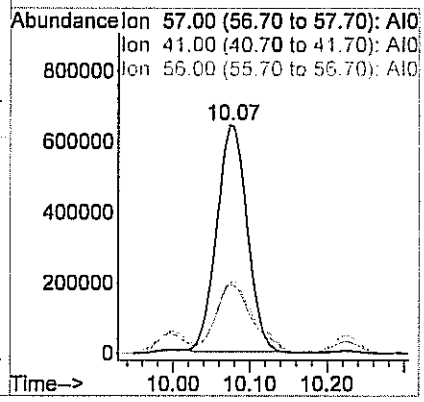


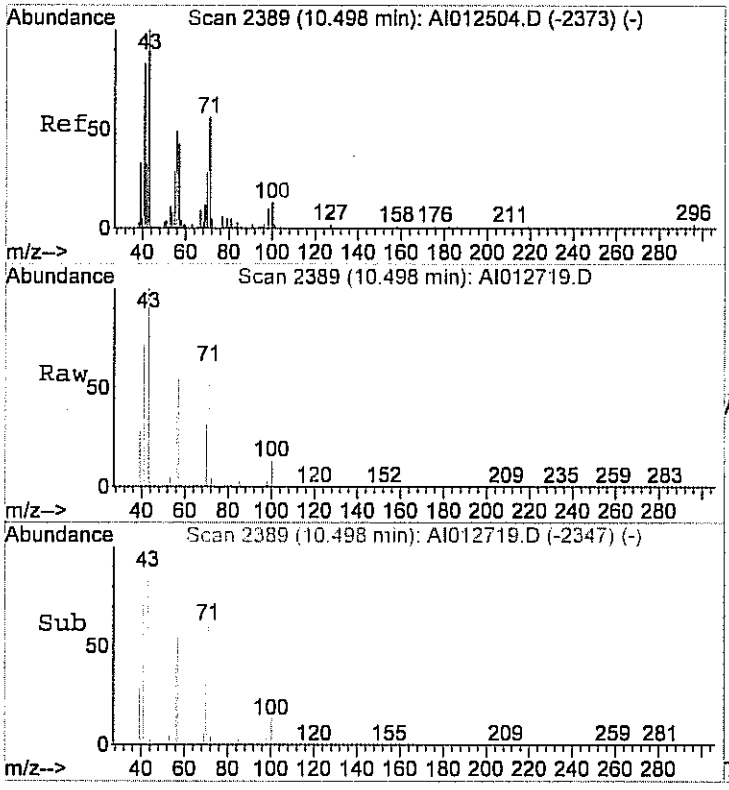


#36
2,2,4-trimethylpentane
Concen: 36.56 ppb
RT: 10.07 min Scan# 2257
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 57 Resp: 1758262

Ion	Ratio	Lower	Upper
57	100		
41	47.8	12.1	52.1
56	52.1	13.7	53.7

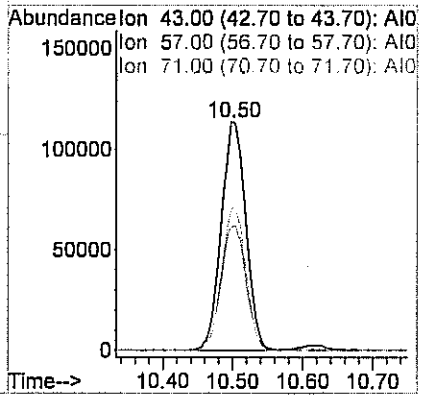


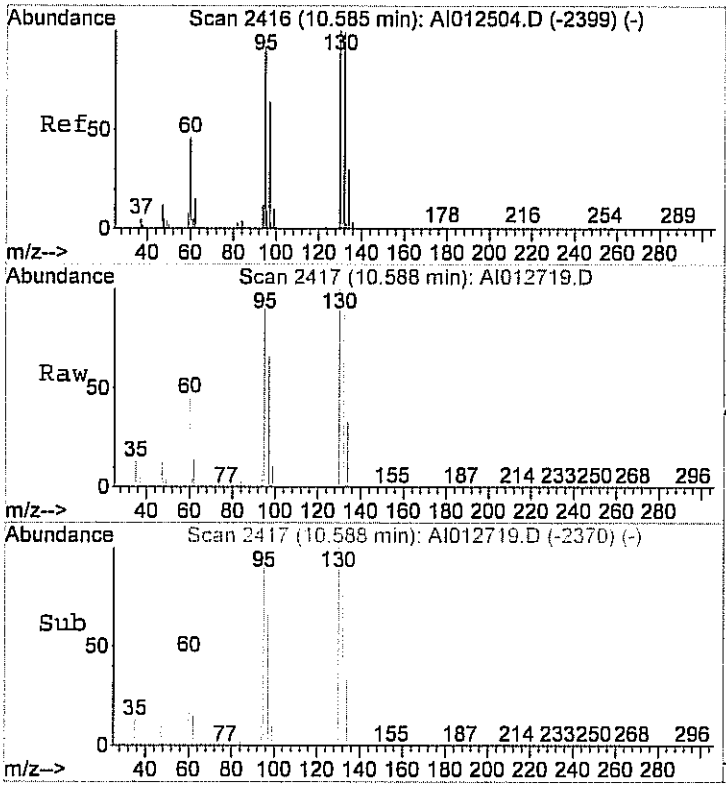


#37
Heptane
Concen: 17.61 ppb
RT: 10.50 min Scan# 2389
Delta R.T. -0.02 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion: 43 Resp: 281346

Ion	Ratio	Lower	Upper
43	100		
57	54.3	37.9	77.9
71	60.6	46.6	86.6

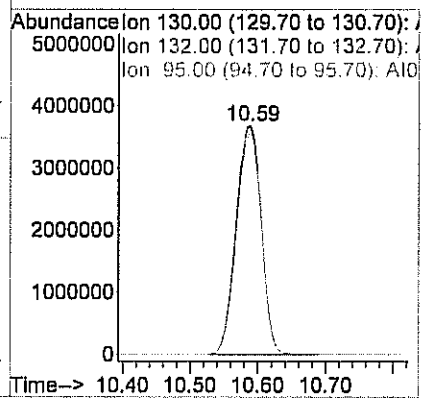


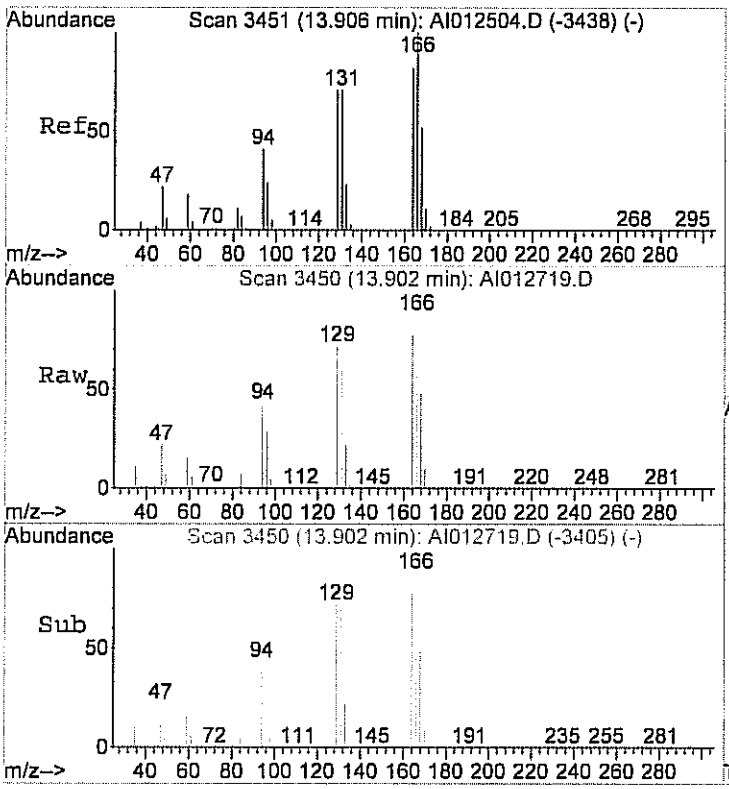


#38
Trichloroethene
Concen: 335.98 ppb
RT: 10.59 min Scan# 2417
Delta R.T. -0.00 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion:130 Resp: 9507888

Ion	Ratio	Lower	Upper
130	100		
132	96.7	77.0	117.0
95	99.3	70.8	110.8

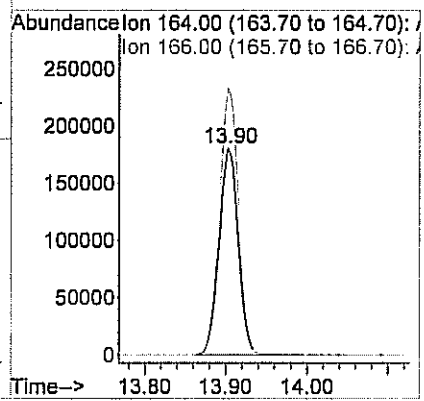




#50
Tetrachloroethylene
Concen: 8.02 ppb
RT: 13.90 min Scan# 3450
Delta R.T. -0.01 min
Lab File: AI012719.D
Acq: 27 Jan 2011 8:06 pm

Tgt Ion:164 Resp: 297961

Ion	Ratio	Lower	Upper
164	100		
166	128.2	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012720.D Vial: 9
Acq On : 27 Jan 2011 8:39 pm Operator: RJP
Sample : C1101031-004A 90X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 20:59:55 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	18851	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	62562	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	55244	1.00	ppb	-0.01
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	26350	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
25) Hexane	6.79	41	25576	1.98	ppb	# 24
27) Chloroform	7.72	83	25228	0.64	ppb	89
28) Tetrahydrofuran	7.95	42	15740m	1.90	ppb	
36) 2,2,4-trimethylpentane	10.08	57	176061	3.77	ppb	73
37) Heptane	10.49	43	20258	1.31	ppb	95
38) Trichloroethene	10.58	130	1183955	43.11	ppb	95
50) Tetrachloroethylene	13.91	164	25354	0.96	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

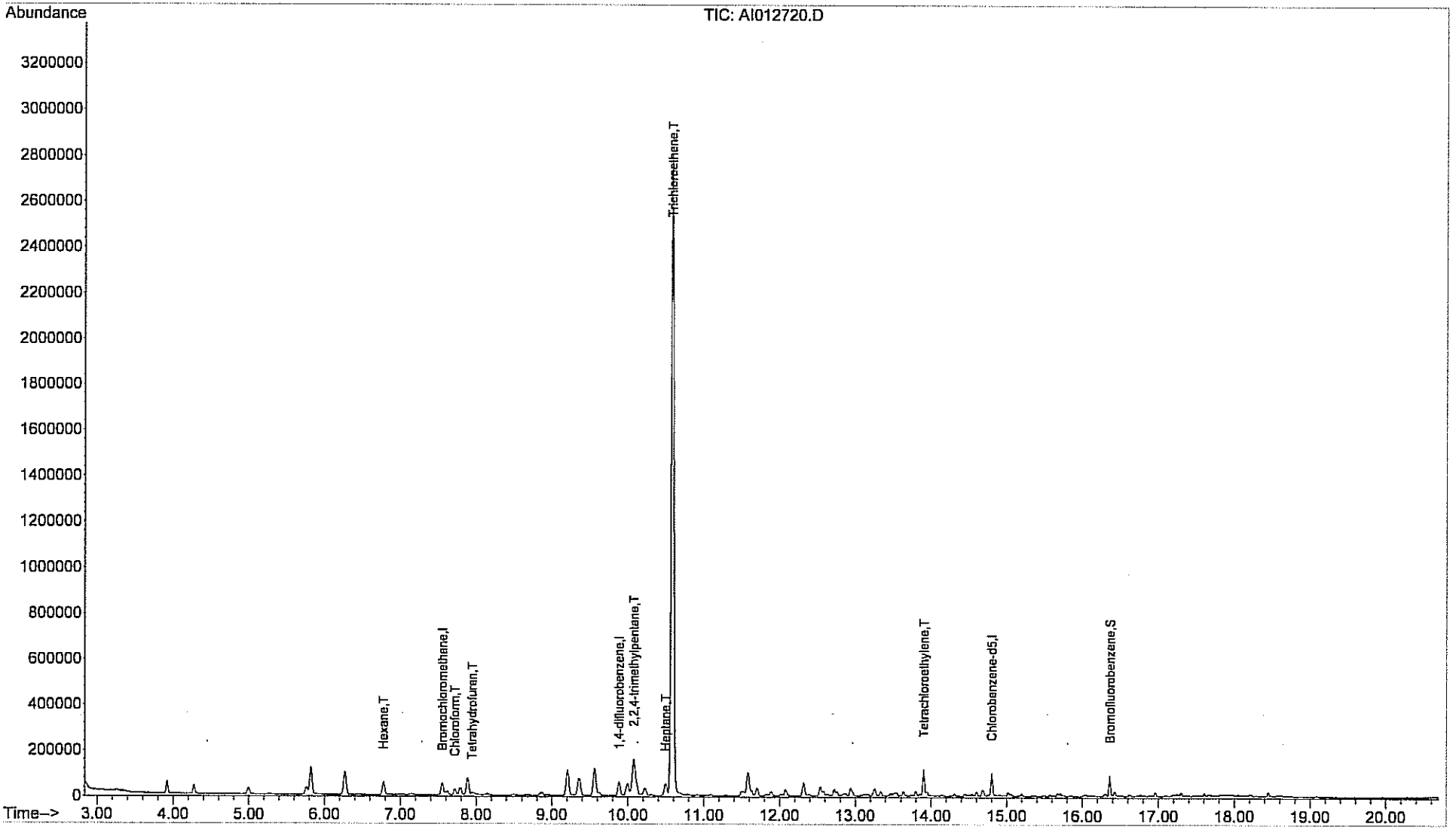
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012720.D
Acq On : 27 Jan 2011 8:39 pm
Sample : C1101031-004A 90X
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:36 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

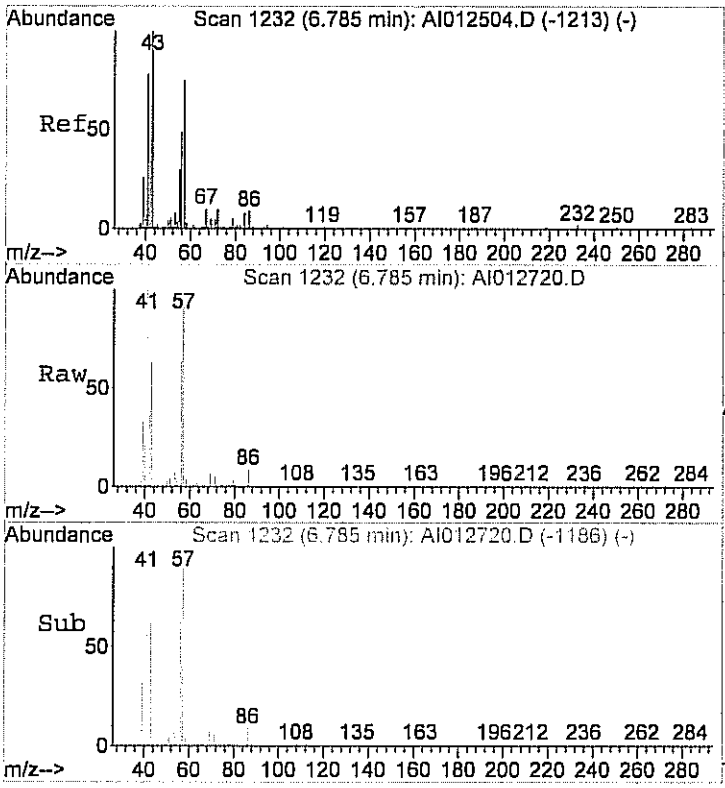
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012720.D A106_1UG.M Tue Feb 08 15:45:28 2011 MSD1 Page 2

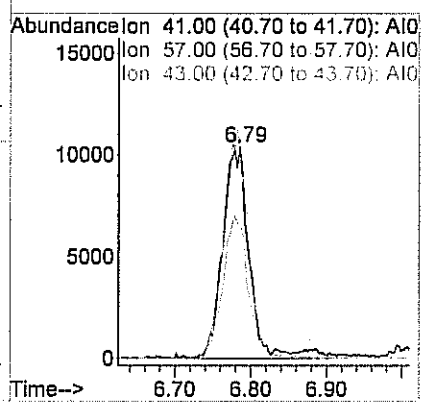
Centek laboratories, LLC

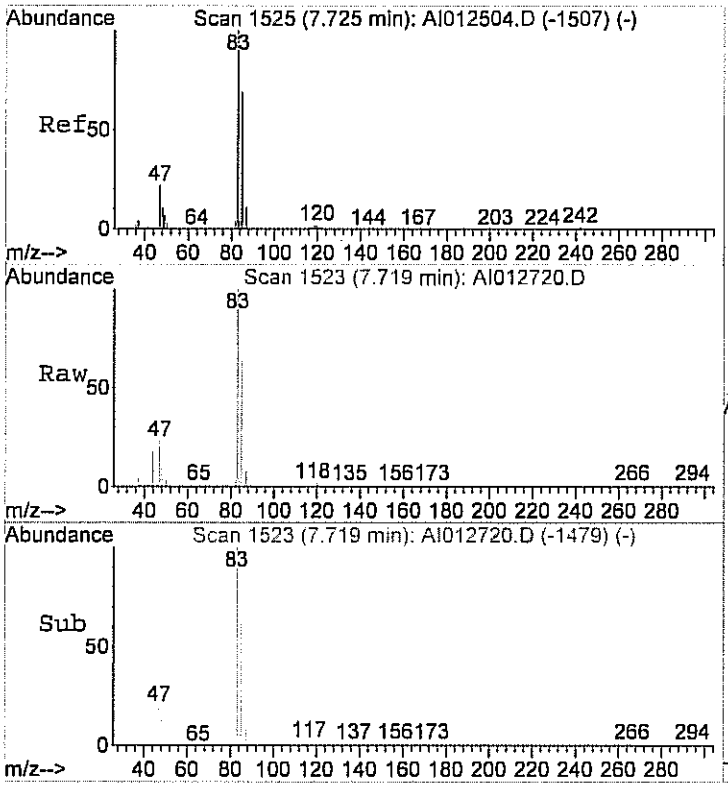


#25
Hexane
Concen: 1.98 ppb
RT: 6.79 min Scan# 1232
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 41 Resp: 25576

Ion	Ratio	Lower	Upper
41	100		
57	95.9	114.8	154.8#
43	63.9	213.3	253.3#

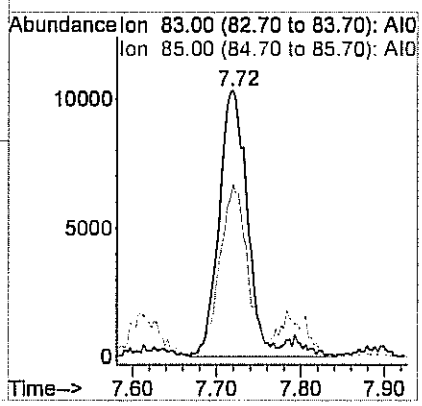


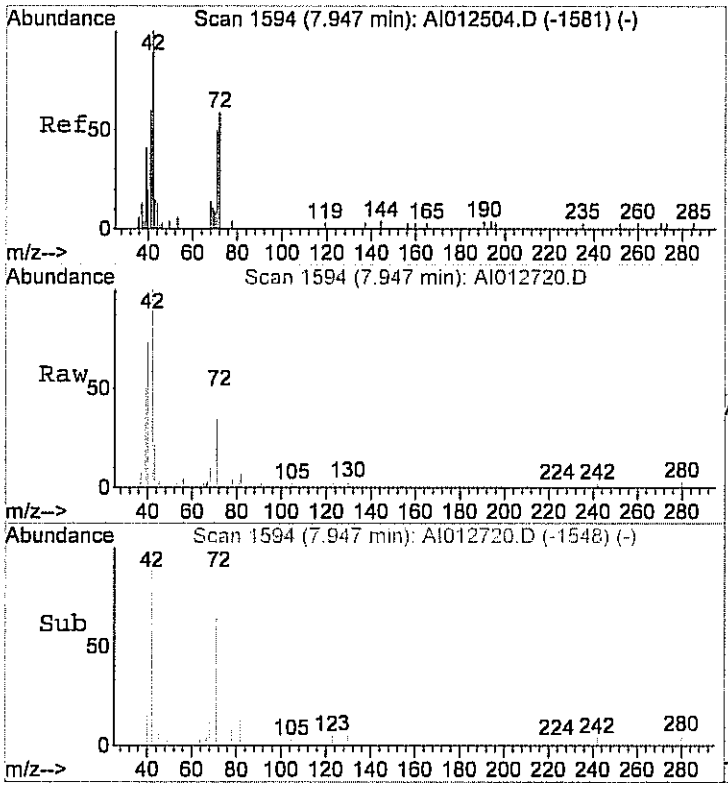


#27
Chloroform
Concen: 0.64 ppb
RT: 7.72 min Scan# 1523
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 83 Resp: 25228

Ion	Ratio	Lower	Upper
83	100		
85	75.5	46.5	86.5

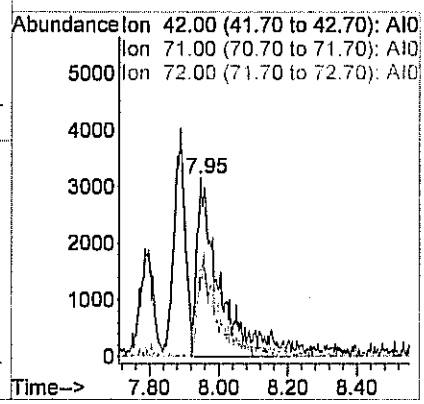


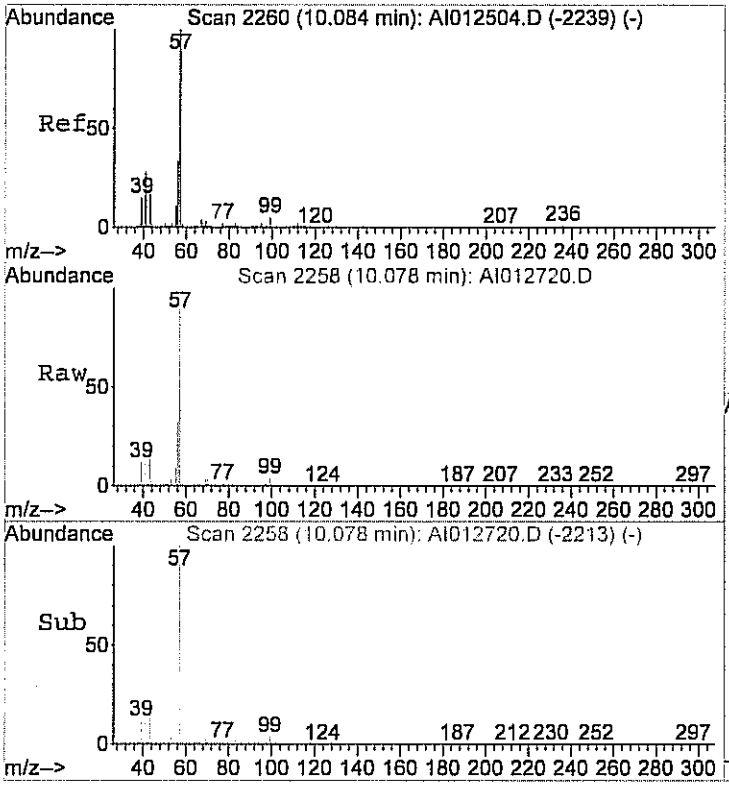


#28
Tetrahydrofuran
Concen: 1.90 ppb m
RT: 7.95 min Scan# 1594
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 42 Resp: 15740

Ion	Ratio	Lower	Upper
42	100		
71	40.1	37.9	77.9
72	38.8	38.0	78.0

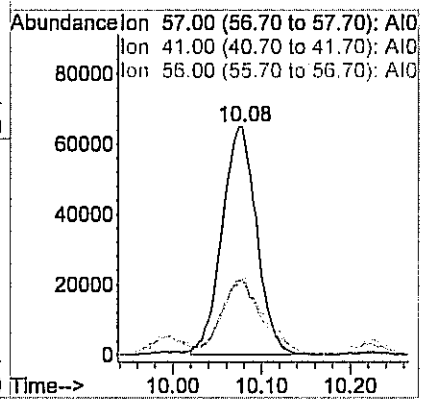


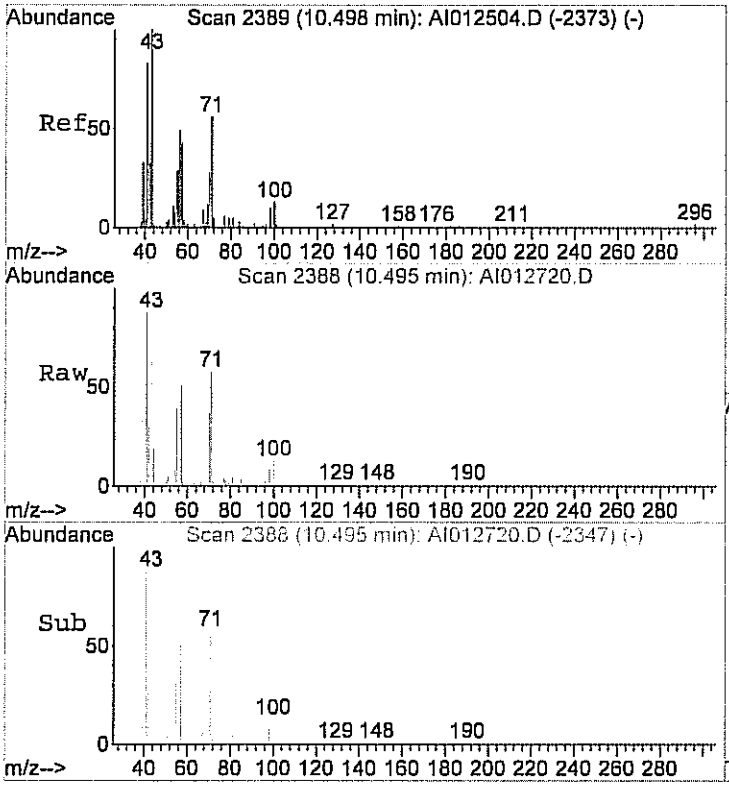


#36
2,2,4-trimethylpentane
Concen: 3.77 ppb
RT: 10.08 min Scan# 2258
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 57 Resp: 176061

Ion	Ratio	Lower	Upper
57	100		
41	48.5	12.1	52.1
56	48.1	13.7	53.7

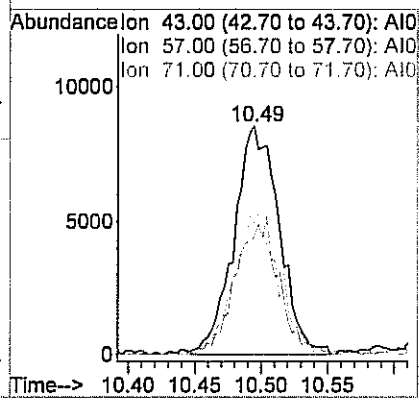


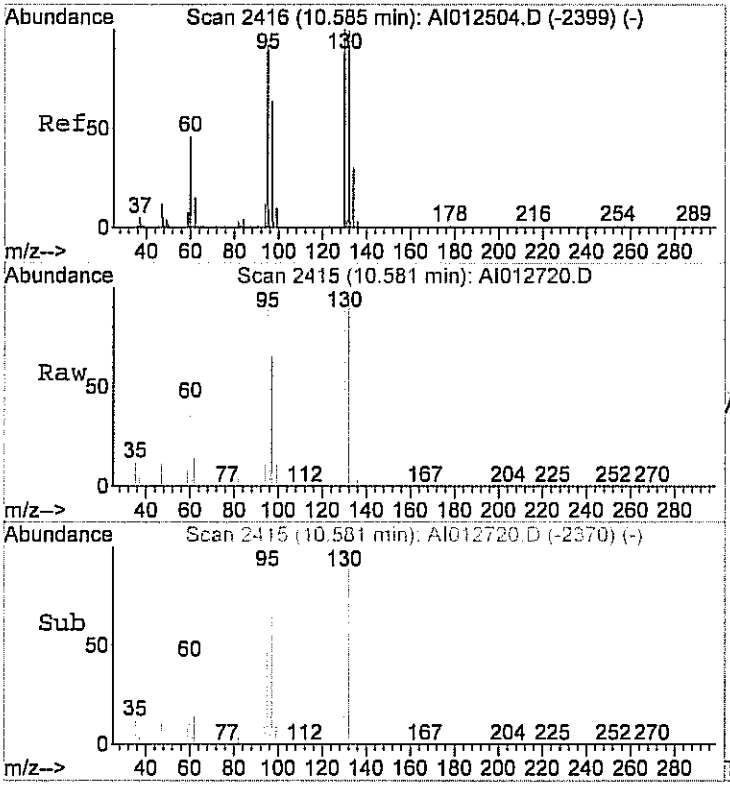


#37
Heptane
Concen: 1.31 ppb
RT: 10.49 min Scan# 2388
Delta R.T. -0.02 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion: 43 Resp: 20258

Ion	Ratio	Lower	Upper
43	100		
57	56.9	37.9	77.9
71	60.7	46.6	86.6

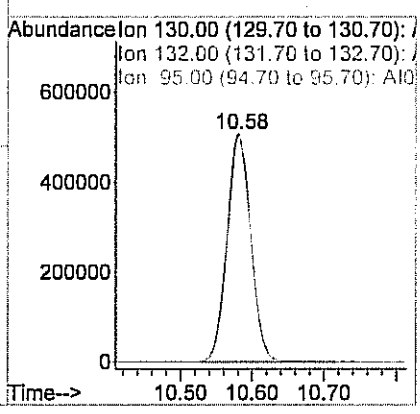


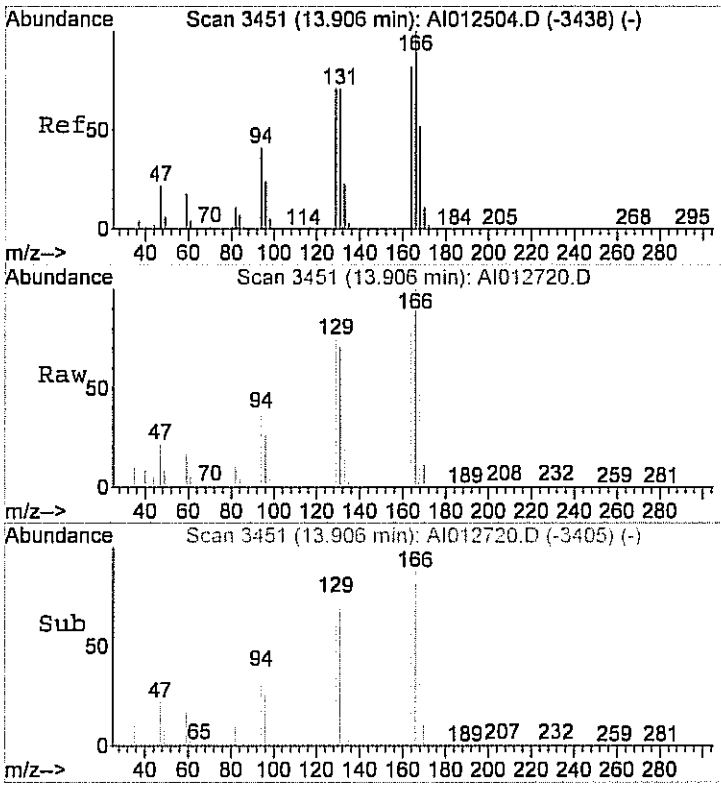


#38
Trichloroethene
Concen: 43.11 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion:130 Resp: 1183955

Ion	Ratio	Lower	Upper
130	100		
132	97.0	77.0	117.0
95	100.3	70.8	110.8

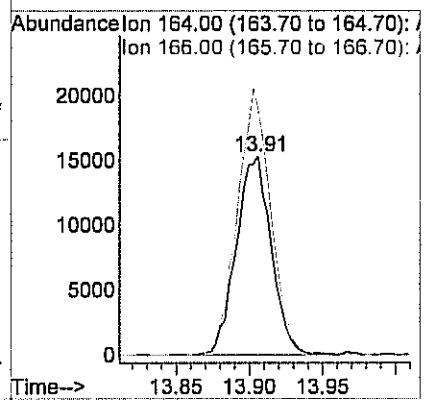




#50
Tetrachloroethylene
Concen: 0.96 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012720.D
Acq: 27 Jan 2011 8:39 pm

Tgt Ion:164 Resp: 25354

Ion	Ratio	Lower	Upper
164	100		
166	127.1	109.0	149.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012812.D Vial: 4
Acq On : 28 Jan 2011 5:31 pm Operator: RJP
Sample : C1101031-004A 2430X Inst : MSD #1
Misc : C1101031-004A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 17:52:41 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	28331	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	73869	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	69668	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	33122	0.94	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 94.00%			
Target Compounds						Qvalue
36) 2,2,4-trimethylpentane	10.08	57	7429m	0.13	ppb	
38) Trichloroethene	10.58	130	66045	2.04	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

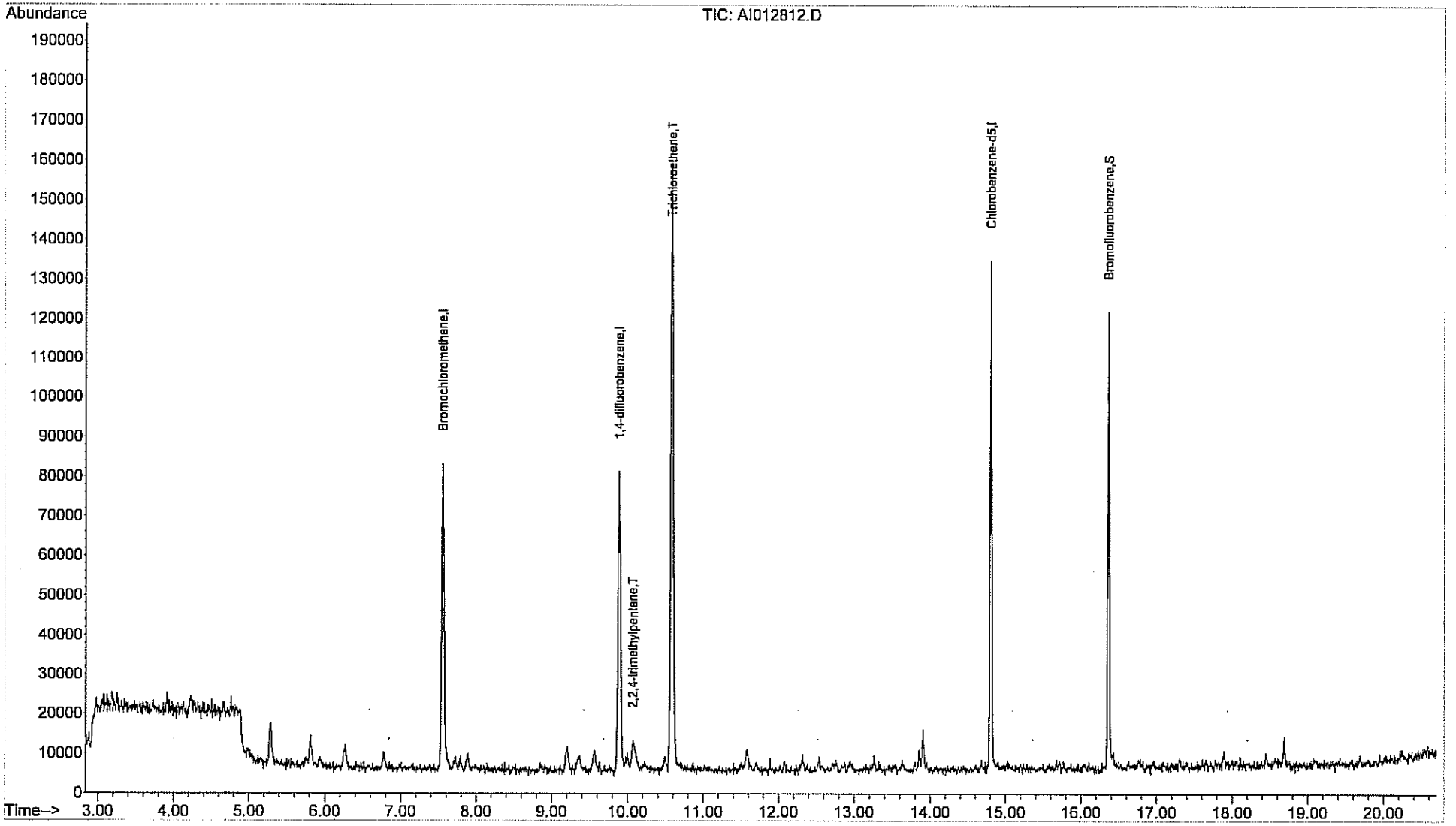
Quantitation Report (QT Reviewed)

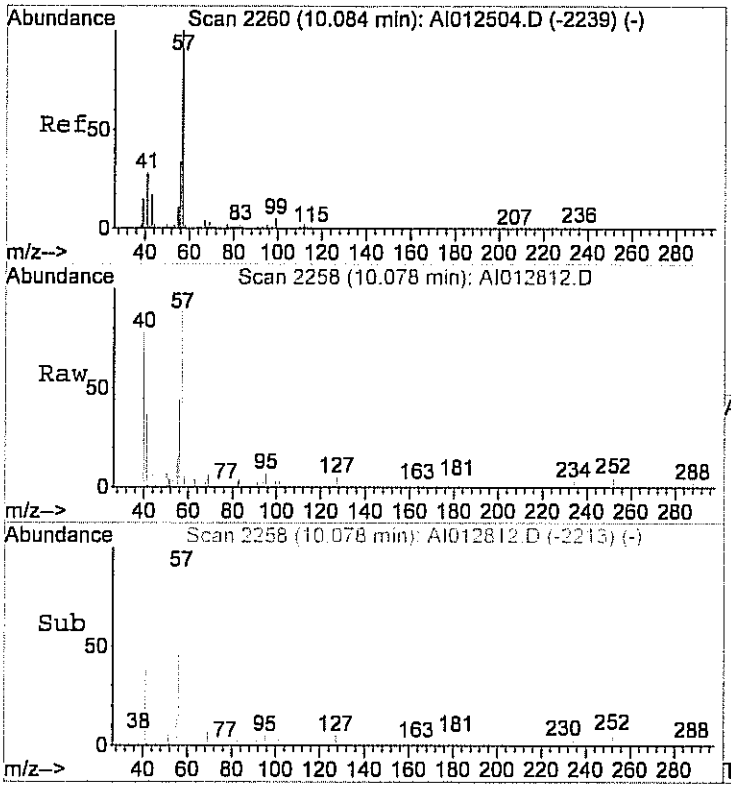
Data File : C:\HPCHEM\1\DATA\AI012812.D
Acq On : 28 Jan 2011 5:31 pm
Sample : C1101031-004A 2430X
Misc : C1101031-004A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:36 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

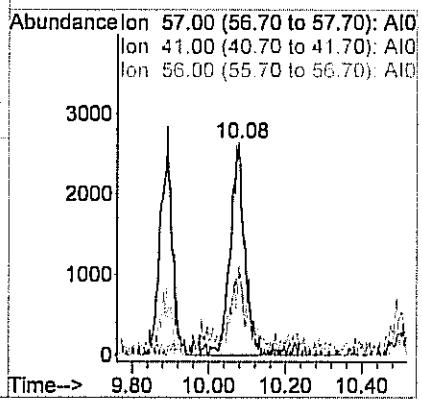


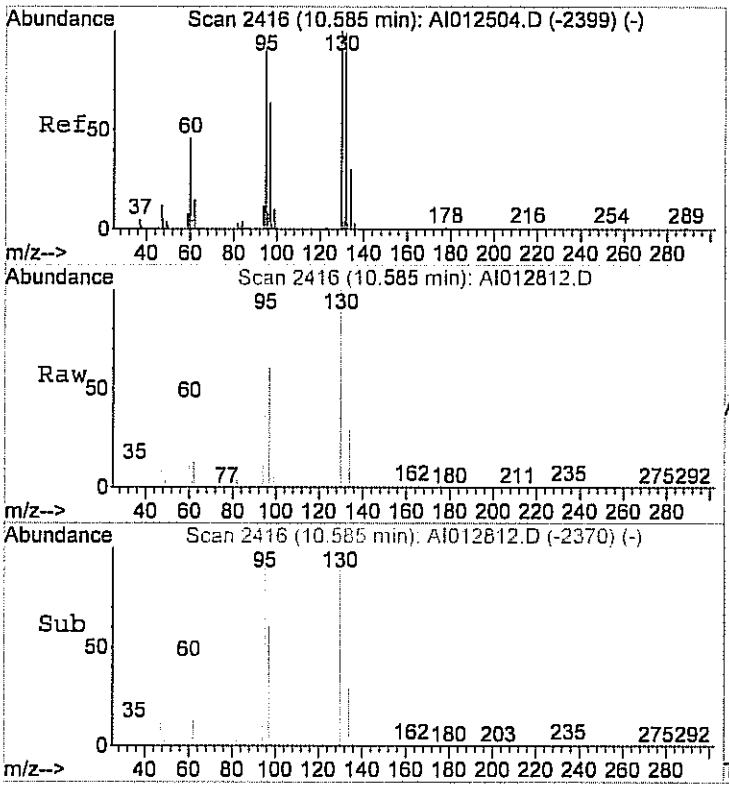


#36
2,2,4-trimethylpentane
Concen: 0.13 ppb m
RT: 10.08 min Scan# 2258
Delta R.T. -0.01 min
Lab File: AI012812.D
Acq: 28 Jan 2011 5:31 pm

Tgt Ion: 57 Resp: 7429

Ion	Ratio	Lower	Upper
57	100		
41	42.2	12.1	52.1
56	37.8	13.7	53.7

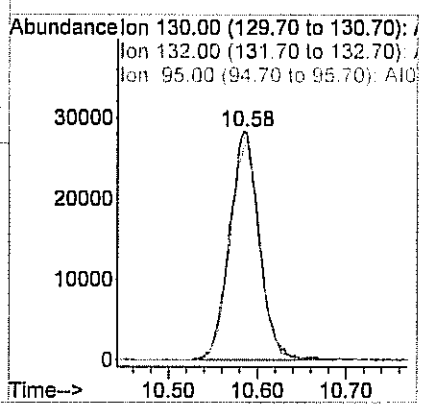




#38
Trichloroethene
Concen: 2.04 ppb
RT: 10.58 min Scan# 2416
Delta R.T. -0.00 min
Lab File: AI012812.D
Acq: 28 Jan 2011 5:31 pm

Tgt Ion:130 Resp: 66045

Ion	Ratio	Lower	Upper
130	100		
132	95.3	77.0	117.0
95	98.2	70.8	110.8



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.12	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	0.23	0.15		ppbV	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Acetone	94	54		ppbV	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Chloromethane	2.0	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Freon 12	0.90	0.15		ppbV	1	1/25/2011 9:26:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.13	0.30	J	ppbV	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	2.8	1.5		ppbV	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Methylene chloride	0.13	0.15	J	ppbV	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	110	27		ppbV	180	1/28/2011 6:07:00 PM
Toluene	0.28	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Trichloroethene	5.3	0.75		ppbV	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.15	0.15		ppbV	1	1/25/2011 9:26:00 PM
Surr: Bromofluorobenzene	120	70-130		%REC	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
1,2,4-Trimethylbenzene	0.60	0.75	J	ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/25/2011 9:26:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM
2,2,4-trimethylpentane	1.1	0.71		ug/m3	1	1/25/2011 9:26:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Acetone	230	130		ug/m3	180	1/28/2011 6:07:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/25/2011 9:26:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/25/2011 9:26:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/25/2011 9:26:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/25/2011 9:26:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/25/2011 9:26:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/25/2011 9:26:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/25/2011 9:26:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/25/2011 9:26:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/25/2011 9:26:00 PM
Chloromethane	4.1	0.31		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/25/2011 9:26:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/25/2011 9:26:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/25/2011 9:26:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/25/2011 9:26:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	786CA0200AA
Lab Order:	C1101031	**Tag Number:**	360
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-005A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: **RJP**
Freon 12	4.5	0.75		ug/m3	1	1/25/2011 9:26:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/25/2011 9:26:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/25/2011 9:26:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/25/2011 9:26:00 PM
m&p-Xylene	0.57	1.3	J	ug/m3	1	1/25/2011 9:26:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl Ethyl Ketone	8.2	4.5		ug/m3	5	1/27/2011 9:11:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/25/2011 9:26:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/25/2011 9:26:00 PM
Methylene chloride	0.46	0.53	J	ug/m3	1	1/25/2011 9:26:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/25/2011 9:26:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/25/2011 9:26:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/25/2011 9:26:00 PM
Tetrachloroethylene	1.0	1.0		ug/m3	1	1/25/2011 9:26:00 PM
Tetrahydrofuran	330	81		ug/m3	180	1/28/2011 6:07:00 PM
Toluene	1.1	0.57		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/25/2011 9:26:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/25/2011 9:26:00 PM
Trichloroethene	29	4.1		ug/m3	5	1/27/2011 9:11:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/25/2011 9:26:00 PM
Vinyl chloride	0.39	0.39		ug/m3	1	1/25/2011 9:26:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012523.D
Acq On : 25 Jan 2011 9:26 pm
Sample : C1101031-005A
Misc : C1101031-005A
MS Integration Params: RTEINT.P
Quant Time: Jan 25 21:47:18 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

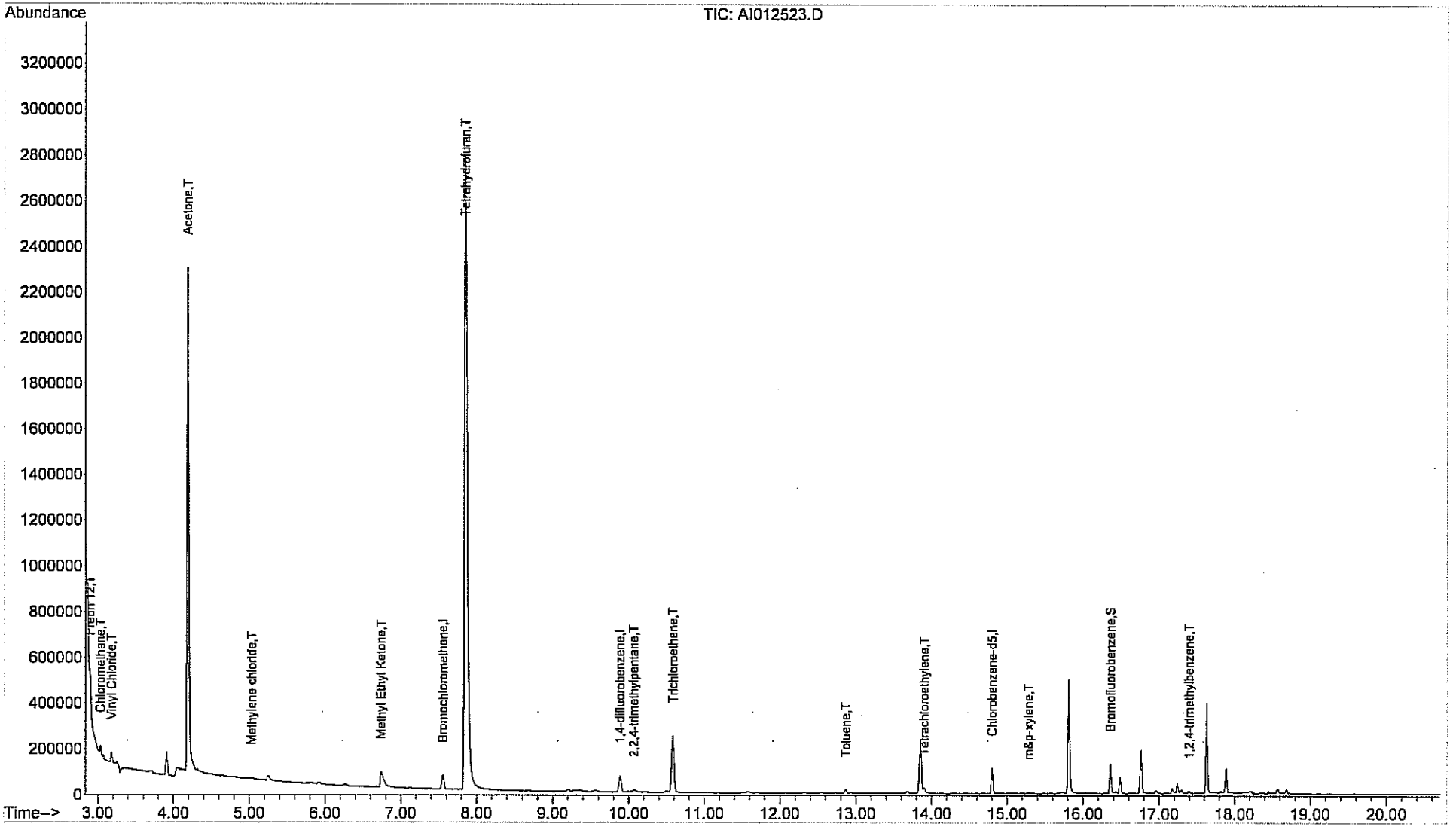
Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20993	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.88	114	68288	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	61731	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	37300	1.20	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 120.00%				
Target Compounds							Qvalue
3) Freon 12	2.90	85	55313	0.90	ppb		98
4) Chloromethane	3.03	50	27649	1.96	ppb		86
6) Vinyl Chloride	3.18	62	1756	0.15	ppb		84
12) Acetone	4.19	58	671259	118.55	ppb		98
16) Methylene chloride	5.04	84	2191	0.13	ppb		91
23) Methyl Ethyl Ketone	6.74	43	135303	4.47	ppb	#	50
28) Tetrahydrofuran	7.85	42	2061801	223.34	ppb		92
36) 2,2,4-trimethylpentane	10.07	57	11554	0.23	ppb		89
38) Trichloroethene	10.58	130	101805	3.40	ppb		94
45) Toluene	12.87	92	7101	0.28	ppb		98
50) Tetrachloroethylene	13.91	164	4463	0.15	ppb		94
53) m&p-xylene	15.28	91	5326	0.13	ppb		91
61) 1,2,4-trimethylbenzene	17.40	105	3653	0.12	ppb		98

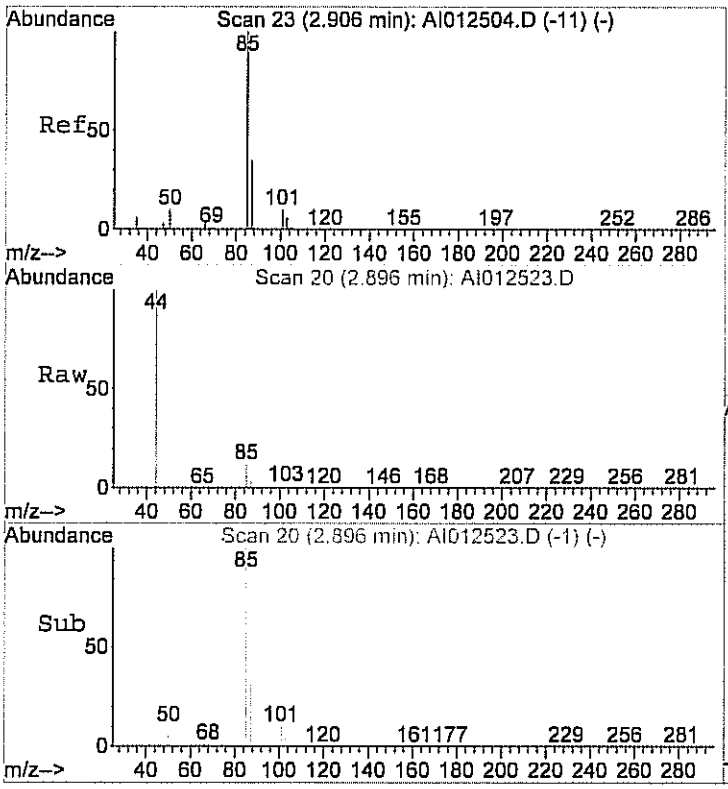
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012523.D Vial: 6
Acq On : 25 Jan 2011 9:26 pm Operator: RJP
Sample : C1101031-005A Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:25 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration

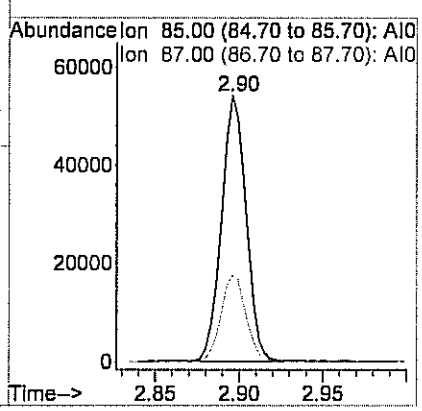


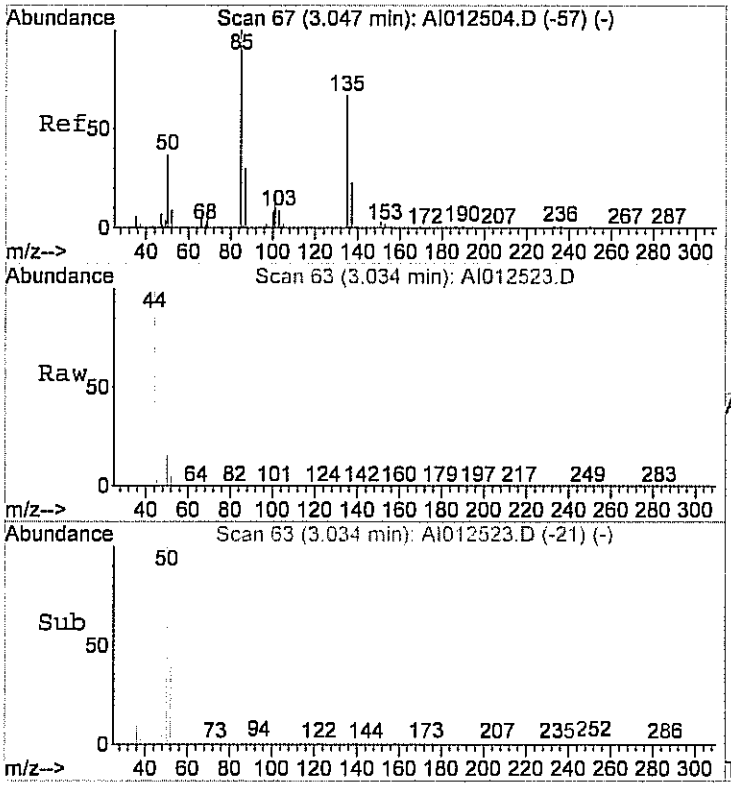


#3
Freon 12
Concen: 0.90 ppb
RT: 2.90 min Scan# 20
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 85 Resp: 55313

Ion	Ratio	Lower	Upper
85	100		
87	33.2	12.2	52.2

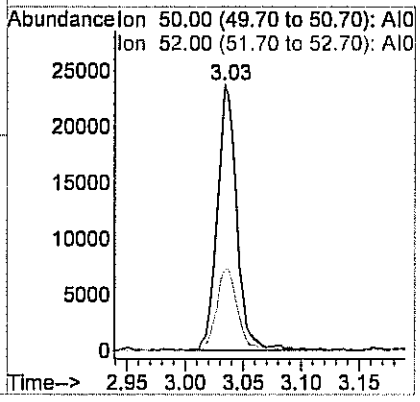


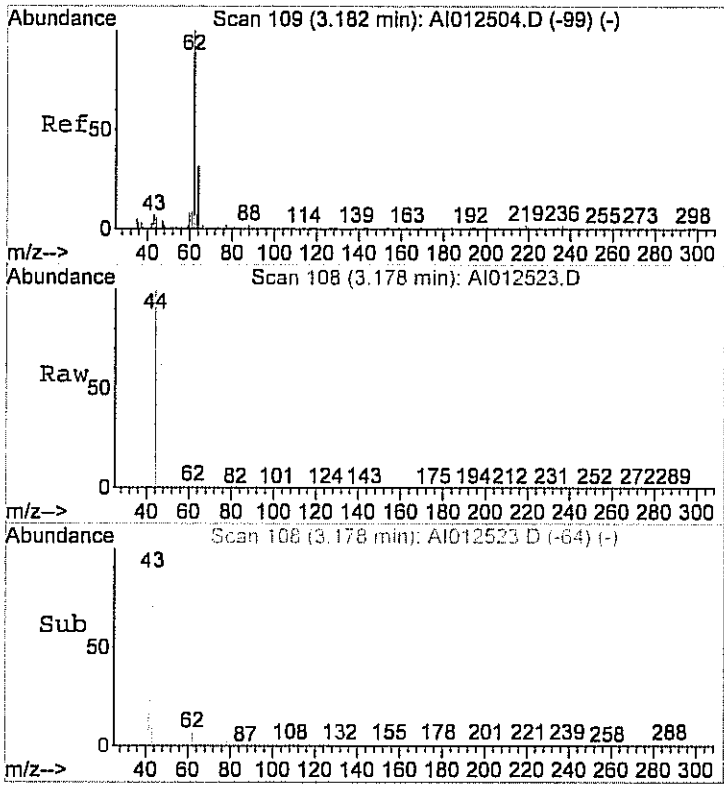


#4
Chloromethane
Concen: 1.96 ppb
RT: 3.03 min Scan# 63
Delta R.T. -0.02 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 50 Resp: 27649

Ion	Ratio	Lower	Upper
50	100		
52	34.4	7.0	47.0

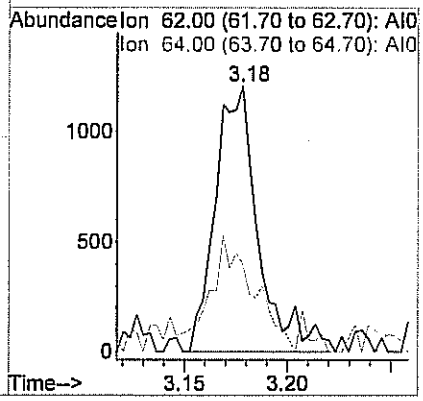


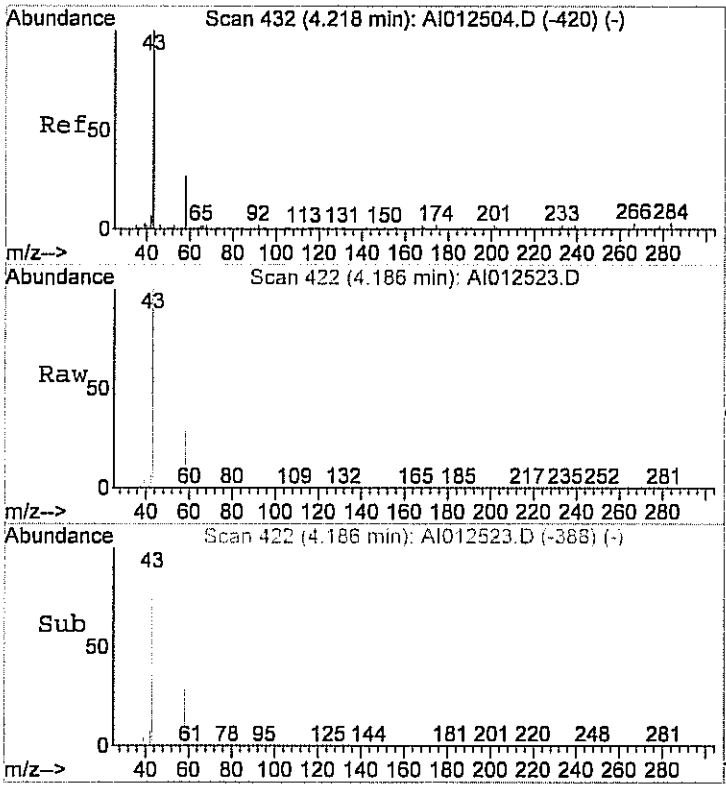


#6
Vinyl Chloride
Concen: 0.15 ppb
RT: 3.18 min Scan# 108
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 62 Resp: 1756

Ion	Ratio	Lower	Upper
62	100		
64	42.9	4.0	64.0

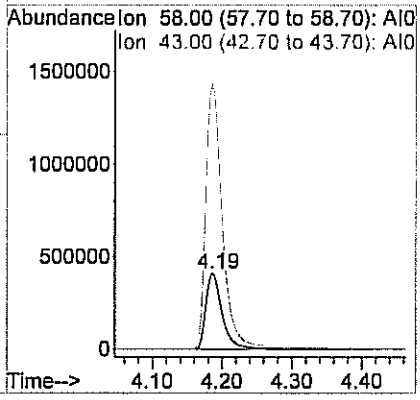


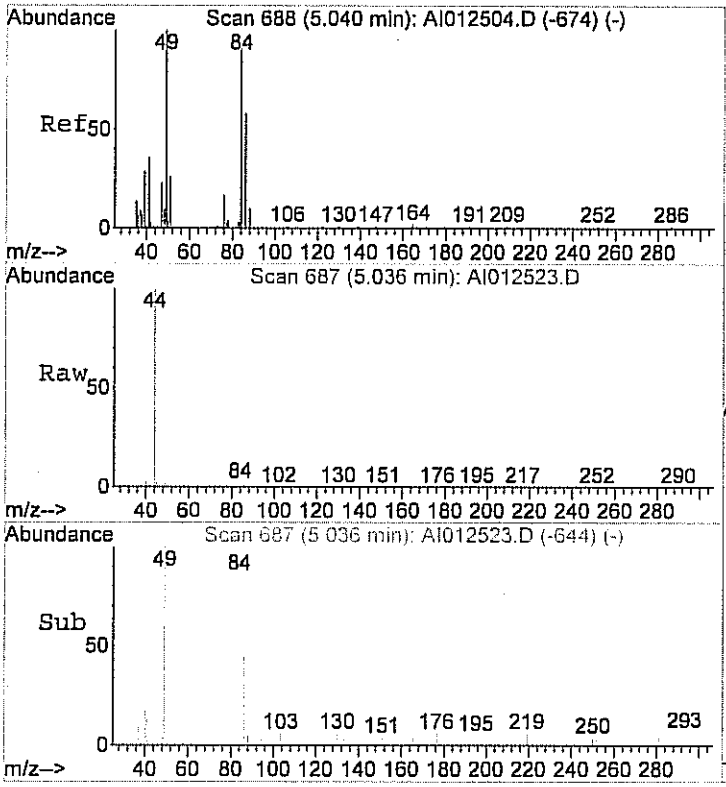


#12
Acetone
Concen: 118.55 ppb
RT: 4.19 min Scan# 422
Delta R.T. -0.04 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 58 Resp: 671259

Ion	Ratio	Lower	Upper
58	100		
43	354.7	329.0	389.0

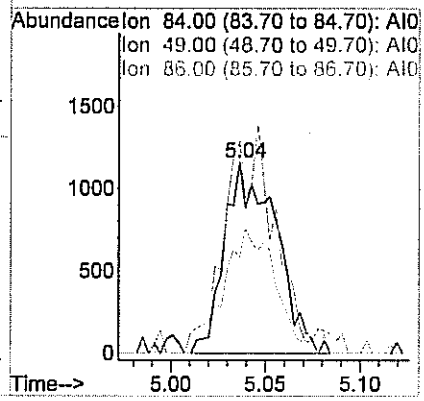


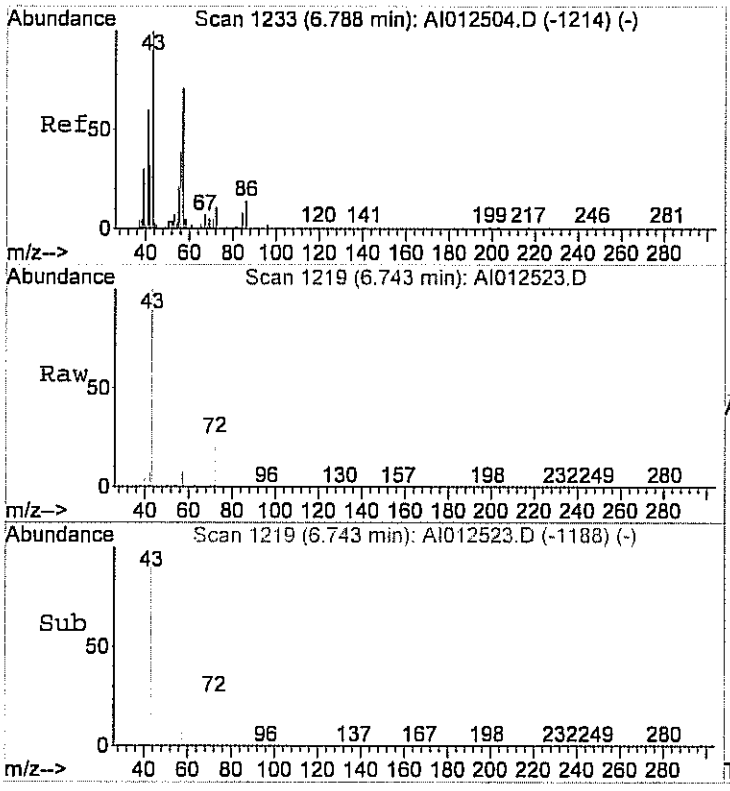


#16
Methylene chloride
Concen: 0.13 ppb
RT: 5.04 min Scan# 687
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 84 Resp: 2191

Ion	Ratio	Lower	Upper
84	100		
49	117.2	109.7	149.7
86	63.6	47.8	87.8

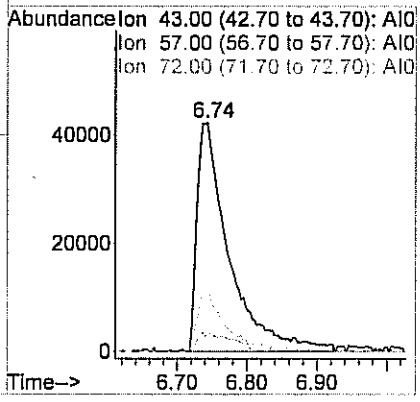


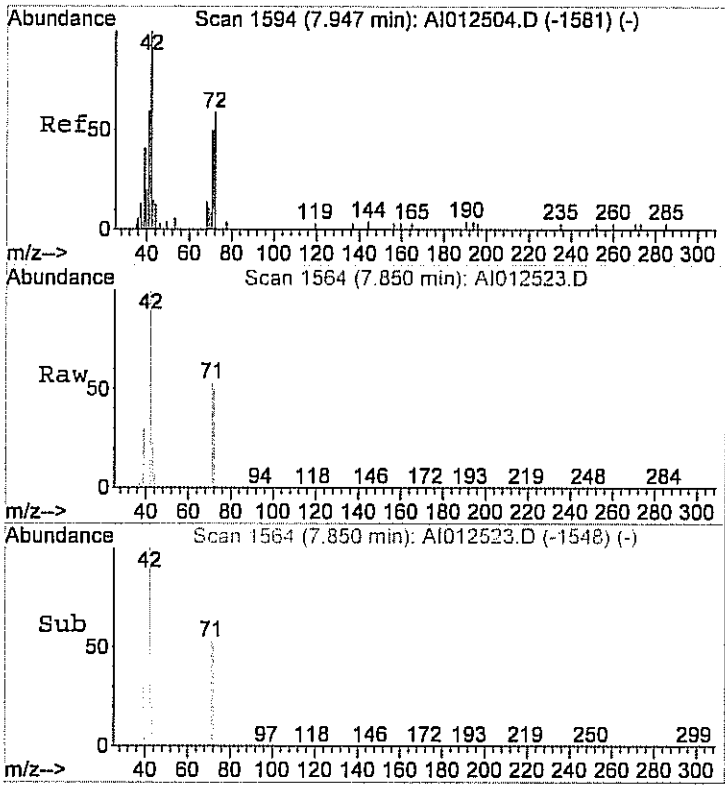


#23
Methyl Ethyl Ketone
Concen: 4.47 ppb
RT: 6.74 min Scan# 1219
Delta R.T. -0.05 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 43 Resp: 135303

Ion	Ratio	Lower	Upper
43	100		
57	9.3	37.8	77.8#
72	24.0	1.1	41.1

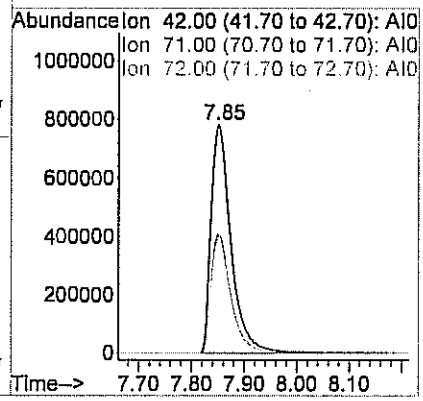


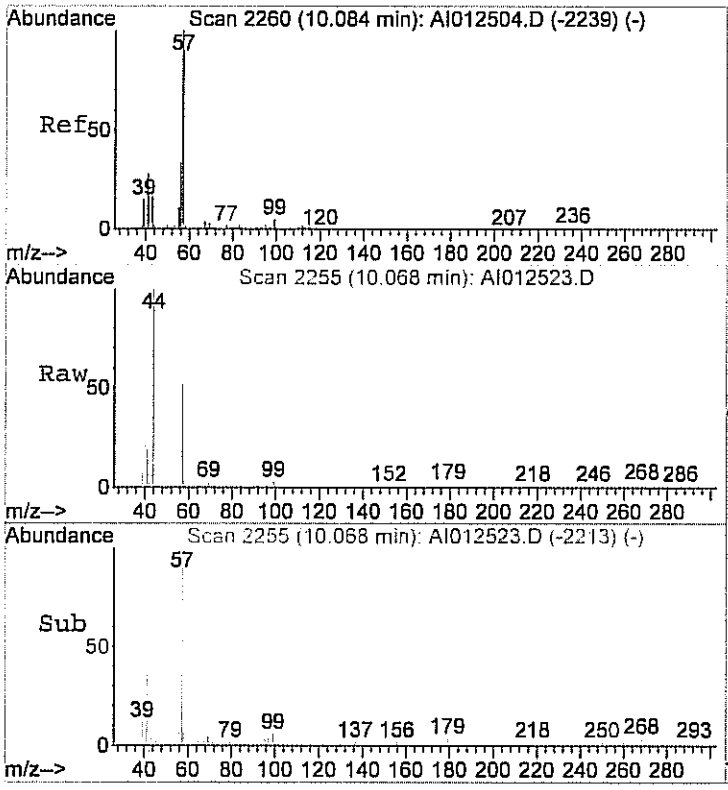


#28
Tetrahydrofuran
Concen: 223.34 ppb
RT: 7.85 min Scan# 1564
Delta R.T. -0.10 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 42 Resp: 2061801

Ion	Ratio	Lower	Upper
42	100		
71	52.8	37.9	77.9
72	51.4	38.0	78.0

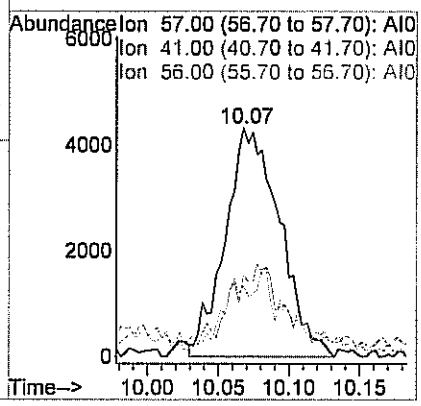


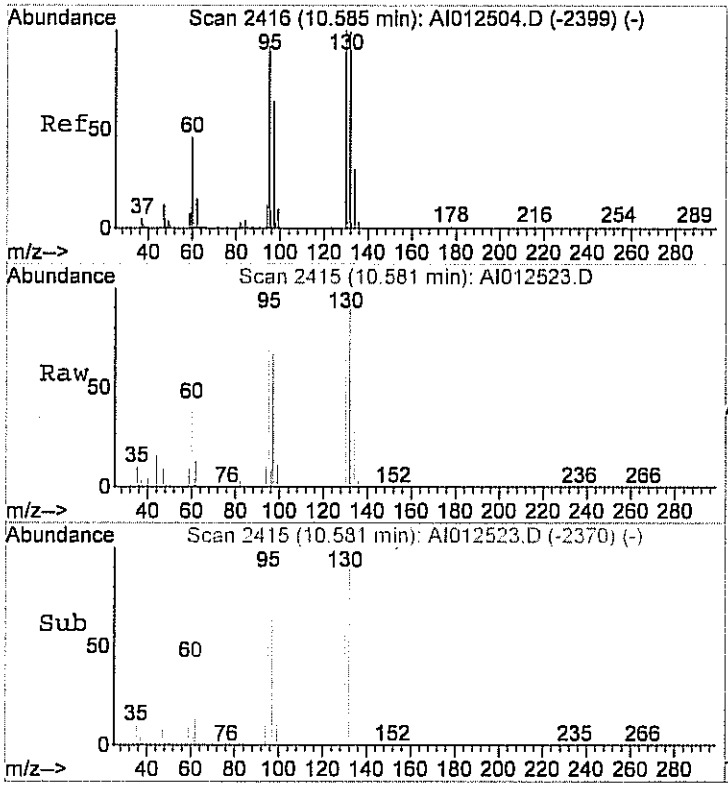


#36
2,2,4-trimethylpentane
Concen: 0.23 ppb
RT: 10.07 min Scan# 2255
Delta R.T. -0.02 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 57 Resp: 11554

Ion	Ratio	Lower	Upper
57	100		
41	34.4	12.1	52.1
56	43.4	13.7	53.7

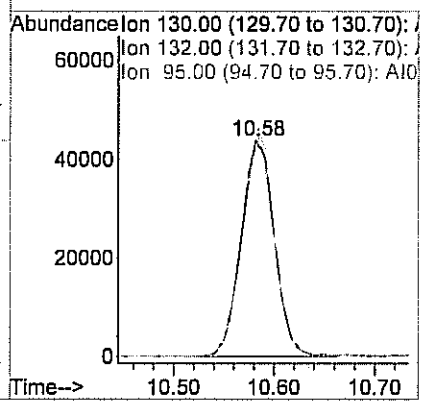


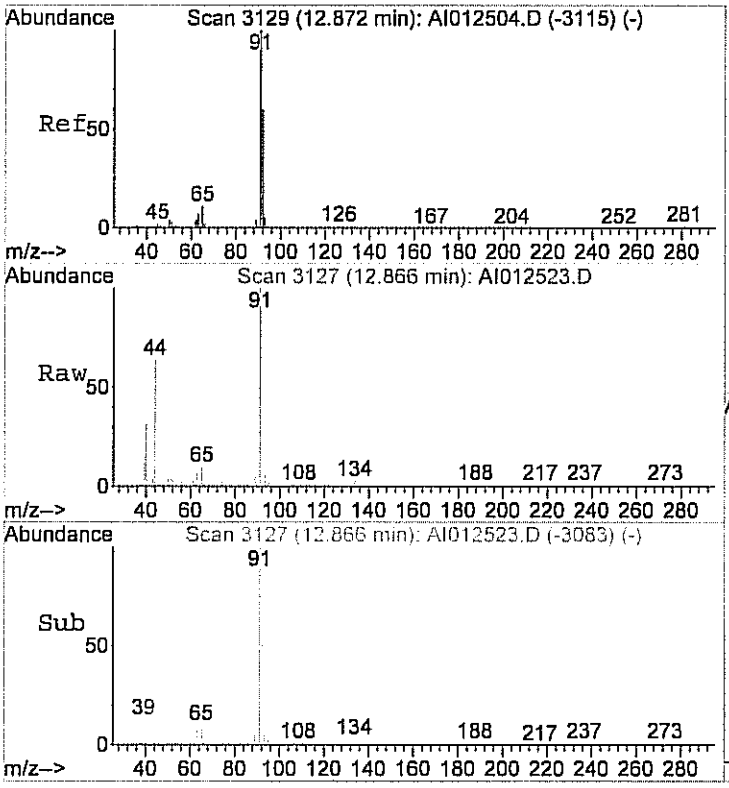


#38
Trichloroethene
Concen: 3.40 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:130 Resp: 101805

Ion	Ratio	Lower	Upper
130	100		
132	97.4	77.0	117.0
95	102.6	70.8	110.8

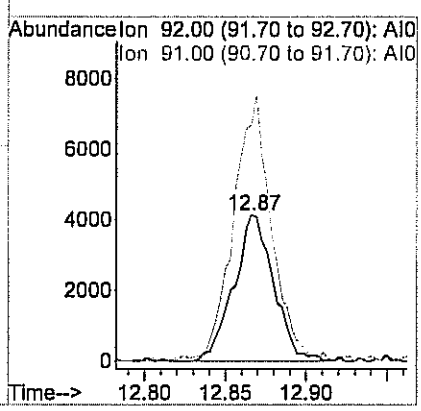


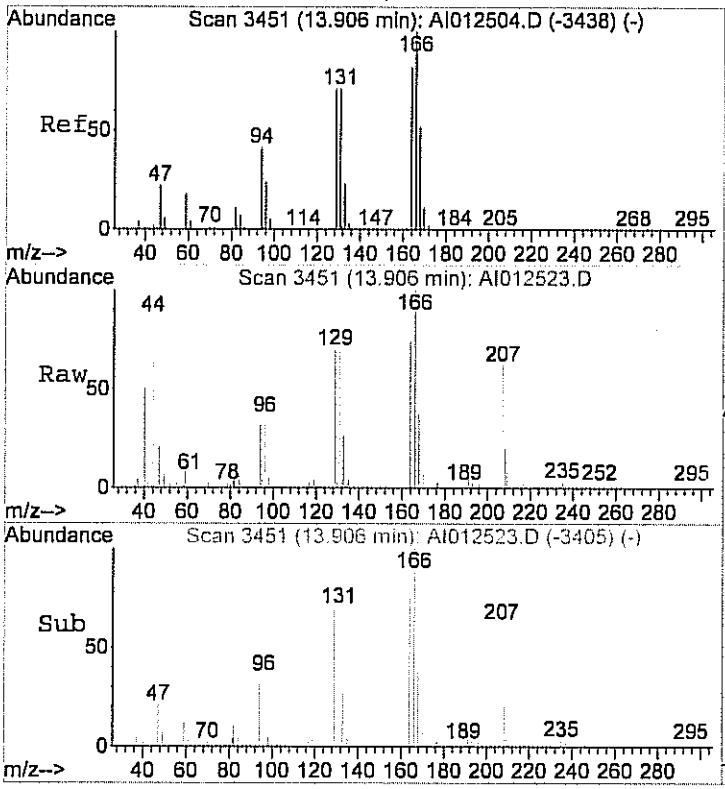


#45
Toluene
Concen: 0.28 ppb
RT: 12.87 min Scan# 3127
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 92 Resp: 7101

Ion	Ratio	Lower	Upper
92	100		
91	172.1	150.0	190.0

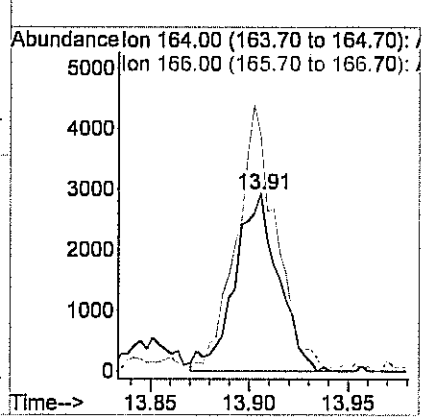


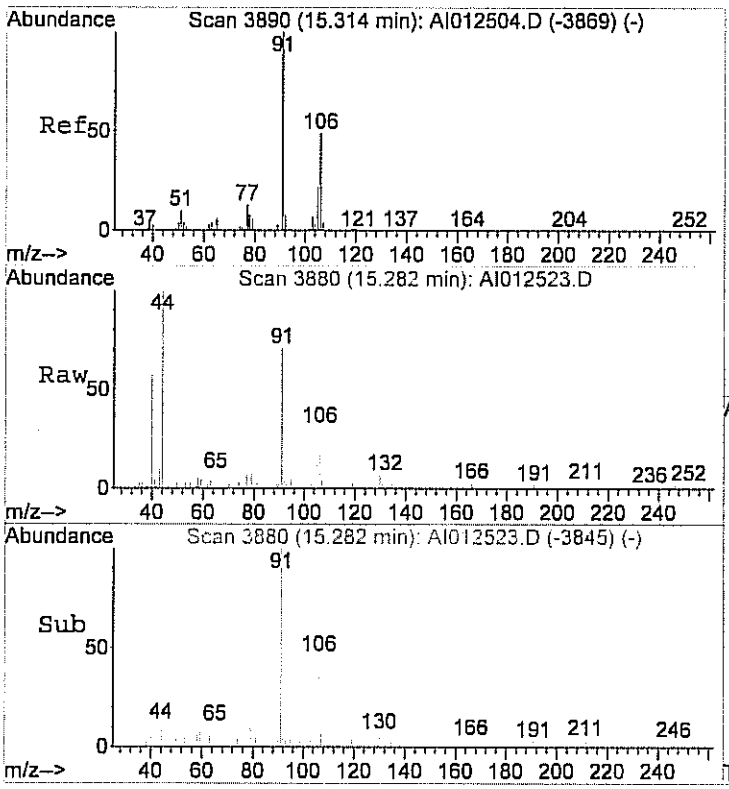


#50
Tetrachloroethylene
Concen: 0.15 ppb
RT: 13.91 min Scan# 3451
Delta R.T. -0.00 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:164 Resp: 4463

Ion	Ratio	Lower	Upper
164	100		
166	136.0	109.0	149.0

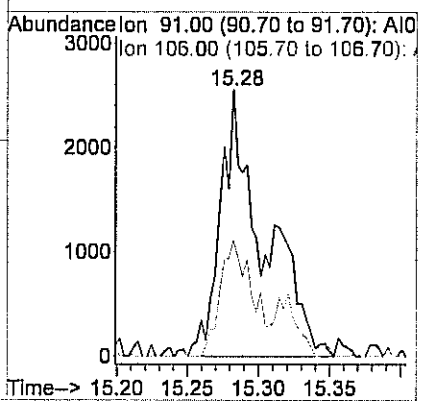


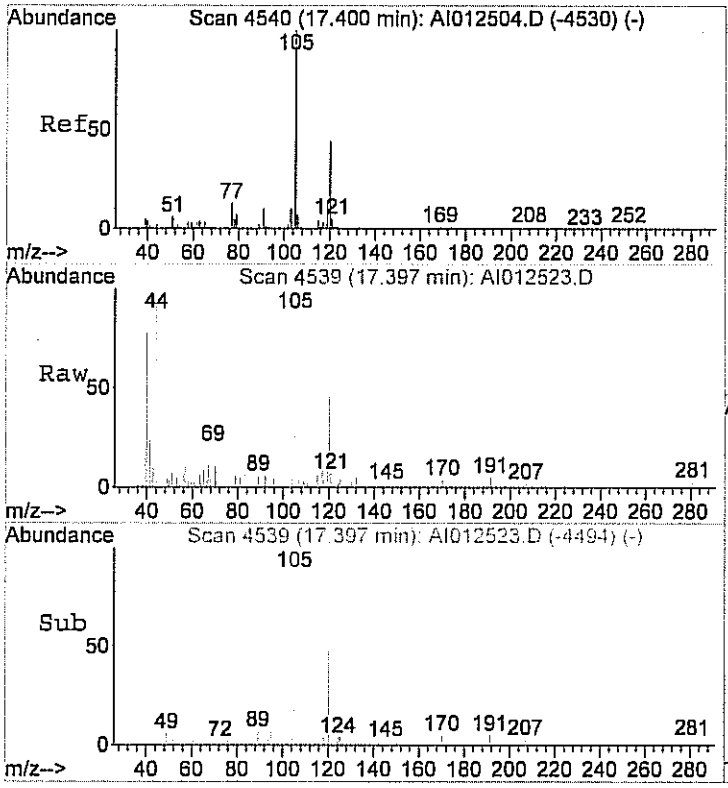


#53
m&p-xylene
Concen: 0.13 ppb
RT: 15.28 min Scan# 3880
Delta R.T. -0.04 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion: 91 Resp: 5326

Ion	Ratio	Lower	Upper
91	100		
106	43.8	29.9	69.9

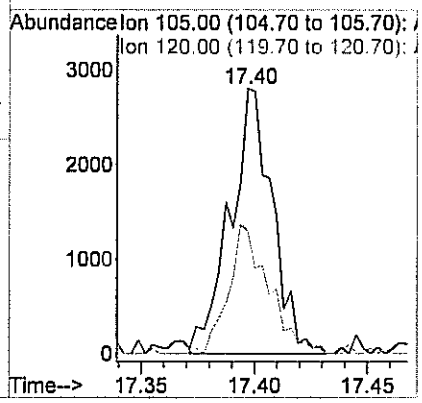




#61
1,2,4-trimethylbenzene
Concen: 0.12 ppb
RT: 17.40 min Scan# 4539
Delta R.T. -0.01 min
Lab File: AI012523.D
Acq: 25 Jan 2011 9:26 pm

Tgt Ion:105 Resp: 3653

Ion	Ratio	Lower	Upper
105	100		
120	46.0	27.0	67.0



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012721.D Vial: 10
Acq On : 27 Jan 2011 9:11 pm Operator: RJP
Sample : C1101031-005A 5X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 21:32:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	17962	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.88	114	50601	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	46688	1.00	ppb		-0.01
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	25416	1.08	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 108.00%				
Target Compounds							Qvalue
12) Acetone	4.21	58	102357	21.13	ppb		99
23) Methyl Ethyl Ketone	6.79	43	14115	0.55	ppb	#	51
28) Tetrahydrofuran	7.88	42	278422	35.25	ppb		91
38) Trichloroethene	10.58	130	23514	1.06	ppb		93

(#) = qualifier out of range (m) = manual integration (+) = signals summed

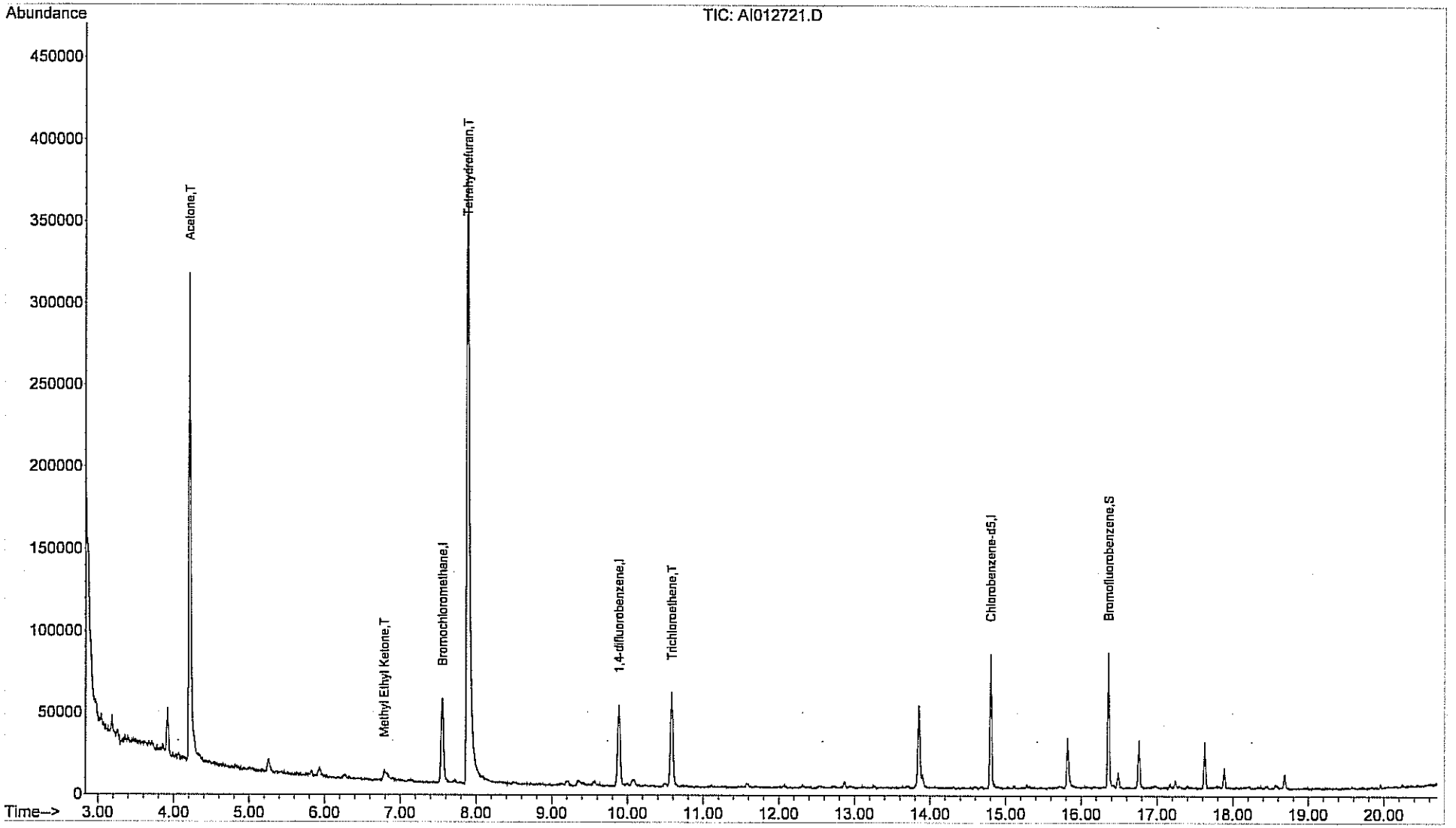
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012721.D
Acq On : 27 Jan 2011 9:11 pm
Sample : C1101031-005A 5X
Misc : C1101031-005A
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:38 2011

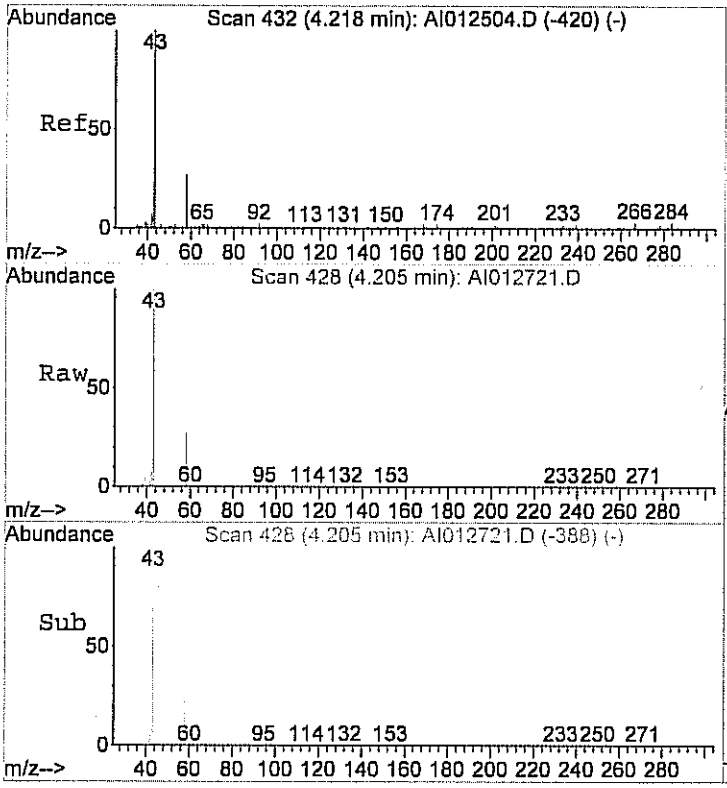
Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



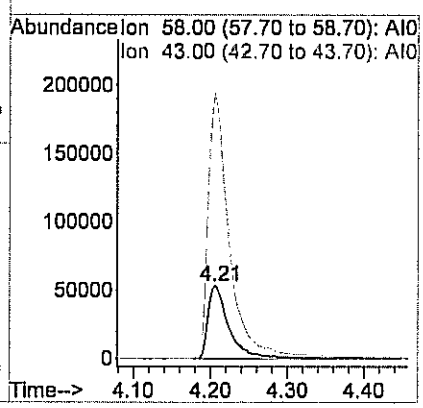
Centek laboratories, LLC

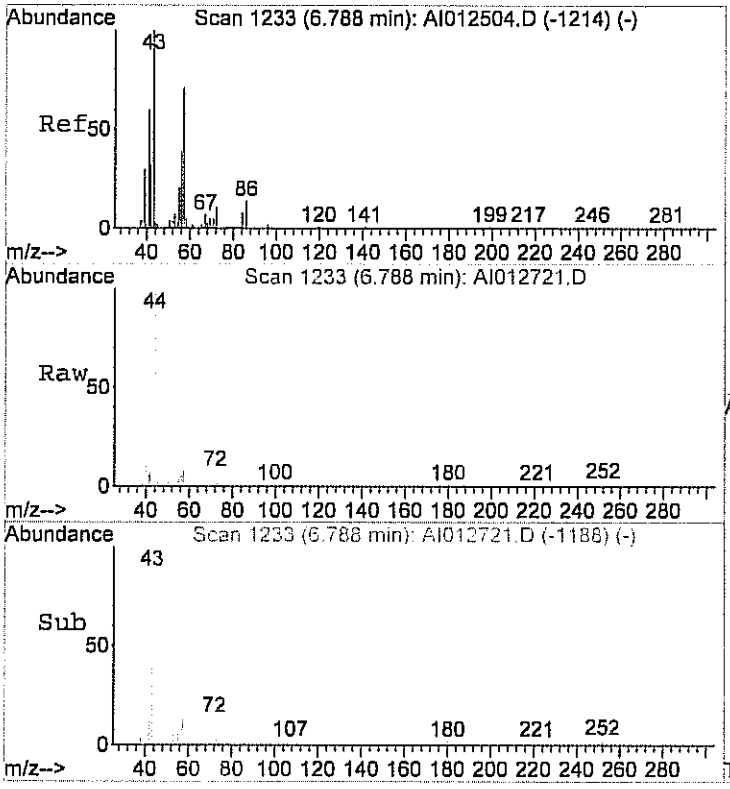


#12
Acetone
Concen: 21.13 ppb
RT: 4.21 min Scan# 428
Delta R.T. -0.02 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 58 Resp: 102357

Ion	Ratio	Lower	Upper
58	100		
43	361.9	329.0	389.0

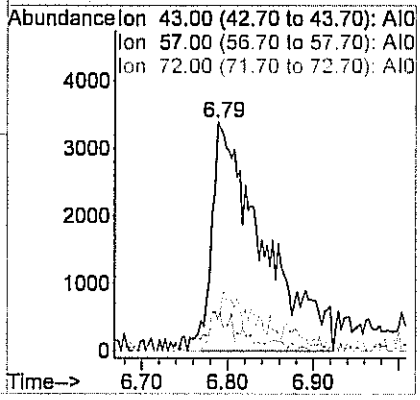


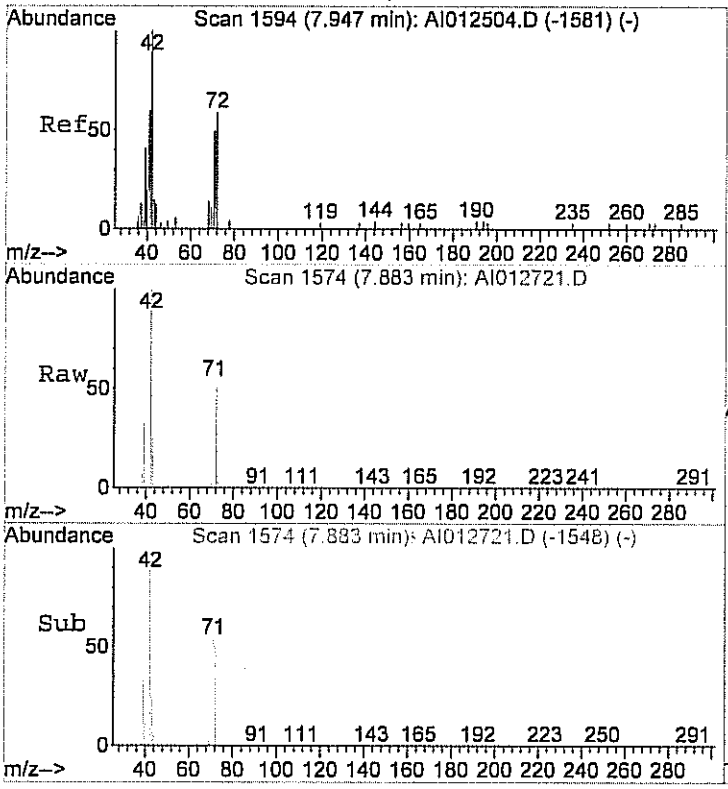


#23
Methyl Ethyl Ketone
Concen: 0.55 ppb
RT: 6.79 min Scan# 1233
Delta R.T. -0.01 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 43 Resp: 14115

Ion	Ratio	Lower	Upper
43	100		
57	10.0	37.8	77.8#
72	18.7	1.1	41.1

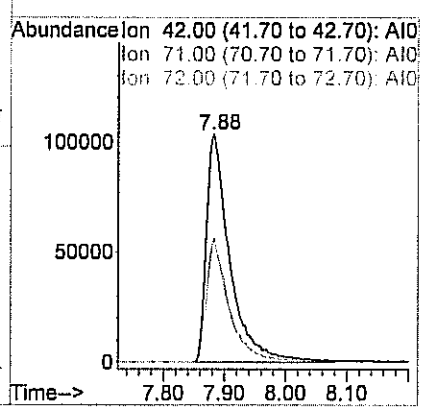


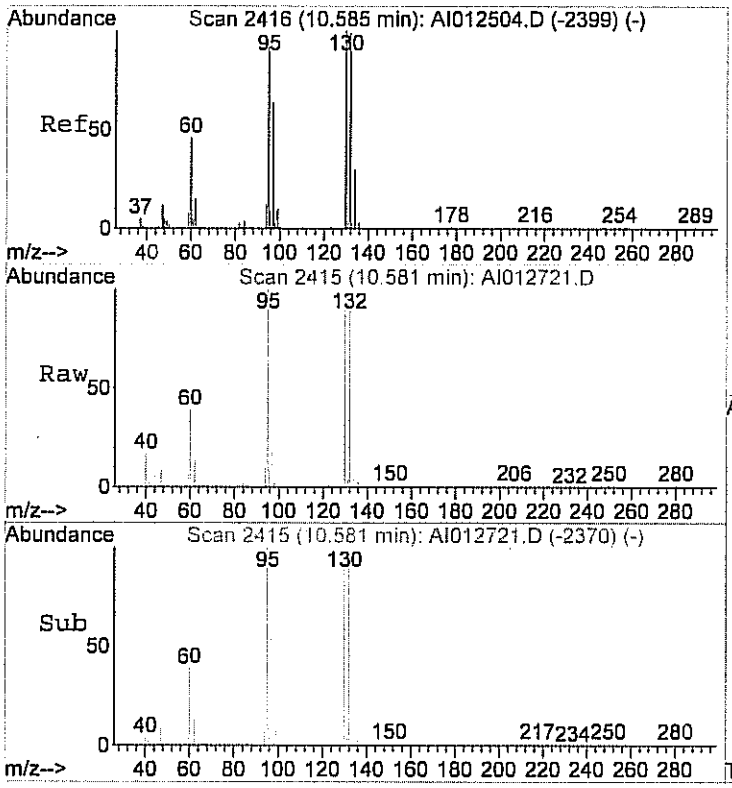


#28
Tetrahydrofuran
Concen: 35.25 ppb
RT: 7.88 min Scan# 1574
Delta R.T. -0.07 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion: 42 Resp: 278422

Ion	Ratio	Lower	Upper
42	100		
71	52.5	37.9	77.9
72	50.5	38.0	78.0

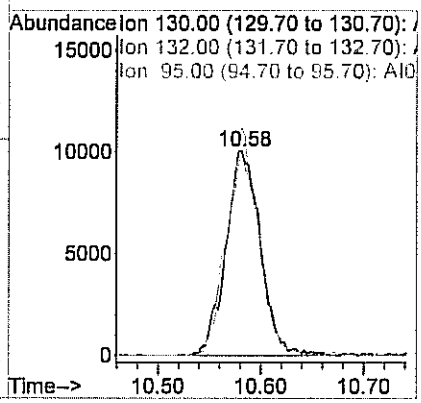




#38
Trichloroethene
Concen: 1.06 ppb
RT: 10.58 min Scan# 2415
Delta R.T. -0.01 min
Lab File: AI012721.D
Acq: 27 Jan 2011 9:11 pm

Tgt Ion:130 Resp: 23514

Ion	Ratio	Lower	Upper
130	100		
132	96.6	77.0	117.0
95	103.4	70.8	110.8



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012813.D Vial: 5
Acq On : 28 Jan 2011 6:07 pm Operator: RJP
Sample : C1101031-005A 180X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 18:28:10 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

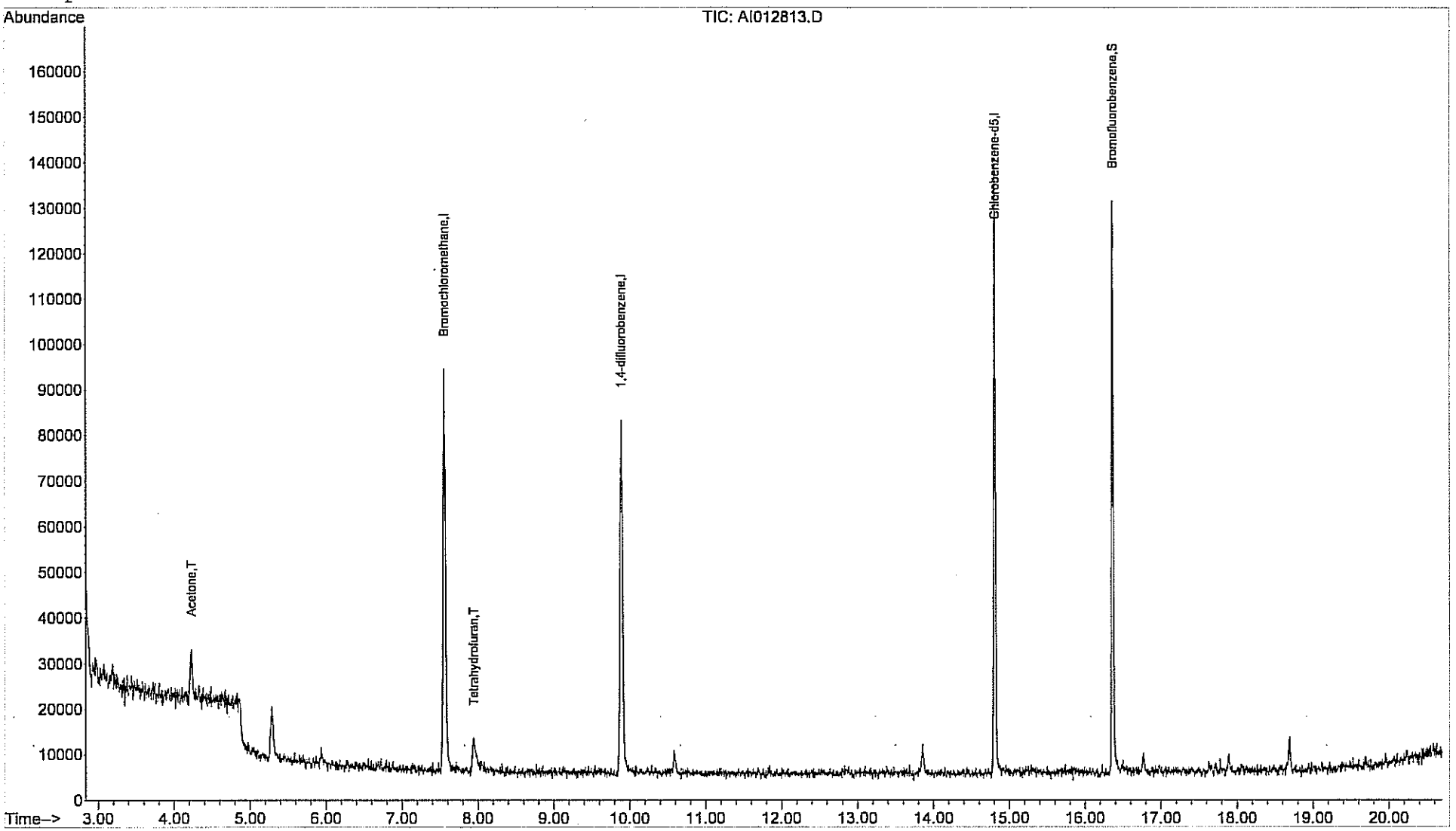
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	30092	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	79423	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	74372	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	36974	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
12) Acetone	4.22	58	4180	0.52	ppb	97
28) Tetrahydrofuran	7.95	42	8020m	0.61	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

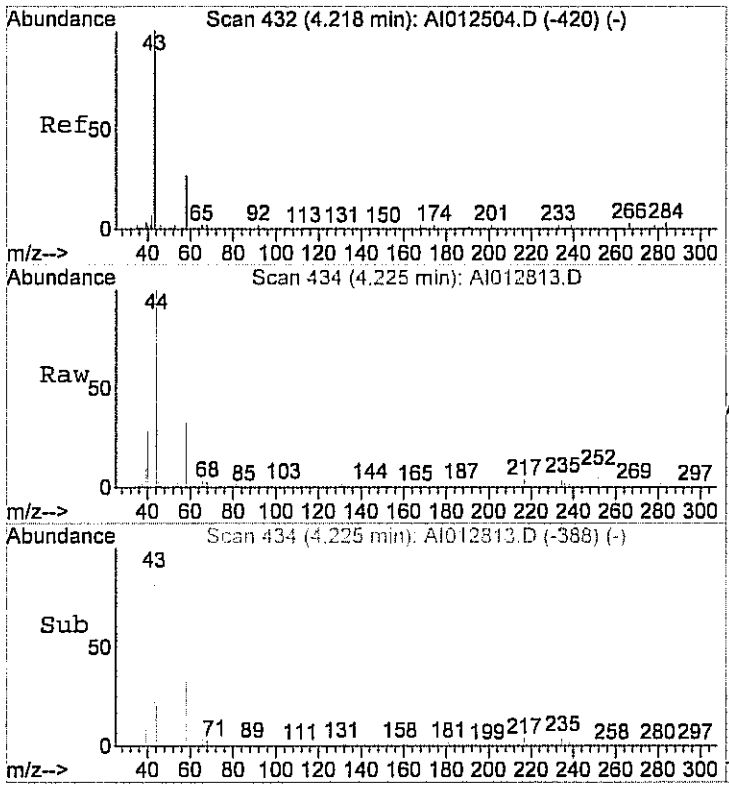
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012813.D Vial: 5
Acq On : 28 Jan 2011 6:07 pm Operator: RJP
Sample : C1101031-005A 180X Inst : MSD #1
Misc : C1101031-005A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:39 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



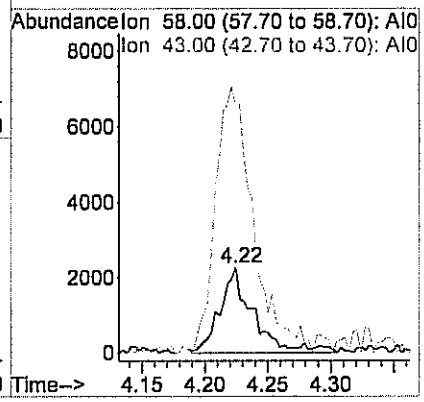
Centek laboratories, LLC

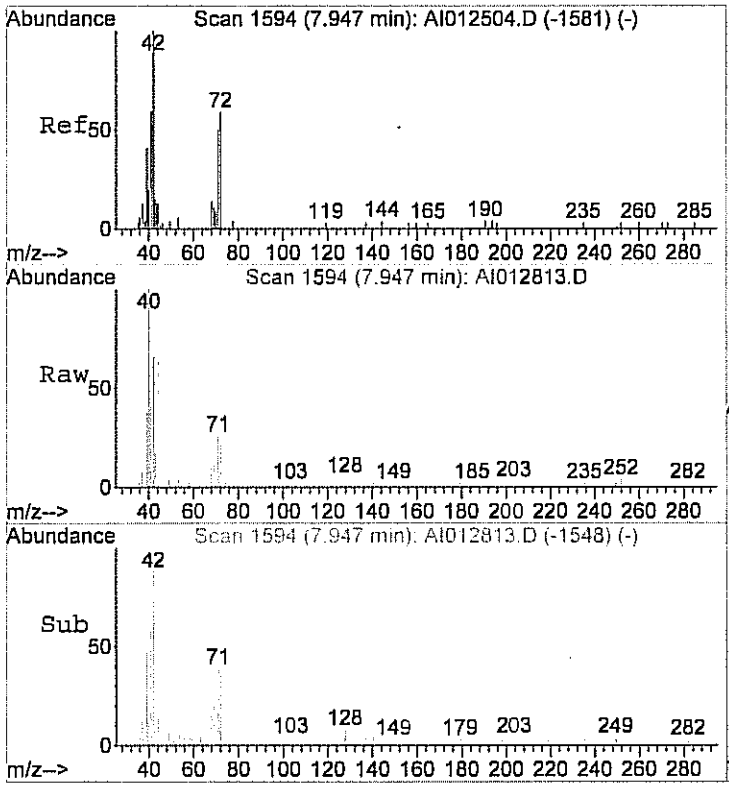


#12
Acetone
Concen: 0.52 ppb
RT: 4.22 min Scan# 434
Delta R.T. -0.00 min
Lab File: AI012813.D
Acq: 28 Jan 2011 6:07 pm

Tgt Ion: 58 Resp: 4180

Ion	Ratio	Lower	Upper
58	100		
43	353.0	329.0	389.0

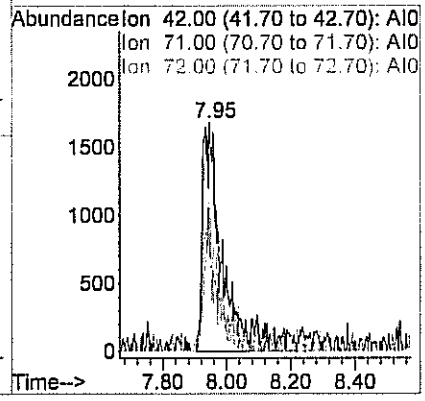




#28
Tetrahydrofuran
Concen: 0.61 ppb m
RT: 7.95 min Scan# 1594
Delta R.T. -0.00 min
Lab File: AI012813.D
Acq: 28 Jan 2011 6:07 pm

Tgt Ion: 42 Resp: 8020

Ion	Ratio	Lower	Upper
42	100		
71	39.2	37.9	77.9
72	32.9	38.0	78.0#



Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
FIELD PARAMETERS		FLD				Analyst:
Lab Vacuum In	-2			"Hg		1/25/2011
Lab Vacuum Out	-30			"Hg		1/25/2011
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Acetone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromoform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloroform	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.25	0.25		ppbV	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Ethylbenzene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 11	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 113	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 114	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Freon 12	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Heptane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Hexane	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 0.30	0.30		ppbV	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Propylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Styrene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Toluene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.15	0.15		ppbV	1	1/27/2011 4:23:00 PM
Surr: Bromofluorobenzene	98.0	70-130		%REC	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		TO-15				Analyst: RJP
1,1,1-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2,2-Tetrachloroethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
1,1,2-Trichloroethane	< 0.83	0.83		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,1-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trichlorobenzene	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
1,2,4-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dibromoethane	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloroethane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
1,2-Dichloropropane	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
1,3,5-Trimethylbenzene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
1,3-butadiene	< 0.34	0.34		ug/m3	1	1/27/2011 4:23:00 PM
1,3-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dichlorobenzene	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
1,4-Dioxane	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM
2,2,4-trimethylpentane	< 0.71	0.71		ug/m3	1	1/27/2011 4:23:00 PM
4-ethyltoluene	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Acetone	< 0.72	0.72		ug/m3	1	1/27/2011 4:23:00 PM
Allyl chloride	< 0.48	0.48		ug/m3	1	1/27/2011 4:23:00 PM
Benzene	< 0.49	0.49		ug/m3	1	1/27/2011 4:23:00 PM
Benzyl chloride	< 0.88	0.88		ug/m3	1	1/27/2011 4:23:00 PM
Bromodichloromethane	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Bromoform	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Bromomethane	< 0.59	0.59		ug/m3	1	1/27/2011 4:23:00 PM
Carbon disulfide	< 0.47	0.47		ug/m3	1	1/27/2011 4:23:00 PM
Carbon tetrachloride	< 0.96	0.96		ug/m3	1	1/27/2011 4:23:00 PM
Chlorobenzene	< 0.70	0.70		ug/m3	1	1/27/2011 4:23:00 PM
Chloroethane	< 0.40	0.40		ug/m3	1	1/27/2011 4:23:00 PM
Chloroform	< 0.74	0.74		ug/m3	1	1/27/2011 4:23:00 PM
Chloromethane	< 0.31	0.31		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
cis-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Cyclohexane	< 0.52	0.52		ug/m3	1	1/27/2011 4:23:00 PM
Dibromochloromethane	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Ethyl acetate	< 0.92	0.92		ug/m3	1	1/27/2011 4:23:00 PM
Ethylbenzene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Freon 11	< 0.86	0.86		ug/m3	1	1/27/2011 4:23:00 PM
Freon 113	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Freon 114	< 1.1	1.1		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Centek Laboratories, LLC

Date: *08-Feb-11*

CLIENT:	FPM Group	**Client Sample ID:**	Trip Blank
Lab Order:	C1101031	**Tag Number:**	407
Project:	B785SSVM Sampling	**Collection Date:**	1/18/2011
Lab ID:	C1101031-006A	**Matrix:**	AIR

Analyses	Result	**Limit	Qual	Units	DF	Date Analyzed
1UG/M3 BY METHOD TO15		**TO-15**				Analyst: RJP
Freon 12	< 0.75	0.75		ug/m3	1	1/27/2011 4:23:00 PM
Heptane	< 0.62	0.62		ug/m3	1	1/27/2011 4:23:00 PM
Hexachloro-1,3-butadiene	< 1.6	1.6		ug/m3	1	1/27/2011 4:23:00 PM
Hexane	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Isopropyl alcohol	< 0.37	0.37		ug/m3	1	1/27/2011 4:23:00 PM
m&p-Xylene	< 1.3	1.3		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Butyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Ethyl Ketone	< 0.90	0.90		ug/m3	1	1/27/2011 4:23:00 PM
Methyl Isobutyl Ketone	< 1.2	1.2		ug/m3	1	1/27/2011 4:23:00 PM
Methyl tert-butyl ether	< 0.55	0.55		ug/m3	1	1/27/2011 4:23:00 PM
Methylene chloride	< 0.53	0.53		ug/m3	1	1/27/2011 4:23:00 PM
o-Xylene	< 0.66	0.66		ug/m3	1	1/27/2011 4:23:00 PM
Propylene	< 0.26	0.26		ug/m3	1	1/27/2011 4:23:00 PM
Styrene	< 0.65	0.65		ug/m3	1	1/27/2011 4:23:00 PM
Tetrachloroethylene	< 1.0	1.0		ug/m3	1	1/27/2011 4:23:00 PM
Tetrahydrofuran	< 0.45	0.45		ug/m3	1	1/27/2011 4:23:00 PM
Toluene	< 0.57	0.57		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,2-Dichloroethene	< 0.60	0.60		ug/m3	1	1/27/2011 4:23:00 PM
trans-1,3-Dichloropropene	< 0.69	0.69		ug/m3	1	1/27/2011 4:23:00 PM
Trichloroethene	< 0.82	0.82		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl acetate	< 0.54	0.54		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl Bromide	< 0.67	0.67		ug/m3	1	1/27/2011 4:23:00 PM
Vinyl chloride	< 0.39	0.39		ug/m3	1	1/27/2011 4:23:00 PM

Qualifiers:

**	Reporting Limit	.	Results reported are not blank corrected
B	Analyte detected in the associated Method Blank	E	Value above quantitation range
H	Holding times for preparation or analysis exceeded	J	Analyte detected at or below quantitation limits
JN	Non-routine analyte. Quantitation estimated.	ND	Not Detected at the Reporting Limit
S	Spike Recovery outside accepted recovery limits		

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012712.D Vial: 1
Acq On : 27 Jan 2011 4:23 pm Operator: RJP
Sample : C1101031-006A Inst : MSD #1
Misc : C1101031-006A Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 16:44:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17451	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	41299	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	38982	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	19321	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

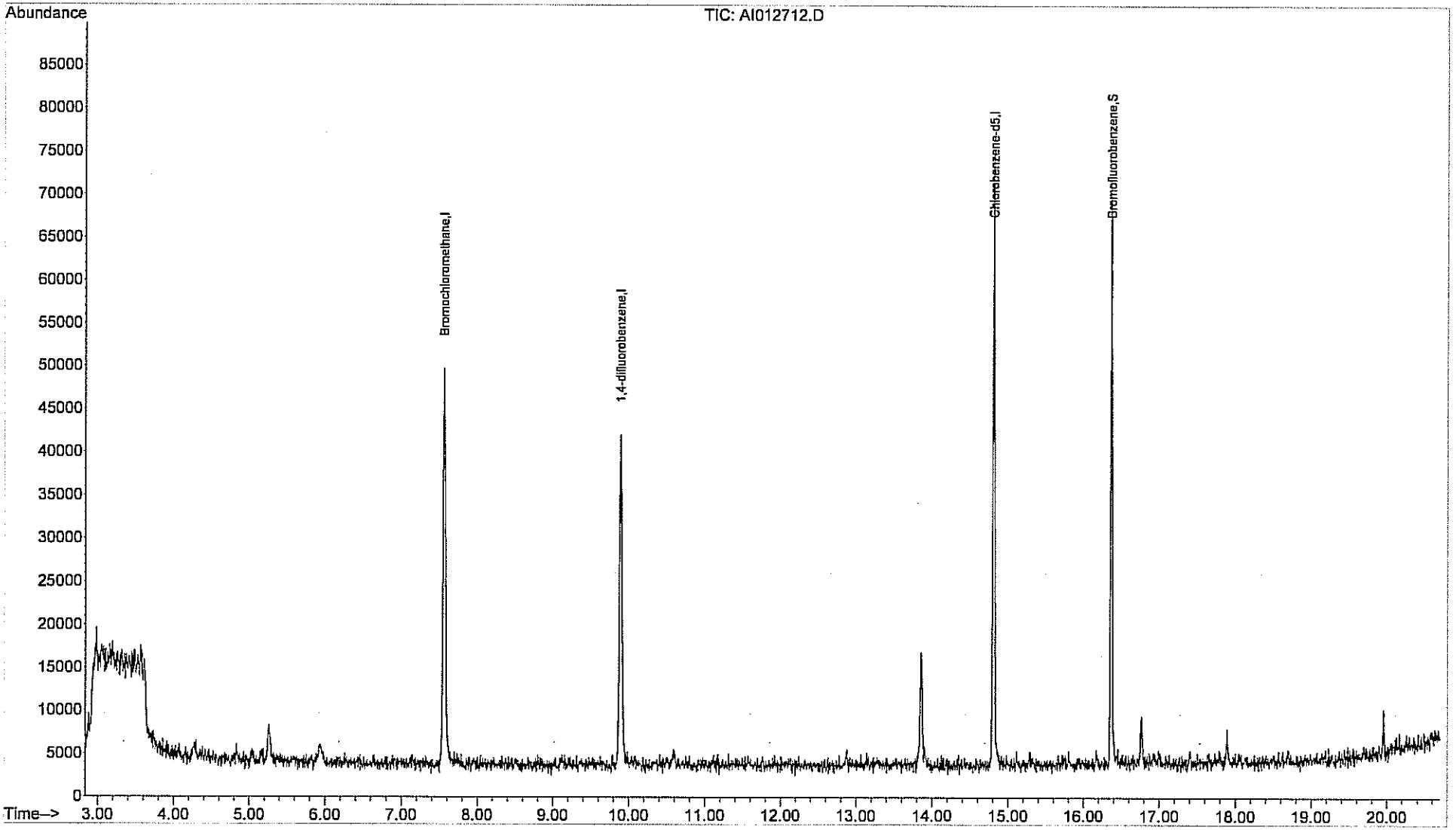
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012712.D
Acq On : 27 Jan 2011 4:23 pm
Sample : C1101031-006A
Misc : C1101031-006A
MS Integration Params: RTEINT.P
Quant Time: Jan 27 16:44 2011

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS DATA

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INITIAL CALIBRATION

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI010612.D 0.10 =AI010611.D 0.15 =AI010610.D
0.30 =AI010609.D 0.50 =AI010608.D 0.75 =AI010607.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
1)	I	Bromochloromethane	----------ISTD----------							
2)	T	Propylene			0.579	0.524	0.520	0.478	0.509	6.38
3)	T	Freon 12			2.876	3.014	3.073	2.925	2.933	3.19
4)	T	Chloromethane			0.674	0.696	0.705	0.686	0.673	3.82
5)	T	Freon 114			1.572	1.601	1.738	1.702	1.671	3.75
6)	T	Vinyl Chloride		0.611	0.529	0.584	0.565	0.548	0.555	5.48
7)	T	1,3-butadiene			0.508	0.519	0.445	0.442	0.444	10.72
8)	T	Bromomethane			0.639	0.604	0.664	0.592	0.588	8.01
9)	T	Chloroethane			0.218	0.244	0.232	0.214	0.223	5.15
10)	T	Vinyl Bromide			0.668	0.609	0.643	0.629	0.637	3.35
11)	T	Freon 11			1.710	1.713	1.791	1.730	1.724	2.71
12)	T	Acetone			0.256	0.313	0.318	0.250	0.270	13.20
13)	T	Isopropyl alcoh			0.571	0.631	0.570	0.633	0.577	9.03
14)	T	1,1-dichloroeth			0.773	0.818	0.899	0.837	0.814	12.45
15)	T	Freon 113			1.884	2.114	2.127	2.116	1.976	17.59
16)	T	Methylene chlor			0.783	0.788	0.863	0.833	0.821	3.68
17)	T	Allyl chloride			0.557	0.596	0.610	0.625	0.644	8.62
18)	T	Carbon disulfid			2.547	2.597	2.570	2.551	2.541	1.71
19)	T	trans-1,2-dichl			0.961	1.091	1.157	1.128	1.122	6.36
20)	T	methyl tert-but			0.926	1.004	1.132	1.135	1.160	12.27
21)	T	1,1-dichloroeth			1.262	1.423	1.489	1.462	1.462	6.05
22)	T	Vinyl acetate			0.697	0.744	0.847	0.908	0.895	15.21
23)	T	Methyl Ethyl Ke				1.361	1.205	1.463	1.441	9.21
24)	T	cis-1,2-dichlor			0.826	0.956	0.957	0.981	0.973	6.82
25)	T	Hexane			0.652	0.628	0.667	0.660	0.687	5.84
26)	T	Ethyl acetate				1.090	0.956	1.064	1.070	7.32
27)	T	Chloroform			1.895	2.075	2.123	2.143	2.102	4.28
28)	T	Tetrahydrofuran				0.423	0.396	0.414	0.440	7.62
29)	T	1,2-dichloroeth			1.112	1.188	1.292	1.275	1.262	5.92
30)	I	1,4-difluorobenzene	----------ISTD----------							
31)	T	1,1,1-trichloro			0.576	0.630	0.646	0.660	0.637	4.86
32)	T	Cyclohexane			0.193	0.225	0.233	0.265	0.251	12.58
33)	T	Carbon tetrachl	1.542	0.815	0.765	0.825	0.825	0.818	0.880	26.64
34)	T	Benzene			0.609	0.698	0.676	0.674	0.693	6.27
35)	T	1,4-dioxane				0.126	0.107	0.101	0.109	7.91
36)	T	2,2,4-trimethyl			0.641	0.691	0.724	0.740	0.746	8.02
37)	T	Heptane			0.218	0.236	0.238	0.238	0.248	7.34
38)	T	Trichloroethene	0.740	0.380	0.385	0.388	0.401	0.410	0.439	24.54
39)	T	1,2-dichloropro			0.238	0.249	0.273	0.270	0.266	5.92
40)	T	Bromodichlorome			0.702	0.747	0.806	0.822	0.783	6.15
41)	T	cis-1,3-dichlor			0.220	0.220	0.244	0.266	0.263	12.15
42)	T	trans-1,3-dichl			0.202	0.189	0.219	0.221	0.217	7.35
43)	T	1,1,2-trichloro			0.318	0.338	0.380	0.379	0.361	7.19
44)	I	Chlorobenzene-d5	----------ISTD----------							
45)	T	Toluene			0.322	0.343	0.389	0.424	0.417	14.53
46)	T	Methyl Isobutyl				0.300	0.322	0.282	0.307	5.47
47)	T	Dibromochlorome			0.885	0.890	0.973	1.004	0.967	5.43
48)	T	Methyl Butyl Ke				0.314	0.250	0.274	0.260	10.38
49)	T	1,2-dibromoetha			0.471	0.501	0.563	0.570	0.553	7.84
50)	T	Tetrachloroethy			0.456	0.461	0.468	0.492	0.480	3.96
51)	T	Chlorobenzene			0.611	0.659	0.713	0.729	0.716	7.71

(#) = Out of Range ### Number of calibration levels exceeded format ###

Response Factor Report MSD #1

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration

Calibration Files
0.04 =AI010612.D 0.10 =AI010611.D 0.15 =AI010610.D
0.30 =AI010609.D 0.50 =AI010608.D 0.75 =AI010607.D

		Compound	0.04	0.10	0.15	0.30	0.50	0.75	Avg	%RSD
52)	T	Ethylbenzene			0.564	0.670	0.749	0.786	0.799	16.78
53)	T	m&p-xylene			0.410	0.469	0.570	0.638	0.655	24.61
54)	T	Styrene			0.291	0.303	0.364	0.396	0.404	19.75
55)	T	Bromoform			0.818	0.872	0.967	1.000	0.971	8.64
56)	T	o-xylene			0.616	0.719	0.597	0.899	0.781	16.14
57)	S	Bromofluorobenz	0.440	0.462	0.463	0.497	0.489	0.519	0.505	8.13
58)	T	1,1,2,2-tetrach			0.523	0.605	0.700	0.685	0.680	11.74
59)	T	4-ethyltoluene			0.430	0.536	0.660	0.643	0.725	25.95
60)	T	1,3,5-trimethyl			0.368	0.432	0.561	0.565	0.638	29.19
61)	T	1,2,4-trimethyl			0.337	0.420	0.471	0.490	0.503	18.78
62)	T	1,3-dichloroben			0.323	0.432	0.464	0.490	0.512	20.19
63)	T	benzyl chloride			0.307	0.240	0.280	0.352	0.327	14.73
64)	T	1,4-dichloroben			0.309	0.400	0.447	0.465	0.496	21.80
65)	T	1,2-dichloroben			0.309	0.345	0.408	0.462	0.452	19.84
66)	T	1,2,4-trichloro			0.136	0.120	0.141	0.122	0.143	11.06
67)	T	Hexachloro-1,3-			0.285	0.314	0.350	0.285	0.332	11.18

(#) = Out of Range ### Number of calibration levels exceeded format ###

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	26241	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	82909	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	71859	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	38537	0.98	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	25265	1.93	ppb	91
3) Freon 12	2.91	85	145888	1.85	ppb	99
4) Chloromethane	3.05	50	33264	1.94	ppb	97
5) Freon 114	3.05	85	85765	1.87	ppb	95
6) Vinyl Chloride	3.18	62	26721	1.80	ppb	99
7) 1,3-butadiene	3.26	39	19868	1.79	ppb	96
8) Bromomethane	3.50	94	27928	1.91	ppb	99
9) Chloroethane	3.62	64	10982	1.82	ppb	92
10) Vinyl Bromide	3.87	106	31954	1.85	ppb	99
11) Freon 11	4.07	101	85717	1.85	ppb	100
12) Acetone	4.22	58	12534m	1.60	ppb	
13) Isopropyl alcohol	4.32	45	25419m	1.56	ppb	
14) 1,1-dichloroethene	4.66	96	30672m	1.40	ppb	
15) Freon 113	4.83	101	60030	1.06	ppb	96
16) Methylene chloride	5.05	84	41584	1.87	ppb	94
17) Allyl chloride	5.03	41	37745	2.16	ppb	96
18) Carbon disulfide	5.16	76	128466	1.92	ppb	98
19) trans-1,2-dichloroethene	5.88	61	60719	2.04	ppb	91
20) methyl tert-butyl ether	5.95	73	67865	2.19	ppb	92
21) 1,1-dichloroethane	6.27	63	77783	1.95	ppb	97
22) Vinyl acetate	6.29	43	56833	2.49	ppb	95
23) Methyl Ethyl Ketone	6.78	43	84223	2.29	ppb	95
24) cis-1,2-dichloroethene	7.14	61	53380	2.06	ppb	93
25) Hexane	6.78	41	37823	2.05	ppb	92
26) Ethyl acetate	7.37	43	59541	2.31	ppb	97
27) Chloroform	7.73	83	109835	1.93	ppb	97
28) Tetrahydrofuran	7.93	42	24620	2.20	ppb	91
29) 1,2-dichloroethane	8.80	62	67800	2.02	ppb	99
31) 1,1,1-trichloroethane	8.51	97	101265	1.88	ppb	98
32) Cyclohexane	9.21	56	45430	2.10	ppb	88
33) Carbon tetrachloride	9.14	117	123182	1.79	ppb	97
34) Benzene	9.11	78	112841	1.87	ppb	98
35) 1,4-dioxane	10.96	88	16887	1.92	ppb	94
36) 2,2,4-trimethylpentane	10.08	57	126346	1.91	ppb	98
37) Heptane	10.50	43	42603	1.98	ppb	95
38) Trichloroethene	10.59	130	65373	1.84	ppb	96
39) 1,2-dichloropropane	10.71	63	42648	1.87	ppb	98
40) Bromodichloromethane	11.11	83	121772	1.84	ppb	99
41) cis-1,3-dichloropropene	12.02	75	46938	2.05	ppb	96
42) trans-1,3-dichloropropene	12.83	75	35501	1.95	ppb	96
43) 1,1,2-trichloroethane	13.15	97	56017	1.82	ppb	99
45) Toluene	12.88	92	67491	2.12	ppb	98
46) Methyl Isobutyl Ketone	12.00	43	45443	2.21	ppb	94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

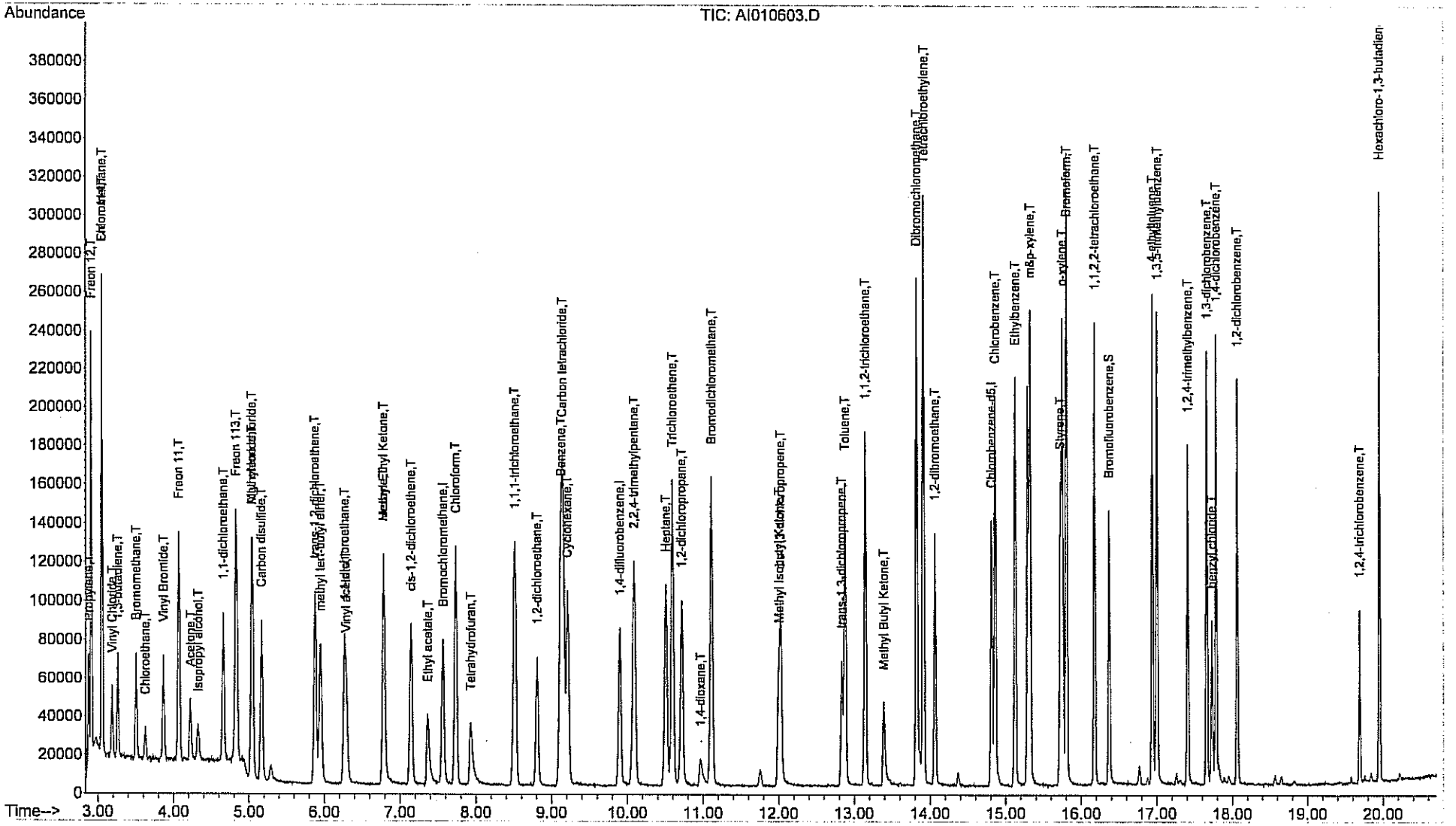
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	138762	1.91	ppb	100
48)	Methyl Butyl Ketone	13.38	43	34081	1.87	ppb	95
49)	1,2-dibromoethane	14.06	107	80707	1.93	ppb	99
50)	Tetrachloroethylene	13.91	164	66900	1.85	ppb	99
51)	Chlorobenzene	14.86	112	104267	1.90	ppb	96
52)	Ethylbenzene	15.13	91	132806	2.17	ppb	96
53)	m&p-xylene	15.32	91	232706	4.56	ppb	98
54)	Styrene	15.72	104	69243	2.24	ppb	97
55)	Bromoform	15.80	173	142610	1.94	ppb	100
56)	o-xylene	15.75	91	125882	2.26	ppb	98
58)	1,1,2,2-tetrachloroethane	16.18	83	98672	1.86	ppb	98
59)	4-ethyltoluene	16.94	105	129746	2.27	ppb	100
60)	1,3,5-trimethylbenzene	17.00	105	117598	2.38	ppb	100
61)	1,2,4-trimethylbenzene	17.41	105	84264	2.24	ppb	99
62)	1,3-dichlorobenzene	17.66	146	83682	2.00	ppb	98
63)	benzyl chloride	17.73	91	50822	2.09	ppb	97
64)	1,4-dichlorobenzene	17.78	146	83552	2.05	ppb	98
65)	1,2-dichlorobenzene	18.06	146	73262	2.02	ppb	98
66)	1,2,4-trichlorobenzene	19.69	180	21789	1.90	ppb	96
67)	Hexachloro-1,3-butadiene	19.95	225	45039	1.74	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010603.D Vial: 3
Acq On : 6 Jan 2011 7:43 pm Operator: RJP
Sample : A1UG_2.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:11 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010603.D A106_1UG.M Tue Feb 08 13:41:40 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D Vial: 4
Acq On : 6 Jan 2011 8:16 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	25617	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	76126	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	69097	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	38832	1.03	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 103.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	18905	1.48	ppb		95
3) Freon 12	2.91	85	110244	1.44	ppb		99
4) Chloromethane	3.05	50	24903	1.49	ppb		96
5) Freon 114	3.05	85	64664	1.45	ppb		96
6) Vinyl Chloride	3.19	62	20657	1.43	ppb		99
7) 1,3-butadiene	3.26	39	16096	1.49	ppb		90
8) Bromomethane	3.50	94	20678	1.45	ppb		96
9) Chloroethane	3.63	64	8585	1.46	ppb		99
10) Vinyl Bromide	3.86	106	24883	1.47	ppb		95
11) Freon 11	4.07	101	65707	1.45	ppb		100
12) Acetone	4.22	58	8503	1.11	ppb	#	65
13) Isopropyl alcohol	4.33	45	20365	1.28	ppb	#	38
14) 1,1-dichloroethene	4.66	96	33777	1.58	ppb		97
15) Freon 113	4.83	101	82257	1.49	ppb		96
16) Methylene chloride	5.05	84	31586	1.45	ppb		94
17) Allyl chloride	5.03	41	26630	1.56	ppb		98
18) Carbon disulfide	5.17	76	97092	1.48	ppb		98
19) trans-1,2-dichloroethene	5.88	61	44517	1.53	ppb		92
20) methyl tert-butyl ether	5.95	73	49684	1.64	ppb		89
21) 1,1-dichloroethane	6.27	63	58261	1.49	ppb		100
22) Vinyl acetate	6.29	43	40354	1.81	ppb		97
23) Methyl Ethyl Ketone	6.79	43	58411	1.63	ppb		98
24) cis-1,2-dichloroethene	7.14	61	39202	1.55	ppb		95
25) Hexane	6.79	41	27807	1.54	ppb	#	87
26) Ethyl acetate	7.37	43	45102	1.79	ppb		97
27) Chloroform	7.73	83	82870	1.49	ppb		100
28) Tetrahydrofuran	7.94	42	18469	1.69	ppb		89
29) 1,2-dichloroethane	8.80	62	51525	1.57	ppb		99
31) 1,1,1-trichloroethane	8.50	97	75412	1.52	ppb		100
32) Cyclohexane	9.21	56	33130	1.66	ppb		88
33) Carbon tetrachloride	9.15	117	93730	1.49	ppb		99
34) Benzene	9.11	78	84320	1.52	ppb		99
35) 1,4-dioxane	10.97	88	13053m	1.62	ppb		
36) 2,2,4-trimethylpentane	10.08	57	91143	1.50	ppb		97
37) Heptane	10.51	43	30503	1.55	ppb		97
38) Trichloroethene	10.59	130	49697	1.52	ppb		97
39) 1,2-dichloropropane	10.72	63	32290	1.54	ppb		98
40) Bromodichloromethane	11.11	83	95262	1.56	ppb		98
41) cis-1,3-dichloropropene	12.02	75	34695	1.65	ppb		98
42) trans-1,3-dichloropropene	12.83	75	27455	1.64	ppb		98
43) 1,1,2-trichloroethane	13.15	97	43727	1.55	ppb		97
45) Toluene	12.88	92	50665	1.66	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	33226	1.68	ppb		96

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D Vial: 4
Acq On : 6 Jan 2011 8:16 pm Operator: RJP
Sample : A1UG_1.5 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	105677	1.51	ppb	99
48)	Methyl Butyl Ketone	13.39	43	24448	1.39	ppb	95
49)	1,2-dibromoethane	14.06	107	61143	1.52	ppb	99
50)	Tetrachloroethylene	13.91	164	51631	1.48	ppb	99
51)	Chlorobenzene	14.86	112	79724	1.51	ppb	95
52)	Ethylbenzene	15.12	91	99020	1.68	ppb	98
53)	m&p-xylene	15.32	91	174407	3.55	ppb	98
54)	Styrene	15.72	104	51700	1.74	ppb	94
55)	Bromoform	15.80	173	109887	1.55	ppb	98
56)	o-xylene	15.75	91	94692	1.77	ppb	99
58)	1,1,2,2-tetrachloroethane	16.17	83	78982	1.55	ppb	98
59)	4-ethyltoluene	16.94	105	99501	1.81	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	90571	1.90	ppb	100
61)	1,2,4-trimethylbenzene	17.41	105	64750	1.79	ppb	97
62)	1,3-dichlorobenzene	17.66	146	64565	1.60	ppb	98
63)	benzyl chloride	17.73	91	39654	1.70	ppb	98
64)	1,4-dichlorobenzene	17.78	146	62575	1.60	ppb	97
65)	1,2-dichlorobenzene	18.06	146	57665	1.65	ppb	99
66)	1,2,4-trichlorobenzene	19.69	180	16083	1.46	ppb	100
67)	Hexachloro-1,3-butadiene	19.95	225	38436	1.54	ppb	95

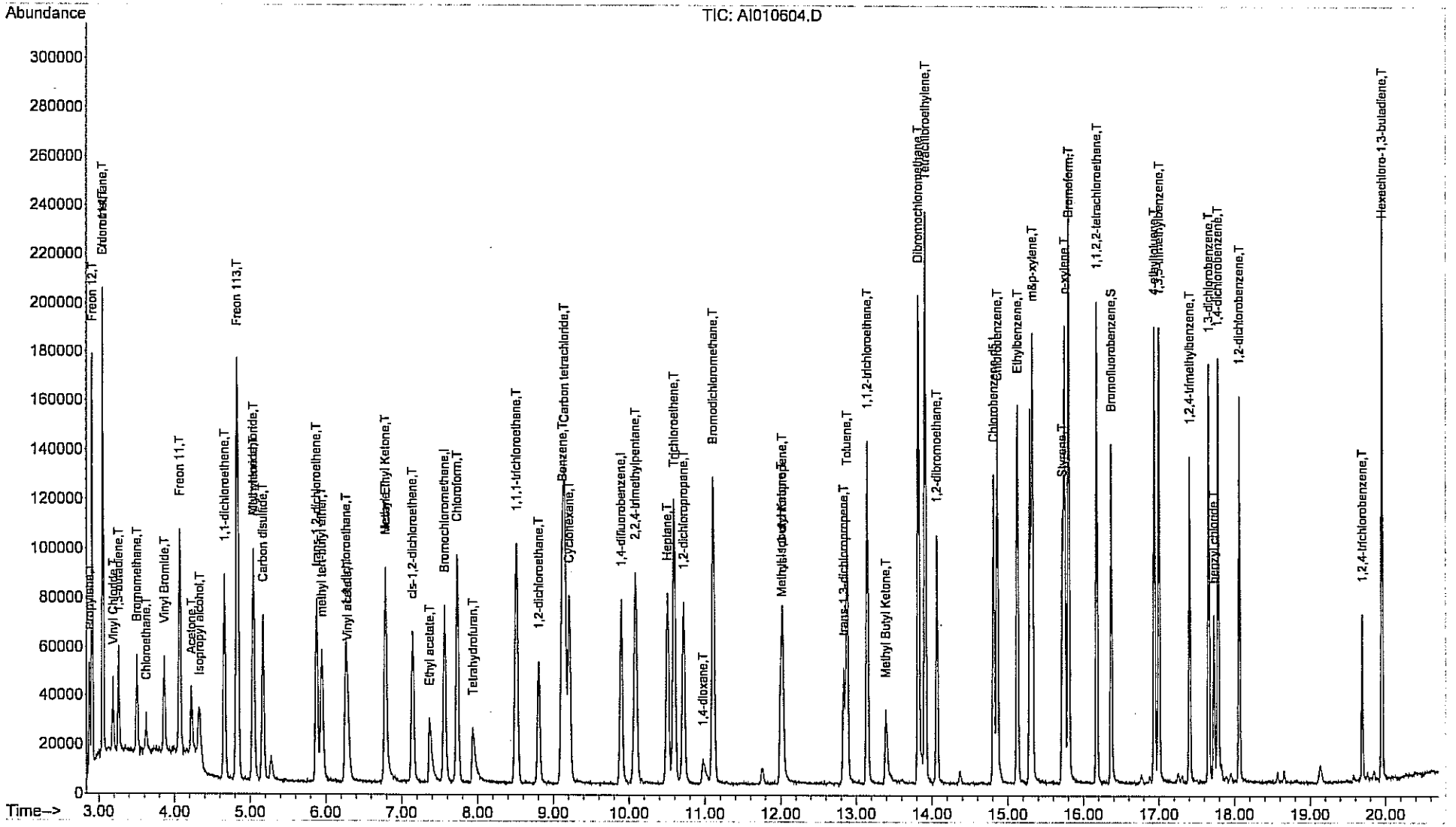
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010604.D
Acq On : 6 Jan 2011 8:16 pm
Sample : A1UG_1.5
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:12 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010604.D A106_1UG.M Tue Feb 08 13:41:43 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D Vial: 5
Acq On : 6 Jan 2011 8:49 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25459	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	76719	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	70761	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	37990	0.98	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 98.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	15993	1.26	ppb		100
3) Freon 12	2.91	85	93162	1.22	ppb		98
4) Chloromethane	3.05	50	22022	1.32	ppb		96
5) Freon 114	3.05	85	53944	1.22	ppb		97
6) Vinyl Chloride	3.18	62	17427	1.21	ppb		99
7) 1,3-butadiene	3.26	39	13276	1.23	ppb		92
8) Bromomethane	3.50	94	18187	1.28	ppb		98
9) Chloroethane	3.62	64	6865	1.17	ppb		92
10) Vinyl Bromide	3.87	106	20150	1.20	ppb		98
11) Freon 11	4.07	101	55367	1.23	ppb		98
12) Acetone	4.22	58	8355m	1.10	ppb		
13) Isopropyl alcohol	4.32	45	18214	1.15	ppb		89
14) 1,1-dichloroethene	4.66	96	28195	1.33	ppb		95
15) Freon 113	4.83	101	67636	1.23	ppb		96
16) Methylene chloride	5.05	84	26709	1.24	ppb		91
17) Allyl chloride	5.03	41	21799	1.29	ppb		95
18) Carbon disulfide	5.17	76	80674	1.24	ppb		98
19) trans-1,2-dichloroethene	5.88	61	37889	1.31	ppb		91
20) methyl tert-butyl ether	5.95	73	41973	1.39	ppb		90
21) 1,1-dichloroethane	6.27	63	48888	1.26	ppb		99
22) Vinyl acetate	6.30	43	30702	1.39	ppb		98
23) Methyl Ethyl Ketone	6.79	43	48824	1.37	ppb		95
24) cis-1,2-dichloroethene	7.14	61	33050	1.31	ppb		93
25) Hexane	6.78	41	23518	1.31	ppb	#	84
26) Ethyl acetate	7.37	43	34623	1.38	ppb		97
27) Chloroform	7.73	83	68817	1.25	ppb		99
28) Tetrahydrofuran	7.94	42	15039	1.39	ppb		87
29) 1,2-dichloroethane	8.80	62	41722	1.28	ppb		100
31) 1,1,1-trichloroethane	8.51	97	63901	1.28	ppb		100
32) Cyclohexane	9.21	56	25572	1.27	ppb		93
33) Carbon tetrachloride	9.14	117	78587	1.24	ppb		98
34) Benzene	9.11	78	70716	1.27	ppb		99
35) 1,4-dioxane	10.98	88	10196	1.26	ppb		84
36) 2,2,4-trimethylpentane	10.08	57	78267	1.28	ppb		98
37) Heptane	10.51	43	25900	1.30	ppb		93
38) Trichloroethene	10.59	130	40999	1.25	ppb		96
39) 1,2-dichloropropane	10.71	63	26777	1.27	ppb		96
40) Bromodichloromethane	11.11	83	78175	1.27	ppb		97
41) cis-1,3-dichloropropene	12.03	75	28053	1.32	ppb		98
42) trans-1,3-dichloropropene	12.84	75	22158	1.31	ppb		100
43) 1,1,2-trichloroethane	13.15	97	36805	1.30	ppb		95
45) Toluene	12.87	92	40583	1.30	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	28194	1.39	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D Vial: 5
Acq On : 6 Jan 2011 8:49 pm Operator: RJP
Sample : A1UG_1.25 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:03:59 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	87583	1.23	ppb	98
48)	Methyl Butyl Ketone	13.39	43	22957m	1.28	ppb	
49)	1,2-dibromoethane	14.06	107	51709	1.25	ppb	98
50)	Tetrachloroethylene	13.91	164	43534	1.22	ppb	99
51)	Chlorobenzene	14.86	112	66895	1.24	ppb	96
52)	Ethylbenzene	15.12	91	78801	1.31	ppb	99
53)	m&p-xylene	15.32	91	139500	2.77	ppb	99
54)	Styrene	15.72	104	41492	1.36	ppb	95
55)	Bromoform	15.80	173	91340	1.26	ppb	98
56)	o-xylene	15.75	91	75776	1.38	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	65633	1.26	ppb	98
59)	4-ethyltoluene	16.94	105	77288	1.37	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	70714	1.45	ppb	99
61)	1,2,4-trimethylbenzene	17.41	105	50337	1.36	ppb	97
62)	1,3-dichlorobenzene	17.66	146	53013	1.29	ppb	98
63)	benzyl chloride	17.73	91	32311	1.35	ppb	97
64)	1,4-dichlorobenzene	17.78	146	52807	1.32	ppb	97
65)	1,2-dichlorobenzene	18.06	146	46461	1.30	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	13922	1.23	ppb	94
67)	Hexachloro-1,3-butadiene	19.95	225	33172	1.30	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

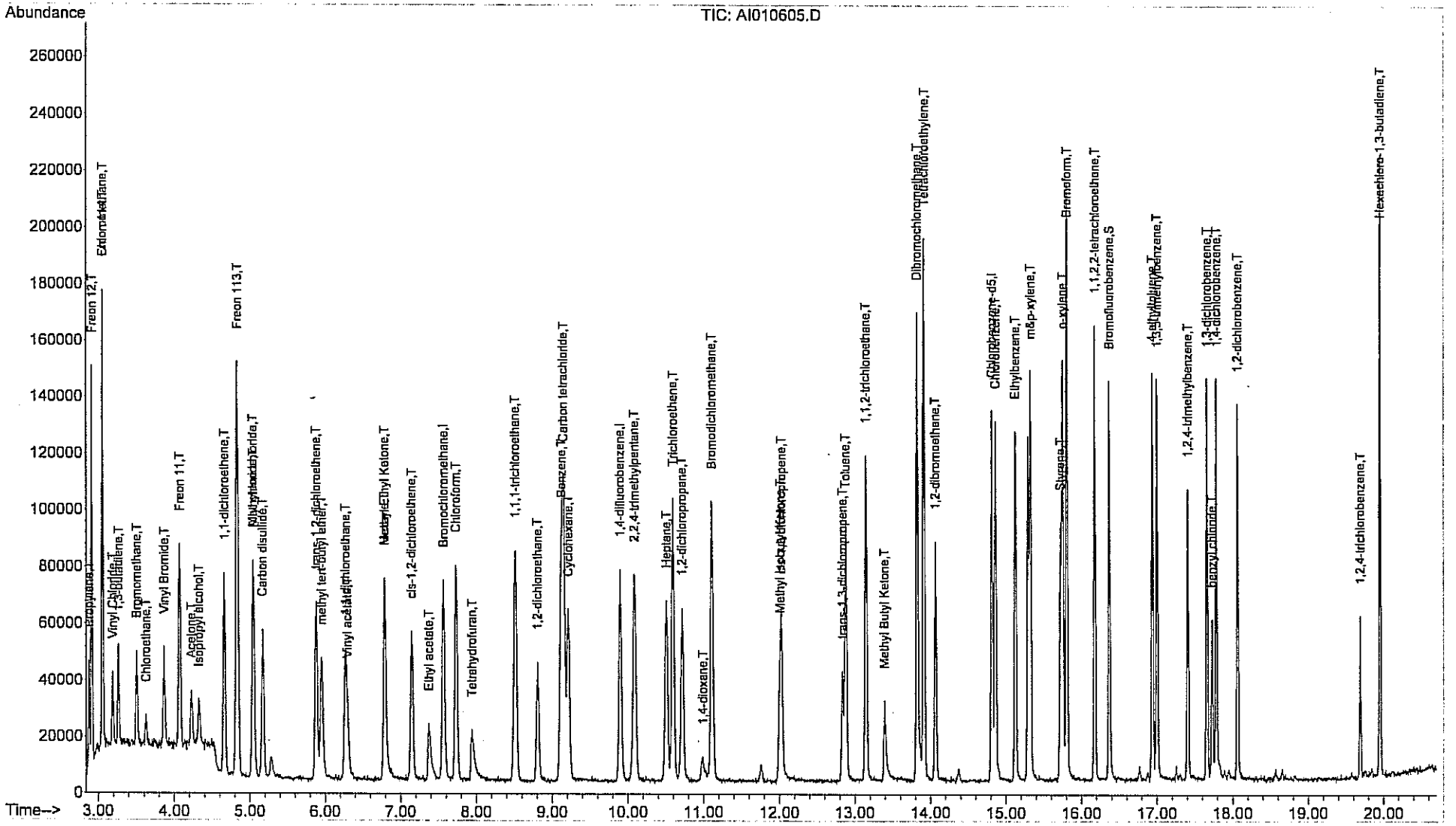
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010605.D
Acq On : 6 Jan 2011 8:49 pm
Sample : A1UG_1.25
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:13 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D Vial: 6
Acq On : 6 Jan 2011 9:22 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25550	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	74725	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	67197	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	36643	1.00	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 100.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	12714	1.00	ppb		99
3) Freon 12	2.91	85	76576	1.00	ppb		99
4) Chloromethane	3.05	50	16682	1.00	ppb		98
5) Freon 114	3.05	85	44541	1.00	ppb		96
6) Vinyl Chloride	3.19	62	14443	1.00	ppb		99
7) 1,3-butadiene	3.26	39	10804	1.00	ppb		93
8) Bromomethane	3.50	94	14265	1.00	ppb		96
9) Chloroethane	3.62	64	5866	1.00	ppb		99
10) Vinyl Bromide	3.87	106	16832	1.00	ppb		100
11) Freon 11	4.07	101	45109	1.00	ppb		97
12) Acetone	4.23	58	7621	1.00	ppb	#	67
13) Isopropyl alcohol	4.33	45	15906	1.00	ppb	#	38
14) 1,1-dichloroethene	4.66	96	21344	1.00	ppb		94
15) Freon 113	4.83	101	55189	1.00	ppb		96
16) Methylene chloride	5.05	84	21704	1.00	ppb		89
17) Allyl chloride	5.03	41	17005	1.00	ppb		94
18) Carbon disulfide	5.17	76	65213	1.00	ppb		99
19) trans-1,2-dichloroethene	5.88	61	29036	1.00	ppb		94
20) methyl tert-butyl ether	5.95	73	30196	1.00	ppb		90
21) 1,1-dichloroethane	6.27	63	38917	1.00	ppb		97
22) Vinyl acetate	6.30	43	22182	1.00	ppb		99
23) Methyl Ethyl Ketone	6.79	43	35791	1.00	ppb		96
24) cis-1,2-dichloroethene	7.14	61	25260	1.00	ppb		95
25) Hexane	6.79	41	17953	1.00	ppb	#	80
26) Ethyl acetate	7.38	43	25040	1.00	ppb		98
27) Chloroform	7.73	83	55409	1.00	ppb		98
28) Tetrahydrofuran	7.95	42	10790	0.99	ppb		82
29) 1,2-dichloroethane	8.80	62	32748	1.00	ppb		100
31) 1,1,1-trichloroethane	8.51	97	48655	1.00	ppb		100
32) Cyclohexane	9.21	56	19543	1.00	ppb		93
33) Carbon tetrachloride	9.15	117	61854	1.00	ppb		100
34) Benzene	9.11	78	54390	1.00	ppb		98
35) 1,4-dioxane	11.00	88	7888	1.00	ppb		91
36) 2,2,4-trimethylpentane	10.08	57	59509	1.00	ppb		99
37) Heptane	10.51	43	19362	1.00	ppb		94
38) Trichloroethene	10.59	130	32039	1.00	ppb		97
39) 1,2-dichloropropane	10.72	63	20535	1.00	ppb		99
40) Bromodichloromethane	11.11	83	59765	1.00	ppb		100
41) cis-1,3-dichloropropene	12.03	75	20630	1.00	ppb		98
42) trans-1,3-dichloropropene	12.84	75	16445	1.00	ppb		99
43) 1,1,2-trichloroethane	13.15	97	27670	1.00	ppb		100
45) Toluene	12.88	92	29758	1.00	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	19269	1.00	ppb		98

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D Vial: 6
Acq On : 6 Jan 2011 9:22 pm Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:02:28 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	67888	1.00	ppb	100
48)	Methyl Butyl Ketone	13.40	43	16905	0.99	ppb	93
49)	1,2-dibromoethane	14.06	107	39133	1.00	ppb	99
50)	Tetrachloroethylene	13.91	164	33901	1.00	ppb	100
51)	Chlorobenzene	14.86	112	51341	1.00	ppb	94
52)	Ethylbenzene	15.13	91	57194	1.00	ppb	97
53)	m&p-xylene	15.32	91	95536	2.00	ppb	100
54)	Styrene	15.72	104	28924	1.00	ppb	92
55)	Bromoform	15.80	173	68866	1.00	ppb	100
56)	o-xylene	15.75	91	51989	1.00	ppb	99
58)	1,1,2,2-tetrachloroethane	16.18	83	49653	1.00	ppb	97
59)	4-ethyltoluene	16.94	105	53557	1.00	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	46252	1.00	ppb	99
61)	1,2,4-trimethylbenzene	17.40	105	35153	1.00	ppb	97
62)	1,3-dichlorobenzene	17.66	146	39165	1.00	ppb	99
63)	benzyl chloride	17.72	91	22713	1.00	ppb	97
64)	1,4-dichlorobenzene	17.78	146	38131	1.00	ppb	97
65)	1,2-dichlorobenzene	18.06	146	33899	1.00	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	10728	1.00	ppb	98
67)	Hexachloro-1,3-butadiene	19.95	225	24206	1.00	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

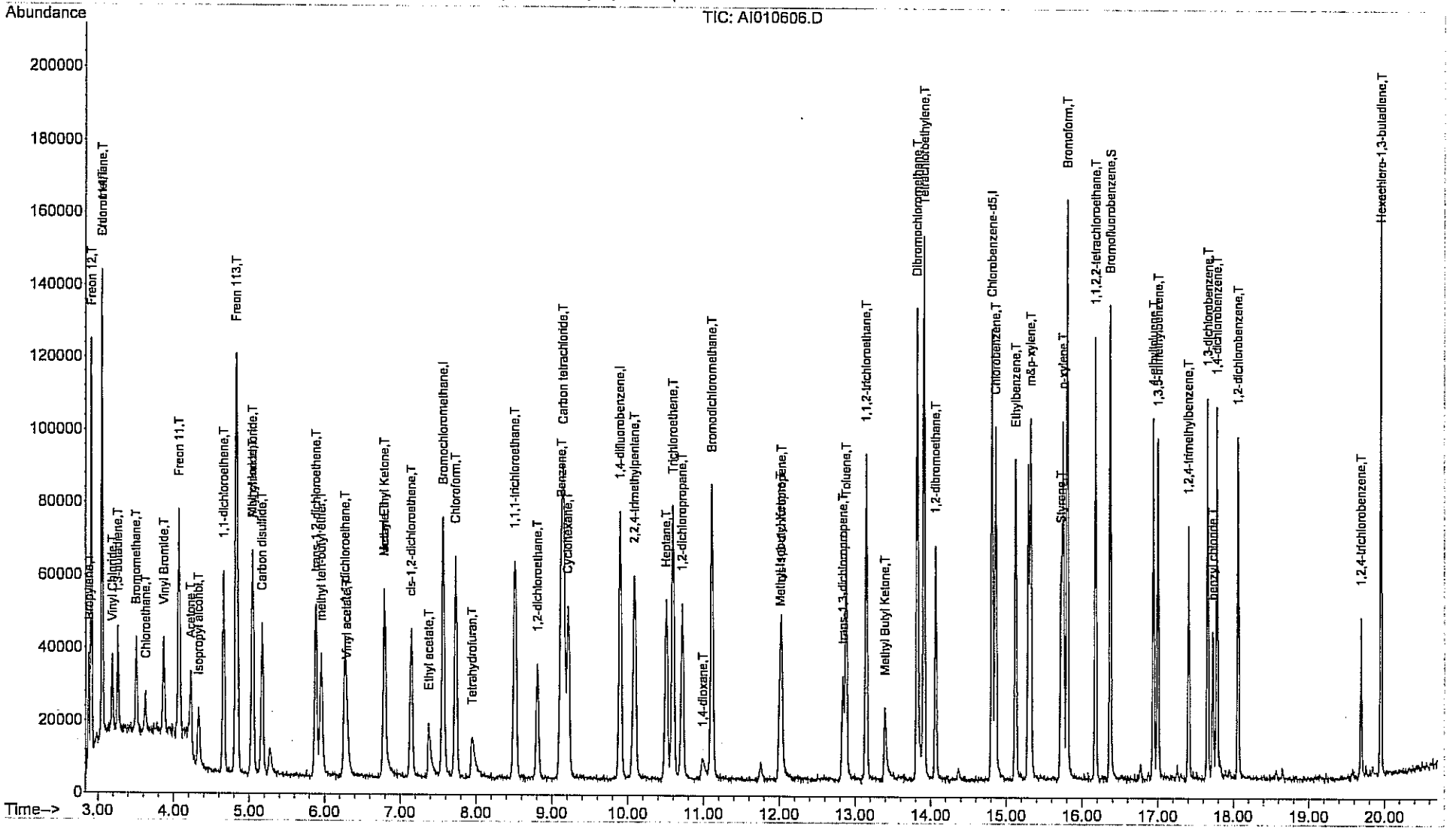
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010606.D
Acq On : 6 Jan 2011 9:22 pm
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:02 2011

Vial: 6
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:20 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	25367	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	73524	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	65953	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	34236	0.95	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 95.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	9088	0.72	ppb		91
3) Freon 12	2.91	85	55658	0.73	ppb		99
4) Chloromethane	3.05	50	13043	0.79	ppb		99
5) Freon 114	3.05	85	32372	0.73	ppb		97
6) Vinyl Chloride	3.19	62	10429	0.73	ppb		98
7) 1,3-butadiene	3.26	39	8402	0.78	ppb		95
8) Bromomethane	3.50	94	11271	0.80	ppb		97
9) Chloroethane	3.63	64	4069	0.70	ppb		91
10) Vinyl Bromide	3.87	106	11971	0.72	ppb		98
11) Freon 11	4.07	101	32913	0.73	ppb		97
12) Acetone	4.23	58	4762m	0.63	ppb		
13) Isopropyl alcohol	4.33	45	12038m	0.76	ppb		
14) 1,1-dichloroethene	4.66	96	15933	0.75	ppb		95
15) Freon 113	4.83	101	40260	0.73	ppb		95
16) Methylene chloride	5.05	84	15857	0.74	ppb		91
17) Allyl chloride	5.03	41	11891	0.70	ppb		92
18) Carbon disulfide	5.17	76	48531	0.75	ppb		100
19) trans-1,2-dichloroethene	5.88	61	21462	0.74	ppb		92
20) methyl tert-butyl ether	5.95	73	21600	0.72	ppb		89
21) 1,1-dichloroethane	6.27	63	27822	0.72	ppb		99
22) Vinyl acetate	6.30	43	17275	0.78	ppb		96
23) Methyl Ethyl Ketone	6.80	43	27833m	0.78	ppb		
24) cis-1,2-dichloroethene	7.15	61	18658	0.74	ppb		97
25) Hexane	6.79	41	12550	0.70	ppb	#	75
26) Ethyl acetate	7.39	43	20249m	0.81	ppb		
27) Chloroform	7.73	83	40768	0.74	ppb		97
28) Tetrahydrofuran	7.95	42	7872	0.73	ppb		83
29) 1,2-dichloroethane	8.81	62	24250	0.75	ppb		99
31) 1,1,1-trichloroethane	8.51	97	36387	0.76	ppb		98
32) Cyclohexane	9.21	56	14616	0.76	ppb		88
33) Carbon tetrachloride	9.14	117	45100	0.74	ppb		98
34) Benzene	9.11	78	37187	0.69	ppb		96
35) 1,4-dioxane	11.00	88	5591m	0.72	ppb		
36) 2,2,4-trimethylpentane	10.09	57	40784	0.70	ppb		95
37) Heptane	10.50	43	13120	0.69	ppb		93
38) Trichloroethene	10.59	130	22636	0.72	ppb		95
39) 1,2-dichloropropane	10.72	63	14910	0.74	ppb		99
40) Bromodichloromethane	11.11	83	45344	0.77	ppb		98
41) cis-1,3-dichloropropene	12.03	75	14649	0.72	ppb		96
42) trans-1,3-dichloropropene	12.83	75	12192	0.75	ppb		96
43) 1,1,2-trichloroethane	13.15	97	20925	0.77	ppb		96
45) Toluene	12.88	92	20978	0.72	ppb		98
46) Methyl Isobutyl Ketone	12.01	43	13971m	0.74	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:20 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

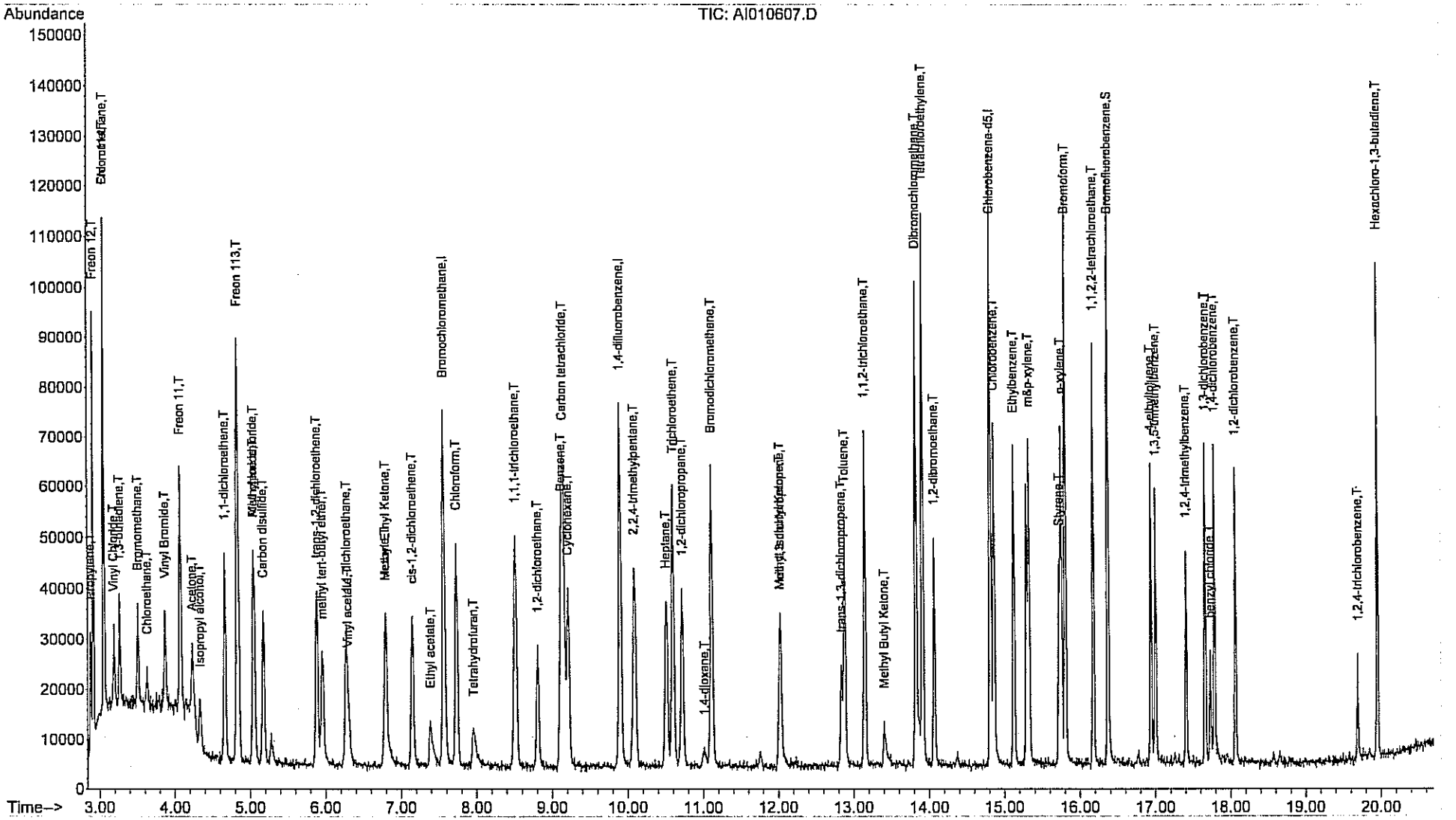
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	49683	0.75	ppb	99
48)	Methyl Butyl Ketone	13.40	43	13542m	0.81	ppb	
49)	1,2-dibromoethane	14.07	107	28197	0.73	ppb	98
50)	Tetrachloroethylene	13.91	164	24336	0.73	ppb	100
51)	Chlorobenzene	14.86	112	36055	0.72	ppb	95
52)	Ethylbenzene	15.12	91	38877	0.69	ppb	98
53)	m&p-xylene	15.32	91	63130	1.35	ppb	99
54)	Styrene	15.72	104	19607	0.69	ppb	95
55)	Bromoform	15.80	173	49460	0.73	ppb	99
56)	o-xylene	15.75	91	44492m	0.87	ppb	
58)	1,1,2,2-tetrachloroethane	16.17	83	33859	0.69	ppb	100
59)	4-ethyltoluene	16.93	105	31800	0.60	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	27948m	0.62	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	24213m	0.70	ppb	
62)	1,3-dichlorobenzene	17.66	146	24251	0.63	ppb	96
63)	benzyl chloride	17.72	91	17410m	0.78	ppb	
64)	1,4-dichlorobenzene	17.78	146	22984	0.61	ppb	97
65)	1,2-dichlorobenzene	18.06	146	22839m	0.69	ppb	
66)	1,2,4-trichlorobenzene	19.69	180	6032m	0.57	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	14085	0.59	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010607.D Vial: 7
Acq On : 6 Jan 2011 9:54 pm Operator: RJP
Sample : A1UG_0.75 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:20 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:40 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	24836	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	71962	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	66504	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	32507	0.90	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	6462	0.52	ppb		94
3) Freon 12	2.91	85	38156	0.51	ppb		100
4) Chloromethane	3.05	50	8758	0.54	ppb		97
5) Freon 114	3.05	85	21588	0.50	ppb		97
6) Vinyl Chloride	3.19	62	7020	0.50	ppb		95
7) 1,3-butadiene	3.26	39	5520	0.53	ppb		95
8) Bromomethane	3.50	94	8249	0.59	ppb		88
9) Chloroethane	3.62	64	2886	0.51	ppb		80
10) Vinyl Bromide	3.87	106	7987	0.49	ppb		97
11) Freon 11	4.06	101	22239	0.51	ppb		100
12) Acetone	4.23	58	3944m	0.53	ppb		
13) Isopropyl alcohol	4.33	45	7084	0.46	ppb		87
14) 1,1-dichloroethene	4.66	96	11159	0.54	ppb		98
15) Freon 113	4.83	101	26410	0.49	ppb		95
16) Methylene chloride	5.05	84	10714	0.51	ppb		88
17) Allyl chloride	5.03	41	7573	0.46	ppb		90
18) Carbon disulfide	5.17	76	31916	0.50	ppb		98
19) trans-1,2-dichloroethene	5.88	61	14369	0.51	ppb		89
20) methyl tert-butyl ether	5.96	73	14055	0.48	ppb		83
21) 1,1-dichloroethane	6.27	63	18495	0.49	ppb		100
22) Vinyl acetate	6.31	43	10517	0.49	ppb		98
23) Methyl Ethyl Ketone	6.81	43	14969	0.43	ppb		95
24) cis-1,2-dichloroethene	7.15	61	11883	0.48	ppb		94
25) Hexane	6.79	41	8284	0.47	ppb	#	71
26) Ethyl acetate	7.39	43	11874	0.49	ppb		92
27) Chloroform	7.73	83	26367	0.49	ppb		99
28) Tetrahydrofuran	7.98	42	4923	0.47	ppb	#	26
29) 1,2-dichloroethane	8.81	62	16046	0.50	ppb		99
31) 1,1,1-trichloroethane	8.51	97	23235	0.50	ppb		98
32) Cyclohexane	9.21	56	8397	0.45	ppb		93
33) Carbon tetrachloride	9.15	117	29677	0.50	ppb		98
34) Benzene	9.11	78	24308	0.46	ppb		97
35) 1,4-dioxane	11.02	88	3832	0.50	ppb		98
36) 2,2,4-trimethylpentane	10.08	57	26044	0.45	ppb		94
37) Heptane	10.50	43	8558	0.46	ppb		94
38) Trichloroethene	10.59	130	14422	0.47	ppb		91
39) 1,2-dichloropropane	10.71	63	9839	0.50	ppb		94
40) Bromodichloromethane	11.11	83	29012	0.50	ppb		97
41) cis-1,3-dichloropropene	12.03	75	8792	0.44	ppb		96
42) trans-1,3-dichloropropene	12.84	75	7862	0.50	ppb		94
43) 1,1,2-trichloroethane	13.15	97	13663	0.51	ppb		97
45) Toluene	12.88	92	12938	0.44	ppb		96
46) Methyl Isobutyl Ketone	12.01	43	10696	0.56	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:04:40 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

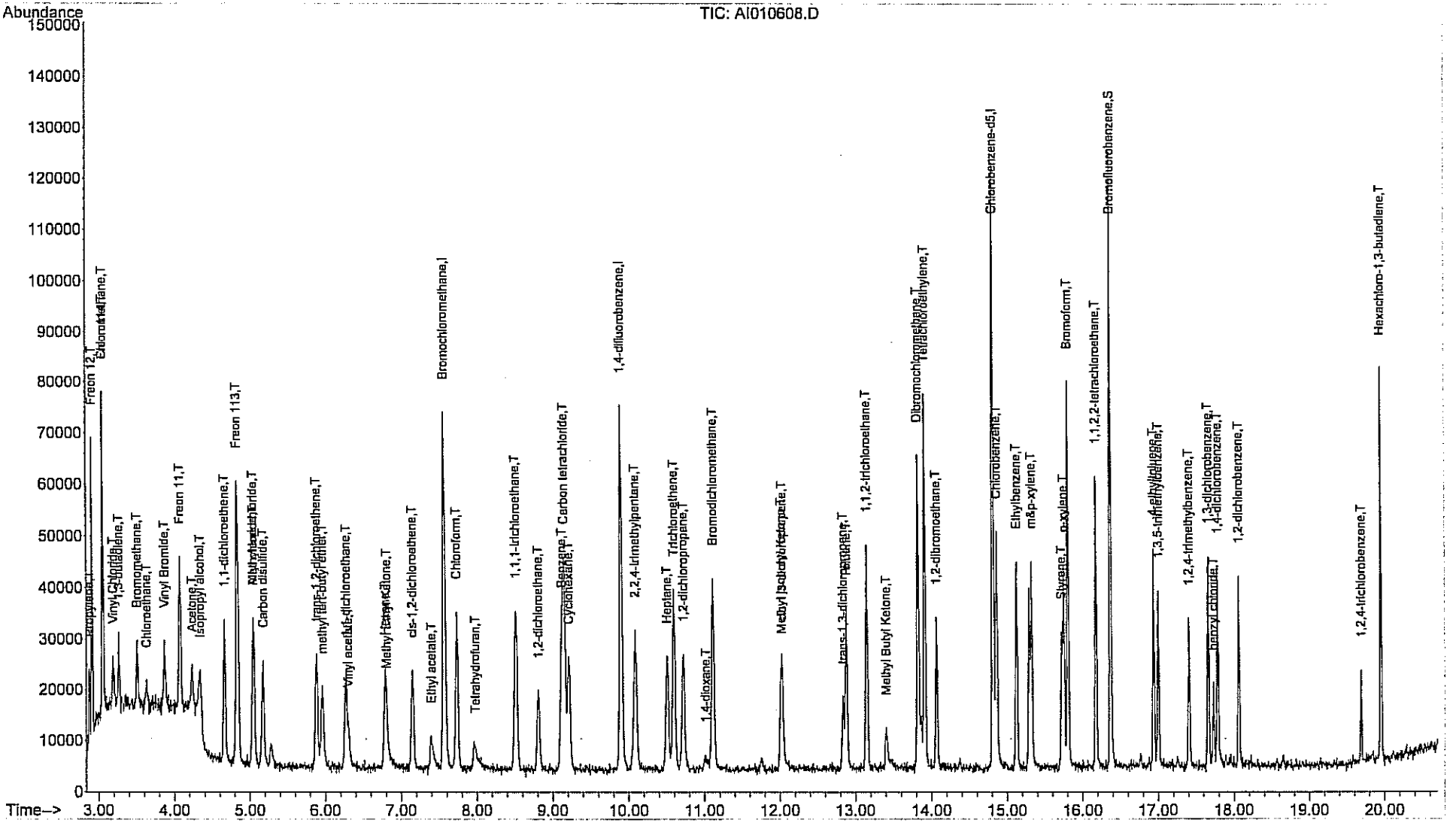
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	32341	0.48	ppb	99
48)	Methyl Butyl Ketone	13.41	43	8322m	0.49	ppb	
49)	1,2-dibromoethane	14.06	107	18722	0.48	ppb	95
50)	Tetrachloroethylene	13.91	164	15577	0.46	ppb	99
51)	Chlorobenzene	14.86	112	23703	0.47	ppb	95
52)	Ethylbenzene	15.13	91	24901	0.44	ppb	95
53)	m&p-xylene	15.32	91	37888	0.80	ppb	97
54)	Styrene	15.72	104	12102	0.42	ppb	95
55)	Bromoform	15.80	173	32139	0.47	ppb	99
56)	o-xylene	15.75	91	19855	0.39	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	23270	0.47	ppb	96
59)	4-ethyltoluene	16.94	105	21941	0.41	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	18645m	0.41	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	15664m	0.45	ppb	
62)	1,3-dichlorobenzene	17.66	146	15418	0.40	ppb	97
63)	benzyl chloride	17.73	91	9315	0.41	ppb	97
64)	1,4-dichlorobenzene	17.78	146	14849	0.39	ppb	98
65)	1,2-dichlorobenzene	18.06	146	13551	0.40	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	4690m	0.44	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	11641	0.49	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010608.D Vial: 8
Acq On : 6 Jan 2011 10:26 pm Operator: RJP
Sample : A1UG_0.50 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:21 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D Vial: 9
Acq On : 6 Jan 2011 10:58 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:00 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	25269	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	73157	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	66874	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	33256	0.91	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	3973	0.32	ppb		90
3) Freon 12	2.91	85	22851	0.30	ppb		99
4) Chloromethane	3.05	50	5274	0.32	ppb		97
5) Freon 114	3.05	85	12134	0.28	ppb		100
6) Vinyl Chloride	3.18	62	4428	0.31	ppb		99
7) 1,3-butadiene	3.26	39	3934	0.37	ppb		83
8) Bromomethane	3.51	94	4580	0.32	ppb		96
9) Chloroethane	3.62	64	1851	0.32	ppb		82
10) Vinyl Bromide	3.87	106	4620	0.28	ppb		93
11) Freon 11	4.07	101	12982	0.29	ppb		98
12) Acetone	4.23	58	2371	0.31	ppb	#	82
13) Isopropyl alcohol	4.33	45	4784	0.30	ppb		69
14) 1,1-dichloroethene	4.66	96	6201	0.29	ppb		98
15) Freon 113	4.83	101	16027	0.29	ppb		97
16) Methylene chloride	5.04	84	5977	0.28	ppb		95
17) Allyl chloride	5.04	41	4521	0.27	ppb		92
18) Carbon disulfide	5.17	76	19690	0.31	ppb		97
19) trans-1,2-dichloroethene	5.88	61	8274	0.29	ppb		91
20) methyl tert-butyl ether	5.96	73	7608	0.25	ppb		83
21) 1,1-dichloroethane	6.27	63	10791	0.28	ppb		96
22) Vinyl acetate	6.30	43	5638	0.26	ppb		93
23) Methyl Ethyl Ketone	6.79	43	10314m	0.29	ppb		
24) cis-1,2-dichloroethene	7.15	61	7246	0.29	ppb		90
25) Hexane	6.79	41	4763	0.27	ppb	#	67
26) Ethyl acetate	7.40	43	8265m	0.33	ppb		
27) Chloroform	7.74	83	15729	0.29	ppb		100
28) Tetrahydrofuran	7.98	42	3210m	0.30	ppb		
29) 1,2-dichloroethane	8.81	62	9008	0.28	ppb		97
31) 1,1,1-trichloroethane	8.51	97	13824	0.29	ppb		100
32) Cyclohexane	9.20	56	4943	0.26	ppb		92
33) Carbon tetrachloride	9.15	117	18104	0.30	ppb		96
34) Benzene	9.11	78	15311	0.29	ppb		97
35) 1,4-dioxane	11.01	88	2761m	0.36	ppb		
36) 2,2,4-trimethylpentane	10.08	57	15173	0.26	ppb		95
37) Heptane	10.51	43	5184	0.27	ppb		93
38) Trichloroethene	10.59	130	8514	0.27	ppb		96
39) 1,2-dichloropropane	10.72	63	5467	0.27	ppb		99
40) Bromodichloromethane	11.10	83	16394	0.28	ppb		99
41) cis-1,3-dichloropropene	12.03	75	4826	0.24	ppb		96
42) trans-1,3-dichloropropene	12.83	75	4155	0.26	ppb		91
43) 1,1,2-trichloroethane	13.15	97	7421	0.27	ppb		99
45) Toluene	12.87	92	6879	0.23	ppb		95
46) Methyl Isobutyl Ketone	12.01	43	6012	0.31	ppb		87

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D Vial: 9
Acq On : 6 Jan 2011 10:58 pm Operator: RJP
Sample : A1UG_0.30 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:00 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	17853	0.26	ppb	100
48)	Methyl Butyl Ketone	13.40	43	6300m	0.37	ppb	
49)	1,2-dibromoethane	14.07	107	10053	0.26	ppb	99
50)	Tetrachloroethylene	13.91	164	9239	0.27	ppb	97
51)	Chlorobenzene	14.86	112	13231	0.26	ppb	95
52)	Ethylbenzene	15.12	91	13439	0.24	ppb	98
53)	m&p-xylene	15.29	91	18813	0.40	ppb	99
54)	Styrene	15.73	104	6078	0.21	ppb	92
55)	Bromoform	15.80	173	17494	0.26	ppb	98
56)	o-xylene	15.75	91	14423m	0.28	ppb	
58)	1,1,2,2-tetrachloroethane	16.18	83	12139	0.25	ppb	98
59)	4-ethyltoluene	16.94	105	10755	0.20	ppb	99
60)	1,3,5-trimethylbenzene	17.00	105	8673m	0.19	ppb	
61)	1,2,4-trimethylbenzene	17.40	105	8421m	0.24	ppb	
62)	1,3-dichlorobenzene	17.66	146	8664	0.22	ppb	98
63)	benzyl chloride	17.73	91	4805	0.21	ppb	98
64)	1,4-dichlorobenzene	17.78	146	8019	0.21	ppb	98
65)	1,2-dichlorobenzene	18.06	146	6915	0.20	ppb	93
66)	1,2,4-trichlorobenzene	19.69	180	2403	0.23	ppb	96
67)	Hexachloro-1,3-butadiene	19.95	225	6306	0.26	ppb	94

(#) = qualifier out of range (m) = manual integration (+) = signals summed

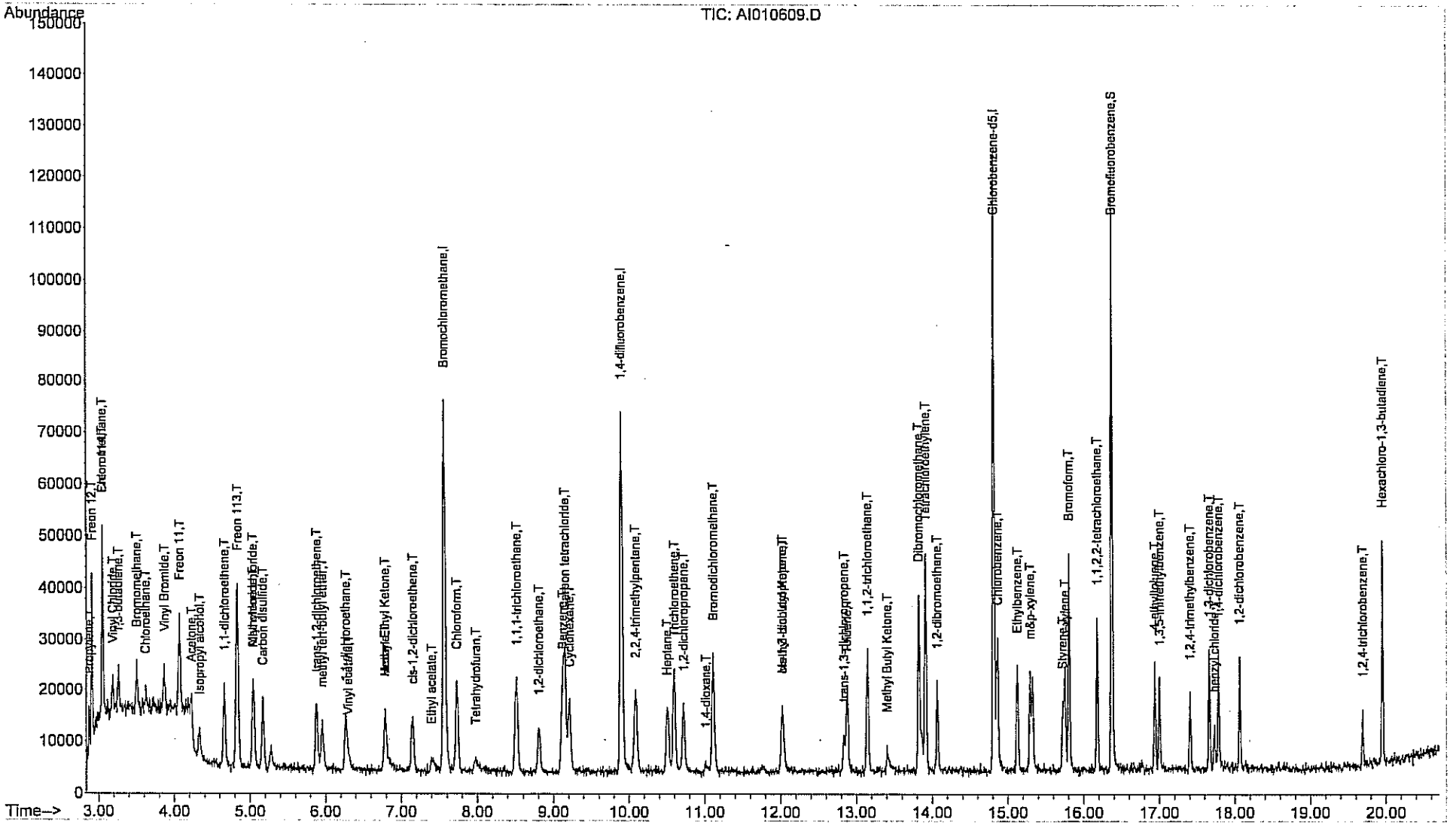
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010609.D
Acq On : 6 Jan 2011 10:58 pm
Sample : A1UG_0.30
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:22 2011

Vial: 9
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D Vial: 10
Acq On : 6 Jan 2011 11:30 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.57	128	26215	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.90	114	73623	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	64909	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.37	95	30055	0.85	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%				
Target Compounds							Qvalue
2) Propylene	2.88	41	2275	0.17	ppb		75
3) Freon 12	2.91	85	11309	0.14	ppb		99
4) Chloromethane	3.05	50	2649	0.15	ppb		76
5) Freon 114	3.05	85	6181	0.14	ppb		92
6) Vinyl Chloride	3.19	62	2080	0.14	ppb		89
7) 1,3-butadiene	3.26	39	1999	0.18	ppb		82
8) Bromomethane	3.51	94	2514	0.17	ppb		90
9) Chloroethane	3.62	64	859	0.14	ppb		83
10) Vinyl Bromide	3.87	106	2625	0.15	ppb		92
11) Freon 11	4.07	101	6724	0.15	ppb		98
12) Acetone	4.23	58	1007	0.13	ppb	#	64
13) Isopropyl alcohol	4.34	45	2247	0.14	ppb		69
14) 1,1-dichloroethene	4.66	96	3041	0.14	ppb		94
15) Freon 113	4.83	101	7407	0.13	ppb		94
16) Methylene chloride	5.05	84	3077	0.14	ppb		93
17) Allyl chloride	5.04	41	2190	0.13	ppb		86
18) Carbon disulfide	5.17	76	10014	0.15	ppb		97
19) trans-1,2-dichloroethene	5.88	61	3778	0.13	ppb		95
20) methyl tert-butyl ether	5.96	73	3640m	0.12	ppb		
21) 1,1-dichloroethane	6.28	63	4964	0.12	ppb		98
22) Vinyl acetate	6.31	43	2739	0.12	ppb		82
24) cis-1,2-dichloroethene	7.15	61	3250	0.13	ppb		94
25) Hexane	6.80	41	2563	0.14	ppb	#	17
27) Chloroform	7.74	83	7453	0.13	ppb		99
29) 1,2-dichloroethane	8.81	62	4371	0.13	ppb		94
31) 1,1,1-trichloroethane	8.51	97	6357	0.13	ppb		97
32) Cyclohexane	9.22	56	2128	0.11	ppb	#	60
33) Carbon tetrachloride	9.15	117	8447	0.14	ppb		100
34) Benzene	9.12	78	6722	0.13	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	7074	0.12	ppb		95
37) Heptane	10.51	43	2404	0.13	ppb		87
38) Trichloroethene	10.59	130	4252	0.13	ppb		96
39) 1,2-dichloropropane	10.72	63	2633	0.13	ppb		99
40) Bromodichloromethane	11.10	83	7755	0.13	ppb		98
41) cis-1,3-dichloropropene	12.02	75	2432m	0.12	ppb		
42) trans-1,3-dichloropropene	12.84	75	2228m	0.14	ppb		
43) 1,1,2-trichloroethane	13.15	97	3507	0.13	ppb		96
45) Toluene	12.88	92	3133	0.11	ppb		96
47) Dibromochloromethane	13.82	129	8617	0.13	ppb		98
49) 1,2-dibromoethane	14.07	107	4583	0.12	ppb		94
50) Tetrachloroethylene	13.91	164	4439	0.14	ppb		97
51) Chlorobenzene	14.87	112	5945	0.12	ppb		92
53) m&p-xylene	15.32	91	7988	0.17	ppb		99

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D Vial: 10
Acq On : 6 Jan 2011 11:30 pm Operator: RJP
Sample : A1UG_0.15 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
54)	Styrene	15.72	104	2833	0.10	ppb	98
55)	Bromoform	15.80	173	7963	0.12	ppb	98
56)	o-xylene	15.75	91	5996m	0.12	ppb	
58)	1,1,2,2-tetrachloroethane	16.18	83	5095	0.11	ppb	100
63)	benzyl chloride	17.73	91	2988m	0.14	ppb	
66)	1,2,4-trichlorobenzene	19.69	180	1322m	0.13	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	2770m	0.12	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

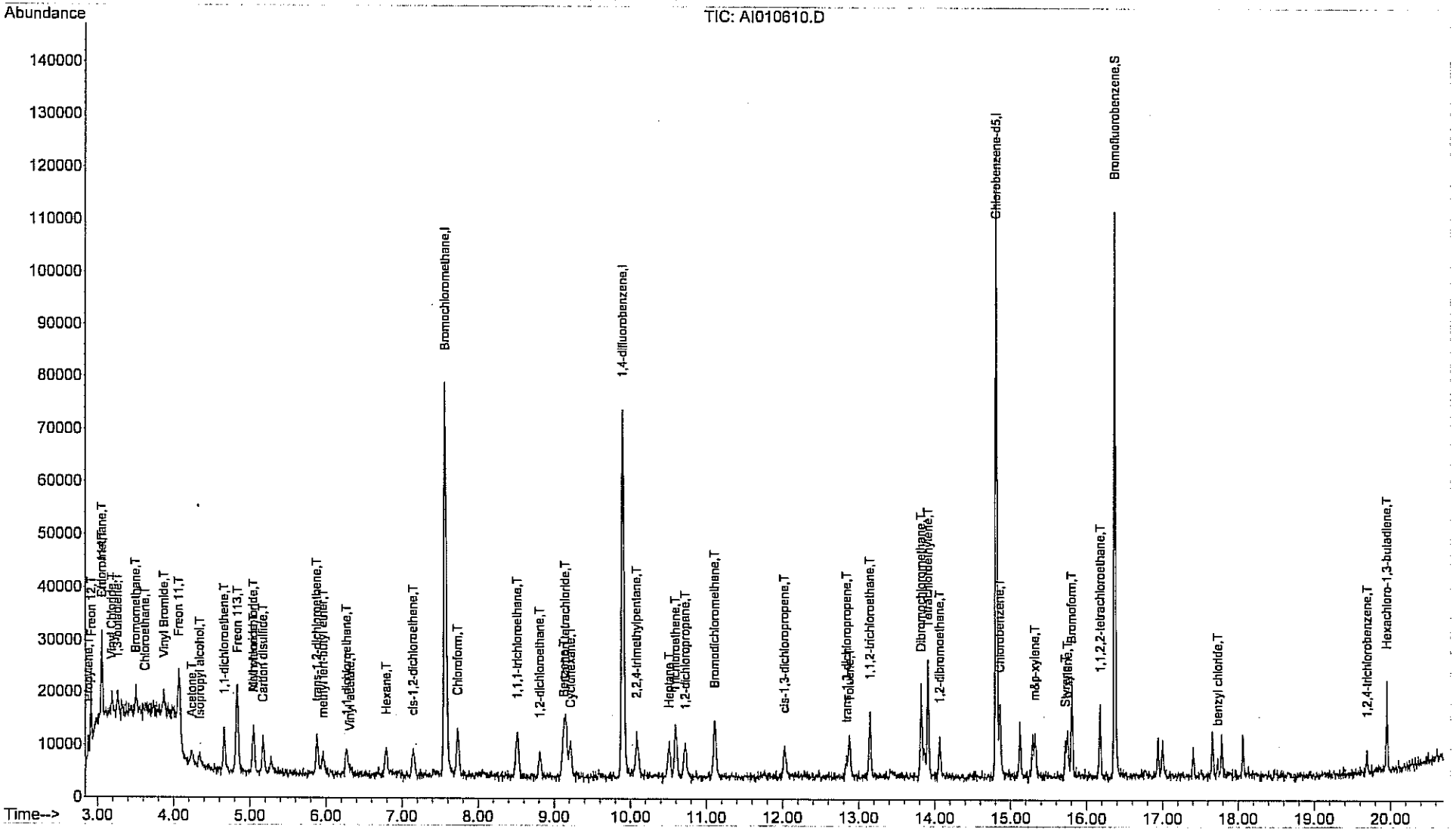
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010610.D
Acq On : 6 Jan 2011 11:30 pm
Sample : A1UG_0.15
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:24 2011

Vial: 10
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



AI010610.D A106_1UG.M Tue Feb 08 13:42:01 2011 MSD1

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010611.D Vial: 11
Acq On : 7 Jan 2011 12:02 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:05:45 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

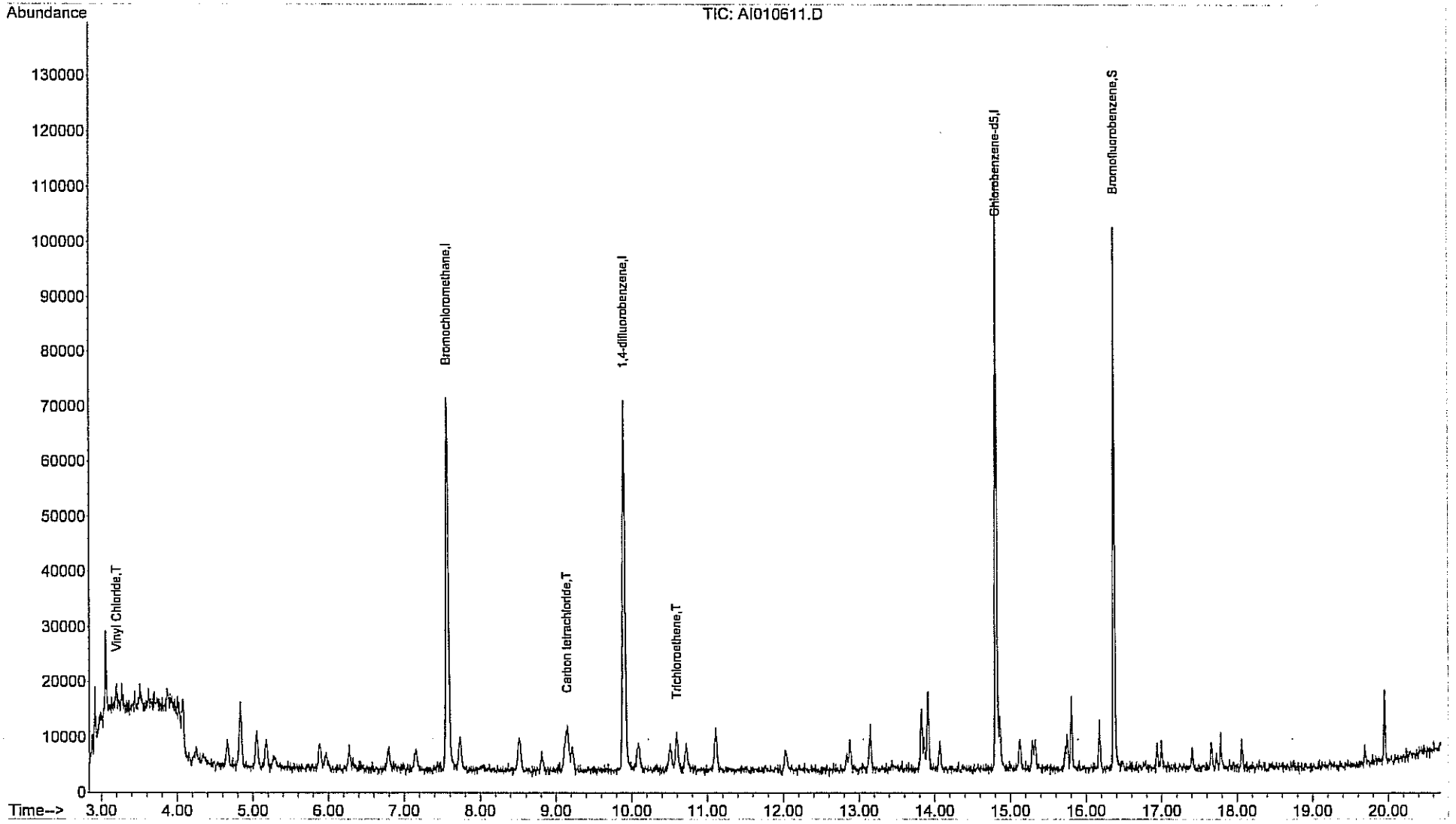
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	25248	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	68882	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	61202	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	28275	0.85	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 85.00%			
Target Compounds						Qvalue
6) Vinyl Chloride	3.19	62	1543	0.11	ppb	94
33) Carbon tetrachloride	9.15	117	5615	0.10	ppb	99
38) Trichloroethene	10.59	130	2615	0.09	ppb	91

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010611.D Vial: 11
Acq On : 7 Jan 2011 12:02 am Operator: RJP
Sample : A1UG_0.10 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:25 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010612.D Vial: 12
Acq On : 7 Jan 2011 12:33 am Operator: RJP
Sample : A1UG_0.04 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 07 10:06:14 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:02:24 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	23886	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	66037	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	58877	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	25929	0.81	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 81.00%			
Target Compounds						Qvalue
33) Carbon tetrachloride	9.15	117	4074	0.07	ppb	96
38) Trichloroethene	10.59	130	1956	0.07	ppb	92

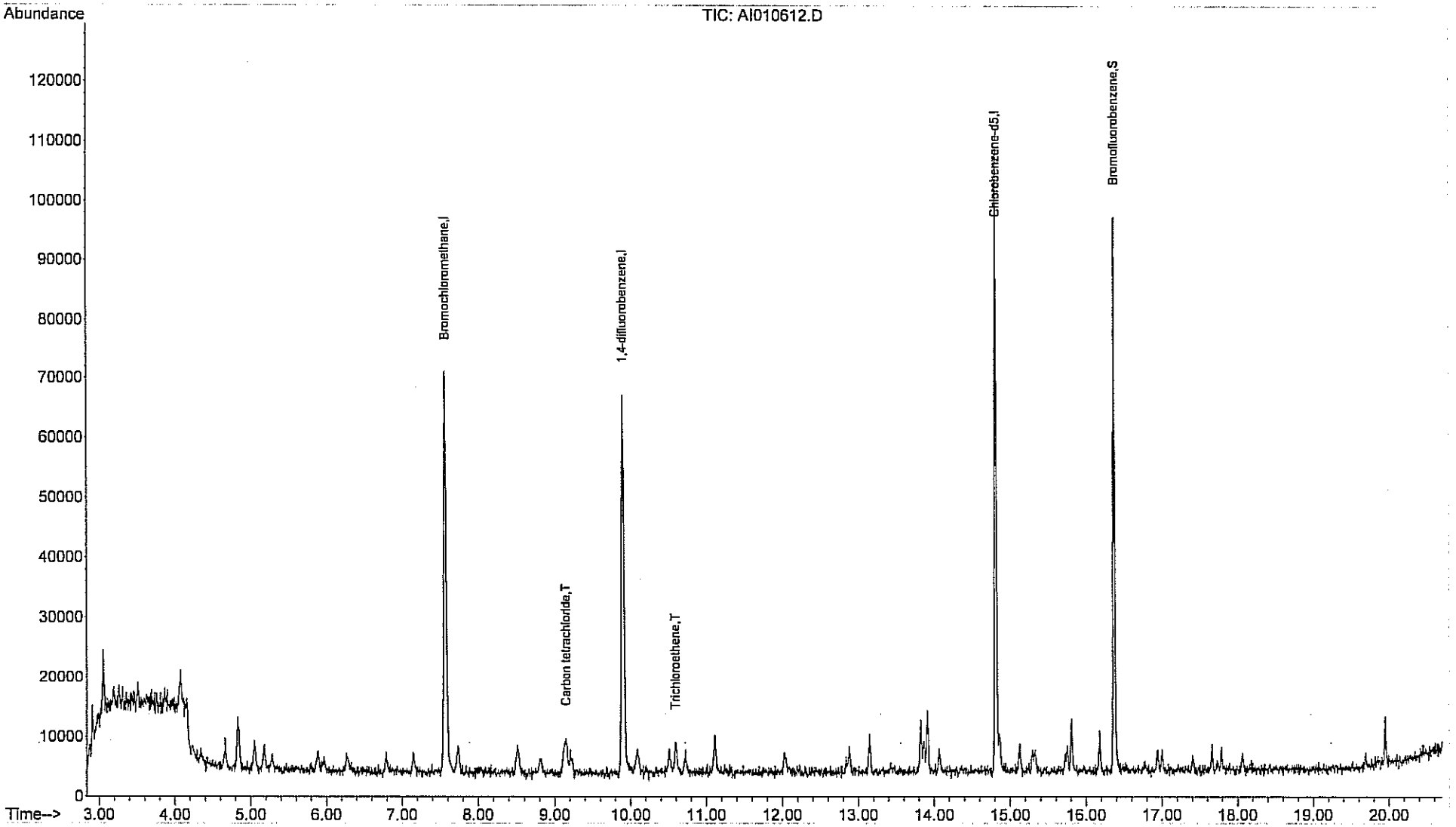
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI010612.D
Acq On : 7 Jan 2011 12:33 am
Sample : A1UG_0.04
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 7 10:30 2011

Vial: 12
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Continuing Cal File: C:\HPCHEM\1\DATA\AI010606.D



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CALIBRATION VERIFICATION

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	70	0.00
2	T	Propylene	0.509	0.546	-7.3	77	0.00
3	T	Freon 12	2.933	3.605	-22.9	84	0.00
4	T	Chloromethane	0.673	0.858	-27.5	92	0.00
5	T	Freon 114	1.671	2.014	-20.5	81	0.00
6	T	Vinyl Chloride	0.555	0.668	-20.4	83	0.00
7	T	1,3-butadiene	0.444	0.510	-14.9	84	0.00
8	T	Bromomethane	0.588	0.708	-20.4	89	0.00
9	T	Chloroethane	0.223	0.282	-26.5	86	0.00
10	T	Vinyl Bromide	0.637	0.719	-12.9	76	0.00
11	T	Freon 11	1.724	2.066	-19.8	82	0.00
12	T	Acetone	0.270	0.239	11.5	56	0.00
13	T	Isopropyl alcohol	0.577	0.719	-24.6	81	0.00
14	T	1,1-dichloroethene	0.814	1.015	-24.7	85	0.00
15	T	Freon 113	1.976	2.556	-29.4	83	0.00
16	T	Methylene chloride	0.821	0.993	-21.0	82	0.00
17	T	Allyl chloride	0.644	0.749	-16.3	79	0.00
18	T	Carbon disulfide	2.541	3.038	-19.6	83	0.00
19	T	trans-1,2-dichloroethene	1.122	1.245	-11.0	77	0.00
20	T	methyl tert-butyl ether	1.160	1.436	-23.8	85	0.00
21	T	1,1-dichloroethane	1.462	1.823	-24.7	84	0.00
22	T	Vinyl acetate	0.895	0.955	-6.7	77	0.00
23	T	Methyl Ethyl Ketone	1.441	1.387	3.7	69	0.00
24	T	cis-1,2-dichloroethene	0.973	1.154	-18.6	82	0.00
25	T	Hexane	0.687	0.730	-6.3	73	0.00
26	T	Ethyl acetate	1.070	0.983	8.1	70	0.00
27	T	Chloroform	2.102	2.575	-22.5	83	0.00
28	T	Tetrahydrofuran	0.440	0.430	2.3	71	0.00
29	T	1,2-dichloroethane	1.262	1.607	-27.3	88	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	65	0.00
31	T	1,1,1-trichloroethane	0.637	0.811	-27.3	82	0.00
32	T	Cyclohexane	0.251	0.287	-14.3	72	0.00
33	T	Carbon tetrachloride	0.880	1.086	-23.4	86	0.00
34	T	Benzene	0.693	0.887	-28.0	80	0.00
35	T	1,4-dioxane	0.109	0.100	8.3	62	0.00
36	T	2,2,4-trimethylpentane	0.746	0.858	-15.0	70	0.00
37	T	Heptane	0.248	0.286	-15.3	72	0.00
38	T	Trichloroethene	0.439	0.527	-20.0	80	0.00
39	T	1,2-dichloropropane	0.266	0.341	-28.2	81	0.00
40	T	Bromodichloromethane	0.783	1.008	-28.7	83	0.00
41	T	cis-1,3-dichloropropene	0.263	0.324	-23.2	77	0.00
42	T	trans-1,3-dichloropropene	0.217	0.274	-26.3	81	0.00
43	T	1,1,2-trichloroethane	0.361	0.450	-24.7	79	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	67	0.00
45	T	Toluene	0.417	0.471	-12.9	71	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.247	19.5	58	0.00
47	T	Dibromochloromethane	0.967	1.150	-18.9	76	0.00
48	T	Methyl Butyl Ketone	0.260	0.194	25.4	52	0.00
49	T	1,2-dibromoethane	0.553	0.664	-20.1	76	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.585	-21.9	78	0.00
51	T	Chlorobenzene	0.716	0.779	-8.8	68	0.00
52	T	Ethylbenzene	0.799	0.849	-6.3	67	0.00
53	T	m&p-xylene	0.655	0.680	-3.8	64	0.00
54	T	Styrene	0.404	0.414	-2.5	64	0.00
55	T	Bromoform	0.971	1.128	-16.2	74	0.00
56	T	o-xylene	0.781	0.709	9.2	61	0.00
57	S	Bromofluorobenzene	0.505	0.576	-14.1	71	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.677	0.4	61	0.00
59	T	4-ethyltoluene	0.725	0.794	-9.5	67	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.559	12.4	54	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.390	22.5	50#	0.00
62	T	1,3-dichlorobenzene	0.512	0.461	10.0	53	0.00
63	T	benzyl chloride	0.327	0.345	-5.5	68	0.00
64	T	1,4-dichlorobenzene	0.496	0.434	12.5	51	0.00
65	T	1,2-dichlorobenzene	0.452	0.382	15.5	51	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.110	23.1	46#	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.268	19.3	50#	0.00

(#) = Out of Range SPCC's out = 0 CCC's out = 0
AI012504.D A106_1UG.M Tue Feb 08 15:50:22 2011 MSD1 Page 2

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:23:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	17855	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.89	114	48897	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	44931	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	25861	1.14	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 114.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	9740	1.07	ppb		81
3) Freon 12	2.91	85	64364	1.23	ppb		99
4) Chloromethane	3.05	50	15320	1.27	ppb		97
5) Freon 114	3.05	85	35956	1.21	ppb		97
6) Vinyl Chloride	3.18	62	11928	1.20	ppb		97
7) 1,3-butadiene	3.25	39	9109	1.15	ppb		91
8) Bromomethane	3.50	94	12645	1.21	ppb		94
9) Chloroethane	3.62	64	5036	1.26	ppb		95
10) Vinyl Bromide	3.86	106	12829	1.13	ppb		100
11) Freon 11	4.06	101	36888	1.20	ppb		98
12) Acetone	4.22	58	4261	0.88	ppb		98
13) Isopropyl alcohol	4.32	45	12838	1.25	ppb		98
14) 1,1-dichloroethene	4.65	96	18121	1.25	ppb		97
15) Freon 113	4.82	101	45629m	1.29	ppb		
16) Methylene chloride	5.04	84	17725	1.21	ppb		92
17) Allyl chloride	5.03	41	13377	1.16	ppb		98
18) Carbon disulfide	5.16	76	54237	1.20	ppb		98
19) trans-1,2-dichloroethene	5.87	61	22230	1.11	ppb		93
20) methyl tert-butyl ether	5.94	73	25644	1.24	ppb		100
21) 1,1-dichloroethane	6.26	63	32546	1.25	ppb		97
22) Vinyl acetate	6.29	43	17048	1.07	ppb		95
23) Methyl Ethyl Ketone	6.79	43	24766	0.96	ppb		94
24) cis-1,2-dichloroethene	7.14	61	20611	1.19	ppb		95
25) Hexane	6.79	41	13040	1.06	ppb	#	74
26) Ethyl acetate	7.37	43	17543	0.92	ppb		96
27) Chloroform	7.73	83	45978	1.22	ppb		100
28) Tetrahydrofuran	7.95	42	7670	0.98	ppb		79
29) 1,2-dichloroethane	8.80	62	28685	1.27	ppb		99
31) 1,1,1-trichloroethane	8.51	97	39662m	1.27	ppb		
32) Cyclohexane	9.20	56	14030	1.14	ppb		95
33) Carbon tetrachloride	9.14	117	53087	1.23	ppb		97
34) Benzene	9.10	78	43364	1.28	ppb		99
35) 1,4-dioxane	10.99	88	4890m	0.92	ppb		
36) 2,2,4-trimethylpentane	10.08	57	41946	1.15	ppb		95
37) Heptane	10.50	43	13994	1.15	ppb		93
38) Trichloroethene	10.58	130	25774	1.20	ppb		95
39) 1,2-dichloropropane	10.71	63	16679	1.28	ppb		94
40) Bromodichloromethane	11.10	83	49310	1.29	ppb		97
41) cis-1,3-dichloropropene	12.02	75	15832m	1.23	ppb		
42) trans-1,3-dichloropropene	12.83	75	13383	1.26	ppb		99
43) 1,1,2-trichloroethane	13.14	97	21996	1.25	ppb		95
45) Toluene	12.87	92	21175	1.13	ppb		95
46) Methyl Isobutyl Ketone	12.00	43	11088	0.80	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012504.D Vial: 16
Acq On : 25 Jan 2011 10:03 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : 1UG + 0.25UG Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:23:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51685	1.19	ppb	98
48)	Methyl Butyl Ketone	13.39	43	8725m A	0.75	ppb	
49)	1,2-dibromoethane	14.06	107	29812	1.20	ppb	96
50)	Tetrachloroethylene	13.91	164	26296	1.22	ppb	98
51)	Chlorobenzene	14.86	112	35023	1.09	ppb	92
52)	Ethylbenzene	15.12	91	38126	1.06	ppb	100
53)	m&p-xylene	15.31	91	61134	2.08	ppb	100
54)	Styrene	15.72	104	18607	1.02	ppb	98
55)	Bromoform	15.80	173	50669	1.16	ppb	96
56)	o-xylene	15.74	91	31860	0.91	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	30433	1.00	ppb	97
59)	4-ethyltoluene	16.93	105	35671	1.09	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	25133	0.88	ppb	100
61)	1,2,4-trimethylbenzene	17.40	105	17528	0.78	ppb	94
62)	1,3-dichlorobenzene	17.65	146	20717	0.90	ppb	95
63)	benzyl chloride	17.72	91	15506	1.05	ppb	98
64)	1,4-dichlorobenzene	17.78	146	19508	0.88	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17147	0.84	ppb	94
66)	1,2,4-trichlorobenzene	19.68	180	4961	0.77	ppb	96
67)	Hexachloro-1,3-butadiene	19.94	225	12062	0.81	ppb	97

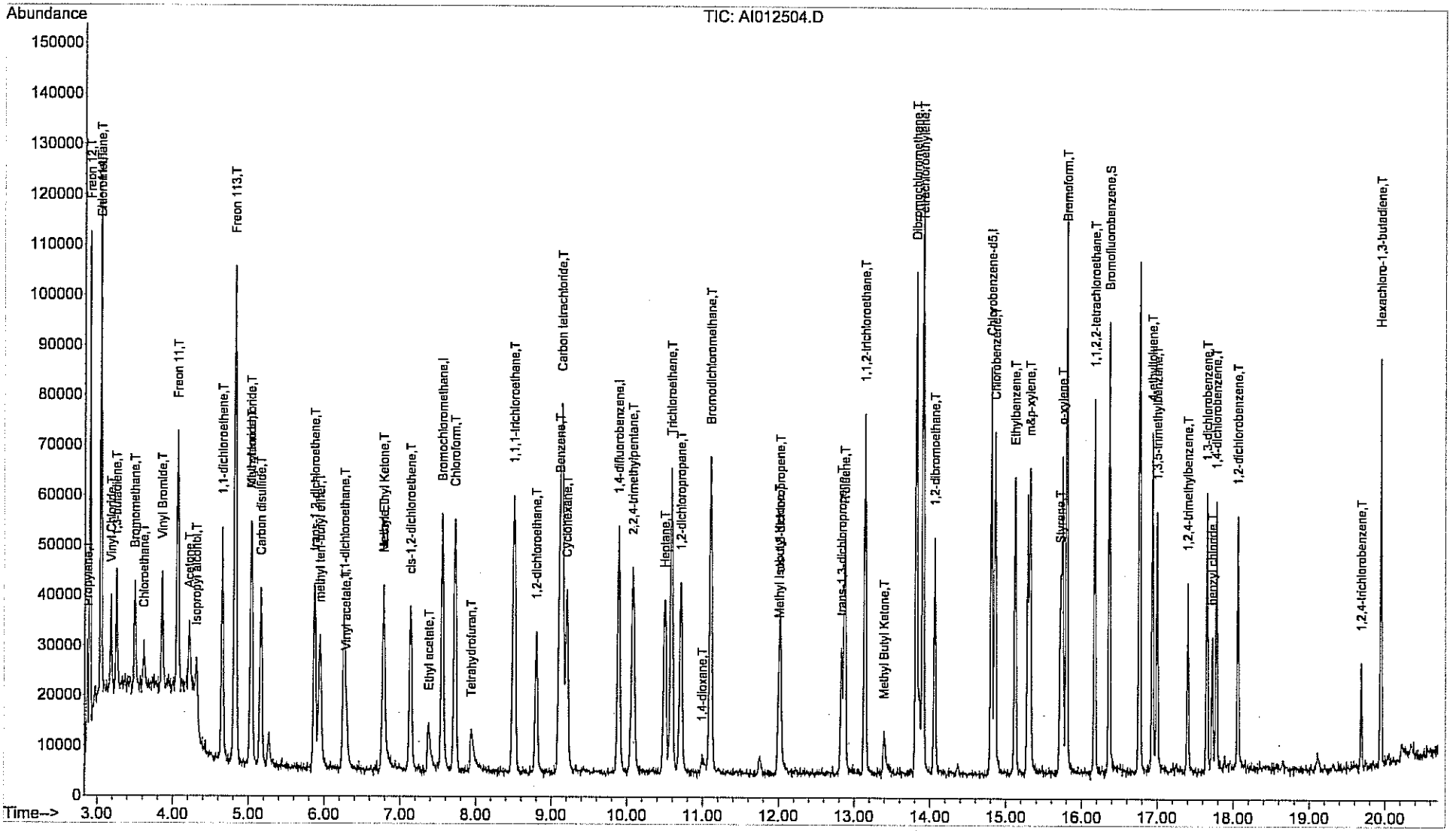
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Data File : C:\HPCHEM\1\DATA\AI012504.D
Acq On : 25 Jan 2011 10:03 am
Sample : A1UG_1.0
Misc : 1UG + 0.25UG
MS Integration Params: RTEINT.P
Quant Time: Jan 25 14:12 2011

Vial: 16
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	73	0.00
2	T	Propylene	0.509	0.589	-15.7	86	0.00
3	T	Freon 12	2.933	3.644	-24.2	89	0.00
4	T	Chloromethane	0.673	0.871	-29.4	97	0.00
5	T	Freon 114	1.671	2.076	-24.2	87	0.00
6	T	Vinyl Chloride	0.555	0.670	-20.7	87	0.00
7	T	1,3-butadiene	0.444	0.553	-24.5	95	0.00
8	T	Bromomethane	0.588	0.690	-17.3	90	0.00
9	T	Chloroethane	0.223	0.286	-28.3	91	0.00
10	T	Vinyl Bromide	0.637	0.722	-13.3	80	0.00
11	T	Freon 11	1.724	2.071	-20.1	86	0.00
12	T	Acetone	0.270	0.248	8.1	61	0.00
13	T	Isopropyl alcohol	0.577	0.623	-8.0	73	0.02
14	T	1,1-dichloroethene	0.814	0.682	16.2	60	0.00
15	T	Freon 113	1.976	1.503	23.9	51	0.00
16	T	Methylene chloride	0.821	1.018	-24.0	87	0.00
17	T	Allyl chloride	0.644	0.808	-25.5	89	0.00
18	T	Carbon disulfide	2.541	3.055	-20.2	87	0.00
19	T	trans-1,2-dichloroethene	1.122	1.357	-20.9	87	0.00
20	T	methyl tert-butyl ether	1.160	1.417	-22.2	87	0.02
21	T	1,1-dichloroethane	1.462	1.789	-22.4	86	0.00
22	T	Vinyl acetate	0.895	1.097	-22.6	92	0.00
23	T	Methyl Ethyl Ketone	1.441	1.640	-13.8	85	0.00
24	T	cis-1,2-dichloroethene	0.973	1.183	-21.6	87	0.00
25	T	Hexane	0.687	0.793	-15.4	82	0.00
26	T	Ethyl acetate	1.070	1.199	-12.1	89	0.00
27	T	Chloroform	2.102	2.695	-28.2	91	0.00
28	T	Tetrahydrofuran	0.440	0.496	-12.7	86	-0.01
29	T	1,2-dichloroethane	1.262	1.591	-26.1	91	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	77	0.00
31	T	1,1,1-trichloroethane	0.637	0.820	-28.7	97	0.00
32	T	Cyclohexane	0.251	0.285	-13.5	83	0.00
33	T	Carbon tetrachloride	0.880	0.968	-10.0	90	0.00
34	T	Benzene	0.693	0.836	-20.6	88	0.00
35	T	1,4-dioxane	0.109	0.094	13.8	68	0.00
36	T	2,2,4-trimethylpentane	0.746	0.802	-7.5	77	0.00
37	T	Heptane	0.248	0.269	-8.5	80	0.00
38	T	Trichloroethene	0.439	0.480	-9.3	86	0.00
39	T	1,2-dichloropropane	0.266	0.318	-19.5	89	0.00
40	T	Bromodichloromethane	0.783	0.894	-14.2	86	0.00
41	T	cis-1,3-dichloropropene	0.263	0.312	-18.6	87	0.00
42	T	trans-1,3-dichloropropene	0.217	0.252	-16.1	88	0.00
43	T	1,1,2-trichloroethane	0.361	0.422	-16.9	88	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	81	0.00
45	T	Toluene	0.417	0.454	-8.9	84	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.266	13.4	75	0.00
47	T	Dibromochloromethane	0.967	0.995	-2.9	80	0.00
48	T	Methyl Butyl Ketone	0.260	0.217	16.5	70	0.00
49	T	1,2-dibromoethane	0.553	0.589	-6.5	82	0.00

(#) = Out of Range

Calibration Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.520	-8.3	84	0.00
51	T	Chlorobenzene	0.716	0.745	-4.1	79	0.00
52	T	Ethylbenzene	0.799	0.809	-1.3	77	0.00
53	T	m&p-xylene	0.655	0.646	1.4	74	0.00
54	T	Styrene	0.404	0.387	4.2	73	0.00
55	T	Bromoform	0.971	0.952	2.0	76	0.00
56	T	o-xylene	0.781	0.672	14.0	71	0.00
57	S	Bromofluorobenzene	0.505	0.570	-12.9	85	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.622	8.5	69	0.00
59	T	4-ethyltoluene	0.725	0.769	-6.1	79	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.554	13.2	66	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.411	18.3	64	0.00
62	T	1,3-dichlorobenzene	0.512	0.458	10.5	64	0.00
63	T	benzyl chloride	0.327	0.383	-17.1	92	0.00
64	T	1,4-dichlorobenzene	0.496	0.421	15.1	60	0.00
65	T	1,2-dichlorobenzene	0.452	0.393	13.1	63	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.128	10.5	65	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.270	18.7	61	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:01:32 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18641	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	57345	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	54753	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	31213	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10986	1.16	ppb		92
3) Freon 12	2.91	85	67933	1.24	ppb		98
4) Chloromethane	3.05	50	16233m	1.29	ppb		
5) Freon 114	3.05	85	38707m	1.24	ppb		
6) Vinyl Chloride	3.18	62	12497	1.21	ppb		100
7) 1,3-butadiene	3.26	39	10312	1.25	ppb		80
8) Bromomethane	3.50	94	12859	1.17	ppb		99
9) Chloroethane	3.62	64	5334	1.28	ppb		68
10) Vinyl Bromide	3.86	106	13454	1.13	ppb		99
11) Freon 11	4.06	101	38614	1.20	ppb		99
12) Acetone	4.23	58	4625	0.92	ppb		93
13) Isopropyl alcohol	4.33	45	11612	1.08	ppb		99
14) 1,1-dichloroethene	4.65	96	12717	0.84	ppb		90
15) Freon 113	4.82	101	28011	0.76	ppb		93
16) Methylene chloride	5.04	84	18983	1.24	ppb		94
17) Allyl chloride	5.03	41	15055	1.25	ppb		98
18) Carbon disulfide	5.16	76	56942	1.20	ppb		98
19) trans-1,2-dichloroethene	5.87	61	25291	1.21	ppb		92
20) methyl tert-butyl ether	5.96	73	26405m	1.22	ppb		
21) 1,1-dichloroethane	6.27	63	33351m	1.22	ppb		
22) Vinyl acetate	6.30	43	20456	1.23	ppb		94
23) Methyl Ethyl Ketone	6.79	43	30566	1.14	ppb		96
24) cis-1,2-dichloroethene	7.14	61	22047	1.22	ppb		96
25) Hexane	6.78	41	14776	1.15	ppb	#	83
26) Ethyl acetate	7.38	43	22347	1.12	ppb		99
27) Chloroform	7.73	83	50230	1.28	ppb		96
28) Tetrahydrofuran	7.93	42	9251	1.13	ppb		87
29) 1,2-dichloroethane	8.80	62	29649	1.26	ppb		100
31) 1,1,1-trichloroethane	8.50	97	46998	1.29	ppb		98
32) Cyclohexane	9.20	56	16317	1.13	ppb		91
33) Carbon tetrachloride	9.14	117	55501	1.10	ppb		99
34) Benzene	9.11	78	47947	1.21	ppb		96
35) 1,4-dioxane	10.99	88	5378	0.86	ppb		95
36) 2,2,4-trimethylpentane	10.08	57	45975	1.07	ppb		93
37) Heptane	10.49	43	15435	1.09	ppb		95
38) Trichloroethene	10.58	130	27502	1.09	ppb		95
39) 1,2-dichloropropane	10.71	63	18216	1.20	ppb		99
40) Bromodichloromethane	11.10	83	51291	1.14	ppb		97
41) cis-1,3-dichloropropene	12.02	75	17918	1.19	ppb		96
42) trans-1,3-dichloropropene	12.83	75	14448	1.16	ppb		96
43) 1,1,2-trichloroethane	13.14	97	24218	1.17	ppb		93
45) Toluene	12.87	92	24866	1.09	ppb		100
46) Methyl Isobutyl Ketone	12.01	43	14545	0.87	ppb		94

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D Vial: 3
Acq On : 27 Jan 2011 10:40 am Operator: RJP
Sample : A1UG_1.0 Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:01:32 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	54506	1.03	ppb	99
48)	Methyl Butyl Ketone	13.40	43	11857m	0.83	ppb	
49)	1,2-dibromoethane	14.06	107	32257	1.07	ppb	98
50)	Tetrachloroethylene	13.90	164	28476	1.08	ppb	97
51)	Chlorobenzene	14.85	112	40800	1.04	ppb	94
52)	Ethylbenzene	15.12	91	44296	1.01	ppb	98
53)	m&p-xylene	15.31	91	70754	1.97	ppb	98
54)	Styrene	15.72	104	21180	0.96	ppb	97
55)	Bromoform	15.80	173	52133	0.98	ppb	99
56)	o-xylene	15.74	91	36791	0.86	ppb	94
58)	1,1,2,2-tetrachloroethane	16.17	83	34044	0.91	ppb	100
59)	4-ethyltoluene	16.93	105	42092	1.06	ppb	100
60)	1,3,5-trimethylbenzene	16.99	105	30339	0.87	ppb	97
61)	1,2,4-trimethylbenzene	17.40	105	22486	0.82	ppb	95
62)	1,3-dichlorobenzene	17.65	146	25089	0.89	ppb	98
63)	benzyl chloride	17.72	91	20963	1.17	ppb	94
64)	1,4-dichlorobenzene	17.78	146	23045	0.85	ppb	97
65)	1,2-dichlorobenzene	18.06	146	21506	0.87	ppb	96
66)	1,2,4-trichlorobenzene	19.69	180	6999	0.90	ppb	92
67)	Hexachloro-1,3-butadiene	19.95	225	14804	0.82	ppb	97

(#) = qualifier out of range (m) = manual integration (+) = signals summed

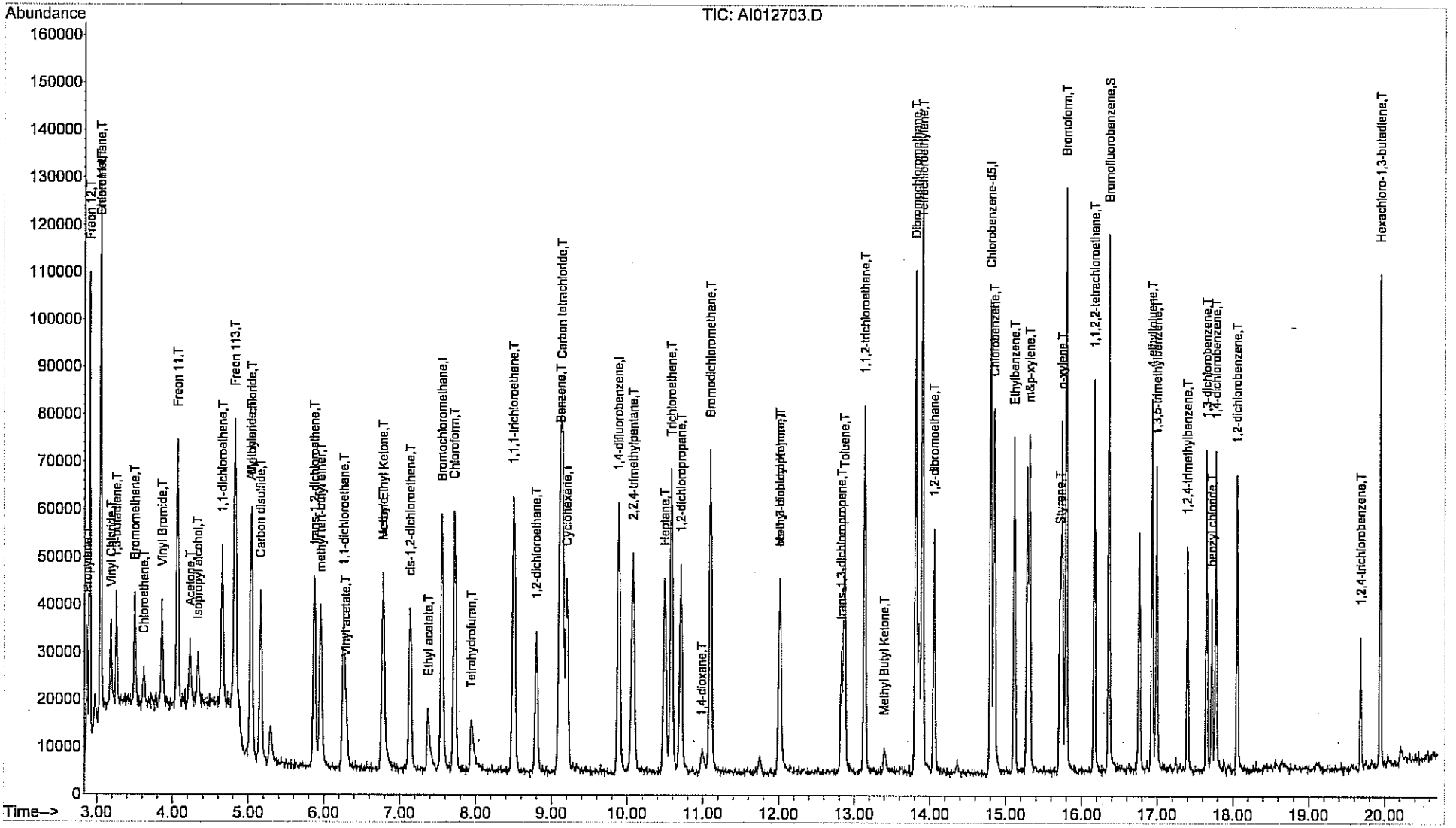
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012703.D
Acq On : 27 Jan 2011 10:40 am
Sample : A1UG_1.0
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:32 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
1	I	Bromochloromethane	1.000	1.000	0.0	130	0.00
2	T	Propylene	0.509	0.498	2.2	130	0.00
3	T	Freon 12	2.933	3.300	-12.5	143	0.00
4	T	Chloromethane	0.673	0.766	-13.8	152#	0.00
5	T	Freon 114	1.671	1.879	-12.4	140	0.00
6	T	Vinyl Chloride	0.555	0.610	-9.9	140	0.00
7	T	1,3-butadiene	0.444	0.434	2.3	133	0.00
8	T	Bromomethane	0.588	0.617	-4.9	144	0.00
9	T	Chloroethane	0.223	0.264	-18.4	149	0.00
10	T	Vinyl Bromide	0.637	0.678	-6.4	134	0.00
11	T	Freon 11	1.724	1.891	-9.7	139	0.00
12	T	Acetone	0.270	0.324	-20.0	141	0.00
13	T	Isopropyl alcohol	0.577	0.584	-1.2	122	0.00
14	T	1,1-dichloroethene	0.814	0.620	23.8	97	0.00
15	T	Freon 113	1.976	1.445	26.9	87	0.00
16	T	Methylene chloride	0.821	0.700	14.7	107	0.00
17	T	Allyl chloride	0.644	0.586	9.0	114	0.00
18	T	Carbon disulfide	2.541	1.867	26.5	95	0.00
19	T	trans-1,2-dichloroethene	1.122	1.288	-14.8	147	0.00
20	T	methyl tert-butyl ether	1.160	1.447	-24.7	159#	0.00
21	T	1,1-dichloroethane	1.462	1.727	-18.1	147	0.00
22	T	Vinyl acetate	0.895	1.040	-16.2	156#	0.00
23	T	Methyl Ethyl Ketone	1.441	1.581	-9.7	147	-0.01
24	T	cis-1,2-dichloroethene	0.973	1.101	-13.2	145	0.00
25	T	Hexane	0.687	0.723	-5.2	134	-0.01
26	T	Ethyl acetate	1.070	1.157	-8.1	153#	-0.02
27	T	Chloroform	2.102	2.450	-16.6	147	0.00
28	T	Tetrahydrofuran	0.440	0.462	-5.0	142	-0.02
29	T	1,2-dichloroethane	1.262	1.441	-14.2	146	0.00
30	I	1,4-difluorobenzene	1.000	1.000	0.0	130	0.00
31	T	1,1,1-trichloroethane	0.637	0.755	-18.5	150#	0.00
32	T	Cyclohexane	0.251	0.269	-7.2	133	0.00
33	T	Carbon tetrachloride	0.880	0.912	-3.6	143	0.00
34	T	Benzene	0.693	0.819	-18.2	146	0.00
35	T	1,4-dioxane	0.109	0.097	11.0	119	0.00
36	T	2,2,4-trimethylpentane	0.746	0.770	-3.2	125	0.00
37	T	Heptane	0.248	0.248	0.0	124	0.00
38	T	Trichloroethene	0.439	0.457	-4.1	138	0.00
39	T	1,2-dichloropropane	0.266	0.296	-11.3	139	0.00
40	T	Bromodichloromethane	0.783	0.840	-7.3	136	0.00
41	T	cis-1,3-dichloropropene	0.263	0.294	-11.8	138	0.00
42	T	trans-1,3-dichloropropene	0.217	0.239	-10.1	141	0.00
43	T	1,1,2-trichloroethane	0.361	0.389	-7.8	136	0.00
44	I	Chlorobenzene-d5	1.000	1.000	0.0	137	0.00
45	T	Toluene	0.417	0.438	-5.0	136	0.00
46	T	Methyl Isobutyl Ketone	0.307	0.265	13.7	127	0.00
47	T	Dibromochloromethane	0.967	0.913	5.6	124	0.00
48	T	Methyl Butyl Ketone	0.260	0.223	14.2	122	0.00
49	T	1,2-dibromoethane	0.553	0.566	-2.4	134	0.00

(#) = Out of Range

Evaluate Continuing Calibration Report

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Multiple Level Calibration

Min. RRF : 0.000 Min. Rel. Area : 50% Max. R.T. Dev 0.33min
Max. RRF Dev : 30% Max. Rel. Area : 150%

		Compound	AvgRF	CCRF	%Dev	Area%	Dev(min)
50	T	Tetrachloroethylene	0.480	0.476	0.8	130	0.00
51	T	Chlorobenzene	0.716	0.687	4.1	124	0.00
52	T	Ethylbenzene	0.799	0.787	1.5	127	0.00
53	T	m&p-xylene	0.655	0.649	0.9	126	0.00
54	T	Styrene	0.404	0.372	7.9	119	0.00
55	T	Bromoform	0.971	0.933	3.9	125	0.00
56	T	o-xylene	0.781	0.654	16.3	116	0.00
57	S	Bromofluorobenzene	0.505	0.534	-5.7	135	0.00
58	T	1,1,2,2-tetrachloroethane	0.680	0.602	11.5	112	0.00
59	T	4-ethyltoluene	0.725	0.732	-1.0	126	0.00
60	T	1,3,5-trimethylbenzene	0.638	0.529	17.1	106	0.00
61	T	1,2,4-trimethylbenzene	0.503	0.411	18.3	108	0.00
62	T	1,3-dichlorobenzene	0.512	0.447	12.7	105	0.00
63	T	benzyl chloride	0.327	0.368	-12.5	150	0.00
64	T	1,4-dichlorobenzene	0.496	0.409	17.5	99	0.00
65	T	1,2-dichlorobenzene	0.452	0.387	14.4	106	0.00
66	T	1,2,4-trichlorobenzene	0.143	0.111	22.4	96	0.00
67	T	Hexachloro-1,3-butadiene	0.332	0.281	15.4	107	0.00

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 10:41:01 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	33200	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	96780	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	92339	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	49336	1.06	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 106.00%			
Target Compounds						Qvalue
2) Propylene	2.87	41	16548	0.98	ppb	86
3) Freon 12	2.91	85	109563	1.13	ppb	100
4) Chloromethane	3.04	50	25437	1.14	ppb	95
5) Freon 114	3.05	85	62387	1.12	ppb	94
6) Vinyl Chloride	3.18	62	20246	1.10	ppb	93
7) 1,3-butadiene	3.26	39	14420	0.98	ppb	90
8) Bromomethane	3.49	94	20479	1.05	ppb	97
9) Chloroethane	3.62	64	8769	1.18	ppb	95
10) Vinyl Bromide	3.86	106	22525	1.06	ppb	96
11) Freon 11	4.06	101	62794	1.10	ppb	98
12) Acetone	4.22	58	10765	1.20	ppb	98
13) Isopropyl alcohol	4.31	45	19377	1.01	ppb	96
14) 1,1-dichloroethene	4.65	96	20599	0.76	ppb	92
15) Freon 113	4.82	101	47961m	0.73	ppb	
16) Methylene chloride	5.04	84	23243m	0.85	ppb	
17) Allyl chloride	5.02	41	19456	0.91	ppb	93
18) Carbon disulfide	5.16	76	62000m	0.73	ppb	
19) trans-1,2-dichloroethene	5.87	61	42745	1.15	ppb	89
20) methyl tert-butyl ether	5.94	73	48051	1.25	ppb	97
21) 1,1-dichloroethane	6.26	63	57337	1.18	ppb	96
22) Vinyl acetate	6.29	43	34540	1.16	ppb	96
23) Methyl Ethyl Ketone	6.78	43	52505	1.10	ppb	95
24) cis-1,2-dichloroethene	7.14	61	36554	1.13	ppb	93
25) Hexane	6.77	41	24010	1.05	ppb	90
26) Ethyl acetate	7.36	43	38415	1.08	ppb	97
27) Chloroform	7.72	83	81327	1.17	ppb	99
28) Tetrahydrofuran	7.93	42	15337	1.05	ppb	85
29) 1,2-dichloroethane	8.80	62	47849	1.14	ppb	100
31) 1,1,1-trichloroethane	8.50	97	73032	1.18	ppb	99
32) Cyclohexane	9.20	56	25989	1.07	ppb	95
33) Carbon tetrachloride	9.14	117	88221	1.04	ppb	100
34) Benzene	9.11	78	79310	1.18	ppb	92
35) 1,4-dioxane	10.98	88	9390m	0.89	ppb	
36) 2,2,4-trimethylpentane	10.07	57	74474	1.03	ppb	97
37) Heptane	10.49	43	24035	1.00	ppb	93
38) Trichloroethene	10.58	130	44210	1.04	ppb	95
39) 1,2-dichloropropane	10.71	63	28599	1.11	ppb	98
40) Bromodichloromethane	11.10	83	81265	1.07	ppb	98
41) cis-1,3-dichloropropene	12.02	75	28410	1.12	ppb	97
42) trans-1,3-dichloropropene	12.83	75	23142	1.10	ppb	98
43) 1,1,2-trichloroethane	13.14	97	37647	1.08	ppb	94
45) Toluene	12.87	92	40401	1.05	ppb	98
46) Methyl Isobutyl Ketone	11.99	43	24497	0.87	ppb	92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D Vial: 3
Acq On : 28 Jan 2011 10:20 am Operator: RJP
Sample : A1UG Inst : MSD #1
Misc : Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 10:41:01 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	84313	0.94	ppb	99
48)	Methyl Butyl Ketone	13.39	43	20586m	0.86	ppb	
49)	1,2-dibromoethane	14.06	107	52253	1.02	ppb	100
50)	Tetrachloroethylene	13.90	164	43963	0.99	ppb	99
51)	Chlorobenzene	14.85	112	63409	0.96	ppb	95
52)	Ethylbenzene	15.12	91	72708	0.99	ppb	96
53)	m&p-xylene	15.31	91	119917	1.98	ppb	96
54)	Styrene	15.72	104	34346	0.92	ppb	94
55)	Bromoform	15.80	173	86128	0.96	ppb	99
56)	o-xylene	15.74	91	60422	0.84	ppb	99
58)	1,1,2,2-tetrachloroethane	16.17	83	55622	0.89	ppb	98
59)	4-ethyltoluene	16.93	105	67596	1.01	ppb	96
60)	1,3,5-trimethylbenzene	16.99	105	48884	0.83	ppb	97
61)	1,2,4-trimethylbenzene	17.40	105	37950	0.82	ppb	96
62)	1,3-dichlorobenzene	17.65	146	41268	0.87	ppb	97
63)	benzyl chloride	17.72	91	33998	1.13	ppb	98
64)	1,4-dichlorobenzene	17.78	146	37737	0.82	ppb	98
65)	1,2-dichlorobenzene	18.06	146	35779	0.86	ppb	98
66)	1,2,4-trichlorobenzene	19.69	180	10256	0.78	ppb	98
67)	Hexachloro-1,3-butadiene	19.95	225	25952	0.85	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

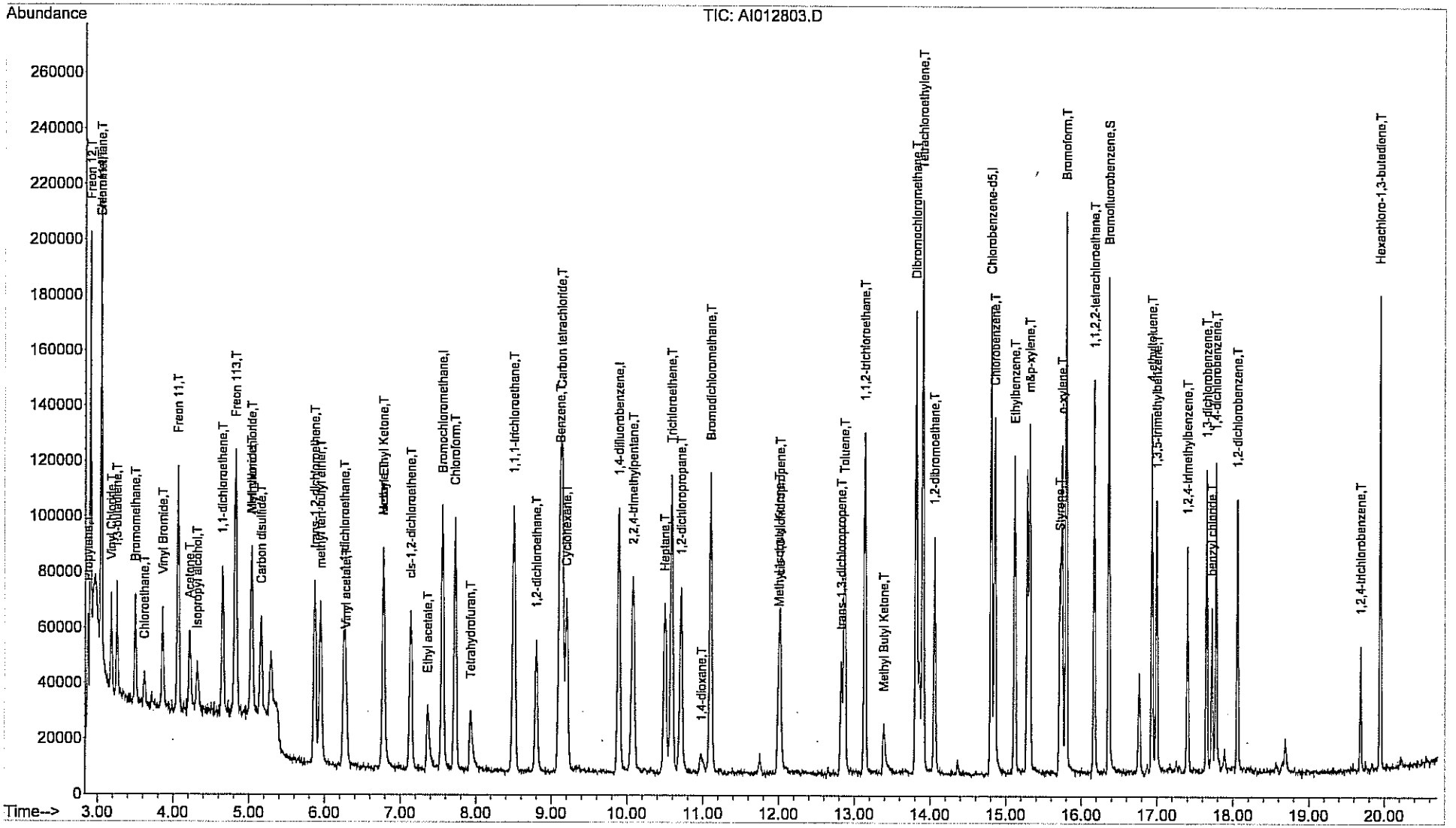
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012803.D
Acq On : 28 Jan 2011 10:20 am
Sample : A1UG
Misc :
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:06 2011

Vial: 3
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012803.D A106_1UG.M Tue Feb 08 15:55:02 2011 MSD1

Centek laboratories, LLC

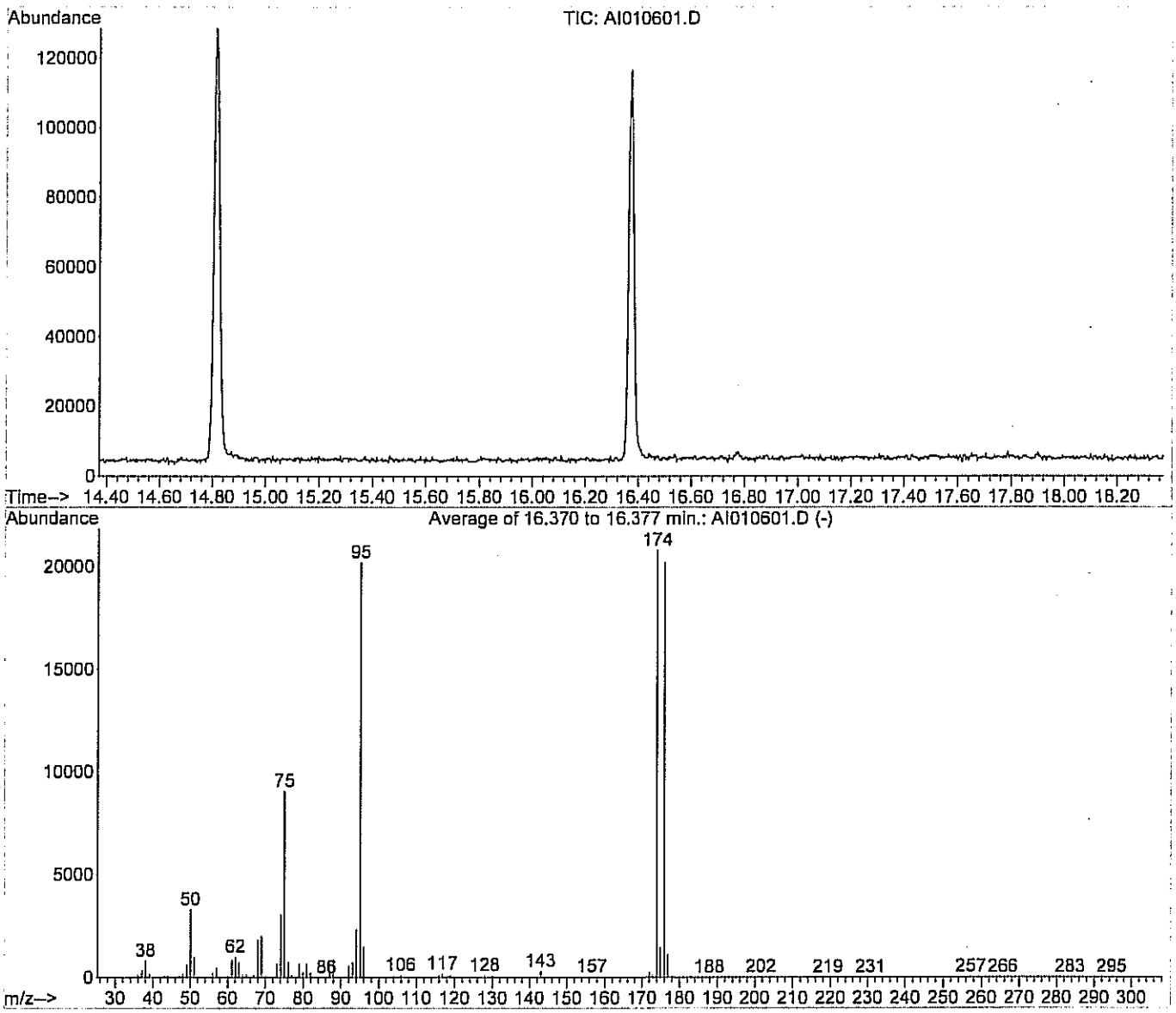
GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW DATA

BFB

```
Data File : C:\HPCHEM\1\DATA\AI010601.D                Vial: 1
Acq On    :  6 Jan 2011    5:13 pm                    Operator: RJP
Sample    : BFB1UG                                    Inst    : MSD #1
Misc      :                                           Multiplr: 1.00
MS Integration Params: RTEINT.P
Method    : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title     : TO-15 VOA  Standards for 5 point calibration
```



Spectrum Information: Average of 16.370 to 16.377 min.

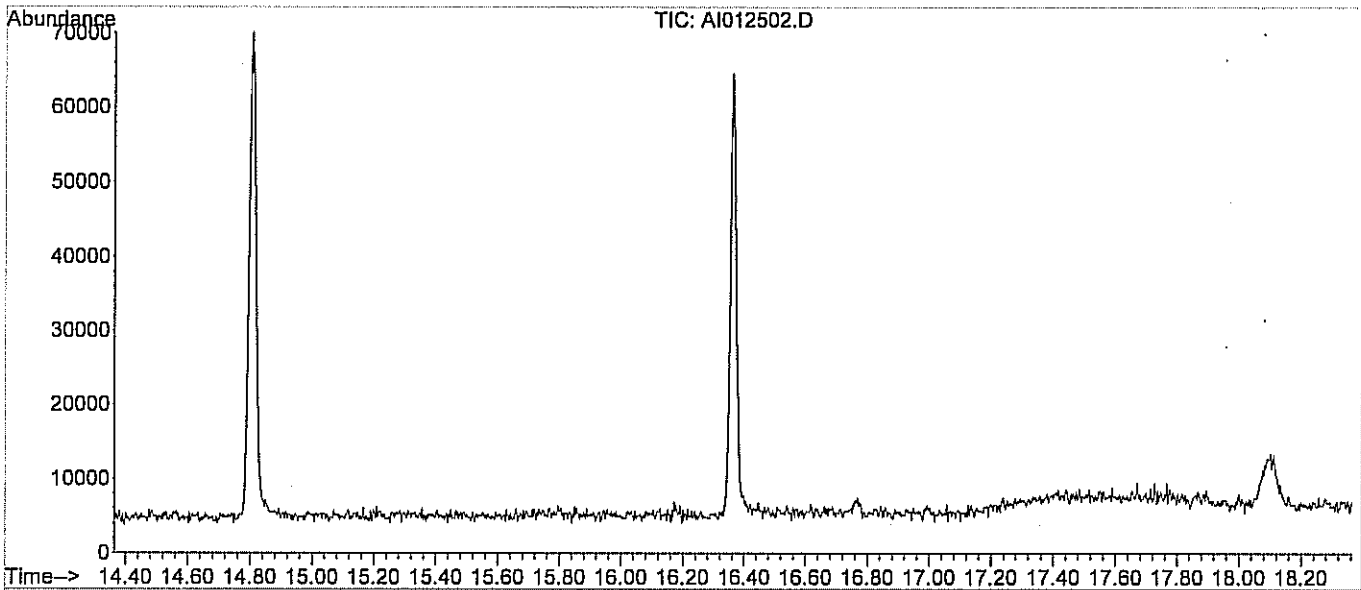
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.4	3324	PASS
75	95	30	66	44.9	9074	PASS
95	95	100	100	100.0	20221	PASS
96	95	5	9	7.4	1499	PASS
173	174	0.00	2	0.7	137	PASS
174	95	50	120	102.9	20816	PASS
175	174	4	9	7.0	1454	PASS
176	174	95	101	97.3	20244	PASS
177	176	5	9	5.6	1131	PASS

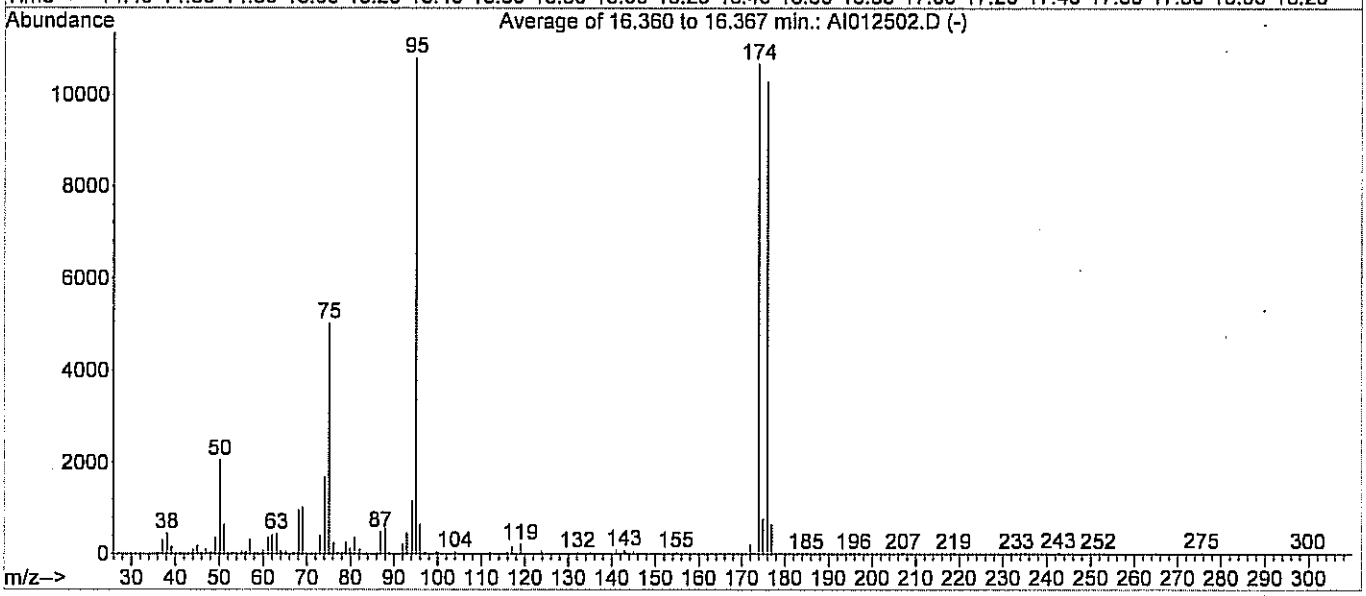
AI010601.D A106_1UG.M Tue Feb 08 13:45:54 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012502.D
Acq On : 25 Jan 2011 8:50 am
Sample : BFB1UG
Misc : 1UG + 0.25UG
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 14
Operator: RJP
Inst : MSD #1
Multiplr: 1.00





Spectrum Information: Average of 16.360 to 16.367 min.

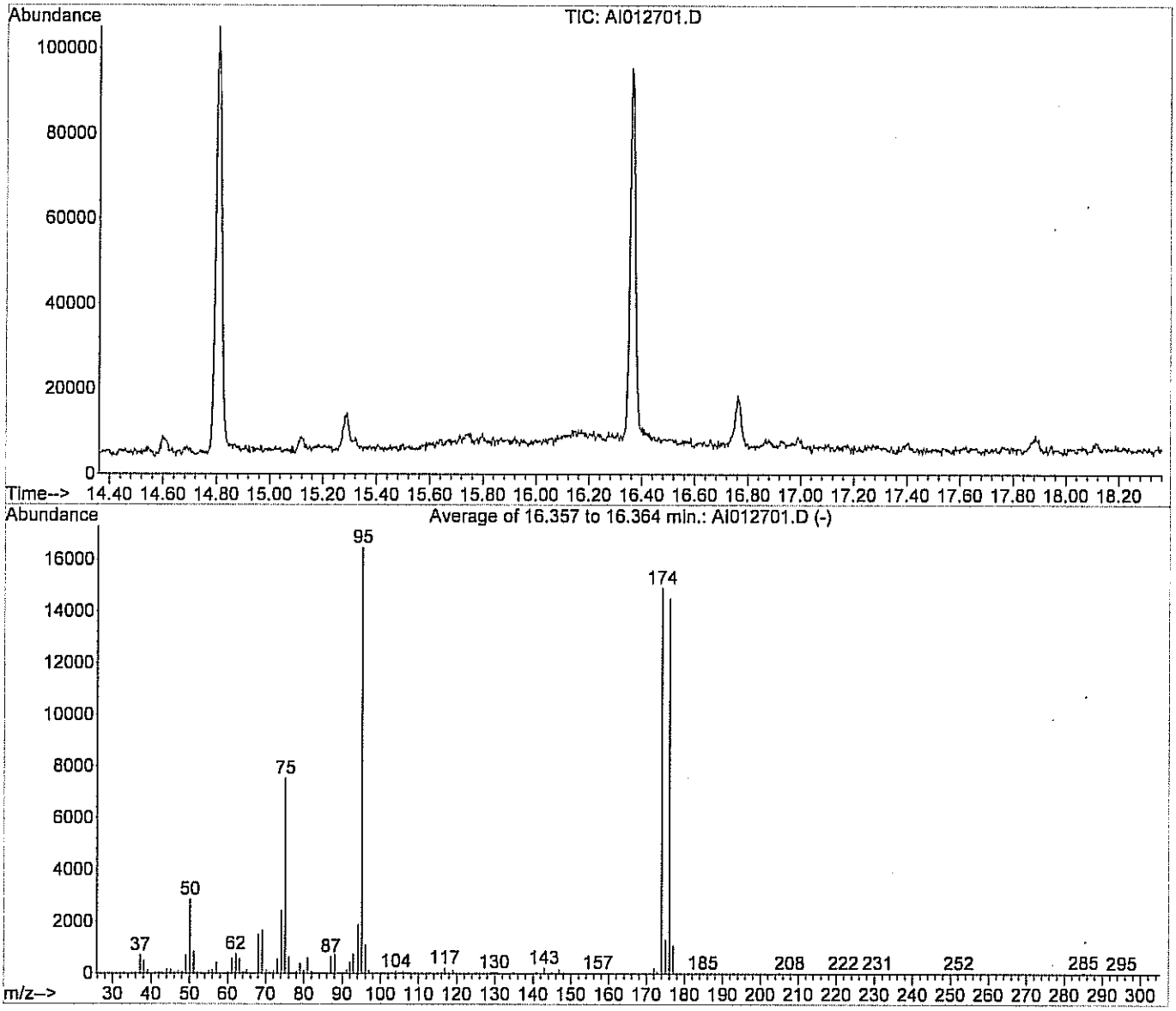
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	19.0	2058	PASS
75	95	30	66	46.6	5033	PASS
95	95	100	100	100.0	10809	PASS
96	95	5	9	6.1	658	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	98.8	10683	PASS
175	174	4	9	7.3	775	PASS
176	174	95	101	96.5	10304	PASS
177	176	5	9	6.4	659	PASS

AI012502.D A106_1UG.M Tue Feb 08 15:48:50 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012701.D
Acq On : 27 Jan 2011 8:51 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 1
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.357 to 16.364 min.

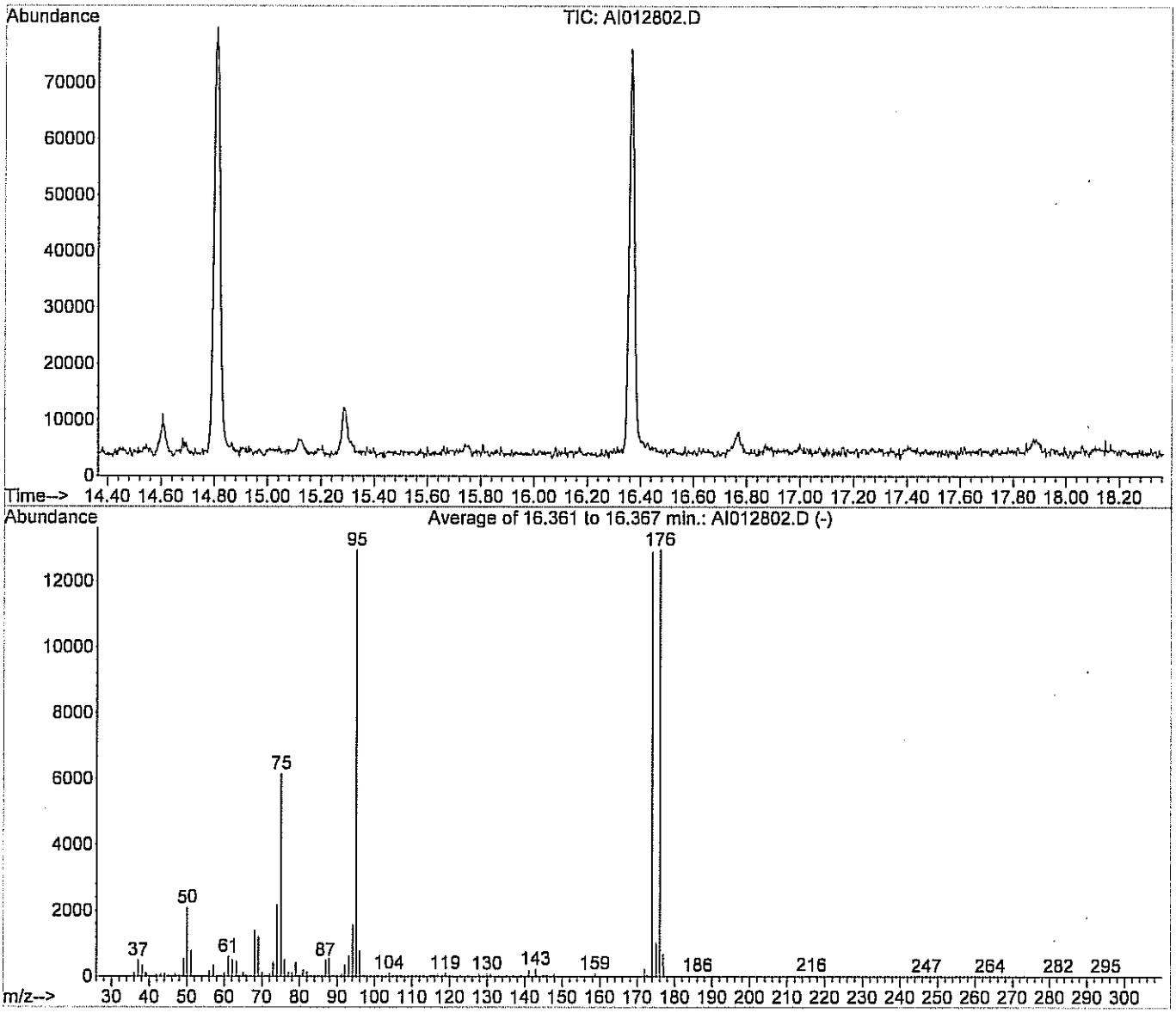
Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	17.4	2873	PASS
75	95	30	66	45.8	7540	PASS
95	95	100	100	100.0	16474	PASS
96	95	5	9	6.8	1116	PASS
173	174	0.00	2	0.6	84	PASS
174	95	50	120	90.6	14926	PASS
175	174	4	9	8.9	1325	PASS
176	174	95	101	97.3	14524	PASS
177	176	5	9	7.5	1085	PASS

AI012701.D A106_1UG.M Tue Feb 08 15:51:39 2011 MSD1

BFB

Data File : C:\HPCHEM\1\DATA\AI012802.D
Acq On : 28 Jan 2011 8:31 am
Sample : BFB1UG
Misc :
MS Integration Params: RTEINT.P
Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration

Vial: 2
Operator: RJP
Inst : MSD #1
Multiplr: 1.00



Spectrum Information: Average of 16.361 to 16.367 min.

Target Mass	Rel. to Mass	Lower Limit%	Upper Limit%	Rel. Abn%	Raw Abn	Result Pass/Fail
50	95	8	40	16.2	2094	PASS
75	95	30	66	47.5	6159	PASS
95	95	100	100	100.0	12958	PASS
96	95	5	9	6.0	783	PASS
173	174	0.00	2	0.0	0	PASS
174	95	50	120	99.6	12900	PASS
175	174	4	9	7.9	1023	PASS
176	174	95	101	100.6	12971	PASS
177	176	5	9	5.4	701	PASS

AI012802.D A106_1UG.M Tue Feb 08 15:54:37 2011 MSD1

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

RAW QC DATA

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-012511** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **AMB1UG-012511** SampType: **MBLK** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50377**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012511	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50377

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	AMB1UG-012711	SampType:	MBLK	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: CI101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012711	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50390

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	< 0.15	0.15									
1,1,2,2-Tetrachloroethane	< 0.15	0.15									
1,1,2-Trichloroethane	< 0.15	0.15									
1,1-Dichloroethane	< 0.15	0.15									
1,1-Dichloroethene	< 0.15	0.15									
1,2,4-Trichlorobenzene	< 0.15	0.15									
1,2,4-Trimethylbenzene	< 0.15	0.15									
1,2-Dibromoethane	< 0.15	0.15									
1,2-Dichlorobenzene	< 0.15	0.15									
1,2-Dichloroethane	< 0.15	0.15									
1,2-Dichloropropane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	< 0.15	0.15									
1,3-butadiene	< 0.15	0.15									
1,3-Dichlorobenzene	< 0.15	0.15									
1,4-Dichlorobenzene	< 0.15	0.15									
1,4-Dioxane	< 0.30	0.30									
2,2,4-trimethylpentane	< 0.15	0.15									
4-ethyltoluene	< 0.15	0.15									
Acetone	< 0.30	0.30									
Allyl chloride	< 0.15	0.15									
Benzene	< 0.15	0.15									
Benzyl chloride	< 0.15	0.15									
Bromodichloromethane	< 0.15	0.15									
Bromoform	< 0.15	0.15									
Bromomethane	< 0.15	0.15									
Carbon disulfide	< 0.15	0.15									
Carbon tetrachloride	< 0.15	0.15									
Chlorobenzene	< 0.15	0.15									
Chloroethane	< 0.15	0.15									
Chloroform	< 0.15	0.15									
Chloromethane	< 0.15	0.15									
cis-1,2-Dichloroethene	< 0.15	0.15									
cis-1,3-Dichloropropene	< 0.15	0.15									
Cyclohexane	< 0.15	0.15									
Dibromochloromethane	< 0.15	0.15									
Ethyl acetate	< 0.25	0.25									
Ethylbenzene	< 0.15	0.15									
Freon 11	< 0.15	0.15									
Freon 113	< 0.15	0.15									
Freon 114	< 0.15	0.15									
Freon 12	< 0.15	0.15									
Heptane	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID AMB1UG-012811	SampType: MBLK	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50408

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	< 0.15	0.15									
Hexane	< 0.15	0.15									
Isopropyl alcohol	< 0.15	0.15									
m&p-Xylene	< 0.30	0.30									
Methyl Butyl Ketone	< 0.30	0.30									
Methyl Ethyl Ketone	< 0.30	0.30									
Methyl Isobutyl Ketone	< 0.30	0.30									
Methyl tert-butyl ether	< 0.15	0.15									
Methylene chloride	< 0.15	0.15									
o-Xylene	< 0.15	0.15									
Propylene	< 0.15	0.15									
Styrene	< 0.15	0.15									
Tetrachloroethylene	< 0.15	0.15									
Tetrahydrofuran	< 0.15	0.15									
Toluene	< 0.15	0.15									
trans-1,2-Dichloroethene	< 0.15	0.15									
trans-1,3-Dichloropropene	< 0.15	0.15									
Trichloroethene	< 0.15	0.15									
Vinyl acetate	< 0.15	0.15									
Vinyl Bromide	< 0.15	0.15									
Vinyl chloride	< 0.15	0.15									

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012506.D Vial: 18
Acq On : 25 Jan 2011 11:10 am Operator: RJP
Sample : AMB1UG-012511 Inst : MSD #1
Misc : AMB1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 11:31:15 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

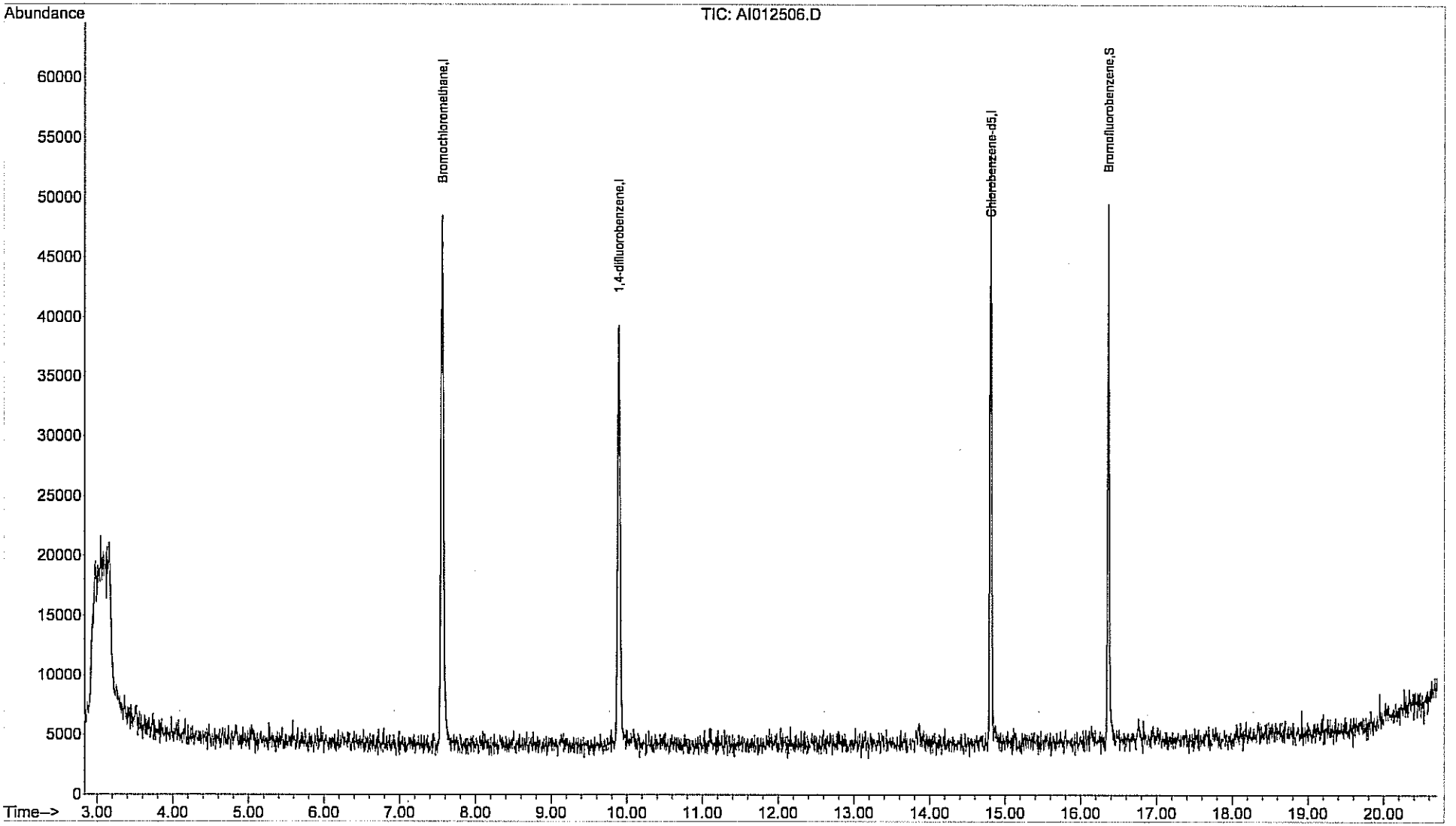
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	16392	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	36302	1.00	ppb	0.00
44) Chlorobenzene-d5	14.80	117	28683	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	12718	0.88	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 88.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012506.D A106_1UG.M Tue Feb 08 15:47:28 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012506.D Vial: 18
Acq On : 25 Jan 2011 11:10 am Operator: RJP
Sample : AMB1UG-012511 Inst : MSD #1
Misc : AMB1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 11:31 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012705.D Vial: 5
Acq On : 27 Jan 2011 11:56 am Operator: RJP
Sample : AMB1UG-012711 Inst : MSD #1
Misc : AMB1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 12:17:05 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

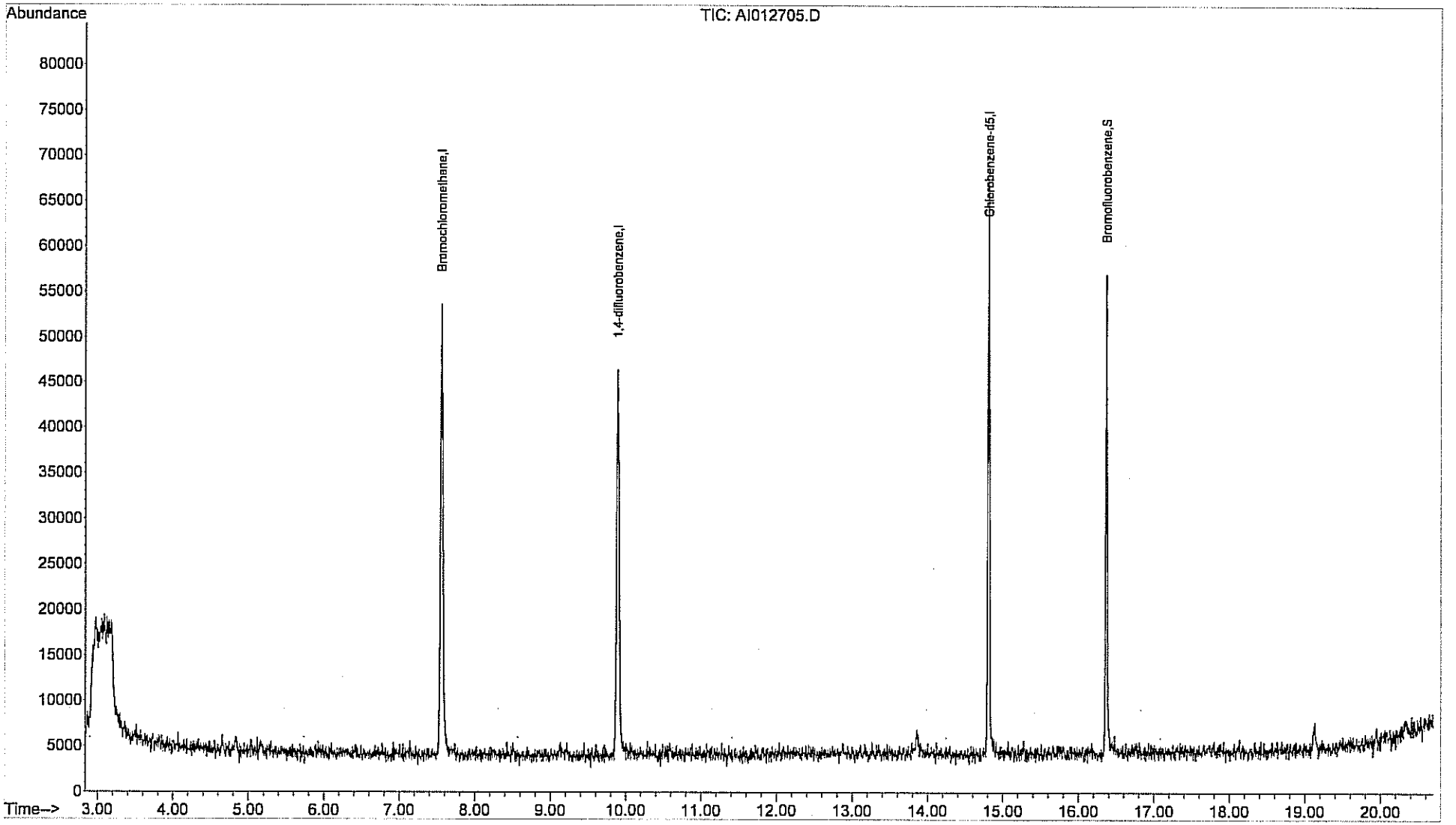
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	17220	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	43450	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	34689	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	15842	0.90	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 90.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AI012705.D A106_1UG.M Tue Feb 08 15:47:33 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012705.D Vial: 5
Acq On : 27 Jan 2011 11:56 am Operator: RJP
Sample : AMB1UG-012711 Inst : MSD #1
Misc : AMB1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 12:17 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012805.D Vial: 5
Acq On : 28 Jan 2011 12:13 pm Operator: RJP
Sample : AMB1UG-012811 Inst : MSD #1
Misc : AMB1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:34:15 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.56	128	29774	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.89	114	82180	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	75429	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.36	95	36795	0.97	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 97.00%			
Target Compounds						Qvalue

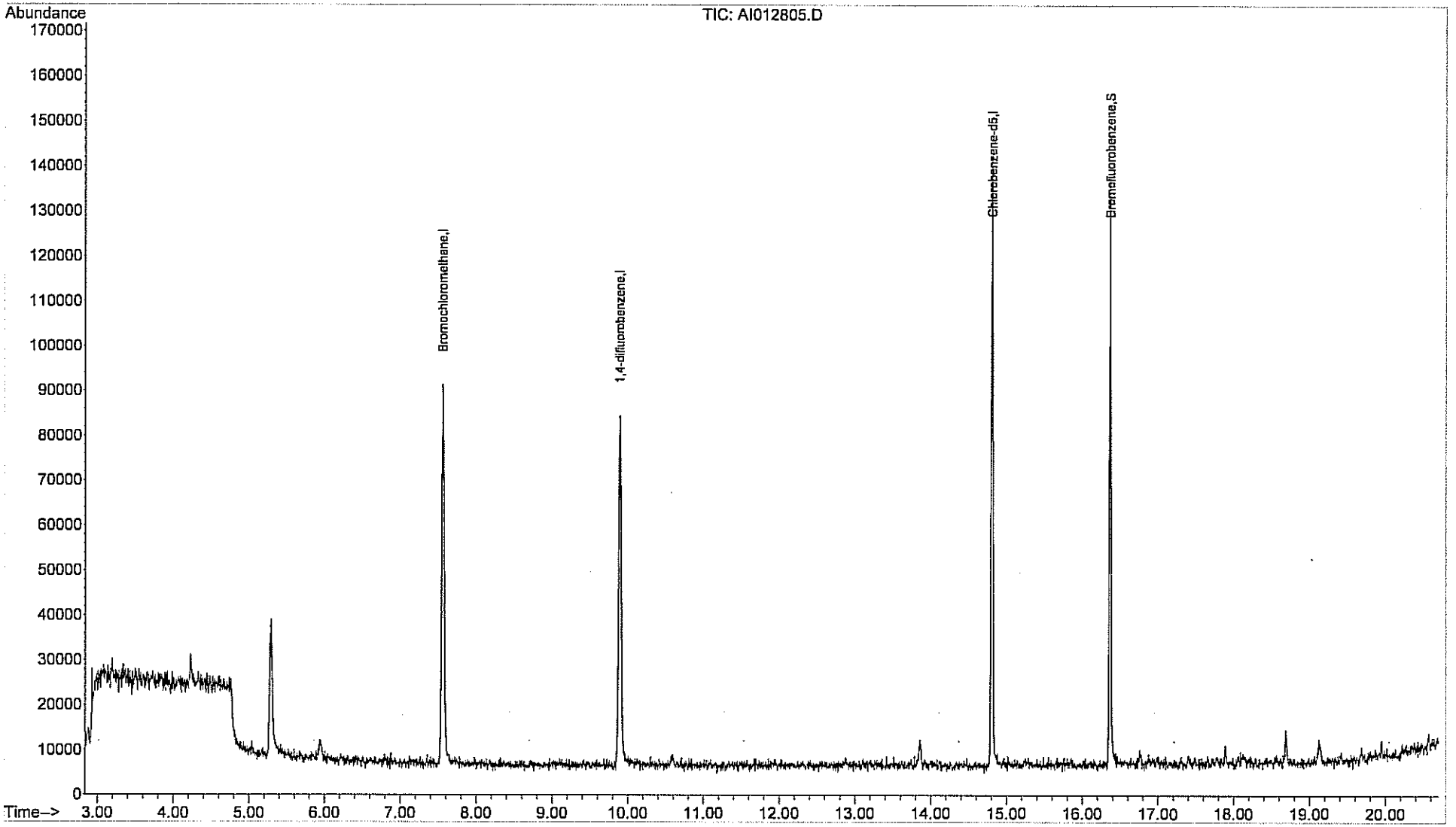
(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012805.D
Acq On : 28 Jan 2011 12:13 pm
Sample : AMB1UG-012811
Misc : AMB1UG-012811
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:08 2011

Vial: 5
Operator: RJP
Inst : MSD #1
Multiplr: 1.00
Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-012511** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4195**
Client ID: **ZZZZZ** Batch ID: **R4195** TestNo: **TO-15** Analysis Date: **1/25/2011** SeqNo: **50378**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Date: *08-Feb-11*

CENTEK LABORATORIES, LLC

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9500	0.15	1	0	95.0	70	130				
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	1.120	0.15	1	0	112	70	130				
1,2,4-Trichlorobenzene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trimethylbenzene	0.7800	0.15	1	0	78.0	70	130				
1,2-Dibromoethane	1.110	0.15	1	0	111	70	130				
1,2-Dichlorobenzene	0.8300	0.15	1	0	83.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.210	0.15	1	0	121	70	130				
1,3,5-Trimethylbenzene	0.8700	0.15	1	0	87.0	70	130				
1,3-butadiene	1.210	0.15	1	0	121	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130				
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130				
2,2,4-trimethylpentane	1.010	0.15	1	0	101	70	130				
4-ethyltoluene	1.070	0.15	1	0	107	70	130				
Acetone	1.210	0.30	1	0	121	70	130				
Allyl chloride	1.060	0.15	1	0	106	70	130				
Benzene	1.150	0.15	1	0	115	70	130				
Benzyl chloride	1.040	0.15	1	0	104	70	130				
Bromodichloromethane	1.200	0.15	1	0	120	70	130				
Bromoform	1.110	0.15	1	0	111	70	130				
Bromomethane	1.070	0.15	1	0	107	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511 SampType: LCS TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4195
Client ID: ZZZZZ Batch ID: R4195 TestNo: TO-15 Analysis Date: 1/25/2011 SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.140	0.15	1	0	114	70	130				
Chlorobenzene	1.050	0.15	1	0	105	70	130				
Chloroethane	1.190	0.15	1	0	119	70	130				
Chloroform	1.200	0.15	1	0	120	70	130				
Chloromethane	1.230	0.15	1	0	123	70	130				
cis-1,2-Dichloroethene	1.130	0.15	1	0	113	70	130				
cis-1,3-Dichloropropene	1.220	0.15	1	0	122	70	130				
Cyclohexane	1.000	0.15	1	0	100	70	130				
Dibromochloromethane	1.120	0.15	1	0	112	70	130				
Ethyl acetate	0.9000	0.25	1	0	90.0	70	130				
Ethylbenzene	1.020	0.15	1	0	102	70	130				
Freon 11	2.110	0.15	1	0	211	70	130				S
Freon 113	1.240	0.15	1	0	124	70	130				
Freon 114	1.140	0.15	1	0	114	70	130				
Freon 12	1.180	0.15	1	0	118	70	130				
Heptane	1.050	0.15	1	0	105	70	130				
Hexachloro-1,3-butadiene	0.8600	0.15	1	0	86.0	70	130				
Hexane	1.060	0.15	1	0	106	70	130				
Isopropyl alcohol	1.150	0.15	1	0	115	70	130				
m&p-Xylene	1.970	0.30	2	0	98.5	70	130				
Methyl Butyl Ketone	0.7100	0.30	1	0	71.0	70	130				
Methyl Ethyl Ketone	0.9000	0.30	1	0	90.0	70	130				
Methyl Isobutyl Ketone	0.8600	0.30	1	0	86.0	70	130				
Methyl tert-butyl ether	1.210	0.15	1	0	121	70	130				
Methylene chloride	1.150	0.15	1	0	115	70	130				
o-Xylene	0.8700	0.15	1	0	87.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9900	0.15	1	0	99.0	70	130				
Tetrachloroethylene	1.120	0.15	1	0	112	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012511	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4195
Client ID: ZZZZZ	Batch ID: R4195	TestNo: TO-15		Analysis Date: 1/25/2011	SeqNo: 50378

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	1.110	0.15	1	0	111	70	130				
trans-1,2-Dichloroethene	1.050	0.15	1	0	105	70	130				
trans-1,3-Dichloropropene	1.200	0.15	1	0	120	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.000	0.15	1	0	100	70	130				
Vinyl Bromide	1.070	0.15	1	0	107	70	130				
Vinyl chloride	1.160	0.15	1	0	116	70	130				

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.250	0.15	1	0	125	70	130				
1,1,2,2-Tetrachloroethane	0.9400	0.15	1	0	94.0	70	130				
1,1,2-Trichloroethane	1.180	0.15	1	0	118	70	130				
1,1-Dichloroethane	1.200	0.15	1	0	120	70	130				
1,1-Dichloroethene	0.7900	0.15	1	0	79.0	70	130				
1,2,4-Trichlorobenzene	0.7300	0.15	1	0	73.0	70	130				
1,2,4-Trimethylbenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130				
1,2-Dichlorobenzene	0.7700	0.15	1	0	77.0	70	130				
1,2-Dichloroethane	1.190	0.15	1	0	119	70	130				
1,2-Dichloropropane	1.220	0.15	1	0	122	70	130				
1,3,5-Trimethylbenzene	0.8100	0.15	1	0	81.0	70	130				
1,3-butadiene	1.170	0.15	1	0	117	70	130				
1,3-Dichlorobenzene	0.8400	0.15	1	0	84.0	70	130				
1,4-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130				
1,4-Dioxane	0.8800	0.30	1	0	88.0	70	130				
2,2,4-trimethylpentane	1.040	0.15	1	0	104	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	ALCS1UG-012711	SampType:	LCS	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/27/2011	SeqNo:	50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	0.8600	0.30	1	0	86.0	70	130				
Allyl chloride	1.150	0.15	1	0	115	70	130				
Benzene	1.260	0.15	1	0	126	70	130				
Benzyl chloride	0.9500	0.15	1	0	95.0	70	130				
Bromodichloromethane	1.160	0.15	1	0	116	70	130				
Bromoform	1.000	0.15	1	0	100	70	130				
Bromomethane	1.110	0.15	1	0	111	70	130				
Carbon disulfide	1.130	0.15	1	0	113	70	130				
Carbon tetrachloride	1.130	0.15	1	0	113	70	130				
Chlorobenzene	1.040	0.15	1	0	104	70	130				
Chloroethane	1.140	0.15	1	0	114	70	130				
Chloroform	1.220	0.15	1	0	122	70	130				
Chloromethane	1.260	0.15	1	0	126	70	130				
cis-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130				
cis-1,3-Dichloropropene	1.190	0.15	1	0	119	70	130				
Cyclohexane	1.130	0.15	1	0	113	70	130				
Dibromochloromethane	1.050	0.15	1	0	105	70	130				
Ethyl acetate	0.9400	0.25	1	0	94.0	70	130				
Ethylbenzene	1.000	0.15	1	0	100	70	130				
Freon 11	1.160	0.15	1	0	116	70	130				
Freon 113	1.260	0.15	1	0	126	70	130				
Freon 114	1.240	0.15	1	0	124	70	130				
Freon 12	1.190	0.15	1	0	119	70	130				
Heptane	1.000	0.15	1	0	100	70	130				
Hexachloro-1,3-butadiene	0.7100	0.15	1	0	71.0	70	130				
Hexane	1.030	0.15	1	0	103	70	130				
Isopropyl alcohol	0.8100	0.15	1	0	81.0	70	130				
m&p-Xylene	1.960	0.30	2	0	98.0	70	130				
Methyl Butyl Ketone	0.8500	0.30	1	0	85.0	70	130				
Methyl Ethyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Isobutyl Ketone	0.8500	0.30	1	0	85.0	70	130				

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012711	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/27/2011	SeqNo: 50391

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	1.260	0.15	1	0	126	70	130				
Methylene chloride	1.170	0.15	1	0	117	70	130				
o-Xylene	0.8400	0.15	1	0	84.0	70	130				
Propylene	1.080	0.15	1	0	108	70	130				
Styrene	0.9300	0.15	1	0	93.0	70	130				
Tetrachloroethylene	1.130	0.15	1	0	113	70	130				
Tetrahydrofuran	1.000	0.15	1	0	100	70	130				
Toluene	1.100	0.15	1	0	110	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.130	0.15	1	0	113	70	130				
Trichloroethene	1.100	0.15	1	0	110	70	130				
Vinyl acetate	1.060	0.15	1	0	106	70	130				
Vinyl Bromide	1.040	0.15	1	0	104	70	130				
Vinyl chloride	1.180	0.15	1	0	118	70	130				

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.170	0.15	1	0	117	70	130				
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130				
1,1,2-Trichloroethane	1.100	0.15	1	0	110	70	130				
1,1-Dichloroethane	1.090	0.15	1	0	109	70	130				
1,1-Dichloroethene	0.7500	0.15	1	0	75.0	70	130				
1,2,4-Trichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,2,4-Trimethylbenzene	0.8200	0.15	1	0	82.0	70	130				
1,2-Dibromoethane	1.030	0.15	1	0	103	70	130				
1,2-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130				
1,2-Dichloroethane	1.110	0.15	1	0	111	70	130				
1,2-Dichloropropane	1.100	0.15	1	0	110	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID **ALCS1UG-012811** SampType: **LCS** TestCode: **1ugM3_TO15** Units: **ppbV** Prep Date: RunNo: **4197**
Client ID: **ZZZZZ** Batch ID: **R4197** TestNo: **TO-15** Analysis Date: **1/28/2011** SeqNo: **50409**

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,3,5-Trimethylbenzene	0.8300	0.15	1	0	83.0	70	130				
1,3-butadiene	1.120	0.15	1	0	112	70	130				
1,3-Dichlorobenzene	0.8700	0.15	1	0	87.0	70	130				
1,4-Dichlorobenzene	0.8900	0.15	1	0	89.0	70	130				
1,4-Dioxane	0.8200	0.30	1	0	82.0	70	130				
2,2,4-trimethylpentane	0.9700	0.15	1	0	97.0	70	130				
4-ethyltoluene	1.000	0.15	1	0	100	70	130				
Acetone	1.140	0.30	1	0	114	70	130				
Allyl chloride	0.9400	0.15	1	0	94.0	70	130				
Benzene	1.100	0.15	1	0	110	70	130				
Benzyl chloride	1.110	0.15	1	0	111	70	130				
Bromodichloromethane	1.050	0.15	1	0	105	70	130				
Bromoform	0.9900	0.15	1	0	99.0	70	130				
Bromomethane	1.040	0.15	1	0	104	70	130				
Carbon disulfide	0.7500	0.15	1	0	75.0	70	130				
Carbon tetrachloride	1.010	0.15	1	0	101	70	130				
Chlorobenzene	1.000	0.15	1	0	100	70	130				
Chloroethane	1.120	0.15	1	0	112	70	130				
Chloroform	1.120	0.15	1	0	112	70	130				
Chloromethane	1.150	0.15	1	0	115	70	130				
cis-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
cis-1,3-Dichloropropene	1.080	0.15	1	0	108	70	130				
Cyclohexane	1.010	0.15	1	0	101	70	130				
Dibromochloromethane	1.010	0.15	1	0	101	70	130				
Ethyl acetate	0.9700	0.25	1	0	97.0	70	130				
Ethylbenzene	0.9900	0.15	1	0	99.0	70	130				
Freon 11	1.080	0.15	1	0	108	70	130				
Freon 113	0.7200	0.15	1	0	72.0	70	130				
Freon 114	1.130	0.15	1	0	113	70	130				
Freon 12	1.120	0.15	1	0	112	70	130				
Heptane	0.9300	0.15	1	0	93.0	70	130				

Qualifiers:
. Results reported are not blank corrected
E Value above quantitation range
H Holding times for preparation or analysis exceeded
J Analyte detected at or below quantitation limits
ND Not Detected at the Reporting Limit
R RPD outside accepted recovery limits
S Spike Recovery outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID ALCS1UG-012811	SampType: LCS	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50409

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Hexachloro-1,3-butadiene	0.9200	0.15	1	0	92.0	70	130				
Hexane	1.050	0.15	1	0	105	70	130				
Isopropyl alcohol	1.080	0.15	1	0	108	70	130				
m&p-Xylene	2.030	0.30	2	0	102	70	130				
Methyl Butyl Ketone	0.9100	0.30	1	0	91.0	70	130				
Methyl Ethyl Ketone	0.9900	0.30	1	0	99.0	70	130				
Methyl Isobutyl Ketone	0.7200	0.30	1	0	72.0	70	130				
Methyl tert-butyl ether	1.160	0.15	1	0	116	70	130				
Methylene chloride	0.8600	0.15	1	0	86.0	70	130				
o-Xylene	0.8600	0.15	1	0	86.0	70	130				
Propylene	0.9500	0.15	1	0	95.0	70	130				
Styrene	0.9600	0.15	1	0	96.0	70	130				
Tetrachloroethylene	1.050	0.15	1	0	105	70	130				
Tetrahydrofuran	0.8600	0.15	1	0	86.0	70	130				
Toluene	1.090	0.15	1	0	109	70	130				
trans-1,2-Dichloroethene	1.100	0.15	1	0	110	70	130				
trans-1,3-Dichloropropene	1.030	0.15	1	0	103	70	130				
Trichloroethene	0.9800	0.15	1	0	98.0	70	130				
Vinyl acetate	1.090	0.15	1	0	109	70	130				
Vinyl Bromide	1.010	0.15	1	0	101	70	130				
Vinyl chloride	1.070	0.15	1	0	107	70	130				

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D Vial: 17
Acq On : 25 Jan 2011 10:36 am Operator: RJP
Sample : ALCS1UG-012511 Inst : MSD #1
Misc : ALCS1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:57:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18022	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	50948	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	46978	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	26882	1.13	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 113.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	8736	0.95	ppb		79
3) Freon 12	2.91	85	62619	1.18	ppb		99
4) Chloromethane	3.05	50	14968	1.23	ppb		100
5) Freon 114	3.05	85	34405	1.14	ppb		95
6) Vinyl Chloride	3.18	62	11620	1.16	ppb		99
7) 1,3-butadiene	3.25	39	9680	1.21	ppb		80
8) Bromomethane	3.50	94	11312	1.07	ppb		96
9) Chloroethane	3.62	64	4788	1.19	ppb		84
10) Vinyl Bromide	3.86	106	12331	1.07	ppb		98
11) Freon 11	4.06	101	65445	2.11	ppb		99
12) Acetone	4.22	58	5875	1.21	ppb	#	60
13) Isopropyl alcohol	4.33	45	11984	1.15	ppb	#	38
14) 1,1-dichloroethene	4.65	96	16498	1.12	ppb		96
15) Freon 113	4.82	101	44082	1.24	ppb		96
16) Methylene chloride	5.04	84	16998	1.15	ppb		93
17) Allyl chloride	5.03	41	12303	1.06	ppb		98
18) Carbon disulfide	5.16	76	51904	1.13	ppb		99
19) trans-1,2-dichloroethene	5.87	61	21305	1.05	ppb		90
20) methyl tert-butyl ether	5.94	73	25222	1.21	ppb		94
21) 1,1-dichloroethane	6.26	63	31674	1.20	ppb		98
22) Vinyl acetate	6.30	43	16062	1.00	ppb		95
23) Methyl Ethyl Ketone	6.79	43	23374	0.90	ppb		97
24) cis-1,2-dichloroethene	7.14	61	19820	1.13	ppb		96
25) Hexane	6.78	41	13068	1.06	ppb	#	68
26) Ethyl acetate	7.38	43	17272	0.90	ppb		98
27) Chloroform	7.73	83	45436	1.20	ppb		99
28) Tetrahydrofuran	7.95	42	6830	0.86	ppb		90
29) 1,2-dichloroethane	8.80	62	27142	1.19	ppb		99
31) 1,1,1-trichloroethane	8.51	97	40629m	1.25	ppb		
32) Cyclohexane	9.20	56	12825	1.00	ppb		87
33) Carbon tetrachloride	9.14	117	50931	1.14	ppb		99
34) Benzene	9.10	78	40628	1.15	ppb		97
35) 1,4-dioxane	11.00	88	4091	0.74	ppb		97
36) 2,2,4-trimethylpentane	10.08	57	38406	1.01	ppb		94
37) Heptane	10.49	43	13231	1.05	ppb		93
38) Trichloroethene	10.58	130	24538	1.10	ppb		94
39) 1,2-dichloropropane	10.70	63	16431	1.21	ppb		98
40) Bromodichloromethane	11.10	83	47748	1.20	ppb		98
41) cis-1,3-dichloropropene	12.02	75	16389	1.22	ppb		98
42) trans-1,3-dichloropropene	12.83	75	13219	1.20	ppb		99
43) 1,1,2-trichloroethane	13.14	97	21315	1.16	ppb		99
45) Toluene	12.87	92	21664	1.11	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	12408	0.86	ppb		92

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D Vial: 17
Acq On : 25 Jan 2011 10:36 am Operator: RJP
Sample : ALCS1UG-012511 Inst : MSD #1
Misc : ALCS1UG-012511 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 25 10:57:48 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51043	1.12	ppb	100
48)	Methyl Butyl Ketone	13.40	43	8729	0.71	ppb	86
49)	1,2-dibromoethane	14.06	107	28773	1.11	ppb	100
50)	Tetrachloroethylene	13.91	164	25223	1.12	ppb	98
51)	Chlorobenzene	14.86	112	35154	1.05	ppb	94
52)	Ethylbenzene	15.12	91	38463	1.02	ppb	96
53)	m&p-xylene	15.32	91	60548	1.97	ppb	96
54)	Styrene	15.72	104	18715	0.99	ppb	98
55)	Bromoform	15.80	173	50824	1.11	ppb	99
56)	o-xylene	15.74	91	31793	0.87	ppb	94
58)	1,1,2,2-tetrachloroethane	16.17	83	30248	0.95	ppb	98
59)	4-ethyltoluene	16.93	105	36342	1.07	ppb	99
60)	1,3,5-trimethylbenzene	16.99	105	26216	0.87	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	18448	0.78	ppb	98
62)	1,3-dichlorobenzene	17.65	146	20868	0.87	ppb	97
63)	benzyl chloride	17.72	91	15968	1.04	ppb	100
64)	1,4-dichlorobenzene	17.78	146	18838	0.81	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17636	0.83	ppb	97
66)	1,2,4-trichlorobenzene	19.69	180	5021m	0.75	ppb	
67)	Hexachloro-1,3-butadiene	19.95	225	13389	0.86	ppb	96

(#) = qualifier out of range (m) = manual integration (+) = signals summed

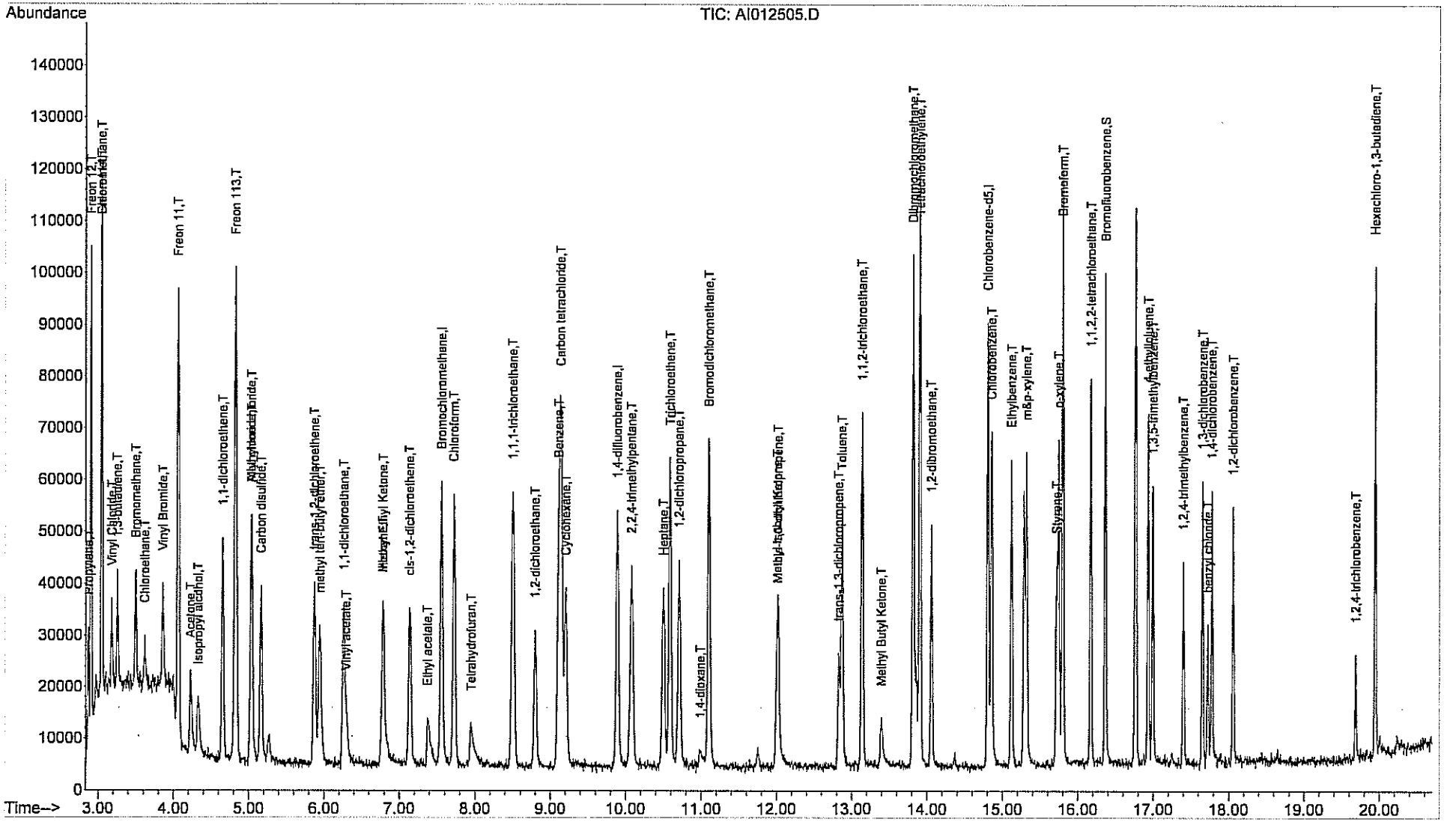
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012505.D
Acq On : 25 Jan 2011 10:36 am
Sample : ALCS1UG-012511
Misc : ALCS1UG-012511
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:05 2011

Vial: 17
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012505.D A106_1UG.M Tue Feb 08 15:47:26 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D Vial: 4
Acq On : 27 Jan 2011 11:21 am Operator: RJP
Sample : ALCS1UG-012711 Inst : MSD #1
Misc : ALCS1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:42:36 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	18733	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	52317	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	50239	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	28117	1.11	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 111.00%				
Target Compounds							Qvalue
2) Propylene	2.87	41	10351	1.08	ppb		94
3) Freon 12	2.91	85	65180	1.19	ppb		100
4) Chloromethane	3.05	50	15910m	1.26	ppb		
5) Freon 114	3.05	85	38678m	1.24	ppb		
6) Vinyl Chloride	3.18	62	12311	1.18	ppb		99
7) 1,3-butadiene	3.26	39	9703	1.17	ppb		82
8) Bromomethane	3.50	94	12262	1.11	ppb		100
9) Chloroethane	3.62	64	4767	1.14	ppb		74
10) Vinyl Bromide	3.87	106	12465	1.04	ppb		99
11) Freon 11	4.07	101	37499	1.16	ppb		98
12) Acetone	4.24	58	4360	0.86	ppb		92
13) Isopropyl alcohol	4.35	45	8722	0.81	ppb		98
14) 1,1-dichloroethene	4.66	96	12044	0.79	ppb	#	88
15) Freon 113	4.83	101	46810	1.26	ppb		94
16) Methylene chloride	5.05	84	17970	1.17	ppb		95
17) Allyl chloride	5.03	41	13914	1.15	ppb		95
18) Carbon disulfide	5.17	76	53619	1.13	ppb		98
19) trans-1,2-dichloroethene	5.88	61	23186	1.10	ppb		93
20) methyl tert-butyl ether	5.97	73	27371	1.26	ppb		99
21) 1,1-dichloroethane	6.27	63	32970	1.20	ppb		100
22) Vinyl acetate	6.31	43	17793	1.06	ppb		97
23) Methyl Ethyl Ketone	6.80	43	24608	0.91	ppb		94
24) cis-1,2-dichloroethene	7.14	61	21183	1.16	ppb		94
25) Hexane	6.79	41	13217	1.03	ppb	#	74
26) Ethyl acetate	7.39	43	18740	0.94	ppb		99
27) Chloroform	7.73	83	47950	1.22	ppb		96
28) Tetrahydrofuran	7.97	42	8201	1.00	ppb		82
29) 1,2-dichloroethane	8.81	62	28229	1.19	ppb		99
31) 1,1,1-trichloroethane	8.51	97	41814m	1.25	ppb		
32) Cyclohexane	9.20	56	14799	1.13	ppb		93
33) Carbon tetrachloride	9.14	117	52024	1.13	ppb		100
34) Benzene	9.11	78	45630	1.26	ppb		96
35) 1,4-dioxane	11.02	88	5038m	0.88	ppb		
36) 2,2,4-trimethylpentane	10.08	57	40648	1.04	ppb		96
37) Heptane	10.50	43	12920	1.00	ppb		95
38) Trichloroethene	10.59	130	25271	1.10	ppb		94
39) 1,2-dichloropropane	10.71	63	16928	1.22	ppb		98
40) Bromodichloromethane	11.11	83	47370	1.16	ppb		100
41) cis-1,3-dichloropropene	12.03	75	16420	1.19	ppb		97
42) trans-1,3-dichloropropene	12.83	75	12863	1.13	ppb		97
43) 1,1,2-trichloroethane	13.14	97	22354	1.18	ppb		98
45) Toluene	12.87	92	23092	1.10	ppb		100
46) Methyl Isobutyl Ketone	12.01	43	13133	0.85	ppb		93

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D Vial: 4
Acq On : 27 Jan 2011 11:21 am Operator: RJP
Sample : ALCS1UG-012711 Inst : MSD #1
Misc : ALCS1UG-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 27 11:42:36 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	51082	1.05	ppb	99
48)	Methyl Butyl Ketone	13.40	43	11057m p	0.85	ppb	
49)	1,2-dibromoethane	14.06	107	30343	1.09	ppb	99
50)	Tetrachloroethylene	13.91	164	27194	1.13	ppb	97
51)	Chlorobenzene	14.86	112	37272	1.04	ppb	95
52)	Ethylbenzene	15.12	91	40162	1.00	ppb	95
53)	m&p-xylene	15.32	91	64569	1.96	ppb	97
54)	Styrene	15.72	104	18872	0.93	ppb	98
55)	Bromoform	15.80	173	49014	1.00	ppb	100
56)	o-xylene	15.74	91	32900	0.84	ppb	98
58)	1,1,2,2-tetrachloroethane	16.17	83	32046	0.94	ppb	98
59)	4-ethyltoluene	16.93	105	36443	1.00	ppb	96
60)	1,3,5-trimethylbenzene	16.99	105	25846	0.81	ppb	95
61)	1,2,4-trimethylbenzene	17.40	105	19432	0.77	ppb	95
62)	1,3-dichlorobenzene	17.65	146	21676	0.84	ppb	97
63)	benzyl chloride	17.72	91	15682	0.95	ppb	98
64)	1,4-dichlorobenzene	17.78	146	19937	0.80	ppb	97
65)	1,2-dichlorobenzene	18.06	146	17509	0.77	ppb	95
66)	1,2,4-trichlorobenzene	19.69	180	5231m p	0.73	ppb	
67)	Hexachloro-1,3-butadiene	19.96	225	11875	0.71	ppb	95

(#) = qualifier out of range (m) = manual integration (+) = signals summed

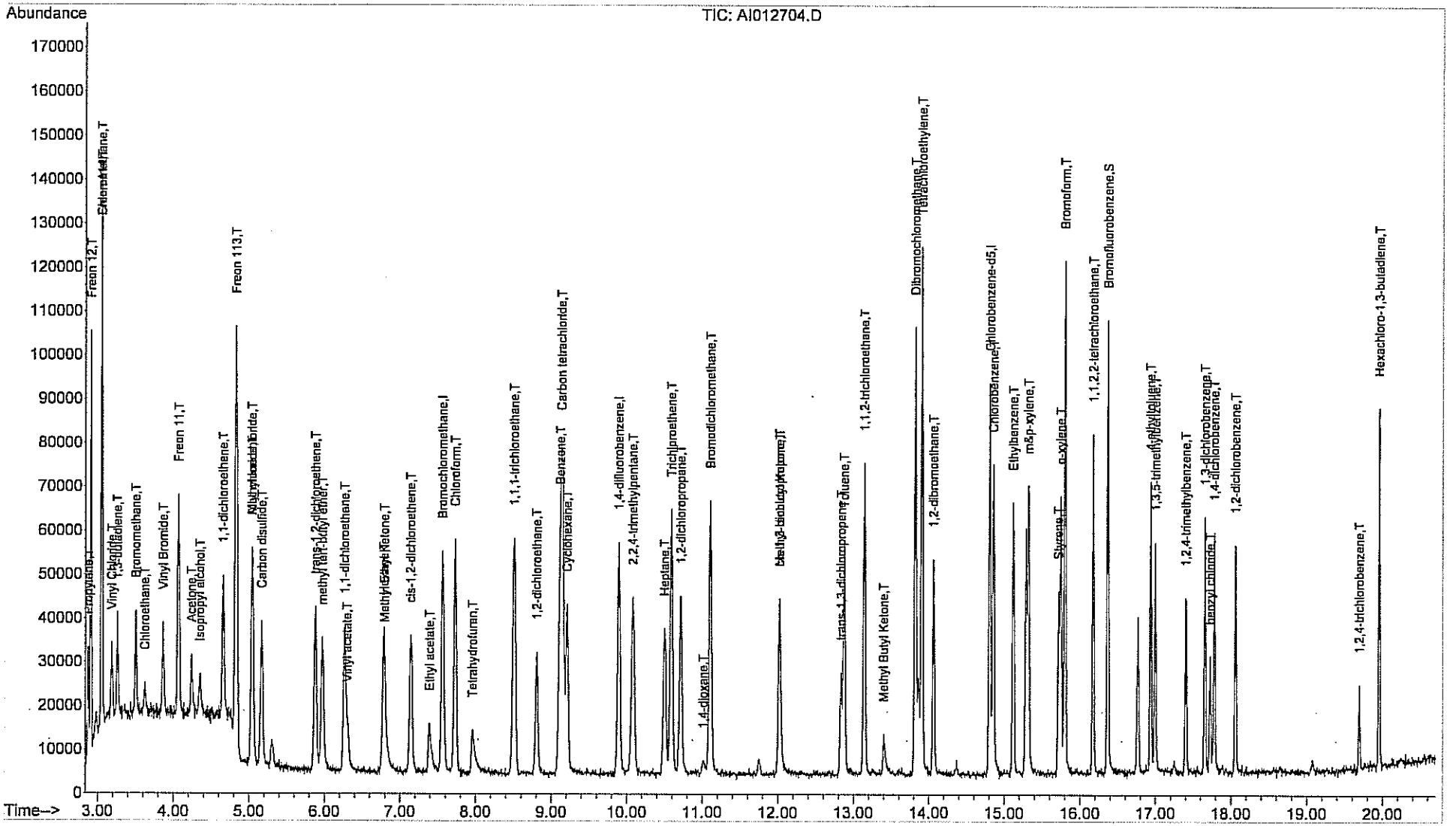
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012704.D
Acq On : 27 Jan 2011 11:21 am
Sample : ALCS1UG-012711
Misc : ALCS1UG-012711
MS Integration Params: RTEINT.P
Quant Time: Jan 31 10:33 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012704.D A106_1UG.M Tue Feb 08 15:47:31 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D Vial: 4
Acq On : 28 Jan 2011 11:40 am Operator: RJP
Sample : ALCS1UG-012811 Inst : MSD #1
Misc : ALCS1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:01:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	31472	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	90987	1.00	ppb		0.00
44) Chlorobenzene-d5	14.81	117	81922	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	46321	1.12	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 112.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	15267	0.95	ppb		87
3) Freon 12	2.90	85	103129	1.12	ppb		99
4) Chloromethane	3.04	50	24416	1.15	ppb		94
5) Freon 114	3.04	85	59385	1.13	ppb		95
6) Vinyl Chloride	3.18	62	18682	1.07	ppb		100
7) 1,3-butadiene	3.26	39	15661	1.12	ppb		89
8) Bromomethane	3.50	94	19268	1.04	ppb		99
9) Chloroethane	3.61	64	7855	1.12	ppb		96
10) Vinyl Bromide	3.86	106	20203	1.01	ppb		99
11) Freon 11	4.06	101	58680	1.08	ppb		98
12) Acetone	4.21	58	9712	1.14	ppb		87
13) Isopropyl alcohol	4.31	45	19691	1.08	ppb		91
14) 1,1-dichloroethene	4.65	96	19331	0.75	ppb		90
15) Freon 113	4.82	101	45024m	0.72	ppb		
16) Methylene chloride	5.04	84	22136m	0.86	ppb		
17) Allyl chloride	5.03	41	19050	0.94	ppb		89
18) Carbon disulfide	5.16	76	60355m	0.75	ppb		
19) trans-1,2-dichloroethene	5.87	61	38689	1.10	ppb		88
20) methyl tert-butyl ether	5.94	73	42225	1.16	ppb		95
21) 1,1-dichloroethane	6.26	63	50115	1.09	ppb		99
22) Vinyl acetate	6.29	43	30775	1.09	ppb		94
23) Methyl Ethyl Ketone	6.78	43	44959	0.99	ppb		95
24) cis-1,2-dichloroethene	7.14	61	33579	1.10	ppb		93
25) Hexane	6.78	41	22752	1.05	ppb	#	78
26) Ethyl acetate	7.36	43	32605	0.97	ppb		95
27) Chloroform	7.73	83	73796	1.12	ppb		99
28) Tetrahydrofuran	7.93	42	11871	0.86	ppb		90
29) 1,2-dichloroethane	8.80	62	43883	1.11	ppb		100
31) 1,1,1-trichloroethane	8.50	97	67842	1.17	ppb		99
32) Cyclohexane	9.20	56	23049	1.01	ppb		91
33) Carbon tetrachloride	9.13	117	81117	1.01	ppb		100
34) Benzene	9.11	78	69302	1.10	ppb		97
35) 1,4-dioxane	10.98	88	8136m	0.82	ppb		
36) 2,2,4-trimethylpentane	10.07	57	65576	0.97	ppb		96
37) Heptane	10.50	43	20955	0.93	ppb		94
38) Trichloroethene	10.58	130	39293	0.98	ppb		94
39) 1,2-dichloropropane	10.71	63	26588	1.10	ppb		98
40) Bromodichloromethane	11.10	83	74760	1.05	ppb		98
41) cis-1,3-dichloropropene	12.02	75	25824	1.08	ppb		96
42) trans-1,3-dichloropropene	12.83	75	20355	1.03	ppb		98
43) 1,1,2-trichloroethane	13.14	97	36035	1.10	ppb		99
45) Toluene	12.87	92	37324	1.09	ppb		99
46) Methyl Isobutyl Ketone	12.00	43	18197	0.72	ppb		90

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D Vial: 4
Acq On : 28 Jan 2011 11:40 am Operator: RJP
Sample : ALCS1UG-012811 Inst : MSD #1
Misc : ALCS1UG-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 12:01:30 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.82	129	79686	1.01	ppb	98
48)	Methyl Butyl Ketone	13.39	43	19321m	0.91	ppb	
49)	1,2-dibromoethane	14.06	107	46643	1.03	ppb	99
50)	Tetrachloroethylene	13.91	164	41436	1.05	ppb	99
51)	Chlorobenzene	14.85	112	58421	1.00	ppb	93
52)	Ethylbenzene	15.12	91	64938	0.99	ppb	97
53)	m&p-xylene	15.32	91	108743	2.03	ppb	96
54)	Styrene	15.72	104	31880	0.96	ppb	99
55)	Bromoform	15.80	173	78498	0.99	ppb	98
56)	o-xylene	15.75	91	54778	0.86	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	51637	0.93	ppb	98
59)	4-ethyltoluene	16.93	105	59686	1.00	ppb	98
60)	1,3,5-trimethylbenzene	17.00	105	43648	0.83	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	33770	0.82	ppb	97
62)	1,3-dichlorobenzene	17.65	146	36629	0.87	ppb	95
63)	benzyl chloride	17.72	91	29867	1.11	ppb	99
64)	1,4-dichlorobenzene	17.78	146	36285	0.89	ppb	96
65)	1,2-dichlorobenzene	18.06	146	32033	0.86	ppb	94
66)	1,2,4-trichlorobenzene	19.69	180	10419	0.89	ppb	92
67)	Hexachloro-1,3-butadiene	19.95	225	25088	0.92	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

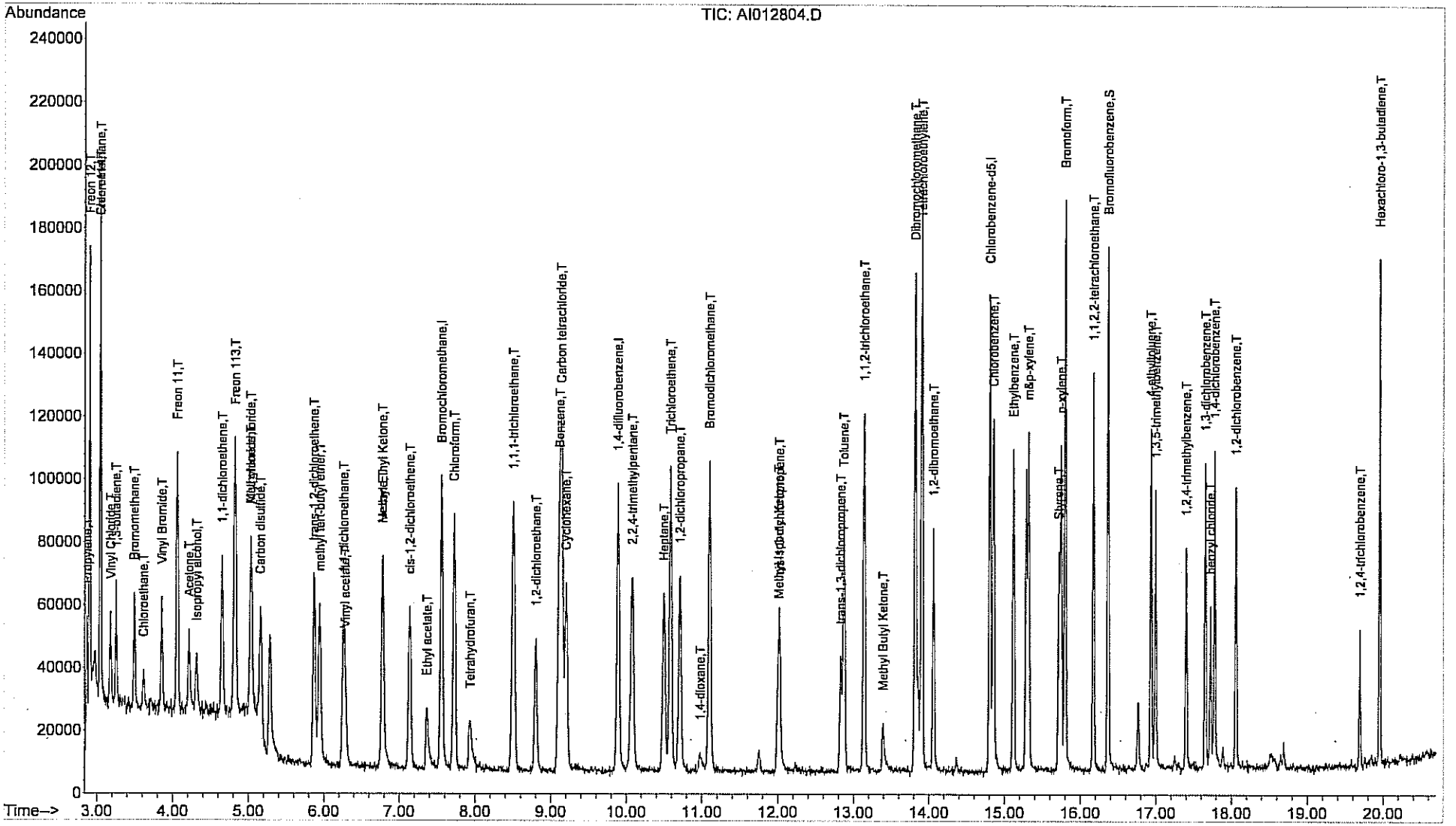
Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012804.D
Acq On : 28 Jan 2011 11:40 am
Sample : ALCS1UG-012811
Misc : ALCS1UG-012811
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:07 2011

Vial: 4
Operator: RJP
Inst : MSD #1
Multiplr: 1.00

Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012804.D A106_1UG.M Tue Feb 08 15:47:39 2011 MSD1 Page 3

Centek laboratories, LLC

Centek laboratories, LLC

CENTEK LABORATORIES, LLC

Date: *08-Feb-11*

ANALYTICAL QC SUMMARY REPORT

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711 SampType: LCSD TestCode: 1ugM3_TO15 Units: ppbV Prep Date: RunNo: 4196
Client ID: ZZZZZ Batch ID: R4196 TestNo: TO-15 Analysis Date: 1/28/2011 SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.010	0.15	1	0	101	70	130	1.25	21.2	30	
1,1,2,2-Tetrachloroethane	0.7800	0.15	1	0	78.0	70	130	0.94	18.6	30	
1,1,2-Trichloroethane	1.010	0.15	1	0	101	70	130	1.18	15.5	30	
1,1-Dichloroethane	1.220	0.15	1	0	122	70	130	1.2	1.65	30	
1,1-Dichloroethene	1.200	0.15	1	0	120	70	130	0.79	41.2	30	R
1,2,4-Trichlorobenzene	0.6100	0.15	1	0	61.0	70	130	0.73	17.9	30	S
1,2,4-Trimethylbenzene	0.9100	0.15	1	0	91.0	70	130	0.77	16.7	30	
1,2-Dibromoethane	0.8600	0.15	1	0	86.0	70	130	1.09	23.6	30	
1,2-Dichlorobenzene	0.7300	0.15	1	0	73.0	70	130	0.77	5.33	30	
1,2-Dichloroethane	1.210	0.15	1	0	121	70	130	1.19	1.67	30	
1,2-Dichloropropane	1.080	0.15	1	0	108	70	130	1.22	12.2	30	
1,3,5-Trimethylbenzene	0.8800	0.15	1	0	88.0	70	130	0.81	8.28	30	
1,3-butadiene	1.010	0.15	1	0	101	70	130	1.17	14.7	30	
1,3-Dichlorobenzene	0.7500	0.15	1	0	75.0	70	130	0.84	11.3	30	
1,4-Dichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.8	7.79	30	
1,4-Dioxane	0.3200	0.30	1	0	32.0	70	130	0.88	93.3	30	SR
2,2,4-trimethylpentane	1.000	0.15	1	0	100	70	130	1.04	3.92	30	
4-ethyltoluene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Acetone	1.280	0.30	1	0	128	70	130	0.86	39.3	30	R
Allyl chloride	1.150	0.15	1	0	115	70	130	1.15	0	30	
Benzene	1.100	0.15	1	0	110	70	130	1.26	13.6	30	
Benzyl chloride	1.010	0.15	1	0	101	70	130	0.95	6.12	30	
Bromodichloromethane	0.8900	0.15	1	0	89.0	70	130	1.16	26.3	30	
Bromoform	0.7000	0.15	1	0	70.0	70	130	1	35.3	30	R
Bromomethane	1.030	0.15	1	0	103	70	130	1.11	7.48	30	

Qualifiers:
. Results reported are not blank corrected
J Analyte detected at or below quantitation limits
S Spike Recovery outside accepted recovery limits
E Value above quantitation range
ND Not Detected at the Reporting Limit
H Holding times for preparation or analysis exceeded
R RPD outside accepted recovery limits

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012711	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4196
Client ID:	ZZZZZ	Batch ID:	R4196	TestNo:	TO-15			Analysis Date:	1/28/2011	SeqNo:	50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Carbon disulfide	1.050	0.15	1	0	105	70	130	1.13	7.34	30	
Carbon tetrachloride	0.7900	0.15	1	0	79.0	70	130	1.13	35.4	30	R
Chlorobenzene	0.9300	0.15	1	0	93.0	70	130	1.04	11.2	30	
Chloroethane	1.100	0.15	1	0	110	70	130	1.14	3.57	30	
Chloroform	1.170	0.15	1	0	117	70	130	1.22	4.18	30	
Chloromethane	1.120	0.15	1	0	112	70	130	1.26	11.8	30	
cis-1,2-Dichloroethene	1.270	0.15	1	0	127	70	130	1.16	9.05	30	
cis-1,3-Dichloropropene	1.000	0.15	1	0	100	70	130	1.19	17.4	30	
Cyclohexane	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Dibromochloromethane	0.7400	0.15	1	0	74.0	70	130	1.05	34.6	30	R
Ethyl acetate	1.040	0.25	1	0	104	70	130	0.94	10.1	30	
Ethylbenzene	1.230	0.15	1	0	123	70	130	1	20.6	30	
Freon 11	1.020	0.15	1	0	102	70	130	1.16	12.8	30	
Freon 113	1.170	0.15	1	0	117	70	130	1.26	7.41	30	
Freon 114	1.090	0.15	1	0	109	70	130	1.24	12.9	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.19	7.86	30	
Heptane	1.290	0.15	1	0	129	70	130	1	25.3	30	
Hexachloro-1,3-butadiene	0.5500	0.15	1	0	55.0	70	130	0.71	25.4	30	S
Hexane	1.130	0.15	1	0	113	70	130	1.03	9.26	30	
Isopropyl alcohol	0.9800	0.15	1	0	98.0	70	130	0.81	19.0	30	
m&p-Xylene	3.090	0.30	2	0	154	70	130	1.96	44.8	30	SR
Methyl Butyl Ketone	0.3900	0.30	1	0	39.0	70	130	0.85	74.2	30	SR
Methyl Ethyl Ketone	1.020	0.30	1	0	102	70	130	0.91	11.4	30	
Methyl Isobutyl Ketone	0.5400	0.30	1	0	54.0	70	130	0.85	44.6	30	SR
Methyl tert-butyl ether	1.240	0.15	1	0	124	70	130	1.26	1.60	30	
Methylene chloride	1.180	0.15	1	0	118	70	130	1.17	0.851	30	
o-Xylene	0.9400	0.15	1	0	94.0	70	130	0.84	11.2	30	
Propylene	1.080	0.15	1	0	108	70	130	1.08	0	30	
Styrene	0.8500	0.15	1	0	85.0	70	130	0.93	8.99	30	
Tetrachloroethylene	0.9300	0.15	1	0	93.0	70	130	1.13	19.4	30	
Tetrahydrofuran	1.090	0.15	1	0	109	70	130	1	8.61	30	

Qualifiers:

- . Results reported are not blank corrected
- J Analyte detected at or below quantitation limits
- S Spike Recovery outside accepted recovery limits
- E Value above quantitation range
- ND Not Detected at the Reporting Limit
- H Holding times for preparation or analysis exceeded
- R RPD outside accepted recovery limits

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012711	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4196
Client ID: ZZZZZ	Batch ID: R4196	TestNo: TO-15		Analysis Date: 1/28/2011	SeqNo: 50392

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Toluene	2.380	0.15	1	0	238	70	130	1.1	73.6	30	SR
trans-1,2-Dichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
trans-1,3-Dichloropropene	1.100	0.15	1	0	110	70	130	1.13	2.69	30	
Trichloroethene	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
Vinyl acetate	1.170	0.15	1	0	117	70	130	1.06	9.87	30	
Vinyl Bromide	1.010	0.15	1	0	101	70	130	1.04	2.93	30	
Vinyl chloride	1.080	0.15	1	0	108	70	130	1.18	8.85	30	

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
1,1,1-Trichloroethane	1.150	0.15	1	0	115	70	130	1.17	1.72	30	
1,1,2,2-Tetrachloroethane	0.9300	0.15	1	0	93.0	70	130	0.93	0	30	
1,1,2-Trichloroethane	1.160	0.15	1	0	116	70	130	1.1	5.31	30	
1,1-Dichloroethane	1.030	0.15	1	0	103	70	130	1.09	5.66	30	
1,1-Dichloroethene	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
1,2,4-Trichlorobenzene	0.7400	0.15	1	0	74.0	70	130	0.89	18.4	30	
1,2,4-Trimethylbenzene	0.7400	0.15	1	0	74.0	70	130	0.82	10.3	30	
1,2-Dibromoethane	1.090	0.15	1	0	109	70	130	1.03	5.66	30	
1,2-Dichlorobenzene	0.8000	0.15	1	0	80.0	70	130	0.86	7.23	30	
1,2-Dichloroethane	1.090	0.15	1	0	109	70	130	1.11	1.82	30	
1,2-Dichloropropane	1.130	0.15	1	0	113	70	130	1.1	2.69	30	
1,3,5-Trimethylbenzene	0.7900	0.15	1	0	79.0	70	130	0.83	4.94	30	
1,3-butadiene	0.9800	0.15	1	0	98.0	70	130	1.12	13.3	30	
1,3-Dichlorobenzene	0.8600	0.15	1	0	86.0	70	130	0.87	1.16	30	
1,4-Dichlorobenzene	0.8100	0.15	1	0	81.0	70	130	0.89	9.41	30	
1,4-Dioxane	0.7400	0.30	1	0	74.0	70	130	0.82	10.3	30	
2,2,4-trimethylpentane	0.9200	0.15	1	0	92.0	70	130	0.97	5.29	30	
4-ethyltoluene	0.9100	0.15	1	0	91.0	70	130	1	9.42	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID	LCS1UGD-012811	SampType:	LCSD	TestCode:	1ugM3_TO15	Units:	ppbV	Prep Date:		RunNo:	4197
Client ID:	ZZZZZ	Batch ID:	R4197	TestNo:	TO-15			Analysis Date:	1/29/2011	SeqNo:	50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Acetone	1.250	0.30	1	0	125	70	130	1.14	9.21	30	
Allyl chloride	0.8000	0.15	1	0	80.0	70	130	0.94	16.1	30	
Benzene	1.050	0.15	1	0	105	70	130	1.1	4.65	30	
Benzyl chloride	0.9700	0.15	1	0	97.0	70	130	1.11	13.5	30	
Bromodichloromethane	1.150	0.15	1	0	115	70	130	1.05	9.09	30	
Bromoform	1.020	0.15	1	0	102	70	130	0.99	2.99	30	
Bromomethane	1.090	0.15	1	0	109	70	130	1.04	4.69	30	
Carbon disulfide	1.000	0.15	1	0	100	70	130	0.75	28.6	30	
Carbon tetrachloride	1.110	0.15	1	0	111	70	130	1.01	9.43	30	
Chlorobenzene	0.9700	0.15	1	0	97.0	70	130	1	3.05	30	
Chloroethane	1.130	0.15	1	0	113	70	130	1.12	0.889	30	
Chloroform	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Chloromethane	1.140	0.15	1	0	114	70	130	1.15	0.873	30	
cis-1,2-Dichloroethene	0.9600	0.15	1	0	96.0	70	130	1.1	13.6	30	
cis-1,3-Dichloropropene	1.010	0.15	1	0	101	70	130	1.08	6.70	30	
Cyclohexane	0.9300	0.15	1	0	93.0	70	130	1.01	8.25	30	
Dibromochloromethane	1.040	0.15	1	0	104	70	130	1.01	2.93	30	
Ethyl acetate	0.7400	0.25	1	0	74.0	70	130	0.97	26.9	30	
Ethylbenzene	0.9300	0.15	1	0	93.0	70	130	0.99	6.25	30	
Freon 11	1.120	0.15	1	0	112	70	130	1.08	3.64	30	
Freon 113	1.160	0.15	1	0	116	70	130	0.72	46.8	30	R
Freon 114	1.120	0.15	1	0	112	70	130	1.13	0.889	30	
Freon 12	1.100	0.15	1	0	110	70	130	1.12	1.80	30	
Heptane	0.9400	0.15	1	0	94.0	70	130	0.93	1.07	30	
Hexachloro-1,3-butadiene	0.7900	0.15	1	0	79.0	70	130	0.92	15.2	30	
Hexane	0.8500	0.15	1	0	85.0	70	130	1.05	21.1	30	
Isopropyl alcohol	0.8400	0.15	1	0	84.0	70	130	1.08	25.0	30	
m&p-Xylene	1.890	0.30	2	0	94.5	70	130	2.03	7.14	30	
Methyl Butyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.91	20.6	30	
Methyl Ethyl Ketone	0.7400	0.30	1	0	74.0	70	130	0.99	28.9	30	
Methyl Isobutyl Ketone	0.7000	0.30	1	0	70.0	70	130	0.72	2.82	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

CLIENT: FPM Group
Work Order: C1101031
Project: B785SSVM Sampling

TestCode: 1ugM3_TO15

Sample ID LCS1UGD-012811	SampType: LCSD	TestCode: 1ugM3_TO15	Units: ppbV	Prep Date:	RunNo: 4197
Client ID: ZZZZZ	Batch ID: R4197	TestNo: TO-15		Analysis Date: 1/29/2011	SeqNo: 50410

Analyte	Result	PQL	SPK value	SPK Ref Val	%REC	LowLimit	HighLimit	RPD Ref Val	%RPD	RPDLimit	Qual
Methyl tert-butyl ether	0.7700	0.15	1	0	77.0	70	130	1.16	40.4	30	R
Methylene chloride	1.080	0.15	1	0	108	70	130	0.86	22.7	30	
o-Xylene	0.8100	0.15	1	0	81.0	70	130	0.86	5.99	30	
Propylene	0.8200	0.15	1	0	82.0	70	130	0.95	14.7	30	
Styrene	0.8800	0.15	1	0	88.0	70	130	0.96	8.70	30	
Tetrachloroethylene	1.060	0.15	1	0	106	70	130	1.05	0.948	30	
Tetrahydrofuran	0.7600	0.15	1	0	76.0	70	130	0.86	12.3	30	
Toluene	0.9700	0.15	1	0	97.0	70	130	1.09	11.7	30	
trans-1,2-Dichloroethene	0.9100	0.15	1	0	91.0	70	130	1.1	18.9	30	
trans-1,3-Dichloropropene	1.020	0.15	1	0	102	70	130	1.03	0.976	30	
Trichloroethene	1.080	0.15	1	0	108	70	130	0.98	9.71	30	
Vinyl acetate	0.8100	0.15	1	0	81.0	70	130	1.09	29.5	30	
Vinyl Bromide	1.030	0.15	1	0	103	70	130	1.01	1.96	30	
Vinyl chloride	1.150	0.15	1	0	115	70	130	1.07	7.21	30	

Qualifiers:

.	Results reported are not blank corrected	E	Value above quantitation range	H	Holding times for preparation or analysis exceeded
J	Analyte detected at or below quantitation limits	ND	Not Detected at the Reporting Limit	R	RPD outside accepted recovery limits
S	Spike Recovery outside accepted recovery limits				

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 01:19:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.56	128	20088	1.00	ppb		0.00
30) 1,4-difluorobenzene	9.89	114	68662	1.00	ppb		0.00
44) Chlorobenzene-d5	14.80	117	70738	1.00	ppb		0.00
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	38886	1.09	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 109.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	11023	1.08	ppb		92
3) Freon 12	2.91	85	64877	1.10	ppb		99
4) Chloromethane	3.04	50	15209	1.12	ppb		100
5) Freon 114	3.04	85	36694	1.09	ppb		94
6) Vinyl Chloride	3.18	62	12061	1.08	ppb		99
7) 1,3-butadiene	3.25	39	9037	1.01	ppb		83
8) Bromomethane	3.49	94	12177	1.03	ppb		99
9) Chloroethane	3.61	64	4953	1.10	ppb		86
10) Vinyl Bromide	3.86	106	12912	1.01	ppb		95
11) Freon 11	4.06	101	35232	1.02	ppb		99
12) Acetone	4.22	58	6935	1.28	ppb		95
13) Isopropyl alcohol	4.32	45	11400	0.98	ppb		81
14) 1,1-dichloroethene	4.65	96	19690	1.20	ppb		95
15) Freon 113	4.82	101	46622	1.17	ppb		95
16) Methylene chloride	5.03	84	19415	1.18	ppb		93
17) Allyl chloride	5.02	41	14913	1.15	ppb		96
18) Carbon disulfide	5.16	76	53813	1.05	ppb		98
19) trans-1,2-dichloroethene	5.87	61	26191	1.16	ppb		89
20) methyl tert-butyl ether	5.94	73	28941	1.24	ppb		93
21) 1,1-dichloroethane	6.26	63	35716	1.22	ppb		100
22) Vinyl acetate	6.29	43	20981	1.17	ppb		96
23) Methyl Ethyl Ketone	6.78	43	29414	1.02	ppb		96
24) cis-1,2-dichloroethene	7.13	61	24884	1.27	ppb		93
25) Hexane	6.79	41	15522	1.13	ppb	#	76
26) Ethyl acetate	7.38	43	22332	1.04	ppb		99
27) Chloroform	7.72	83	49283	1.17	ppb		97
28) Tetrahydrofuran	7.94	42	9644	1.09	ppb		84
29) 1,2-dichloroethane	8.80	62	30674	1.21	ppb		99
31) 1,1,1-trichloroethane	8.50	97	44085	1.01	ppb		100
32) Cyclohexane	9.20	56	19384	1.12	ppb	#	83
33) Carbon tetrachloride	9.14	117	48038	0.79	ppb		99
34) Benzene	9.11	78	52520	1.10	ppb		98
35) 1,4-dioxane	11.03	88	2365m	0.32	ppb		
36) 2,2,4-trimethylpentane	10.08	57	51272	1.00	ppb		99
37) Heptane	10.50	43	21944	1.29	ppb		90
38) Trichloroethene	10.58	130	34845	1.16	ppb		94
39) 1,2-dichloropropane	10.71	63	19738	1.08	ppb		100
40) Bromodichloromethane	11.10	83	47607	0.89	ppb		98
41) cis-1,3-dichloropropene	12.02	75	18062	1.00	ppb		95
42) trans-1,3-dichloropropene	12.83	75	16366	1.10	ppb		93
43) 1,1,2-trichloroethane	13.14	97	24944	1.01	ppb		97
45) Toluene	12.87	92	70167	2.38	ppb		99
46) Methyl Isobutyl Ketone	12.02	43	11653m	0.54	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 28 01:19:22 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

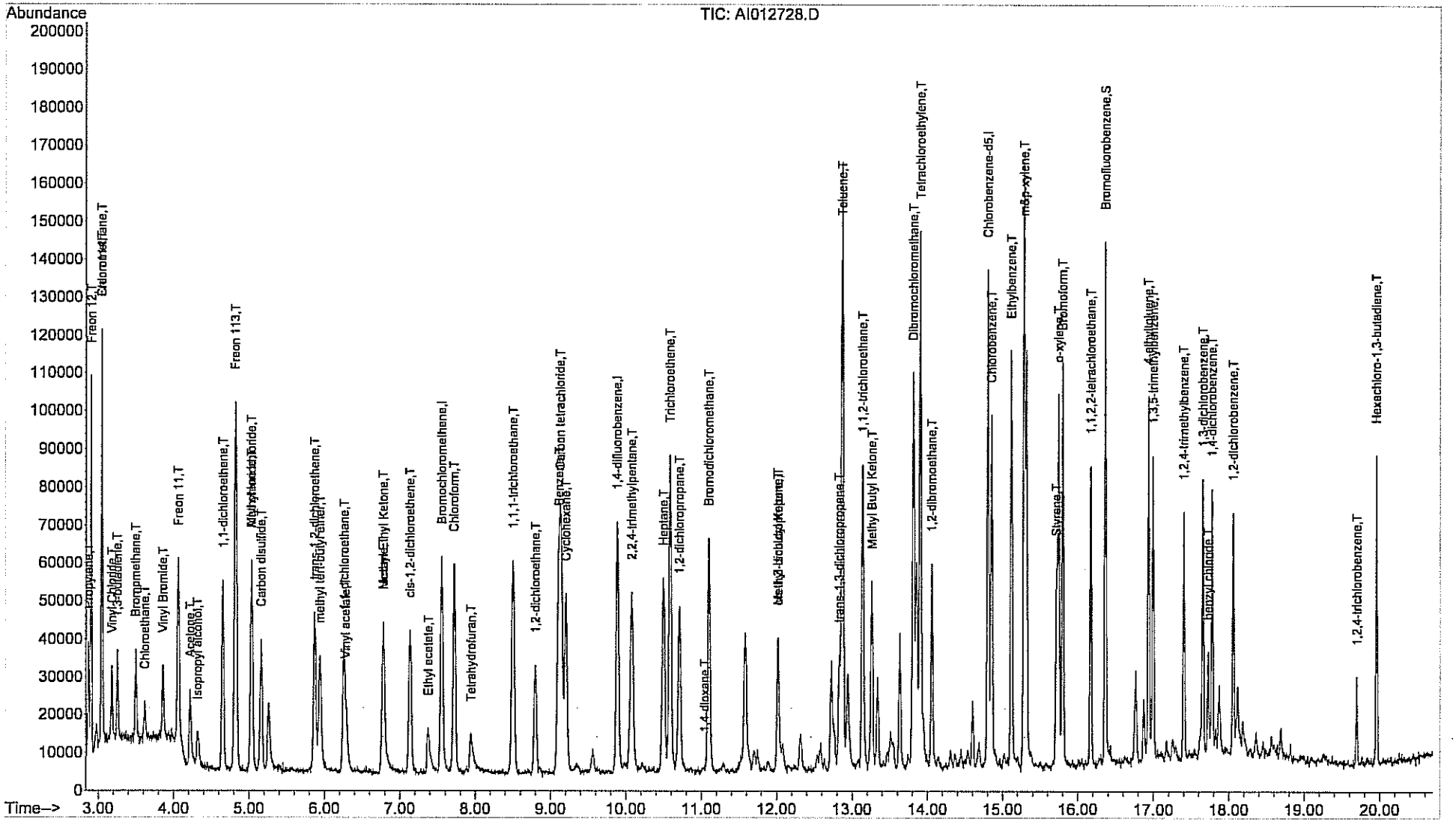
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.81	129	50735	0.74	ppb	98
48)	Methyl Butyl Ketone	13.27	43	7242m	0.39	ppb	
49)	1,2-dibromoethane	14.06	107	33496	0.86	ppb	99
50)	Tetrachloroethylene	13.91	164	31471	0.93	ppb	99
51)	Chlorobenzene	14.85	112	47076	0.93	ppb	95
52)	Ethylbenzene	15.12	91	69511	1.23	ppb	98
53)	m&p-xylene	15.29	91	143114	3.09	ppb	97
54)	Styrene	15.72	104	24281	0.85	ppb	92
55)	Bromoform	15.80	173	47769m	0.70	ppb	
56)	o-xylene	15.74	91	51857	0.94	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	37488m	0.78	ppb	
59)	4-ethyltoluene	16.93	105	49804	0.97	ppb	99
60)	1,3,5-trimethylbenzene	16.99	105	39731	0.88	ppb	98
61)	1,2,4-trimethylbenzene	17.40	105	32456	0.91	ppb	98
62)	1,3-dichlorobenzene	17.65	146	27239	0.75	ppb	96
63)	benzyl chloride	17.72	91	23430m	1.01	ppb	
64)	1,4-dichlorobenzene	17.78	146	26083	0.74	ppb	98
65)	1,2-dichlorobenzene	18.05	146	23202	0.73	ppb	94
66)	1,2,4-trichlorobenzene	19.70	180	6162m	0.61	ppb	
67)	Hexachloro-1,3-butadiene	19.96	225	12795m	0.55	ppb	

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012728.D Vial: 17
Acq On : 28 Jan 2011 12:58 am Operator: RJP
Sample : LCS1UGD-012711 Inst : MSD #1
Misc : LCS1UGD-012711 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:06 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



AI012728.D A106_1UG.M Tue Feb 08 15:47:36 2011 MSD1 Page 3

Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 29 03:11:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

Internal Standards	R.T.	QIon	Response	Conc	Units		Dev(Min)
1) Bromochloromethane	7.55	128	25975	1.00	ppb		-0.01
30) 1,4-difluorobenzene	9.88	114	67394	1.00	ppb		-0.01
44) Chlorobenzene-d5	14.80	117	64100	1.00	ppb		-0.01
System Monitoring Compounds							
57) Bromofluorobenzene	16.36	95	35605	1.10	ppb		0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 110.00%				
Target Compounds							Qvalue
2) Propylene	2.86	41	10908	0.82	ppb		87
3) Freon 12	2.90	85	83749	1.10	ppb		96
4) Chloromethane	3.04	50	20011	1.14	ppb		96
5) Freon 114	3.04	85	48793	1.12	ppb		96
6) Vinyl Chloride	3.18	62	16539	1.15	ppb		94
7) 1,3-butadiene	3.25	39	11322	0.98	ppb		90
8) Bromomethane	3.50	94	16631	1.09	ppb		99
9) Chloroethane	3.61	64	6533	1.13	ppb		92
10) Vinyl Bromide	3.86	106	17049	1.03	ppb		99
11) Freon 11	4.06	101	50058	1.12	ppb		98
12) Acetone	4.22	58	8763m	1.25	ppb		
13) Isopropyl alcohol	4.33	45	12634	0.84	ppb	#	65
14) 1,1-dichloroethene	4.65	96	21218	1.00	ppb		100
15) Freon 113	4.82	101	59368	1.16	ppb		96
16) Methylene chloride	5.03	84	23090	1.08	ppb		90
17) Allyl chloride	5.02	41	13432	0.80	ppb		92
18) Carbon disulfide	5.16	76	65836	1.00	ppb		99
19) trans-1,2-dichloroethene	5.87	61	26512	0.91	ppb		92
20) methyl tert-butyl ether	5.94	73	23089	0.77	ppb		85
21) 1,1-dichloroethane	6.26	63	38934	1.03	ppb		97
22) Vinyl acetate	6.29	43	18836	0.81	ppb		100
23) Methyl Ethyl Ketone	6.79	43	27567	0.74	ppb		97
24) cis-1,2-dichloroethene	7.14	61	24344	0.96	ppb		95
25) Hexane	6.77	41	15240	0.85	ppb	#	70
26) Ethyl acetate	7.37	43	20692	0.74	ppb		95
27) Chloroform	7.71	83	60205	1.10	ppb		99
28) Tetrahydrofuran	7.94	42	8660	0.76	ppb		82
29) 1,2-dichloroethane	8.79	62	35838	1.09	ppb		98
31) 1,1,1-trichloroethane	8.49	97	49235	1.15	ppb		98
32) Cyclohexane	9.19	56	15677	0.93	ppb		91
33) Carbon tetrachloride	9.14	117	65857	1.11	ppb		98
34) Benzene	9.10	78	49094	1.05	ppb		97
35) 1,4-dioxane	10.99	88	5445m	0.74	ppb		
36) 2,2,4-trimethylpentane	10.07	57	46035	0.92	ppb		93
37) Heptane	10.49	43	15687	0.94	ppb		97
38) Trichloroethene	10.58	130	31902	1.08	ppb		94
39) 1,2-dichloropropane	10.70	63	20231	1.13	ppb		99
40) Bromodichloromethane	11.10	83	60490	1.15	ppb		100
41) cis-1,3-dichloropropene	12.01	75	17952	1.01	ppb		96
42) trans-1,3-dichloropropene	12.82	75	14848	1.02	ppb		98
43) 1,1,2-trichloroethane	13.14	97	28293	1.16	ppb		99
45) Toluene	12.87	92	25858	0.97	ppb		98
46) Methyl Isobutyl Ketone	12.00	43	13847m	0.70	ppb		

(#) = qualifier out of range (m) = manual integration

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 29 03:11:19 2011 Quant Results File: A106_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Fri Jan 07 10:36:03 2011
Response via : Initial Calibration
DataAcq Meth : A106_1UG

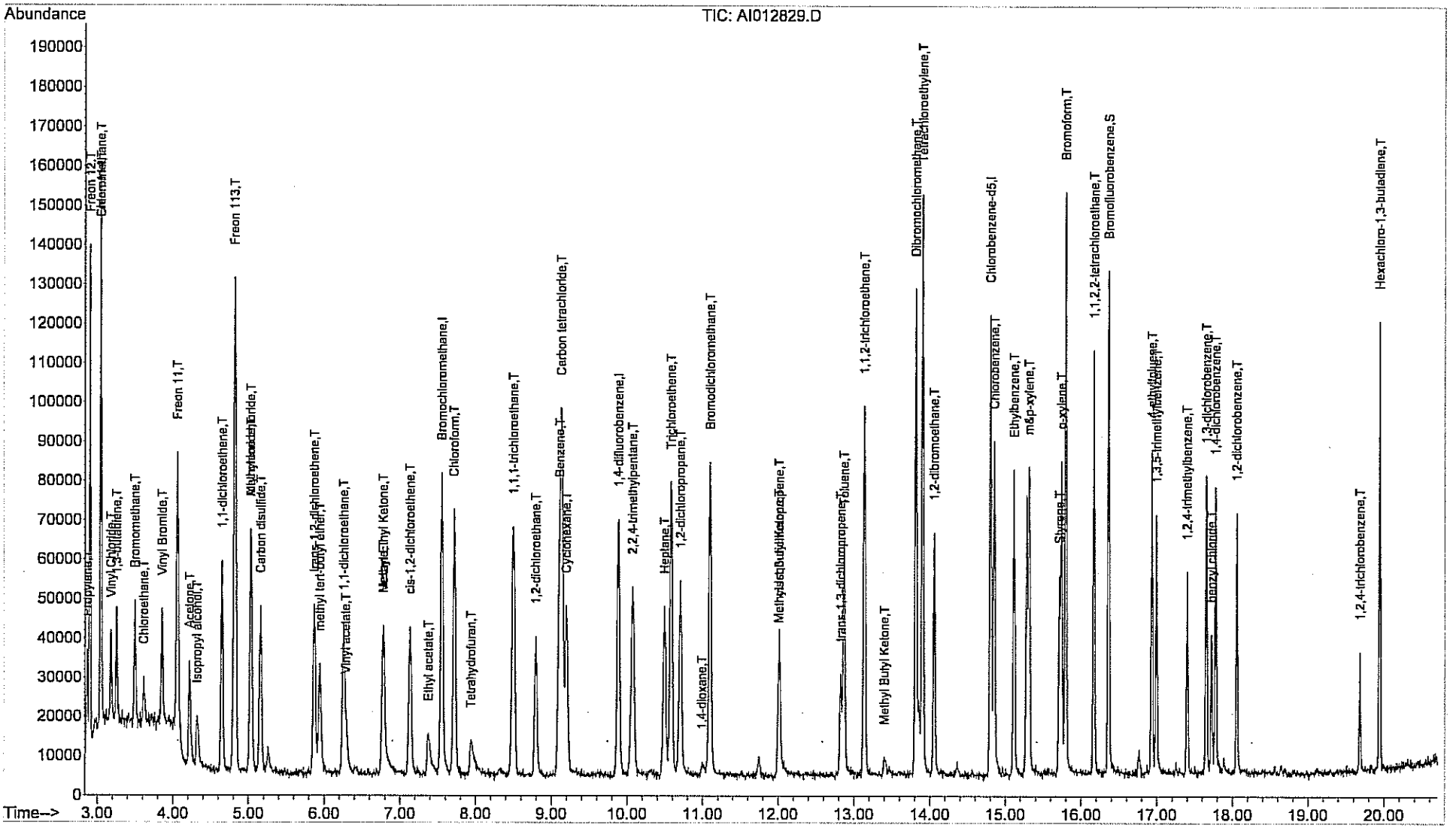
	Compound	R.T.	QIon	Response	Conc	Unit	Qvalue
47)	Dibromochloromethane	13.81	129	64423	1.04	ppb	100
48)	Methyl Butyl Ketone	13.40	43	12419m	0.74	ppb	
49)	1,2-dibromoethane	14.05	107	38668	1.09	ppb	96
50)	Tetrachloroethylene	13.90	164	32501	1.06	ppb	99
51)	Chlorobenzene	14.85	112	44364	0.97	ppb	93
52)	Ethylbenzene	15.12	91	47461	0.93	ppb	99
53)	m&p-xylene	15.31	91	79161	1.89	ppb	97
54)	Styrene	15.71	104	22906	0.88	ppb	93
55)	Bromoform	15.80	173	63426	1.02	ppb	99
56)	o-xylene	15.74	91	40357	0.81	ppb	96
58)	1,1,2,2-tetrachloroethane	16.17	83	40448	0.93	ppb	99
59)	4-ethyltoluene	16.93	105	42529	0.91	ppb	98
60)	1,3,5-trimethylbenzene	16.99	105	32304	0.79	ppb	96
61)	1,2,4-trimethylbenzene	17.40	105	23700	0.74	ppb	98
62)	1,3-dichlorobenzene	17.65	146	28235	0.86	ppb	98
63)	benzyl chloride	17.72	91	20364	0.97	ppb	96
64)	1,4-dichlorobenzene	17.77	146	25914	0.81	ppb	98
65)	1,2-dichlorobenzene	18.06	146	23167	0.80	ppb	96
66)	1,2,4-trichlorobenzene	19.69	180	6764	0.74	ppb	97
67)	Hexachloro-1,3-butadiene	19.94	225	16882	0.79	ppb	98

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA\AI012829.D Vial: 21
Acq On : 29 Jan 2011 2:50 am Operator: RJP
Sample : LCS1UGD-012811 Inst : MSD #1
Misc : LCS1UGD-012811 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Jan 31 11:08 2011 Quant Results File: A106_1UG.RES

Method : C:\HPCHEM\1\METHODS\A106_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Feb 08 15:43:03 2011
Response via : Initial Calibration



Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

INJECTION LOG

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8238
Standard Stock #(s) 8239
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	BFB1JG	AI01601	.		A106-1U6		1/6/11	1713		
	A1U6-2.0	03	-		↓		↓			
	1.5	04	-							
	1.25	05	-							
	1.0	06	-	200						
	0.75	07	-							
	0.50	08	-							
	0.30	09	-							
	0.15	10	-							
	0.10	11	-				↓			
	0.09	12	-				1/7/11	0033		
	BLK	13	-		↓					

Analyzed by: _____

Page No: 36

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: 8259
Standard Stock #(s) 8260
LCS Stock #(s) 8261
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1101033-001	A10125 24	-	200	A106-10L		1/25/11	0958		
	002	25	-	↓	↓		↓	↓		
	003	26	-	↓	↓		↓	↓		
	C1101032-003 OL	27	10	20						
	002 ↓	28	↓	↓						
	001 ↓	29	↓	↓			1/26/11	0038		
	BLK	30	1	1	↓					
	BFBIUL	A10127 01	-	-	A106-10L		1/27/11	0851		
	AIUG-10	02	-	200						
	ALCSIUG-012711	04	-							
	AMBIUG- ↓	05	-							
	WAC-012711A	06	-							
	B	07	-							
	C	08	-							
	D	09	-							
	E	05 R1	-							
	F	10	-							
	C1101031-006	12	1	↓						
	001 OL	13	10	20						
	↓	14	40	5						
	002	15	10	20						
	003	17	↓	↓						
	↓	18	40	5						
	004	19	10	20						
	↓	20	40	20(5)						
	005	21	5	40						
	C1101033-001	22	10	20	↓		↓	0943 1043		

Analyzed by: [signature]

Page No: 43

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: _____
Standard Stock #(s) _____
LCS Stock #(s) _____
Method Reference: Toxic Organic Componds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	CJ101033-002 DL	AI012723	20	10	A106_1U6		1/27/11	2015		
	CJ101032-003	24	-	200						
	002	25	-	↓			↓			
	001	26	-							
	↓ DL	27	50	20 (5)*			1/28/11	0025		
	LCS1U6-012711	28	-	200						
	CJ101038-002	29	-							
	004	30	-							
	005	31	-							
	008	32	-							
	001	33	-							
	003	34	-							
	006	35	-							
	007	36	-							
	CJ101040-001 DL	37	-							
	002	38	-							
	003 ↓	39	-	↓				0706		
	BLK	40	-	-	↓		↓			
	BFB1U6	AI012802	-	-	A106_1U6		1/28/11	0831		
	A1U6-1.6	03	-	200						
	ALCS1U6-012811	04	-							
	AMB1U6 ↓	05	-							
	CJ101040-001	06	-							
	002	07	-							
	003	08	-	↓						
	CJ101031-001 DL	09	10	20 (5)*				1623		
	002-6	10	50	↓ (5)*	↓		↓			

Page No: 54

Analyzed by: _____

Centek Laboratories, LLC
Instrument: HP5973 MSD
GC Column: J&W DB-5MS, 1.5u, 60M

Injection Logbook A-MSD

Internal Standard Stock #: _____
Standard Stock #(s) _____
LCS Stock #(s) _____
Method Reference: Toxic Organic Compounds in Ambient Air Jan-99

Detection Limit	Login Number	Data File Name	Dil. Factor	Inj Vol cc	MethodQ File	Group Number	Inj. Date	Inj. Time	Comments	CD BackUp#
	C1101031-003 OL	AZ01281	510	20 (51)*	A106-1U6		1/28/11	1657		
	004	12	2430	(243)*						
	005	13	180	10(5)*						
	C1101032-001	14	2430	20 (243)*						
	B1101038-002	15	5	40						
	004	16	10	20						
	005	17	5	40						
	006	18	6	1						
	001	19	10	20						
	003	20	1	1						
	1	22	40	5						
	006	23	10	20						
	007	24	5	40			1/29/11	0040		
	C1101040-001	26	270	20 (27)*						
	002	27	90	20(5)						
	003	28	180	10						
	LCS1060-012811	25	-	200				0250		
	BLK	30	-	-						

Analyzed by: _____

* OL IN CAN

Page No: 45

Centek laboratories, LLC

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

STANDARDS LOG

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
6117	11/11/08	11/14/08	TO15IUT IS^A	6112	50ppb	0.5psig	30psia	1 ppb	AD	
6118	11/12/08	11/09	TO15 IS	AB-2153	1 ppm	SPECTRA GASES			mp	
6119	↓	↓	TO15 SUBSET	AB-2274	↓	↓	↓	↓	↓	RECEAT 3/11/10 7140A+B
6120	↓	↓	TO14 MIX	AB-2238	↓	↓	↓	↓	↓	
6121	11/14/08	11/21/08	TO15 IS	6118	1ppm	1.5psig	30psia	30 ppb	mp	
6122	↓	↓	↓ STD	4192/4193	↓	↓	↓	↓	↓	
6123	↓	↓	↓ LCS	2056/2057	↓	↓	↓	↓	↓	
6124	↓	↓	TO15IUT IS^A	6121	50ppb	0.5psig	45psia	1ppb	↓	
6125	↓	↓	↓ STD^A	6122	↓	↓	↓	↓	↓	
6126	↓	↓	↓ LCS	6123	↓	↓	↓	↓	↓	
6127	11/15/08	↓	TO15IUT IS^A	6121	50 ppb	0.5psig	45psia	1ppb	↓	
6128	11/17/08	11/21/08	TO15IUT IS^B	6121	↓	↓	↓	↓	↓	
6129	↓	↓	↓ STD^B	6122	↓	↓	↓	↓	↓	
6130	↓	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6131	11/18/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6132	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	
6133	11/19/08	↓	↓ IS^A	↓	↓	↓	↓	↓	↓	
6134	↓	↓	↓ IS^B	↓	↓	↓	↓	↓	↓	

Page 321 of 333

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7365	8/30/09	8/31/09	TO15IVT IS[A]	7352	50ppb	0.9psig	45psia	1ppb	MP	
7366	8/31/09	9/10	TO15 IS	06503 003	1ppm	SCOTT GASES		1ppm	MP	
7367	8/31/09	9/6/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	MP	
7368	↓	↓	STD	6119/20	↓	↓	↓	↓		
7369			LCS	6192/93						
7370			SIL/SUL	6194						
7371			TO15IVT IS[A]	7367	50ppb	0.9psig	45psia	1ppb		
7372			STD[A]	7368						
7373			LCS	7369						
7374	9/1/09		TO15IVT IS[A]	7367						
7375	9/2/09	↓	↓	↓	↓	↓	↓	↓		
7376	9/1/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7377	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	
7378	9/2/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	L.L.	
7379	9/2/09	9/6/09	↓ IS[A]	7367	↓	↓	↓	↓	L.L.	
7380	9/3/09	9/10/09	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	L.L.	
7381	9/3/09	9/10/09	TO15IVT IS[A]	7380	50ppb	0.9psig	45psia	1ppb	L.L.	
7382	9/3/09	9/10/09	↓ IS[B]	7380	↓	↓	↓	↓	↓	
7382A	8/31/09	9/6/09	TO15IVT IS[B]	7367	50ppb	0.9psig	45psia	1ppb	I.L.	
7382B	↓	↓	↓ STD[B]	7368	↓	↓	↓	↓	↓	

Page # 65

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
7609	1/19/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.	
7610	1/20/10	1/25/10	TO15 IUT IS(B)	7601	50ppb	0.9psig	45psia	1ppb	I.I.	
7611	1/26/10	1/25/10	SILX/SUL-F	6194/7046	1ppm	1.5psig	30psia	50ppb	I.I.	
7612	1/20/10	1/25/10	FORM 10ppm	7068	36.5%	1.1ul	50psia	10ppm	↓	
7613	↓	↓	50ppb FORM	7612	10ppm	0.23psig	45psia	50ppb		
7614	1/21/10	1/25/10	TO15 IS	7366	1ppm	1.5psig	30psia	50ppb	I.I.	
7615	1/21/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.	
7616	1/22/10	1/25/10	TO15 IUT IS(B)	7614	50ppb	0.9psig	45psia	1ppb	I.I.	
7617	1/25/10	1/20/11	TO15 SUBSET	AB-4460	1ppm	1800psig	SpectraGases	1ppm	I.I.	
7618	1/25/10	1/15/11	TO14 MIX	AB-4573	1ppm	1800psig	SpectraGases	1ppm	↓	
7619	1/25/10	1/25/11	FIXED GASES	109940 2163-04	% VARIES	10L	MATHESON TRI-GAS		MI	
7620	1/25/10	2/1/10	TO15 ~~IUT~~ IS(A)	7366	1ppm	1.5psig	30psia	50ppb	I.I.	
7621	↓	↓	STD(A)	7617/7418 7384						
7622	↓	↓	LCS	6119/6120	↓	↓	↓	↓	↓	
7623	1/25/10	2/1/10	TO15 IUT IS(A)	7620	50ppb	0.9psig	45psia	1ppb	I.I.	
7624			STD(A)	7621						
7625			LCS	7622	↓					
7626	↓	↓	IS(B)	7620	↓	↓	↓	↓	↓	

Page 323 of 333

Centek laboratories, LLC

Centek Laboratories, LLC

GC/MS Calibration Standards Logbook

Std #	Date Prep	Date exp	Description	Stock #	Stock conc	Initial vol	finial vol	Final conc/ppbV	Prep by	Chkd by
8259	1/17/11	1/24/11	TO15 1UG IS(A)	8253	50ppb	0.9psiG	45psiA	1ppb		
8260	↓	↓	↓ STD(A)	8254	↓	↓	↓	↓		
8261	↓	↓	↓ LCS	8255	↓	↓	↓	↓		
8262	1/18/11	1/24/11	TO15 1UG IS(B)	8253	50ppb	0.9psiG	45psiA	1ppb	L.L.	
8263	↓	↓	↓ STD(B)	8254	↓	↓	↓	↓	↓	
8264	1/21/11	1/24/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	
8265	1/24/11	1/31/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	
8266	↓	↓	↓ STD	7617/7618					↓	
8267			LCS	TTHOA/TTHOB						
8268			4PCH	7384	↓	↓	↓	↓		
8269			FORM	7068	36.5%	1.1ul	.5opsiG	10ppm		
8270			FORM.50	8269	10ppm	0.23psiG	45psiA	50ppb		
8271	↓	↓	↓ SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb	↓	
8272	1/17/11	1/24/11	TO15 SILX/SULF	6194/7046	1ppm	1.5psiG	30psiA	50ppb		
8273	1/24/11	1/31/11	TO15 1UG IS(A)	8265	50ppb	0.9psiG	45psiA	1ppb		
8274	↓	↓	↓ STD(A)	8266	↓	↓	↓	↓		
8275	↓	↓	↓ LCS	8267	↓	↓	↓	↓		
8276	1/26/11	1/31/11	TO15 IS	7857	1ppm	1.5psiG	30psiA	50ppb	L.L.	

Page # 115

GC/MS VOLATILES-WHOLE AIR

METHOD TO-15

CANISTER CLEANING LOG

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
367	130	30	12/13/10	WAC121310A	1ug/m³ +0.25	+ 30	+ 30
407					TCE, CT, VNCL	+	+
465						+	+
231						+	+
130						+	+
496	552			WAC121310B		+	+
88						+	+
564						+	+
485						+	+
552						+	+
541	316			WAC121310C		+	+
289						+	+
410						+	+
195						+	+
316						+	+
419	138			WAC121310D		+	+
479						+	+
463						+	+
197						+	+
138						+	+
86	467			WAC121310E		+	+
417						+	+
551						+	+
107						+	+
467						+	+

Cleaned by: I.I.

Page # 118

Centek Laboratories, LLC

QC Canister Cleaning Logbook

Instrument: Entech 3100

Canister Number	QC Can Number	Number of Cycles	Date	QC Batch Number	Detection Limits	Leak Test 24hr (psig str/stp)	
358	158	30	12/13/10	WAC121310F	1 ug/m³ + 0.25	+ 30	+ 30
313	↓	↓	↓	↓	TCE, CT, VNCL	+	+
171					↓	+	+
92						+	+
158	↓			↓		+	+
159	325			WAC121310G		+	+
201	↓			↓		+	+
420						+	+
131						+	+
325	↓			↓		+	+
368	241			WAC121310H		+	+
429	↓			↓		+	+
493						+	+
428						+	+
241	↓	↓	↓	↓	↓	+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+
						+	+

Cleaned by: L.L.

Page # 119

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121310.D Vial: 5
Acq On : 13 Dec 2010 1:42 pm Operator: RJP
Sample : WAC121310E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 14:02:48 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

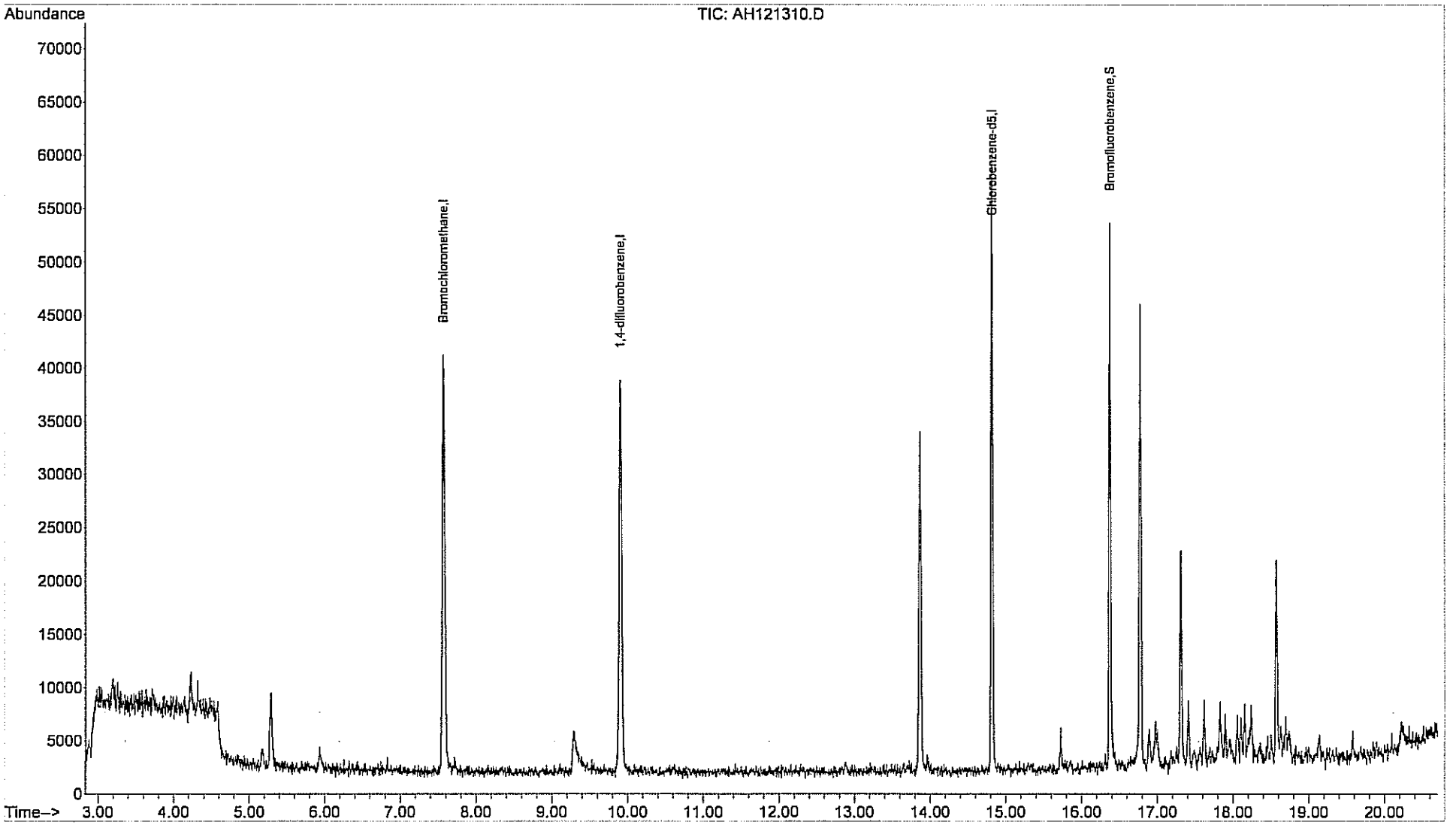
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.57	128	15125	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	40143	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	32664	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	13841	0.87	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 87.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121310.D Vial: 5
Acq On : 13 Dec 2010 1:42 pm Operator: RJP
Sample : WAC121310E Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Feb 9 15:34 2011 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121309.D Vial: 4
Acq On : 13 Dec 2010 1:02 pm Operator: RJP
Sample : WAC121310D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 13:23:01 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

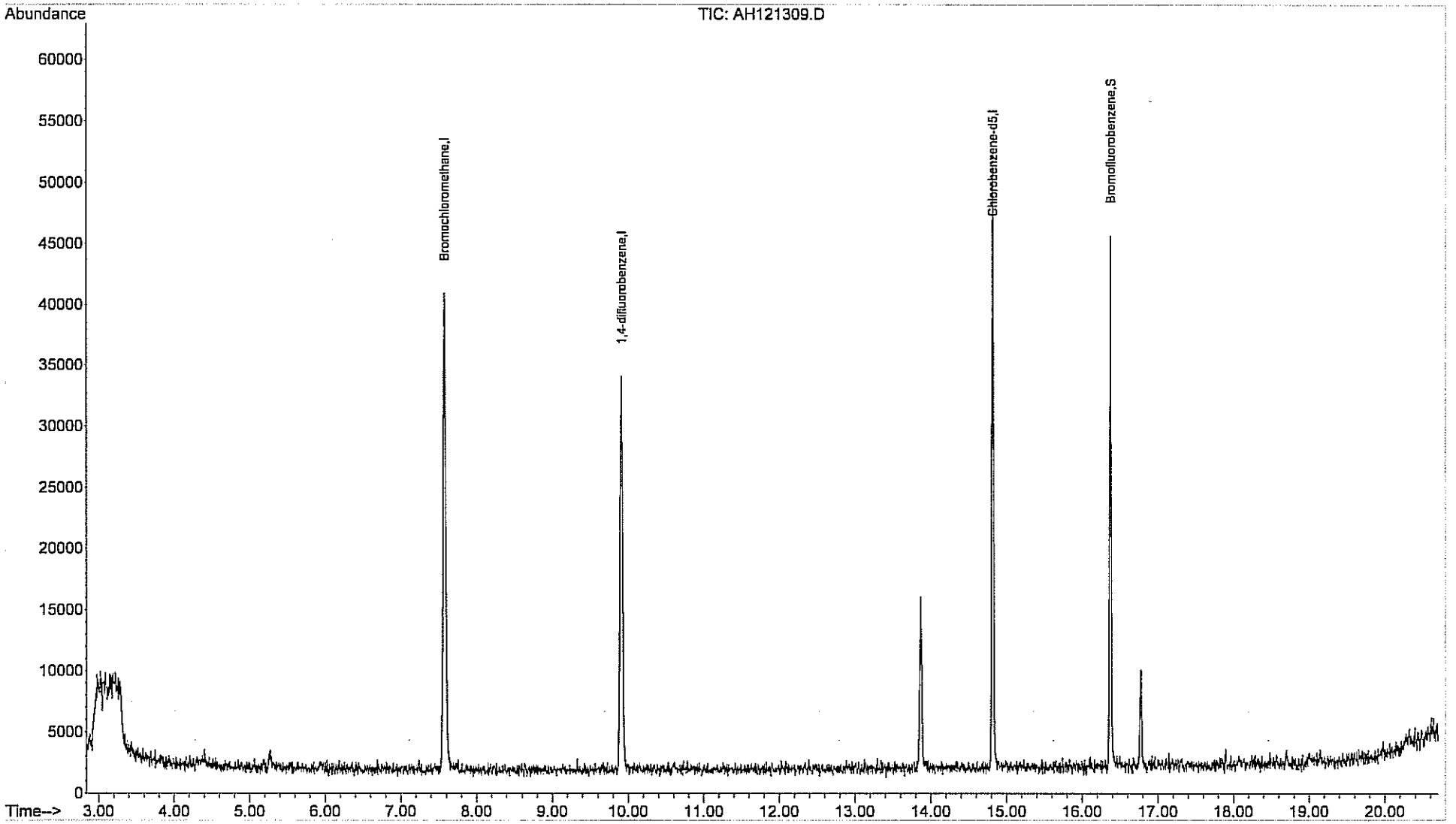
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	15345	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.90	114	35482	1.00	ppb	0.00
44) Chlorobenzene-d5	14.81	117	28857	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	11124	0.79	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 79.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH121309.D A206_1UG.M Fri Feb 18 17:16:53 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121309.D Vial: 4
Acq On : 13 Dec 2010 1:02 pm Operator: RJP
Sample : WAC121310D Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 13:23 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121313.D Vial: 6
Acq On : 13 Dec 2010 4:10 pm Operator: RJP
Sample : WAC121310F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 13 16:31:43 2010 Quant Results File: AN29_1UG.RES

Quant Method : C:\HPCHEM\1\METHODS\AN29_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Tue Nov 30 11:11:48 2010
Response via : Initial Calibration
DataAcq Meth : AN29_1UG

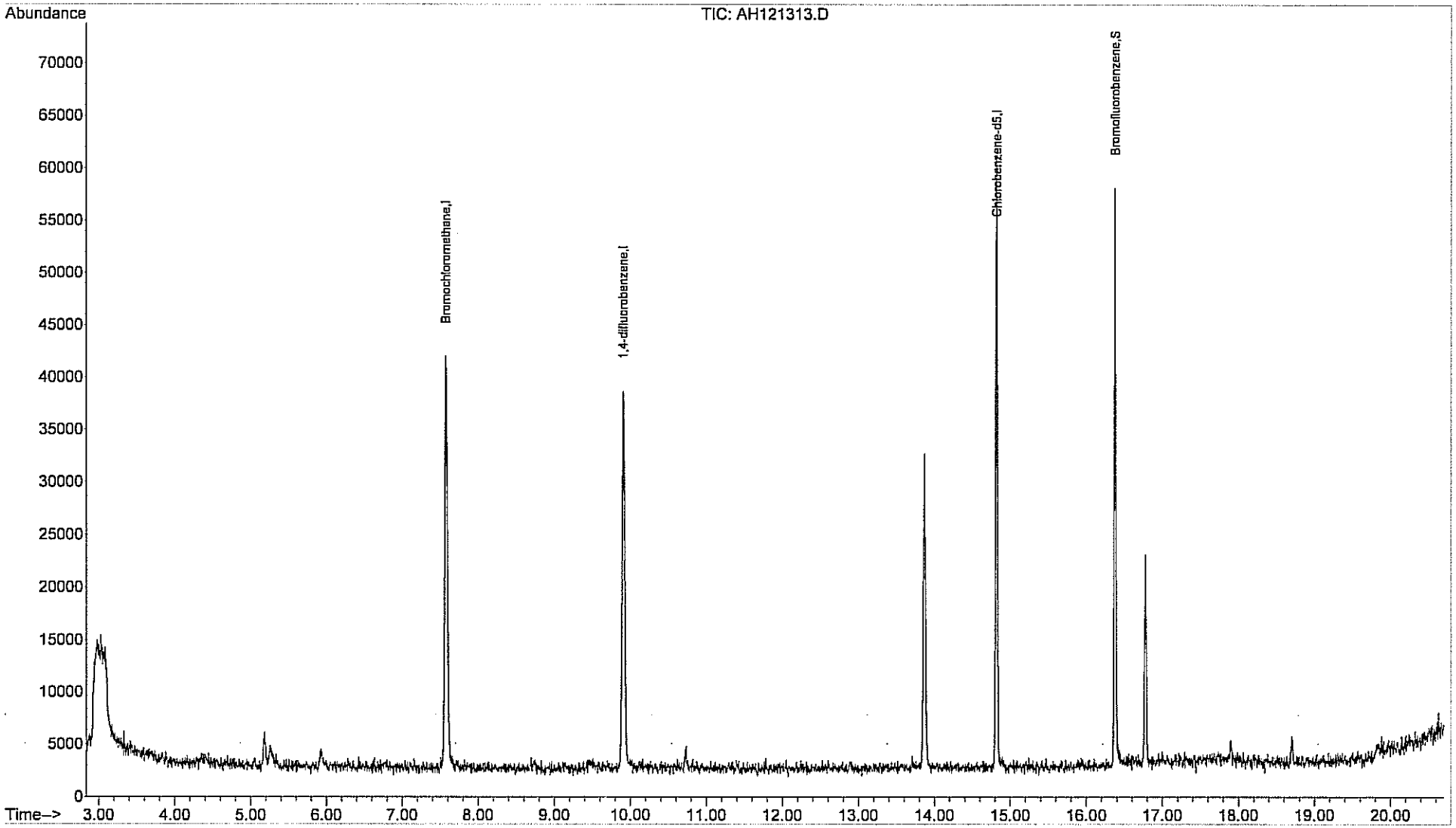
Internal Standards	R.T.	QIon	Response	Conc	Units	Dev(Min)
1) Bromochloromethane	7.58	128	15574	1.00	ppb	0.00
30) 1,4-difluorobenzene	9.91	114	39264	1.00	ppb	0.00
44) Chlorobenzene-d5	14.82	117	34054	1.00	ppb	0.00
System Monitoring Compounds						
57) Bromofluorobenzene	16.37	95	14994	0.91	ppb	0.00
Spiked Amount 1.000	Range 70 - 130		Recovery = 91.00%			
Target Compounds						Qvalue

(#) = qualifier out of range (m) = manual integration (+) = signals summed
AH121313.D A206_1UG.M Fri Feb 18 17:17:03 2011 MSD1 Page 1

Quantitation Report (QT Reviewed)

Data File : C:\HPCHEM\1\DATA2\AH121313.D Vial: 6
Acq On : 13 Dec 2010 4:10 pm Operator: RJP
Sample : WAC121310F Inst : MSD #1
Misc : 1UG + 0.25 Multiplr: 1.00
MS Integration Params: RTEINT.P
Quant Time: Dec 14 10:14 2010 Quant Results File: AN29_1UG.RES

Method : C:\HPCHEM\1\METHODS\A206_1UG.M (RTE Integrator)
Title : TO-15 VOA Standards for 5 point calibration
Last Update : Mon Feb 07 10:57:51 2011
Response via : Initial Calibration



Centek laboratories, LLC

Appendix H
Gaussian Plume Model Calculations

Dispersion involves the horizontal and vertical spreading of a pollutant plume as it moves away from the source. The spreading is most commonly described using the *Gaussian plume* model. The physical features of the model are shown in Figure 1 using a three dimensional *x-y-z* coordinate system.

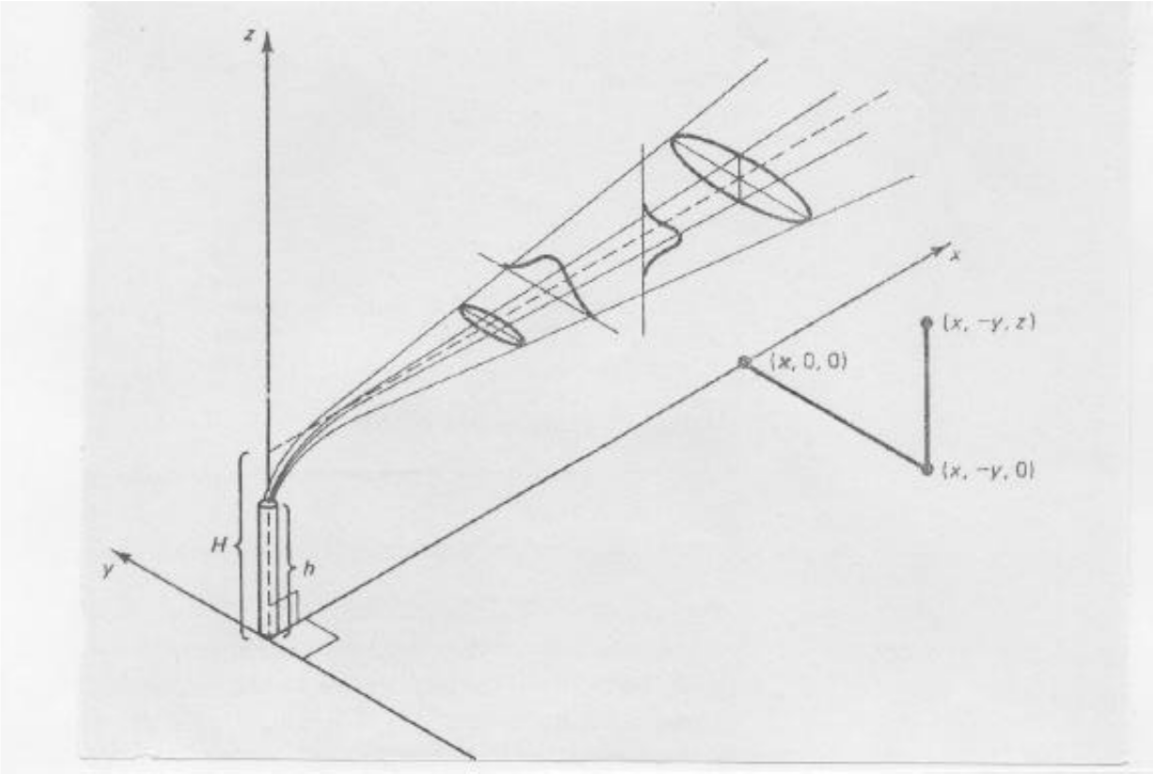


Figure 1 Plume Coordinates For *Gaussian Dispersion Model*

The model can estimate the downwind configuration of the plume and hence concentrations of emitted pollutants at specific locations of interest. The selected application of the model is presented as follows.

The location of the maximum ground-level concentration along the plume centerline and originating from a stack with an effective height H, with no reflections from the ground, is

$$\sigma z = 0.707H \qquad \text{Equation 1}$$

The ground-level concentration at some distance along the plume centerline and originating from a stack with an effective height H, with no reflections from the ground, is

$$Cx, 0 = \frac{Qge^{(-0.05)(\frac{H}{\sigma z})^2}}{\pi V \sigma z \sigma y} \qquad \text{Equation 2}$$

The *Gaussian dispersion coefficients*, σz *and* σy, are taken from Figures 2 and 3 for the atmospheric stability conditions defined in Table 1.

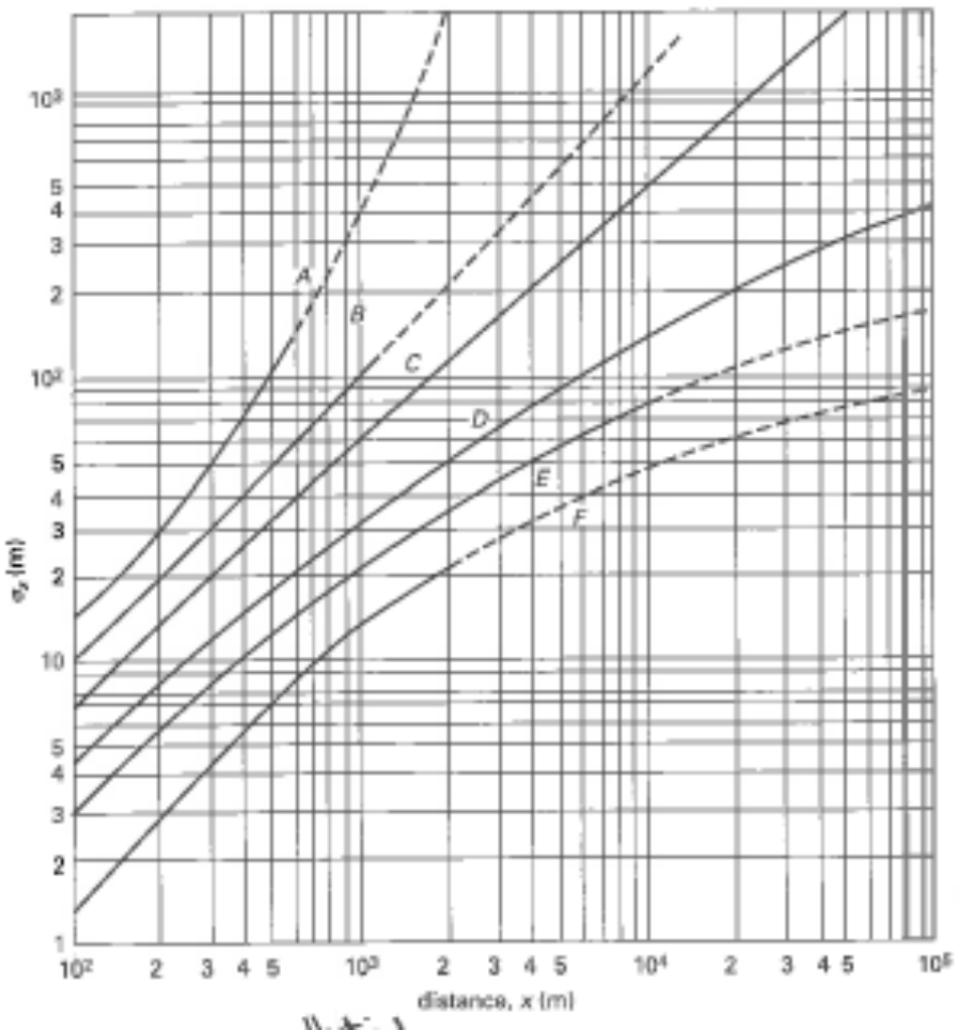


Figure 2 *Gaussian Dispersion Coefficient, σz,* for vertical plume concentration at downwind distance, x

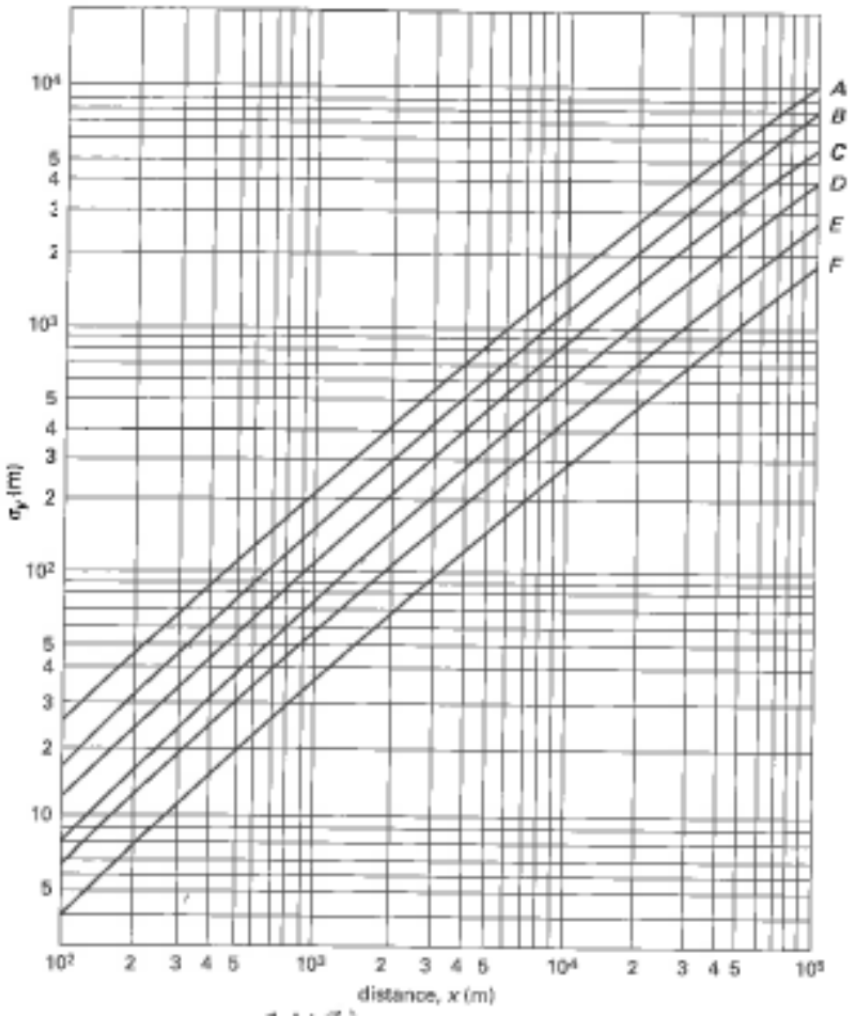


Figure 3 *Gaussian Dispersion Coefficient, σy*, for horizontal plume concentration at downwind distance, x

surface wind speed at 10 m (m/s)	day: incoming solar radiation			night: cloud cover	
	strong	moderate	slight	mostly overcast	mostly clear
class[6]	1	2	3	4	5
< 2	A	A-B	B	E	F
2–3	A-B	B	C	E	F
3–5	B	B-C	C	D	E
5–6	C	C-D	D	D	D
>6	C	D	D	D	D

Table 1 Atmospheric Stability Categories

Problem 1, Comment 31:

Trichloroethylene vapors are emitted from the Building 774 and 776 SSVM system at a flow $Qg = 39.9\ \mu g/s$ through a stack with an effective height of $H = 2.3\ m$. The wind speed at effective stack height is $V = 1.3\ m/s$, and atmospheric stability conditions are class F (most stable). (a) What is the maximum ground level concentration? (b) What is its location along the plume centerline?

Solution:

(a) Use Equation 1 to find the location of maximum ground level concentration;

$$\sigma z = 0.707H$$
$$= (0.707)(2.3\ m)$$
$$= 1.63\ m$$

(b) From Figure 2 with $\sigma z = 1.63\ m$ and a curve for stability class F, $x = 110\ m$. From Figure 3 with $x = 110\ m$ and a curve for stability class F, $\sigma y = 3.0\ m$.

Therefore, from equation 2;

$$Cx,0 = \frac{Qge^{(-0.05)(\frac{H}{\sigma z})^2}}{\pi\mu\sigma z\sigma y}$$

$$C110{,}0 = \frac{(39.9\ \frac{\mu g}{s})e^{(-0.05)(\frac{2.3\ m}{1.63\ m})^2}}{\pi\left(1.3\frac{m}{s}\right)(1.63m)(3.0m)}$$
$$= 3.8\ \mu g/m^3$$

Problem 2, Comment 40:

Trichloroethylene vapors are emitted from the Building 785 and 786 SSVM system at a flow $Qg = 54.6\ \mu g/s$ through a stack with an effective height of $H = 2.6\ m$. The wind speed at effective stack height is $V = 1.3\ m/s$, and atmospheric stability conditions are class F (most stable). (a) What is the maximum ground level concentration? (b) What is its location along the plume centerline?

Solution:

(a) Use Equation 1 to find the location of maximum ground level concentration;

$$\begin{aligned} \sigma z &= 0.707H \\ &= (0.707)(2.6\ m) \\ &= 1.84\ m \end{aligned}$$

(b) From Figure 2 with $\sigma z = 1.84\ m$ and a curve for stability class F, $x = 130\ m$. From Figure 3 with $x = 130\ m$ and a curve for stability class F, $\sigma y = 4.5\ m$.

Therefore, from equation 2;

$$Cx,0 = \frac{Qge^{(-0.05)(\frac{H}{\sigma z})^2}}{\pi\mu\sigma z\sigma y}$$

$$C130{,}0 = \frac{(54.6\ \frac{\mu g}{s})e^{(-0.05)(\frac{2.6\ m}{1.84\ m})^2}}{\pi\left(1.3\frac{m}{s}\right)(1.84m)(4.5m)}$$

$$= 3.0\ \mu g/m^3$$